

Aviat Networks Microwave Equipment

Choose from the following Aviat Networks microwave equipment.

VENDOR	BRAND/MODEL	MSRP
	AVIAT NETWORKS MICROWAVE	
	Part #	
Communications International	Aviat Networks / M-ECH-11 - ODU 600v2, 11 GHZ, PLANNING PART NUMBER	\$9,200.00
Communications International	Aviat Networks / M-ECH-18 - ODU 600v2, 18 GHZ, PLANNING PART NUMBER	\$9,200.00
Communications International	Aviat Networks / M-ECH-23 - ODU 600v2, 23 GHZ, PLANNING PART NUMBER	\$9,200.00
Communications International	Aviat Networks / M-ECH-06-HIGH - PLANNING MODEL ODU 600v2, Upper 06 GHz	\$9,200.00
Communications International	Aviat Networks / M-ECH-06-LOW - PLANNING MODEL ODU 600v2, Lower 06 GHz	\$9,200.00
	Microwave	
	Part #	
Communications International	Aviat Networks / EZF-51 - ODU High power option 1 x ODU	\$1,500.00
Communications International	Aviat Networks / EZF-52 - ODU High power option 2 x ODU	\$3,000.00
Communications International	Aviat Networks / EZF-53 - ODU High power option 3 x ODU	\$4,500.00
Communications International	Aviat Networks / EZF-54 - ODU High power option 4 x ODU	\$6,000.00
Communications International	Aviat Networks / EZF-55 - ODU High power option 5 x ODU	\$7,500.00
Communications International	Aviat Networks / EZF-56 - ODU High power option 6 x ODU	\$9,000.00
Communications International	Aviat Networks / EZG-52 - UPGRADE ODU NODAL HIGH POWER OPTION 2 x ODU	\$3,000.00
Communications International	Aviat Networks / EZG-53 - UPGRADE ODU NODAL HIGH POWER OPTION 3 x ODU	\$4,500.00
Communications International	Aviat Networks / EZG-54 - UPGRADE ODU NODAL HIGH POWER OPTION 4 x ODU	\$6,000.00
Communications International	Aviat Networks / EZG-55 - UPGRADE ODU NODAL HIGH POWER OPTION 5 x ODU	\$7,500.00
Communications International	Aviat Networks / EZG-56 - UPGRADE ODU NODAL HIGH POWER OPTION 6 x ODU	\$9,000.00
Communications International	Aviat Networks / EZF-61 - High power option 1 x RFU	\$3,000.00
Communications International	Aviat Networks / EZF-62 - High power option 2 x RFU	\$6,000.00
Communications International	Aviat Networks / EZF-63 - High power option 3 x RFU	\$9,000.00
Communications International	Aviat Networks / EZF-64 - High power option 4 x RFU	\$12,000.00
Communications International	Aviat Networks / EZF-65 - High power option 5 x RFU	\$15,000.00

4450 US Highway 1
Vero Beach, FL 32967
888.275.4244 | ask4ci.com

Authorized Aviat Networks Reseller

Communications International	Aviat Networks / EZF-66 - High power option 6 x RFU	\$18,000.00
Communications International	Aviat Networks / EZG-62 - UPGRADE High power option 2 x RFU	\$6,000.00
Communications International	Aviat Networks / EZG-63 - UPGRADE High power option 3 x RFU	\$9,000.00
Communications International	Aviat Networks / EZG-64 - UPGRADE High power option 4 x RFU	\$12,000.00
Communications International	Aviat Networks / EZG-65 - UPGRADE High power option 5 x RFU	\$15,000.00
Communications International	Aviat Networks / EZG-66 - UPGRADE High power option 6 x RFU	\$18,000.00
Communications International	Aviat Networks / EZE-08001 - NODE SW LICENSE, 50 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$300.00
Communications International	Aviat Networks / EZE-08002 - NODE SW LICENSE, 100 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$1,250.00
Communications International	Aviat Networks / EZE-08003 - NODE SW LICENSE, 150 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$3,000.00
Communications International	Aviat Networks / EZE-08004 - NODE SW LICENSE, 200 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$5,000.00
Communications International	Aviat Networks / EZE-08005 - NODE SW LICENSE, 300 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$7,500.00
Communications International	Aviat Networks / EZE-08006 - NODE SW LICENSE, 400 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$10,000.00
Communications International	Aviat Networks / EZE-08007 - NODE SW LICENSE, 800 Mbps TOTAL RADIO PAYLOAD CAPACITY	\$12,000.00
Communications International	Aviat Networks / EZE-08008 - NODE SW LICENSE, 1.2 Gbps TOTAL RADIO PAYLOAD CAPACITY	\$13,500.00
Communications International	Aviat Networks / EZE-08009 - NODE SW LICENSE, 1.6 Gbps TOTAL RADIO PAYLOAD CAPACITY	\$15,000.00
Communications International	Aviat Networks / EZE-08010 - NODE SW LICENSE, 2.0 Gbps TOTAL RADIO PAYLOAD CAPACITY	\$16,500.00
Communications International	Aviat Networks / EZA-08002-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08002 50 Mbps TO 100 Mbps	\$950.00
Communications International	Aviat Networks / EZA-08003-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08003 50 Mbps TO 150 Mbps	\$2,700.00
Communications International	Aviat Networks / EZA-08003-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08003 100 Mbps TO 150 Mbps	\$1,750.00
Communications International	Aviat Networks / EZA-08004-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08004 50 Mbps TO 200 Mbps	\$4,700.00
Communications International	Aviat Networks / EZA-08004-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08004 100 Mbps TO 200 Mbps	\$3,750.00
Communications International	Aviat Networks / EZA-08004-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08004 150 Mbps TO 200 Mbps	\$2,000.00

Communications International	Aviat Networks / EZA-08005-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08005 50 Mbps TO 300 Mbps	\$7,200.00
Communications International	Aviat Networks / EZA-08005-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08005 100 Mbps TO 300 Mbps	\$6,250.00
Communications International	Aviat Networks / EZA-08005-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08005 150 Mbps TO 300 Mbps	\$4,500.00
Communications International	Aviat Networks / EZA-08005-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08005 200 Mbps TO 300 Mbps	\$2,500.00
Communications International	Aviat Networks / EZA-08006-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08006 50 Mbps TO 400 Mbps	\$9,700.00
Communications International	Aviat Networks / EZA-08006-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08006 100 Mbps TO 400 Mbps	\$8,750.00
Communications International	Aviat Networks / EZA-08006-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08006 150 Mbps TO 400 Mbps	\$7,000.00
Communications International	Aviat Networks / EZA-08006-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08006 200 Mbps TO 400 Mbps	\$5,000.00
Communications International	Aviat Networks / EZA-08006-LU5 - LICENCE UPGRADE EZA-08005 TO EZA-08006 300 Mbps TO 400 Mbps	\$2,500.00
Communications International	Aviat Networks / EZA-08007-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08007 50 Mbps TO 800 Mbps	\$11,700.00
Communications International	Aviat Networks / EZA-08007-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08007 100 Mbps TO 800 Mbps	\$10,750.00
Communications International	Aviat Networks / EZA-08007-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08007 150 Mbps TO 800 Mbps	\$9,000.00
Communications International	Aviat Networks / EZA-08007-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08007 200 Mbps TO 800 Mbps	\$7,000.00
Communications International	Aviat Networks / EZA-08007-LU5 - LICENCE UPGRADE EZA-08005 TO EZA-08007 300 Mbps TO 800 Mbps	\$4,500.00
Communications International	Aviat Networks / EZA-08007-LU6 - LICENCE UPGRADE EZA-08006 TO EZA-08007 400 Mbps TO 800 Mbps	\$2,000.00
Communications International	Aviat Networks / EZA-08008-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08008 50 Mbps TO 1.2 Gbps	\$13,200.00
Communications International	Aviat Networks / EZA-08008-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08008 100 Mbps TO 1.2 Gbps	\$12,250.00
Communications International	Aviat Networks / EZA-08008-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08008 150 Mbps TO 1.2 Gbps	\$10,500.00
Communications International	Aviat Networks / EZA-08008-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08008 200 Mbps TO 1.2 Gbps	\$8,500.00

Communications International	Aviat Networks / EZA-08008-LU5 - LICENCE UPGRADE EZA-08005 TO EZA-08008 300 Mbps TO 1.2 Gbps	\$6,000.00
Communications International	Aviat Networks / EZA-08008-LU6 - LICENCE UPGRADE EZA-08006 TO EZA-08008 400 Mbps TO 1.2 Gbps	\$3,500.00
Communications International	Aviat Networks / EZA-08008-LU7 - LICENCE UPGRADE EZA-08007 TO EZA-08008 800 Mbps TO 1.2 Gbps	\$1,500.00
Communications International	Aviat Networks / EZA-08009-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08009 50 Mbps TO 1.6 Gbps	\$14,700.00
Communications International	Aviat Networks / EZA-08009-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08009 100 Mbps TO 1.6 Gbps	\$13,750.00
Communications International	Aviat Networks / EZA-08009-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08009 150 Mbps TO 1.6 Gbps	\$12,000.00
Communications International	Aviat Networks / EZA-08009-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08009 200 Mbps TO 1.6 Gbps	\$10,000.00
Communications International	Aviat Networks / EZA-08009-LU5 - LICENCE UPGRADE EZA-08005 TO EZA-08009 300 Mbps TO 1.6 Gbps	\$7,500.00
Communications International	Aviat Networks / EZA-08009-LU6 - LICENCE UPGRADE EZA-08006 TO EZA-08009 400 Mbps TO 1.6 Gbps	\$5,000.00
Communications International	Aviat Networks / EZA-08009-LU7 - LICENCE UPGRADE EZA-08007 TO EZA-08009 800 Mbps TO 1.6 Gbps	\$3,000.00
Communications International	Aviat Networks / EZA-08009-LU8 - LICENCE UPGRADE EZA-08008 TO EZA-08009 1.2 Gbps TO 1.6 Gbps	\$1,500.00
Communications International	Aviat Networks / EZA-08010-LU1 - LICENCE UPGRADE EZE-08001 TO EZA-08010 50 Mbps TO 2.0 Gbps	\$16,200.00
Communications International	Aviat Networks / EZA-08010-LU2 - LICENCE UPGRADE EZA-08002 TO EZA-08010 100 Mbps TO 2.0 Gbps	\$15,250.00
Communications International	Aviat Networks / EZA-08010-LU3 - LICENCE UPGRADE EZA-08003 TO EZA-08010 150 Mbps TO 2.0 Gbps	\$13,500.00
Communications International	Aviat Networks / EZA-08010-LU4 - LICENCE UPGRADE EZA-08004 TO EZA-08010 200 Mbps TO 2.0 Gbps	\$11,500.00
Communications International	Aviat Networks / EZA-08010-LU5 - LICENCE UPGRADE EZA-08005 TO EZA-08010 300 Mbps TO 2.0 Gbps	\$9,000.00
Communications International	Aviat Networks / EZA-08010-LU6 - LICENCE UPGRADE EZA-08006 TO EZA-08010 400 Mbps TO 2.0 Gbps	\$6,500.00
Communications International	Aviat Networks / EZA-08010-LU7 - LICENCE UPGRADE EZA-08007 TO EZA-08010 800 Mbps TO 2.0 Gbps	\$4,500.00
Communications International	Aviat Networks / EZA-08010-LU8 - LICENCE UPGRADE EZA-08008 TO EZA-08010 1.2 Gbps TO 2.0 Gbps	\$3,000.00

Communications International	Aviat Networks / EZA-08010-LU9 - LICENCE UPGRADE EZA-08009 TO EZA-08010 1.6 Gbps TO 2.0 Gbps	\$1,500.00
Communications International	Aviat Networks / EZF-01 - LAYER 1 LINK AGGREGATION NODAL ON DAC GE / DAC GE3	\$450.00
Communications International	Aviat Networks / EZF-02 - ADAPTIVE MODULATION NODAL RAC60/6X/60E/6XE	\$1,500.00
Communications International	Aviat Networks / EZF-03 - SECURE MANGEMENT, INU, inc SNMPV3 NODAL	\$1,200.00
Communications International	Aviat Networks / EZF-04 - PAYLOAD ENCRYPTION NODAL RAC60/6X/60E/6XE	\$1,000.00
Communications International	Aviat Networks / EZF-05 - ETHERNET OVER TDM, NTU, DS3, 16X V2 DS1 and E1	\$450.00
Communications International	Aviat Networks / EZF-06 - RADIUS CLIENT, NODAL CENTRALIZED USER ACCT MGMT	\$450.00
Communications International	Aviat Networks / EZF-09 - SYNCHRONOUS ETHERNET NODAL LICENSE for DAC GE3	\$400.00
Communications International	Aviat Networks / EZF-10 - NODAL OAM/G.8032 ERP LICENSE FOR DAC GE3	\$550.00
Communications International	Aviat Networks / EZF-14 - NCM LOOP SWITCH License to support up to 50E1/63T1 TDM circuits	\$6,000.00
Communications International	Aviat Networks / EZF-42 - STRONG SECURITY FIPS 140-2 COMPLIANT	\$3,500.00
Communications International	Aviat Networks / EZF-43 - IPV6 Functionality Feature License	\$0.00
Communications International	Aviat Networks / EZG-01 - UPGRADE LAYER 1 LINK AGGREGATION ON DAC GE / DAC GE3	\$450.00
Communications International	Aviat Networks / EZG-02 - UPGRADE ADAPTIVE MODULATION RAC60/6X/60E/6XE	\$1,500.00
Communications International	Aviat Networks / EZG-03 - UPGRADE SECURE MANGEMENT, INU, inc SNMPV3	\$1,200.00
Communications International	Aviat Networks / EZG-04 - UPGRADE PAYLOAD ENCRYPTION	\$1,000.00
Communications International	Aviat Networks / EZG-05 - UPGRADE ETHERNET OVER TDM, NTU, DS3, 16X V2 E1/DS1	\$450.00
Communications International	Aviat Networks / EZG-06 - UPGRADE RADIUS CLIENT, CENTRALIZED USER ACCT MGMT	\$450.00
Communications International	Aviat Networks / EZG-09 - UPGRADE SYNCHRONOUS ETHERNET NODAL LICENSE for DAC GE3	\$400.00
Communications International	Aviat Networks / EZG-10 - UPGRADE NODAL OAM/G.8032 ERP LICENSE FOR DAC GE3	\$550.00

Communications International	Aviat Networks / EZG-14 - UPGRADE NCM LOOP SWITCH UPGRADE License to support up to 50E1/63T1 TDM circuits	\$6,000.00
Communications International	Aviat Networks / EZG-42 - UPGRADE STRONG SECURITY FIPS 140-2 COMPLIANT	\$3,500.00
Communications International	Aviat Networks / EZG-43 - UPGRADE IPV6 Functionality Feature License	\$500.00
	Microwave	
	Part #	
Communications International	Aviat Networks / EV202-AEB-000-410000 - IRU600v4 RFSEC ASSY NP, IF TR EHP 11 GHz, Filter-non ACCP	\$30,850.00
Communications International	Aviat Networks / EV202-AEB-000-418000 - IRU600v4 RFSEC ASSY NP, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$32,050.00
Communications International	Aviat Networks / EV202-AMC-000-410000 - IRU600v4 RFSEC ASSY NP, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$22,850.00
Communications International	Aviat Networks / EV202-AMB-000-418000 - IRU600v4 RFSEC ASSY NP, IF TR SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$24,050.00
Communications International	Aviat Networks / EV203-AEB-000-410000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR EHP 11 GHz, Filter-non ACCP	\$31,125.00
Communications International	Aviat Networks / EV203-AEB-000-418000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$32,325.00
Communications International	Aviat Networks / EV203-AMC-000-410000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$23,125.00
Communications International	Aviat Networks / EV203-AMB-000-418000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 80 MHz	\$24,325.00
Communications International	Aviat Networks / EV204-AEB-AEB-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP 11 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV204-AEB-AEB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP 11 GHz, Filter-non ACCP, 40/80 MHz	\$60,175.00
Communications International	Aviat Networks / EV204-AEB-AEB-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP 11 GHz, Filter-non ACCP, 80/40 MHz	\$60,175.00

Communications International	Aviat Networks / EV204-AEB-AEB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$61,375.00
Communications International	Aviat Networks / EV204-AEB-AMC-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV204-AEB-AMB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 40/80 MHz	\$52,175.00
Communications International	Aviat Networks / EV204-AEB-AMC-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80/40 MHz	\$52,175.00
Communications International	Aviat Networks / EV204-AEB-AMB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$53,375.00
Communications International	Aviat Networks / EV204-AMC-AEB-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 10.5-11/11 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV204-AMC-AEB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$52,175.00
Communications International	Aviat Networks / EV204-AMB-AEB-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 80/40 MHz	\$52,175.00
Communications International	Aviat Networks / EV204-AMB-AEB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 11 GHz, Filter-non ACCP, 80 MHz	\$53,375.00
Communications International	Aviat Networks / EV204-AMC-AMC-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$42,975.00
Communications International	Aviat Networks / EV204-AMC-AMB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$44,175.00
Communications International	Aviat Networks / EV204-AMB-AMC-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 80/40 MHz	\$44,175.00
Communications International	Aviat Networks / EV204-AMB-AMB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$45,375.00
Communications International	Aviat Networks / EV205-AEB-AEB-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP	\$58,475.00

Communications International	Aviat Networks / EV205-AEB-AEB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP, 40/80 MHz	\$59,675.00
Communications International	Aviat Networks / EV205-AEB-AEB-418100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP, 80/40 MHz	\$59,675.00
Communications International	Aviat Networks / EV205-AEB-AEB-418180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$60,875.00
Communications International	Aviat Networks / EV205-AEB-AMC-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AEB-AMB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 40/80 MHz	\$51,675.00
Communications International	Aviat Networks / EV205-AEB-AMC-418100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80/40 MHz	\$51,675.00
Communications International	Aviat Networks / EV205-AEB-AMB-418180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$52,875.00
Communications International	Aviat Networks / EV205-AMC-AEB-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 10.5-11/11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AMC-AEB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$51,675.00
Communications International	Aviat Networks / EV205-AMB-AEB-418100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 11 GHz, Filter-non ACCP, 80/40 MHz	\$51,675.00
Communications International	Aviat Networks / EV205-AMB-AEB-418180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 11 GHz, Filter-non ACCP, 80 MHz	\$52,875.00
Communications International	Aviat Networks / EV205-AMC-AMC-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$42,475.00
Communications International	Aviat Networks / EV205-AMC-AMB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$43,675.00
Communications International	Aviat Networks / EV205-AMB-AMC-418100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 11/10.5-11 GHz, Filter-non ACCP, 80/40 MHz	\$43,675.00

Communications International	Aviat Networks / EV205-AMB-AMB-418180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$44,875.00
Communications International	Aviat Networks / EV206-AEB-AEO-410000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP 11 GHz, Filter-non ACCP	\$54,975.00
Communications International	Aviat Networks / EV206-AEB-AEO-418000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$56,175.00
Communications International	Aviat Networks / EV206-AMC-AM0-410000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$38,975.00
Communications International	Aviat Networks / EV206-AMB-AM0-418000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$40,175.00
Communications International	Aviat Networks / EV207-AEB-AEO-410000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR EHP 11 GHz, Filter-non ACCP	\$56,725.00
Communications International	Aviat Networks / EV207-AEB-AEO-418000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$57,925.00
Communications International	Aviat Networks / EV207-AMC-AM0-410000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$40,725.00
Communications International	Aviat Networks / EV207-AMB-AM0-418000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$41,925.00
Communications International	Aviat Networks / EV212-AEB-AEB-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP 11 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV212-AEB-AEB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP 11 GHz, Filter-non ACCP, 40/80 MHz	\$60,175.00
Communications International	Aviat Networks / EV212-AEB-AEB-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP 11 GHz, Filter-non ACCP, 80/40 MHz	\$60,175.00
Communications International	Aviat Networks / EV212-AEB-AEB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	\$61,375.00
Communications International	Aviat Networks / EV212-AEB-AMC-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP	\$50,975.00

Communications International	Aviat Networks / EV212-AEB-AMB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 40/80 MHz	\$52,175.00
Communications International	Aviat Networks / EV212-AEB-AMC-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80/40 MHz	\$52,175.00
Communications International	Aviat Networks / EV212-AEB-AMB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP/SP-HP 11 GHz, Filter-non ACCP, 80 MHz	\$53,375.00
Communications International	Aviat Networks / EV212-AMC-AEB-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV212-AMC-AEB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$52,175.00
Communications International	Aviat Networks / EV212-AMB-AEB-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 80/40 MHz	\$52,175.00
Communications International	Aviat Networks / EV212-AMB-AEB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 10.5-11 GHz, Filter-non ACCP, 80 MHz	\$53,375.00
Communications International	Aviat Networks / EV212-AMC-AMC-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP	\$42,975.00
Communications International	Aviat Networks / EV212-AMC-AMB-410180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 40/80 MHz	\$44,175.00
Communications International	Aviat Networks / EV212-AMB-AMC-418100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 80/40 MHz	\$44,175.00
Communications International	Aviat Networks / EV212-AMB-AMB-418180 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 10.5-11 GHz, Filter-non ACCP, 80 MHz	\$45,375.00
Communications International	Aviat Networks / EV202-AEL-000-410000 - IRU600v4 RFSEC ASSY NP, IF TR EHP L6 GHz, Filter-non ACCP	\$30,850.00
Communications International	Aviat Networks / EV202-AEL-000-416000 - IRU600v4 RFSEC ASSY NP, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$30,850.00
Communications International	Aviat Networks / EV202-AEU-000-410000 - IRU600v4 RFSEC ASSY NP, IF TR EHP U6 GHz, Filter-non ACCP	\$30,850.00

Communications International	Aviat Networks / EV202-AML-000-416000 - IRU600v4 RFSEC ASSY NP, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$22,850.00
Communications International	Aviat Networks / EV202-AMT-000-410000 - IRU600v4 RFSEC ASSY NP, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$22,850.00
Communications International	Aviat Networks / EV203-AEL-000-410000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR EHP L6 GHz, Filter-non ACCP	\$31,125.00
Communications International	Aviat Networks / EV203-AEL-000-416000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$31,125.00
Communications International	Aviat Networks / EV203-AEU-000-410000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR EHP U6 GHz, Filter-non ACCP	\$31,125.00
Communications International	Aviat Networks / EV203-AML-000-416000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$23,125.00
Communications International	Aviat Networks / EV203-AMT-000-410000 - IRU600v4 RFSEC ASSY NP RDY FOR MHSB RX UNEQ SPLIT, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$23,125.00
Communications International	Aviat Networks / EV204-AEL-AEL-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP L6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV204-AEL-AEL-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP L6 GHz, Filter-non ACCP, 30/60 MHz	\$58,975.00
Communications International	Aviat Networks / EV204-AEL-AEL-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$58,975.00
Communications International	Aviat Networks / EV204-AEL-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP L6/U6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV204-AEL-AEU-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$58,975.00
Communications International	Aviat Networks / EV204-AEU-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR EHP U6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV204-AML-AEL-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,975.00
Communications International	Aviat Networks / EV204-AML-AEL-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60 MHz	\$50,975.00

Communications International	Aviat Networks / EV204-AML-AEU-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,975.00
Communications International	Aviat Networks / EV204-AML-AML-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$42,975.00
Communications International	Aviat Networks / EV204-AMT-AEL-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 5.8-U6/L6 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV204-AMT-AEL-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$50,975.00
Communications International	Aviat Networks / EV204-AMT-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP/EHP 5.8-U6/U6 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV204-AMT-AML-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$42,975.00
Communications International	Aviat Networks / EV204-AMT-AMT-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT MAIN, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$42,975.00
Communications International	Aviat Networks / EV205-AEL-AEL-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6 GHz, Filter-non ACCP	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AEL-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6 GHz, Filter-non ACCP, 30/60 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AEL-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AEL-416160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AEU-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/U6 GHz, Filter-non ACCP	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AEU-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/U6 GHz, Filter-non ACCP, 60/30 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEL-AML-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP U6/11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AML-416160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$50,475.00

Communications International	Aviat Networks / EV205-AEL-AMT-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/5.8-U6 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AMT-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/5.8-U6 GHz, Filter-non ACCP, 60/30 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEU-AEL-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP U6/L6 GHz, Filter-non ACCP	\$58,475.00
Communications International	Aviat Networks / EV205-AEU-AEL-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP U6/L6 GHz, Filter-non ACCP, 30/60 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEU-AEU-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP U6 GHz, Filter-non ACCP	\$58,475.00
Communications International	Aviat Networks / EV205-AEU-AML-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP U6/L6 GHz, Filter-non ACCP, 30/60 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEU-AMT-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP U6/5.8-U6 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AEL-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AEL-416160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AEU-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AML-416160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$42,475.00
Communications International	Aviat Networks / EV205-AML-AMT-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP L6 GHz, Filter-non ACCP, 60/30 MHz	\$42,475.00
Communications International	Aviat Networks / EV205-AMT-AEL-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP	\$50,475.00

Communications International	Aviat Networks / EV205-AMT-AEL-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AMT-AEU-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AMT-AML-410160 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$42,475.00
Communications International	Aviat Networks / EV205-AMT-AMT-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$42,475.00
Communications International	Aviat Networks / EV206-AML-AM0-416000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$38,975.00
Communications International	Aviat Networks / EV212-AEL-AEL-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP L6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV212-AEL-AEL-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP L6 GHz, Filter-non ACCP, 30/60 MHz	\$58,975.00
Communications International	Aviat Networks / EV212-AEL-AEL-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$58,975.00
Communications International	Aviat Networks / EV212-AEL-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP L6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV212-AEL-AEU-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$58,975.00
Communications International	Aviat Networks / EV212-AEU-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR EHP U6 GHz, Filter-non ACCP	\$58,975.00
Communications International	Aviat Networks / EV212-AML-AEL-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,975.00
Communications International	Aviat Networks / EV212-AML-AEL-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60 MHz	\$50,975.00
Communications International	Aviat Networks / EV212-AML-AEU-416100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP L6 GHz, Filter-non ACCP, 60/30 MHz	\$50,975.00
Communications International	Aviat Networks / EV212-AML-AML-416160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$42,975.00

Communications International	Aviat Networks / EV212-AMT-AEL-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV212-AMT-AEL-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$50,975.00
Communications International	Aviat Networks / EV212-AMT-AEU-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP/EHP 5.8-U6 GHz, Filter-non ACCP	\$50,975.00
Communications International	Aviat Networks / EV212-AMT-AML-410160 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP, 30/60 MHz	\$42,975.00
Communications International	Aviat Networks / EV212-AMT-AMT-410100 - IRU600v4 RFSEC ASSY 2+0 1 ANT EXPN, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$42,975.00
Communications International	Aviat Networks / EV206-AEL-AE0-410000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP L6 GHz, Filter-non ACCP	\$54,975.00
Communications International	Aviat Networks / EV206-AEL-AE0-416000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$54,975.00
Communications International	Aviat Networks / EV206-AMT-AM0-410000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$38,975.00
Communications International	Aviat Networks / EV207-AEL-AE0-410000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR EHP L6 GHz, Filter-non ACCP	\$56,725.00
Communications International	Aviat Networks / EV207-AEL-AE0-416000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR EHP L6 GHz, Filter-non ACCP, 60 MHz	\$56,725.00
Communications International	Aviat Networks / EV207-AEU-AE0-410000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR EHP U6 GHz, Filter-non ACCP	\$56,725.00
Communications International	Aviat Networks / EV207-AML-AM0-416000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR SP-HP L6 GHz, Filter-non ACCP, 60 MHz	\$40,725.00
Communications International	Aviat Networks / EV207-AMT-AM0-410000 - IRU600v4 RFSEC ASSY MHSB/SD TX SWITCH, IF TR SP-HP 5.8-U6 GHz, Filter-non ACCP	\$40,725.00
Communications International	Aviat Networks / EV205-AEL-AEB-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/11 GHz, Filter-non ACCP	\$50,475.00

Communications International	Aviat Networks / EV205-AEL-AEB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/11 GHz, Filter-non ACCP 30/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AEB-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/11 GHz, Filter-non ACCP 60/40 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AEB-416180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP L6/11 GHz, Filter-non ACCP 60/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AMC-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AMB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/11 GHz, Filter-non ACCP 30/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AMC-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/11 GHz, Filter-non ACCP 60/40 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEL-AMB-416180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP L6/11 GHz, Filter-non ACCP 60/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AEU-AEB-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP U6/11 GHz, Filter-non ACCP	\$58,475.00
Communications International	Aviat Networks / EV205-AEU-AEB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP U6/11 GHz, Filter-non ACCP 30/80 MHz	\$58,475.00
Communications International	Aviat Networks / EV205-AEU-AMC-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP U6/10.5-11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AEU-AMB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP/SP-HP U6/11 GHz, Filter-non ACCP 30/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AEB-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 6/11 GHz, Filter-non ACCP 60/40 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AML-AEB-416180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 6/11 GHz, Filter-non ACCP 60/80 MHz	\$50,475.00

Communications International	Aviat Networks / EV205-AML-AMC-416100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 6/11 GHz, Filter-non ACCP 60/40 MHz	\$42,475.00
Communications International	Aviat Networks / EV205-AML-AMB-416180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 6/11 GHz, Filter-non ACCP 60/80 MHz	\$42,475.00
Communications International	Aviat Networks / EV205-AMT-AEB-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 6/11 GHz, Filter-non ACCP	\$50,475.00
Communications International	Aviat Networks / EV205-AMT-AEB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP/EHP 6/11 GHz, Filter-non ACCP 30/80 MHz	\$50,475.00
Communications International	Aviat Networks / EV205-AMT-AMC-410100 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 6/11 GHz, Filter-non ACCP	\$42,475.00
Communications International	Aviat Networks / EV205-AMT-AMB-410180 - IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR SP-HP 6/11 GHz, Filter-non ACCP 30/80 MHz	\$42,475.00
Communications International	Aviat Networks / EV206-AEU-AEO-410000 - IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP U6 GHz, Filter-non ACCP	\$54,975.00
Communications International	Aviat Networks / ERM-ACC-400 - RFU, MP, IRU600v4 IF TR, 10.5-11 GHz, 10500-11700 MHz	\$15,000.00
Communications International	Aviat Networks / ERE-ABB-400 - RFU, EHP, IRU600v4 IF TR, 11 GHz, 10700-11700 MHz	\$23,000.00
Communications International	Aviat Networks / ERE-AL6-400 - RFU, EHP, IRU600v4 IF TR, L6 GHz, 5925-6425 MHz	\$23,000.00
Communications International	Aviat Networks / ERE-AU6-400 - RFU, EHP, IRU600v4 IF TR, U6 GHz, 6400-7125 MHz	\$23,000.00
Communications International	Aviat Networks / ERM-ACC-400 - RFU, MP, IRU600v4 IF TR, 10.5-11 GHz, 10500-11700 MHz	\$15,000.00
Communications International	Aviat Networks / ERM-ATT-400 - RFU, MP, IRU600v4 IF TR, 5.8-L6-U6 GHz, 5725-7125 MHz	\$15,000.00
Communications International	Aviat Networks / ERM-ATT-400 - RFU, MP, IRU600v4 IF TR, 5.8-L6-U6 GHz, 5725-7125 MHz	\$15,000.00
Communications International	Aviat Networks / ERM-ATT-401 - RFU, MP, IRU600v4 IF TR, 5.8-L6-U6 GHz, 5725-7125 MHz	\$15,000.00
Communications International	Aviat Networks / ERM-ACC-401 - RFU, MP, IRU600v4 IF TR, 10.5-11 GHz, 10500-11700 MHz	\$15,000.00

Communications International	Aviat Networks / 179-530109-102 - LOW NOISE-THICK FAN ACCESSORIES KIT	\$189.00
Communications International	Aviat Networks / 179-530149-001 - FAN TRAY KIT	\$448.00
Communications International	Aviat Networks / 179-530112-002 - ADAPTER KIT	\$113.00
	Microwave	
	Part #	
Communications International	Aviat Networks / EXX-000-004 - INTELLIGENT NODE UNIT, INC IDC V2, FAN, NCCV2, HIGH OUTPUT	\$2,250.00
Communications International	Aviat Networks / EXX-000-204 - INTELLIGENT NODE UNIT 2RU, INC IDCE, FAN, NCCV2, HIGH OUTPUT	\$3,200.00
Communications International	Aviat Networks / 179-530063-001 - KIT BRACKET 1RU	\$30.00
Communications International	Aviat Networks / 179-530064-001 - KIT BRACKET 2RU	\$24.00
Communications International	Aviat Networks / EXR-700-001 - RAC 70, QPSK-4096QAM, NO XPIC, ACM	\$1,995.00
Communications International	Aviat Networks / EXR-770-001 - RAC 7X, QPSK-4096QAM, XPIC, ACM	\$3,350.00
Communications International	Aviat Networks / EXD-161-001 - DAC 16XE1/DS1 V2, PROTECTABLE	\$790.00
Communications International	Aviat Networks / EXD-181-002 - DAC GE3 GIGABIT ETHERNET SWITCH CARD	\$2,250.00
Communications International	Aviat Networks / EXD-331-001 - DAC 3XE3/DS3M, MUXED TO E1/DS1 BUS	\$1,150.00
Communications International	Aviat Networks / EXD-153-001 - DAC 155OM, 1XSTM1/OC3 MUXED TO 63E1/84DS1, SM, L-1.1, LR, 40KM OR LESS	\$3,080.00
Communications International	Aviat Networks / EXD-156-001 - DAC 155OM, 1XSTM1/OC3 MUXED TO 63E1/84DS1, SM, S-1.1, SR, 15KM OR LESS	\$3,080.00
Communications International	Aviat Networks / EXD-152-001 - DAC 1X1550, 1XSTM1/OC3, SM OPTICAL	\$1,080.00
Communications International	Aviat Networks / EXD-157-001 - DAC 1X1550, 1XSTM1/OC3, MULTIMODE OPTICAL	\$1,080.00
Communications International	Aviat Networks / EXS-002 - NODE PROTECTION CARD, HIGH OUTPUT	\$710.00
Communications International	Aviat Networks / EXA-001 - AUX, ALARM I/O CARD	\$625.00
Communications International	Aviat Networks / EXD-400-002 - NETWORK CAPABILITIES MODULE	\$3,000.00
Communications International	Aviat Networks / EXP-024 - INU POWER SUPPLY 24V IN 56V OUT 200W PCC	\$315.00
Communications International	Aviat Networks / EXX-001 - BLANK PANEL ASSY, SINGLE SLOT	\$10.00

Communications International	Aviat Networks / EXN-004 - NODE CONTROLLER CARD, SERIAL MGMT V2	\$1,540.00
Communications International	Aviat Networks / EXF-002 - FAN CARD V2	\$225.00
Communications International	Aviat Networks / EXF-101 - 2RU FAN CARD	\$225.00
	Microwave	
	Part #	
Communications International	Aviat Networks / 179-530107-0111 - Rack Assembly 6' Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,629.00
Communications International	Aviat Networks / 179-530107-0113 - Rack Assembly 7' Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,201.00
Communications International	Aviat Networks / 179-530107-0114 - Rack Assembly 7'-6" Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,643.00
Communications International	Aviat Networks / 179-530107-0121 - Rack Assembly 6' Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$3,453.00
Communications International	Aviat Networks / 179-530107-0123 - Rack Assembly 7' Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$2,829.00
Communications International	Aviat Networks / 179-530107-0124 - Rack Assembly 7'-6" Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$3,468.00
Communications International	Aviat Networks / 179-530307-0111 - Rack Assembly 6' Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,629.00
Communications International	Aviat Networks / 179-530307-0113 - Rack Assembly 7' Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,201.00
Communications International	Aviat Networks / 179-530307-0114 - Rack Assembly 7'-6" Chatsworth Aluminum W/1 Breaker Panel W/O breakers, W/10 blank covers	\$2,643.00
Communications International	Aviat Networks / 179-530307-0121 - Rack Assembly 6' Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$3,453.00

Communications International	Aviat Networks / 179-530307-0123 - Rack Assembly 7' Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$2,829.00
Communications International	Aviat Networks / 179-530307-0124 - Rack Assembly 7'-6" Chatsworth Aluminum W/2 Breaker Panel W/O breakers, W/10 blank covers	\$3,468.00
Communications International	Aviat Networks / 179-530107-9910 - RACK ASSY, NO RACK, NO CRATE, 1 BREAKER PNL W/10 BLANK COVERS AND NO BREAKERS	\$910.00
Communications International	Aviat Networks / 179-530307-0193 - RACK ASSY CRATED, 7' CHATSWORTH ALUMINUM, WITHOUT POWER DIST PANEL	\$1,179.00
Communications International	Aviat Networks / LOC-TRGBVKIT145872W - HAR-RCK GRND BAR KT,72"COATED	\$587.00
Communications International	Aviat Networks / 020-018475-005 - CHANNEL,MTG.	\$30.00
Communications International	Aviat Networks / 179-530119-001 - Installation Kit, Aluminum Rack, Concrete Floor	\$1,183.00
Communications International	Aviat Networks / 179-530121-001 - Isolation Kit, 19" Rack	\$703.00
Communications International	Aviat Networks / PWR-000070-TRM - 6A/6B POS., +/-48-24VDC, W/O BRKRS, 19"	\$786.00
Communications International	Aviat Networks / PWR-000046-TRM - CIRCUIT BREAKER 1 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / PWR-000047-TRM - CIRCUIT BREAKER 2 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / PWR-000048-TRM - CIRCUIT BREAKER 3 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / PWR-000052-TRM - CIRCUIT BREAKER 15 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / PWR-000053-TRM - CIRCUIT BREAKER 20 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / PWR-000051-TRM - CIRCUIT BREAKER 10 AMP SNAPAK	\$28.00
Communications International	Aviat Networks / TRM-7570019201 - TRIMM FUSE PANEL 10/10 +/-48/24V 19" FUSE PANEL	\$530.00
Communications International	Aviat Networks / PWR-000032-TRM - 15A GMT FUSE	\$5.00
Communications International	Aviat Networks / 179-530135-AA101 - WG EXT KIT 6GHZ SH1- PO1, 1+0/MHSB 1ANT, RPTR (MAIN)	\$438.00
Communications International	Aviat Networks / 179-530135-BB201 - WG EXT KIT 6GHZ SH2- PO2, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,348.00

Communications International	Aviat Networks / 179-530135-CC301 - WG EXT KIT 6GHZ SH3-PO3, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,820.00
Communications International	Aviat Networks / 179-530135-DD401 - WG EXT KIT 6GHZ SH4-PO4, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,905.00
Communications International	Aviat Networks / 179-530135-AA102 - WG EXT KIT 6GHZ SH1-PO1, 2+0/FD, RPTR (RPTR)	\$438.00
Communications International	Aviat Networks / 179-530135-BB202 - WG EXT KIT 6GHZ SH2-PO2, 2+0/FD, RPTR (RPTR)	\$1,017.00
Communications International	Aviat Networks / 179-530135-CC302 - WG EXT KIT 6GHZ SH3-PO3, 2+0/FD, RPTR (RPTR)	\$1,489.00
Communications International	Aviat Networks / 179-530135-DD402 - WG EXT KIT 6GHZ SH4-PO4, 2+0/FD, RPTR (RPTR)	\$1,597.00
Communications International	Aviat Networks / 179-530135-AA103 - WG EXT KIT 6GHZ SH1-PO1, 1+0/MHSB 2 ANT, MHSB/SD	\$845.00
Communications International	Aviat Networks / 179-530135-BB203 - WG EXT KIT 6GHZ SH2-PO2, 1+0/MHSB 2 ANT, MHSB/SD	\$2,337.00
Communications International	Aviat Networks / 179-530135-CC303 - WG EXT KIT 6GHZ SH3-PO3, 1+0/MHSB 2 ANT, MHSB/SD	\$3,281.00
Communications International	Aviat Networks / 179-530135-DD403 - WG EXT KIT 6GHZ SH4-PO4, 1+0/MHSB 2 ANT, MHSB/SD	\$3,620.00
Communications International	Aviat Networks / 179-530135-AA104 - WG EXT KIT 6GHZ SH1-PO1, SD SP/TX	\$870.00
Communications International	Aviat Networks / 179-530135-BB204 - WG EXT KIT 6GHZ SH2-PO2, SD SP/TX	\$2,365.00
Communications International	Aviat Networks / 179-530135-CC304 - WG EXT KIT 6GHZ SH3-PO3, SD SP/TX	\$3,309.00
Communications International	Aviat Networks / 179-530135-DD404 - WG EXT KIT 6GHZ SH4-PO4, SD SP/TX	\$3,500.00
Communications International	Aviat Networks / 179-530135-AA121 - WG EXT KIT 11GHZ SH1-PO1, 1+0/MHSB 1ANT, RPTR (MAIN)	\$412.00
Communications International	Aviat Networks / 179-530135-BB221 - WG EXT KIT 11GHZ SH2-PO2, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,408.00
Communications International	Aviat Networks / 179-530135-CC321 - WG EXT KIT 11GHZ SH3-PO3, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,810.00
Communications International	Aviat Networks / 179-530135-DD421 - WG EXT KIT 11GHZ SH4-PO4, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,838.00
Communications International	Aviat Networks / 179-530135-AA122 - WG EXT KIT 11GHZ SH1-PO1, 2+0/FD, RPTR (RPTR)	\$412.00

Communications International	Aviat Networks / 179-530135-BB222 - WG EXT KIT 11GHZ SH2-PO2, 2+0/FD, RPTR (RPTR)	\$1,017.00
Communications International	Aviat Networks / 179-530135-CC322 - WG EXT KIT 11GHZ SH3-PO3, 2+0/FD, RPTR (RPTR)	\$1,420.00
Communications International	Aviat Networks / 179-530135-DD422 - WG EXT KIT 11GHZ SH4-PO4, 2+0/FD, RPTR (RPTR)	\$1,573.00
Communications International	Aviat Networks / 179-530135-AA123 - WG EXT KIT 11GHZ SH1-PO1, 1+0/MHSB 2 ANT, MHSB/SD	\$840.00
Communications International	Aviat Networks / 179-530135-BB223 - WG EXT KIT 11GHZ SH2-PO2, 1+0/MHSB 2 ANT, MHSB/SD	\$2,441.00
Communications International	Aviat Networks / 179-530135-CC323 - WG EXT KIT 11GHZ SH3-PO3, 1+0/MHSB 2 ANT, MHSB/SD	\$3,383.00
Communications International	Aviat Networks / 179-530135-DD423 - WG EXT KIT 11GHZ SH4-PO4, 1+0/MHSB 2 ANT, MHSB/SD	\$3,675.00
Communications International	Aviat Networks / 179-530135-AA124 - WG EXT KIT 11GHZ SH1-PO1, SD SP/TX	\$968.00
Communications International	Aviat Networks / 179-530135-BB224 - WG EXT KIT 11GHZ SH2-PO2, SD SP/TX	\$2,569.00
Communications International	Aviat Networks / 179-530135-CC324 - WG EXT KIT 11GHZ SH3-PO3, SD SP/TX	\$3,374.00
Communications International	Aviat Networks / 179-530135-DD424 - WG EXT KIT 11GHZ SH4-PO4, SD SP/TX	\$3,550.00
Communications International	Aviat Networks / 179-530089-001 - EXT BRKT KIT IRU600 2 SHELF	\$260.00
Communications International	Aviat Networks / 179-530089-002 - EXT BRKT KIT IRU600 3 SHELF	\$520.00
Communications International	Aviat Networks / 179-530089-003 - EXT BRKT KIT IRU600 4 SHELF	\$780.00
Communications International	Aviat Networks / WGKIT-1000 - CUSTOM WAVEGUIDE EXTENSION KIT COMPLEXITY 1	\$576.00
Communications International	Aviat Networks / WGKIT-2000 - CUSTOM WAVEGUIDE EXTENSION KIT COMPLEXITY 2	\$1,153.00
Communications International	Aviat Networks / WGKIT-3000 - CUSTOM WAVEGUIDE EXTENSION KIT COMPLEXITY 3	\$1,729.00
Communications International	Aviat Networks / 179-530136-001 - WG EXP KIT IRU600 V3 6GHZ ORMS, 1+0/MHSB 1ANT, RPTR (MAIN)	\$564.00
Communications International	Aviat Networks / 179-530136-002 - WG EXP KIT IRU600 V3 6GHZ ORMS, 1+0 RPTR (RPTR)	\$564.00

Communications International	Aviat Networks / 179-530136-003 - WG EXP KIT IRU600 V3 6GHZ ORMS, 2+0/FD, SD SP/TX	\$1,128.00
Communications International	Aviat Networks / 179-530136-004 - WG EXP KIT IRU600 V3 6GHZ ORMS, MHSB/SD 2 ANT	\$1,719.00
Communications International	Aviat Networks / 179-530136-021 - WG EXP KIT IRU600 V3 11GHZ ORMS, 1+0/MHSB 1ANT, RPTR (MAIN)	\$695.00
Communications International	Aviat Networks / 179-530136-022 - WG EXP KIT IRU600 V3 11GHZ ORMS, 1+0 RPTR (RPTR)	\$695.00
Communications International	Aviat Networks / 179-530136-023 - WG EXP KIT IRU600 V3 11GHZ ORMS, 2+0/FD, SD SP/TX	\$1,390.00
Communications International	Aviat Networks / 179-530136-024 - WG EXP KIT IRU600 V3 11GHZ ORMS, MHSB/SD 2 ANT	\$1,775.00
Communications International	Aviat Networks / 179-530136-401 - WG EXP KIT IRU600 V3 6GHZ 4RMS, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,020.00
Communications International	Aviat Networks / 179-530136-402 - WG EXP KIT IRU600 V3 6GHZ 4RMS, 1+0 RPTR (RPTR)	\$1,014.00
Communications International	Aviat Networks / 179-530136-403 - WG EXP KIT IRU600 V3 6GHZ 4RMS, 2+0/FD, SD SP/TX	\$2,039.00
Communications International	Aviat Networks / 179-530136-404 - WG EXP KIT IRU600 V3 6GHZ 4RMS, MHSB/SD 2 ANT	\$2,620.00
Communications International	Aviat Networks / 179-530136-421 - WG EXP KIT IRU600 V3 11GHZ 4RMS, 1+0/MHSB 1ANT, RPTR (MAIN)	\$1,173.00
Communications International	Aviat Networks / 179-530136-422 - WG EXP KIT IRU600 V3 11GHZ 4RMS, 1+0 RPTR (RPTR)	\$1,173.00
Communications International	Aviat Networks / 179-530136-423 - WG EXP KIT IRU600 V3 11GHZ 4RMS, 2+0/FD, SD SP/TX	\$2,347.00
Communications International	Aviat Networks / 179-530136-424 - WG EXP KIT IRU600 V3 11GHZ 4RMS, MHSB/SD 2 ANT	\$2,738.00
Communications International	Aviat Networks / 098-906647-001 - HARDWARE KIT CPR137	\$42.00
Communications International	Aviat Networks / 098-906647-021 - HARDWARE KIT CPR90	\$40.00
Communications International	Aviat Networks / 2940-04-00-01 - Power Cord, IEC 60320-C13 to NORTH AMERICA PLUG 2m	\$29.00
Communications International	Aviat Networks / 074-310003-001 - LIGHTNING ARRESTOR, RJ45, IEC61000, POE, GE	\$47.00
Communications International	Aviat Networks / 037-579312-050 - CABLE, IDU/ODU WITH CONN/GROUND KIT, 50M, .3IN SOLID COPPER	\$219.00
Communications International	Aviat Networks / 037-579312-075 - CABLE, IDU/ODU WITH CONN/GROUND KIT, 75M, .3IN SOLID COPPER	\$278.00

Communications International	Aviat Networks / 037-579312-150 - CABLE, IDU/ODU WITH CONN/GROUND KIT, 150M, .3IN SOLID COPPER	\$496.00
Communications International	Aviat Networks / 037-579311-050 - CABLE, ODU, 9913, WITH CONN/GROUND KIT, 50M CNT400 CCAL TYPE	\$219.00
Communications International	Aviat Networks / 037-579311-075 - CABLE, ODU, 9913, WITH CONN/GROUND KIT, 75M CNT400 CCAL TYPE	\$284.00
Communications International	Aviat Networks / 037-579311-150 - CABLE, ODU, 9913, WITH CONN/GROUND KIT, 150M CNT400 CCAL TYPE	\$858.00
Communications International	Aviat Networks / 179-530056-001 - CONNECTOR KIT N TYPE M and F 300 TYPE CABLE	\$13.00
Communications International	Aviat Networks / 179-530057-001 - CONNECTOR KIT N TYPE M&F 400 TYPE CABLE	\$26.00
	Microwave	
	Part #	
Communications International	Aviat Networks / RFS-SPF2-52CN1S1R - ANTENNA, 5 GHZ, 0.6 M (2FT), SLIMLINE, SP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 5.25-5.85 GHZ, RADOME (STD: WHITE), N FEMALE, SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 190 KMPH	\$1,491.00
Communications International	Aviat Networks / RFS-SB4-190XSTX - ANTENNA, 18 GHZ, 1.2 M (4FT), COMPACTLINE, UHP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,462.00
Communications International	Aviat Networks / RFS-SB1-190XSTX - ANTENNA, 18 GHZ, 0.3 M (1FT), COMPACTLINE, UHP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS II/FCC101B2, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$273.00
Communications International	Aviat Networks / RFS-SC2-190XGT1R - ANTENNA, 18 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$478.00
Communications International	Aviat Networks / RFS-SC2-220XGT1R - ANTENNA, 23 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$478.00

Communications International	Aviat Networks / RFS-SC3-190XGT1R - ANTENNA, 18 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 164 KMPH	\$1,147.00
Communications International	Aviat Networks / RFS-SB4-190XGT1C - ANTENNA, 18 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,462.00
Communications International	Aviat Networks / RFS-SB4-220XGT1C - ANTENNA, 23 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,462.00
Communications International	Aviat Networks / RFS-SB4-W100XGT1C - ANTENNA, 10/11 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,462.00
Communications International	Aviat Networks / RFS-SB4-W60XGT1C - ANTENNA, L6/U6 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,611.00
Communications International	Aviat Networks / RFS-SB6-190XGT1C - ANTENNA, 18 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, HIGH WIND =252 KMPH, 252 KMPH	\$3,209.00
Communications International	Aviat Networks / RFS-SB6-220XGT1C - ANTENNA, 23 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.252-23.600 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, HIGH WIND =252 KMPH, 252 KMPH	\$3,209.00

Communications International	Aviat Networks / RFS-SB6-W100XGT1C - ANTENNA, 10/11 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, HIGH WIND = 252 KMPH, 252 KMPH	\$3,457.00
Communications International	Aviat Networks / RFS-SB6-W60XGT1C - ANTENNA, L6/U6 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, HIGH WIND =252 KMPH, 252 KMPH	\$3,705.00
Communications International	Aviat Networks / RFS-SC1-190XGT1C - ANTENNA, 18 GHZ, 0.3 M (1FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$419.00
Communications International	Aviat Networks / RFS-SC1-220XGT1C - ANTENNA, 23 GHZ, 0.3 M (1FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$419.00
Communications International	Aviat Networks / RFS-SC2-190XGT1C - ANTENNA, 18 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$446.00
Communications International	Aviat Networks / RFS-SC2-220XGT1C - ANTENNA, 23 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$446.00
Communications International	Aviat Networks / RFS-SC2-W100XGT1C - ANTENNA, 10/11 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A/B, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$446.00

Communications International	Aviat Networks / RFS-SC3-190XGT1C - ANTENNA, 18 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 164 KMPH	\$1,115.00
Communications International	Aviat Networks / RFS-SC3-220XGT1C - ANTENNA, 23 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 140 KMPH	\$1,115.00
Communications International	Aviat Networks / RFS-SC3-W100XGT1C - ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$1,115.00
Communications International	Aviat Networks / RFS-SC3-W60XGT1C - ANTENNA, L6/U6 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (CIRCULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$1,338.00
Communications International	Aviat Networks / RFS-SB4-190XGT1R - ANTENNA, 18 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,494.00
Communications International	Aviat Networks / RFS-SB4-220XGT1R - ANTENNA, 23 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,494.00
Communications International	Aviat Networks / RFS-SB4-W100XGT1R - ANTENNA, 10/11 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,494.00

Communications International	Aviat Networks / RFS-SB4-W60XGT1R - ANTENNA, L6/U6 GHZ, 1.2 M (4FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$1,643.00
Communications International	Aviat Networks / RFS-SB6-190XGT1R - ANTENNA, 18 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$3,242.00
Communications International	Aviat Networks / RFS-SB6-220XGT1R - ANTENNA, 23 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$3,242.00
Communications International	Aviat Networks / RFS-SB6-W100XGT1R - ANTENNA, 10/11 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$3,489.00
Communications International	Aviat Networks / RFS-SB6-W60XGT1R - ANTENNA, L6/U6 GHZ, 1.8 M (6FT), COMPACTLINE, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 200 KMPH, 200 KMPH	\$3,737.00
Communications International	Aviat Networks / RFS-SC1-190XGT1R - ANTENNA, 18 GHZ, 0.3 M (1FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 17.700-19.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$451.00
Communications International	Aviat Networks / RFS-SC1-220XGT1R - ANTENNA, 23 GHZ, 0.3 M (1FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$419.00

Communications International	Aviat Networks / RFS-SC2-W100XGT1R - ANTENNA, 10/11 GHZ, 0.6 M (2FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A/B, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$478.00
Communications International	Aviat Networks / RFS-SC3-220XGT1R - ANTENNA, 23 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 140 KMPH	\$1,147.00
Communications International	Aviat Networks / RFS-SC3-W100XGT1R - ANTENNA, 10/11 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 10.000-11.700 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$1,147.00
Communications International	Aviat Networks / RFS-SC3-W60XGT1R - ANTENNA, L6/U6 GHZ, 0.9 M (3FT), COMPACTLINEEASY, UHP (GT1- RECTANGULAR INTERFACE), DIRECT MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101B2, SINGLE PIECE REFLECTOR, 250 KMPH, 180 KMPH	\$1,370.00
Communications International	Aviat Networks / RFS-SB1-220CSTX - ANTENNA, 23 GHZ, 0.3 M (1FT), COMPACTLINE, UHP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.200-23.600 GHZ, RADOME (STD: WHITE), SINGLE POL., CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 320 KMPH, 250 KMPH	\$360.00
Communications International	Aviat Networks / AND-F4A-PNMNM-3M - FSJ4-50B SUREFLEX JUMPER WITH INTERFACE TYPE N MALE/TYP N MALE, 3M	\$179.00
Communications International	Aviat Networks / AND-HP4-57W-P3A/A - ANTENNA, 5.725-6.425GHZ, 1.2M/4FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$3,099.00
Communications International	Aviat Networks / AND-HP4-105-P3A/D - ANTENNA, 10.5-10.7GHZ, 1.2M/4FT, HP, SNGL POL, CPR90G, WHT TEF RAD	\$2,629.00
Communications International	Aviat Networks / AND-HP4-107-P3A/B - ANTENNA, 10.7-11.7GHZ, 1.2M/4FT, HP, SNGL POL, CPR90G, WHT TEF RAD	\$3,324.00
Communications International	Aviat Networks / AND-HP6-57W-P1A/A - ANTENNA, 5.725-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$4,894.00
Communications International	Aviat Networks / AND-HP6-59-P1A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$5,683.00

Communications International	Aviat Networks / AND-HP6-59-P2A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT STD RADOME, NO FLSH	\$6,120.00
Communications International	Aviat Networks / AND-HP6-59-P3A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$6,682.00
Communications International	Aviat Networks / AND-HP6-59-P3A/K-P - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT TEF RAD, T-STYLE MOUNT	\$5,459.00
Communications International	Aviat Networks / AND-HP6-59-PGRA/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, GRY TEG RAD W/O FLASH	\$6,627.00
Communications International	Aviat Networks / AND-HP6-59W-P1A/C - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$4,894.00
Communications International	Aviat Networks / AND-HP6-59W-P3A/C - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$6,682.00
Communications International	Aviat Networks / AND-HP6-59W-PGRA/C - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HP, SNGL POL, CPR137G, GRY TEG RAD W/O FLASH	\$7,294.00
Communications International	Aviat Networks / AND-HP6-107-P1A/H - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, SNGL POL, CPR90G, WHT HYP RAD	\$5,683.00
Communications International	Aviat Networks / AND-HP6-107-P1A/H-P - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, SNGL POL, CPR90G, WHT HYP RAD, T-STYLE MOUNT	\$6,328.00
Communications International	Aviat Networks / AND-HP6-107-P3A/H - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, SNGL POL, CPR90G, WHT TEF RAD	\$6,327.00
Communications International	Aviat Networks / AND-HP6-107-PGRA/H - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, SNGL POL, CPR90G, GRY TEG RAD, NO FLASH	\$7,294.00
Communications International	Aviat Networks / AND-HP8-57W-P3A - ANTENNA, 5.725-6.425GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$7,958.00
Communications International	Aviat Networks / AND-HP8-59-P1A - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$7,056.00
Communications International	Aviat Networks / AND-HP8-59-P3A - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$7,958.00
Communications International	Aviat Networks / AND-HP8-59-PGRA - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, GRY TEG RAD W/O FLASH	\$8,480.00
Communications International	Aviat Networks / AND-HP8-59W-P1A - ANTENNA, 5.925-7.125GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$5,948.00

Communications International	Aviat Networks / AND-HP8-59W-P3A - ANTENNA, 5.925-7.125GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$8,402.00
Communications International	Aviat Networks / AND-HP8-59W-PGRA - ANTENNA, 5.925-7.125GHZ, 2.4M/8FT, HP, SNGL POL, CPR137G, GRY TEG RAD W/O FLASH	\$9,117.00
Communications International	Aviat Networks / AND-HP8-107-P1A - ANTENNA, 10.7-11.7GHZ, 2.4M/8FT, HP, SNGL POL, CPR90G, WHT HYP RAD	\$7,056.00
Communications International	Aviat Networks / AND-HP8-107-P3A - ANTENNA, 10.7-11.7GHZ, 2.4M/8FT, HP, SNGL POL, CPR90G, WHT TEF RAD	\$7,958.00
Communications International	Aviat Networks / AND-HP10-59-P1A - ANTENNA, 5.925-6.425GHZ, 3.0M/10FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$7,605.00
Communications International	Aviat Networks / AND-HP10-59W-P1A - ANTENNA, 5.925-7.125GHZ, 3.0M/10FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$7,605.00
Communications International	Aviat Networks / AND-HP10-59W-P3A - ANTENNA, 5.925-7.125GHZ, 3.0M/10FT, HP, SNGL POL, CPR137G, WHT TEF RAD	\$9,974.00
Communications International	Aviat Networks / AND-HP10-59W-PGRA - ANTENNA, 5.925-7.125GHZ, 3.0M/10FT, HP, SNGL POL, CPR137G, GRY RAD	\$10,721.00
Communications International	Aviat Networks / AND-HP10-65-P1A - ANTENNA, 6.425-7.125GHZ, 3.0M/10FT, HP, SNGL POL, CPR137G, WHT HYP RAD	\$7,605.00
Communications International	Aviat Networks / AND-HP10-107-P1A - ANTENNA, 10.7-11.7GHZ, 3.0M/10FT, HP, SNGL POL, CPR90G, WHT HYP RAD	\$7,605.00
Communications International	Aviat Networks / AND-HP10-107-P3A - ANTENNA, 10.7-11.7GHZ, 3.0M/10FT, HP, SNGL POL, CPR90G, WHT TEF RAD	\$8,139.00
Communications International	Aviat Networks / AND-HPX4-59-D3A/A - ANTENNA, 5.925-6.425GHZ, 1.2M/4FT, HP, DUAL POL, PDR, GRY TEG RAD	\$3,971.00
Communications International	Aviat Networks / AND-HPX4-65-D3A/B - ANTENNA, 6.425-7.125GHZ, 1.2M/4FT, HP, DUAL POL, PDR70, WHT ENH RAD	\$3,893.00
Communications International	Aviat Networks / AND-HPX4-65-P3A/B - ANTENNA, 6.425-7.125GHZ, 1.2M/4FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$3,070.00
Communications International	Aviat Networks / AND-HPX4-107-D3A/B - ANT, 10.7-11.7GHZ, 1.2M/4FT, HP, DUAL POL, PDR100, WHT ENH RAD,ETSI CL2	\$3,814.00
Communications International	Aviat Networks / AND-HPX4-107-P3A/B - ANTENNA, 10.7-11.7GHZ, 1.2M/4FT, HP, DUAL POL, CPR90G, WHT TEF RAD	\$3,615.00
Communications International	Aviat Networks / AND-HPX4-107-PGRA/B - ANTENNA, 10.7-11.7GHZ, 1.2M/4FT, HP, DUAL POL, CPR90G, GRY TEG RAD, NO FLASH	\$4,157.00
Communications International	Aviat Networks / AND-HPX6-59-D3A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, DUAL POL, PDR, GRY TEF RAD	\$7,021.00

Communications International	Aviat Networks / AND-HPX6-59-P1A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$6,018.00
Communications International	Aviat Networks / AND-HPX6-59-P1A/K-P - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, DUAL POL, CPR137G, WHT HYP RAD, T-STYLE MOUNT	\$7,092.00
Communications International	Aviat Networks / AND-HPX6-59-P3A/K - ANTENNA, 5.925-6.425GHZ, 1.8M/ 6FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$6,669.00
Communications International	Aviat Networks / AND-HPX6-59-PGRA/K - ANTENNA, 5.925-6.425GHZ, 1.8M/6FT, HP, DUAL POL, CPR137G, GRY TEG RAD	\$7,189.00
Communications International	Aviat Networks / AND-HPX6-65-D3A/F - ANTENNA, 6.425-7.125GHZ, 1.8M/6FT, HP, DUAL POL, PDR70, WHT ENH RAD	\$6,884.00
Communications International	Aviat Networks / AND-HPX6-65-P1A/F - ANTENNA, 6.425-7.125GHZ, 1.8M/6FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$5,080.00
Communications International	Aviat Networks / AND-HPX6-65-P3A/F - ANTENNA, 6.425-7.125GHZ, 1.8M/6FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$6,669.00
Communications International	Aviat Networks / AND-HPX6-107-P1A/F - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, DUAL POL, CPR90G, WHT HYP RAD	\$6,018.00
Communications International	Aviat Networks / AND-HPX6-107-P1A/F-P - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, DUAL POL, CPR90G, WHT HYP RAD, T-STYLE MOUNT	\$7,092.00
Communications International	Aviat Networks / AND-HPX6-107-P3A/F - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, DUAL POL, CPR90G, WHT TEF RAD W/FLASH	\$6,669.00
Communications International	Aviat Networks / AND-HPX6-107-PGRA/F - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HP, DUAL POL, CPR90G, GRY TEG RAD	\$6,981.00
Communications International	Aviat Networks / AND-HPX8-59-D3A - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, DUAL POL, PDR70, WHT ENH RAD	\$8,528.00
Communications International	Aviat Networks / AND-HPX8-59-P1A - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$7,423.00
Communications International	Aviat Networks / AND-HPX8-59-P3A - ANTENNA, 5.925-6.425GHZ, 2.4M/8FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$8,325.00
Communications International	Aviat Networks / AND-HPX8-65-D2M - ANTENNA, 6.425-7.125GHZ, 2.4M/8FT, HP, DUAL POL, PDR70, WHT HYP RAD, 2 PC RFL	\$9,361.00
Communications International	Aviat Networks / AND-HPX8-65-P1A - ANTENNA, 6.425-7.125GHZ, 2.4M/8FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$6,304.00
Communications International	Aviat Networks / AND-HPX8-65-P3A - ANTENNA, 6.425-7.125GHZ, 2.4M/8FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$6,756.00

Communications International	Aviat Networks / AND-HPX8-107-P1A - ANTENNA, 10.7-11.7GHZ, 2.4M/8FT, HP, DUAL POL, CPR90G, WHT HYP RAD	\$6,304.00
Communications International	Aviat Networks / AND-HPX8-107-P3A - ANTENNA, 10.7-11.7GHZ, 2.4M/8FT, HP, DUAL POL, CPR90G, WHT TEF RAD	\$6,756.00
Communications International	Aviat Networks / AND-HPX8-107-PGRA - ANTENNA, 10.7-11.7GHZ, 2.4M/8FT, HP, DUAL POL, CPR90G, GRY TEG RAD W/O FLASH	\$8,611.00
Communications International	Aviat Networks / AND-HPX10-59-D3A - ANTENNA, 5.925-6.425GHZ, 3.0M/10FT, HP, DUAL POL, PDR70, WHT ENH RAD	\$11,047.00
Communications International	Aviat Networks / AND-HPX10-59-D4M - ANT,5.925-6.425GHZ,3.0M/10FT,HPX,DUAL POL,GRY,PDR70,WHT RAD,ETSI CL2,FCC 101A	\$12,114.00
Communications International	Aviat Networks / AND-HPX10-59-P1A - ANTENNA, 5.925-6.425GHZ, 3.0M/10FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$9,678.00
Communications International	Aviat Networks / AND-HPX10-59-P3A - ANTENNA, 5.925-6.425GHZ, 3.0M/10FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$10,703.00
Communications International	Aviat Networks / AND-HPX10-65-P1A - ANTENNA, 6.425-7.125GHZ, 3.0M/10FT, HP, DUAL POL, CPR137G, WHT HYP RAD	\$8,221.00
Communications International	Aviat Networks / AND-HPX10-65-P3A - ANTENNA, 6.425-7.125GHZ, 3.0M/10FT, HP, DUAL POL, CPR137G, WHT TEF RAD	\$10,703.00
Communications International	Aviat Networks / AND-HPX10-107-P3A - ANTENNA, 10.7-11.7GHZ, 3.0M/10FT, HPLP, DUAL POL, CPR90G, GRY MLD RAD	\$8,755.00
Communications International	Aviat Networks / AND-VHLP1-18-1GR - ANTENNA, 17.7-19.7GHZ, 0.3M/1FT, HPLP, SNGL POL, UG-595/U, GRY PLY RAD	\$404.00
Communications International	Aviat Networks / AND-VHLP1-23-SE1A - ANTENNA, 23 GHZ, 0.3 M (1FT), VALULINE, HPLP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.2-23.6 GHZ, RADOME (STD: WHITE), SINGLE POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$359.00
Communications International	Aviat Networks / AND-VHLP1-23-UN1A - ANTENNA, 23 GHZ, 0.3 M (1FT), VALULINE, HPLP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 21.2-23.6 GHZ, RADOME (STD: WHITE), SINGLE POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$363.00
Communications International	Aviat Networks / AND-VHLP1-38-3WH - ANTENNA, 38 GHZ, 0.3 M (1FT), VALULINE, HPLP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 37.0-39.5 GHZ, RADOME (STD: WHITE), UBR320, SINGLE POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$404.00

Communications International	Aviat Networks / AND-VHLP1-38-SE1A - ANTENNA, 38 GHZ, 0.3 M (1FT), VALULINE, HPLP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 37.0-39.5 GHZ, RADOME (STD: WHITE), SINGLE POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$359.00
Communications International	Aviat Networks / AND-VHLP1-38-UN1A - ANTENNA, 38 GHZ, 0.3 M (1FT), VALULINE, HPLP, DIRECT MOUNT, PARABOLIC (STD: WHITE), 37.0-40.0 GHZ, RADOME (STD: WHITE), SINGLE POLARIZED, CLASS III/FCC101A, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$363.00
Communications International	Aviat Networks / AND-VHLP2-11W-6GR - ANTENNA, 10.125-11.7GHZ, 0.6M/2FT, HPLP, SNGL POL, CPR90G, GRY POLY RAD	\$483.00
Communications International	Aviat Networks / AND-VHLP2-18-1GR/B - ANTENNA, 17.7-19.7GHZ, 0.6M/2FT, HPLP, SNGL POL, UG-595/U, GRY POLY RAD	\$483.00
Communications International	Aviat Networks / AND-VHLP2-23-1GR/B - ANTENNA, 21.2-23.6GHZ, 0.6M/2FT, HPLP, SNGL POL, UG-595/U, GRY POLY RAD	\$545.00
Communications International	Aviat Networks / AND-VHLP3-11W-6WH - ANTENNA, 10.125-11.7GHZ, 0.9M/3FT, HPLP, SNGL POL, CPR90G, WHT POLY RAD, NO FLASH	\$1,214.00
Communications International	Aviat Networks / AND-VHLP3-18-1GR - ANTENNA, 17.7-19.7GHZ, 0.9M/3FT, HPLP, SNGL POL, UG-595/U, GRY POLY RAD	\$1,214.00
Communications International	Aviat Networks / AND-VHLP4-6W-6GR/C - ANT,5.925-7.125GHZ,1.2M/4FT,HPLP,SINGLE POL,CPR137G,GRY,GRY POLY RAD, CLASS 3, NO FLASH	\$1,883.00
Communications International	Aviat Networks / AND-VHLP4-6W-6WH/C - ANT, 5.925-7.125GHZ, 1.2M/4FT, HPLP, SNGL POL, CPR137G, GRY PLY RAD	\$2,477.00
Communications International	Aviat Networks / AND-VHLP4-11W-6GR/A - ANT,10.125-11.7 GHZ, 1.2M/4FT,HPLP,SNGL POL,CPR90G,GRY POLY RAD,ETSI CL3,W/O FLASH	\$2,607.00
Communications International	Aviat Networks / AND-VHLP4-11W-6WH/A - ANTENNA, L6/U6 GHZ, 1.2 M (4FT), VALULINE, HPLP, REMOTE MOUNT, PARABOLIC (STD: WHITE), 5.925-7.125 GHZ, RADOME (STD:GRAY), CPR137G, SINGLE POLARIZED, CLASS III/FCC101A/B, SINGLE PIECE REFLECTOR, 250 KMPH, 200 KMPH	\$1,539.00
Communications International	Aviat Networks / AND-VHLP4-18-1GR/B - ANTENNA, 17.7-19.7GHZ, 1.2M/4FT, HPLP, SNGL POL, UG-595/U, GRY PLY RAD	\$1,760.00
Communications International	Aviat Networks / AND-VHLP6-6W-6WH/A - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, SNGL POL, CPR137G, WHT POLY RAD	\$4,018.00

Communications International	Aviat Networks / AND-VHLP6-6WA-6GR - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, SNGL POL, CPR137G, WHT POLY RAD, FCC CAT A	\$6,404.00
Communications International	Aviat Networks / AND-VHLP6-11-6GR/A - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HPLP, SNGL POL, CPR90G, GRY PLY RAD	\$3,385.00
Communications International	Aviat Networks / AND-VHLP6-11-6WH/A - ANTENNA, REM MT, 10.7-11.7GHZ, 1.8M/6FT, HPLP, SNGL POL, CPR90G, WHT PLY RAD	\$3,975.00
Communications International	Aviat Networks / AND-VHLP6-18-1GR/A - ANTENNA, 17.7-19.7GHZ, 1.8M/6FT, HPLP, SNGL POL, UG-595/U, GRY POLY RAD	\$3,519.00
Communications International	Aviat Networks / AND-VHLP800-11-6GR - ANTENNA, 10.7-11.7GHZ, 0.8M/2.6FT, HPLP, SNGL POL, CPR90G, GRY POLY RAD	\$1,537.00
Communications International	Aviat Networks / AND-VHLP800-11-6WH - ANTENNA, 10.7-11.7GHZ, 0.8M/2.6FT, HPLP, SNGL POL, CPR90G, WHT POLY RAD	\$1,745.00
Communications International	Aviat Networks / AND-VHLPX1-18-1GR - ANTENNA, 17.7-19.7GHZ, 0.3M/1FT, HPLP, DUAL POL, UG-595/U, GRY PLY RAD	\$636.00
Communications International	Aviat Networks / AND-VHLPX1-23-1GR - ANTENNA, 21.2-23.6GHZ, 0.3M/1FT, HPLP, DUAL POL, UG-595/U, GRY PLY RAD	\$636.00
Communications International	Aviat Networks / AND-VHLPX1-38-1GR - ANTENNA, 37.0-40.0GHZ, 0.3M/1FT, HPLP, DUAL POL, UG-599/U, GRY PLY RAD	\$636.00
Communications International	Aviat Networks / AND-VHLPX2-18-1GR/B - ANTENNA, 17.7-19.7GHZ, 0.6M/2FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$1,057.00
Communications International	Aviat Networks / AND-VHLPX2-23-1GR/B - ANTENNA, 21.2-23.6GHZ, 0.6M/2FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$1,057.00
Communications International	Aviat Networks / AND-VHLPX2-38-1GR/B - ANTENNA, 37.0-40.0GHZ, 0.6M/2FT, HPLP, DUAL POL, UG-599/U, GRY PLY RAD	\$1,243.00
Communications International	Aviat Networks / AND-VHLPX3-11W-6GR - ANTENNA, 10.125-11.7GHZ, 0.9M/3FT, HPLP, DUAL POL, CPR90G, GRY POLY RAD	\$1,494.00
Communications International	Aviat Networks / AND-VHLPX3-18-1GR - ANTENNA, 17.7-19.7GHZ, 0.9M/3FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$1,494.00
Communications International	Aviat Networks / AND-VHLPX3-23-1GR - ANTENNA, 21.2-23.6GHZ, 0.9M/3FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$1,494.00
Communications International	Aviat Networks / AND-VHLPX4-6W-4WH/B - ANTENNA, 5.925-7.125GHZ, 1.2M/4FT, HPLP, DUAL POL, PDR70, WHT PLY RAD	\$3,410.00
Communications International	Aviat Networks / AND-VHLPX4-11W-4GR - ANTENNA, 10.125-11.7GHZ, 1.2M/4FT, HPLP, DUAL POL, PDR100, GRY POLY RAD	\$3,427.00
Communications International	Aviat Networks / AND-VHLPX4-11W-4WH - ANT,10.125-11.7GHZ,1.2M/4FT,HPLP,DUAL POL,PDR100,WHT POLY RAD,ETSI CL3	\$3,089.00

Communications International	Aviat Networks / AND-VHLPX4-11W-6GR - ANTENNA, 10.125-11.7GHZ, 1.2M/4FT, HPLP, DUAL POL, CPR90G, GRY POLY RAD	\$2,327.00
Communications International	Aviat Networks / AND-VHLPX4-11W-6WH - ANTENNA, 10.125-11.7GHZ, 1.2M/4FT, HPLP, DUAL POL, CPR90G, WHT POLY RAD	\$3,089.00
Communications International	Aviat Networks / AND-VHLPX4-18-1GR/C - ANT,REM MT,17.7-19.7GHZ,1.2M/4FT,GRY,HPLP,DUAL POL,UG-595/U MOD,GRY PLY RAD W/O FL,ETSI CL3 FCC 101A	\$2,327.00
Communications International	Aviat Networks / AND-VHLPX4-23-1GR/C - ANTENNA, 21.2-23.6GHZ, 1.2M/4FT, HPLP, DUAL POL, UG-595/U, GRY PLY RAD	\$3,089.00
Communications International	Aviat Networks / AND-VHLPX6-6W-4WH/A - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, DUAL POL, CPR137G, WHT PLY RAD	\$8,129.00
Communications International	Aviat Networks / AND-VHLPX6-6W-6GR/A - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, DUAL POL, CPR137G, GRY PLY RAD W/O FLASH	\$5,914.00
Communications International	Aviat Networks / AND-VHLPX6-10W-4GR/B - ANTENNA, 10.0-10.7GHZ, 1.8M/6FT, HPLP, DUAL POL, PDR100, GRY POLY RAD	\$4,306.00
Communications International	Aviat Networks / AND-VHLPX6-10W-6GR/B - ANTENNA, 10.0-10.7GHZ, 1.8M/6FT, HPLP, DUAL POL, CPR9G0, GRY POLY RAD	\$4,306.00
Communications International	Aviat Networks / AND-VHLPX6-11-4GR/A - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HPLP, DUAL POL, PDR100, GRY POLY RAD	\$4,306.00
Communications International	Aviat Networks / AND-VHLPX6-11-6GR/A - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HPLP, DUAL POL, CPR90G, GRY PLY RAD	\$4,097.00
Communications International	Aviat Networks / AND-VHLPX6-11-6WH/A - ANTENNA, 10.7-11.7GHZ, 1.8M/6FT, HPLP, DUAL POL, CPR90G, WHT PLY RAD	\$4,306.00
Communications International	Aviat Networks / AND-VHLPX6-18-1GR/A - ANTENNA, 17.7-19.7GHZ, 1.8M/6FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$4,306.00
Communications International	Aviat Networks / AND-VHLPX6-23-1GR/A - ANTENNA, 21.2-23.6GHZ, 0.8M/6FT, HPLP, DUAL POL, UG-595/U, GRY POLY RAD	\$5,377.00
Communications International	Aviat Networks / 086-063121-103 - DIRECT MOUNT ANDREW ANT., 5.925 - 7.125 GHZ, 4 FT, HPLP	\$1,524.00
Communications International	Aviat Networks / 086-063181-103 - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, WHT POLY RAD, DIR MNT, ECLIPSE	\$2,974.00
Communications International	Aviat Networks / 086-063911-103 - DIR MT ANT, 5.925-8.5 GHZ, 0.9 M, HPLP, SNGL POL, WHT PLY RAD, STD PCK 1 PC RFL	\$1,214.00
Communications International	Aviat Networks / 086-064181-103 - ANTENNA, 5.925-7.125GHZ, 1.8M/6FT, HPLP, WHT POLY RAD, DIR MNT, FCC 101A, CLASS 3	\$4,709.00
Communications International	Aviat Networks / 086-103181-103 - DIRECT MOUNT ANT., 10.0-10.7 GHZ, 1.8 M, HPLP	\$3,197.00

Communications International	Aviat Networks / 086-113061-103 - ANTENNA, 10.125-11.7GHZ, 0.6M/2FT, HPLP, SNGL POL, WHT POLY RAD, DIR MNT, ECLIPSE	\$434.00
Communications International	Aviat Networks / 086-113121-103 - ANTENNA, 10.125-11.7GHZ, 1.2M/4FT, HPLP, SNGL POL, WHT POLY RAD, DIR MNT, ECLIPSE	\$1,437.00
Communications International	Aviat Networks / 086-113181-103 - DIRECT MOUNT ANT., 10.7-11.7 GHZ, 1.8 M, HPLP ,WITH RADOME	\$3,197.00
Communications International	Aviat Networks / 086-113911-103 - ANTENNA, 10.125-11.7GHZ, 0.9M/3FT, HPLP, SNGL POL, WHT POLY RAD, DIR MNT, ECLIPSE	\$1,165.00
Communications International	Aviat Networks / 086-180031-103 - ANT,17.1-19.7GHZ,0.3M/1FT,HPLP,SNGL POL,DIR MT,ECLP ODU,WHT POLY RAD,ETSI CL2,FCC 101B2	\$359.00
Communications International	Aviat Networks / 086-180031-113 - ANT, 17.7-19.7GHZ, 0.3M/1FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL2, FCC 101B2	\$363.00
Communications International	Aviat Networks / 086-180061-103 - ANT,17.1-19.7GHZ,0.6M/2FT,HPLP,SNGL POL,DIR MT,ECLP ODU,WHT POLY RAD,ETSI CL3,FCC 101A	\$434.00
Communications International	Aviat Networks / 086-180061-113 - ANT, 17.7-19.7GHZ, 0.6M/2FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL3, FCC 101A	\$446.00
Communications International	Aviat Networks / 086-180121-103 - ANT, 17.7-19.7GHZ, 1.2M/4FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL3, FCC 101A	\$1,363.00
Communications International	Aviat Networks / 086-180121-113 - ANT, 17.7-19.7GHZ, 1.2M/4FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL3	\$1,630.00
Communications International	Aviat Networks / 086-180181-103 - ANT, 17.7-19.7GHZ, 1.8M/6FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL3, FCC 101A	\$2,974.00
Communications International	Aviat Networks / 086-180181-113 - ANT, 17.7-19.7GHZ, 1.8M/6FT, HPLP, SNGL POL, DIR MT, ECLP ODU, WHT POLY RAD, ETSI CL3, FCC 101A	\$3,470.00
Communications International	Aviat Networks / 086-180911-103 - ANT,17.1-19.7GHZ,0.9M/3FT,HPLP,SNGL POL,DIR MT,ECLP ODU,WHT POLY RAD,ETSI CL3,FCC 101A	\$1,115.00
Communications International	Aviat Networks / 086-230031-103 - ANTENNA, 21.2-23.6GHZ, 0.3M/1FT, HPLP, WHT POLY RAD, DIR MNT, ECLIPSE	\$359.00
Communications International	Aviat Networks / 086-230061-103 - ANTENNA, 21.2-23.6GHZ, 0.6M/2FT, HPLP, WHT POLY RAD, DIR MNT, ECLIPSE	\$434.00

Communications International	Aviat Networks / 086-230121-103 - DIRECT MOUNT ANT., 21.2-23.6 GHZ, 1.2 M, HPLP ,WITH RADOME	\$1,363.00
Communications International	Aviat Networks / 086-230181-103 - DIRECT MOUNT ANT., 21.2-23.6 GHZ, 1.8 M, HPLP	\$2,974.00
Communications International	Aviat Networks / 086-230911-103 - DIR MT ANT, 21.2-23.6 GHZ, 0.9 M, HPLP, SNGL POL, WHT PLY RAD, STD PCK 1 PC RFL	\$1,115.00
Communications International	Aviat Networks / 086-234021-103 - ANTENNA, 21.2-23.6GHZ, 0.2M/0.67FT, HPLP, WHT POLY RAD, DIR MNT, FCC 101B2	\$487.00
Communications International	Aviat Networks / 086-380031-103 - DIRECT MOUNT ANT., 37.0-39.5 GHZ, 0.3 M, HPLP ,WITH RADOME	\$359.00
Communications International	Aviat Networks / 086-380061-103 - DIRECT MOUNT ANT., 37.0-39.5 GHZ, 0.6 M, HPLP	\$434.00
Communications International	Aviat Networks / AND-VHLP6-6WA-6WH - ANTENNA, 6.425-7.125GHZ, 3.0M/10FT, SP, DUAL POL, CPR137G, NO RAD, CAT A	\$6,404.00
Communications International	Aviat Networks / AND-MD-S4 - ICE SHIELD FOR 4 FT ANTENNA	\$4,149.00
Communications International	Aviat Networks / AND-MD-S6 - ICE SHIELD FOR 6 FT ANTENNA	\$5,620.00
Communications International	Aviat Networks / AND-MD-S8 - ICE SHIELD FOR 8 FT ANTENNAS	\$5,744.00
Communications International	Aviat Networks / AND-MD-S10 - ICE SHIELD FOR 10 FT ANTENNAS	\$5,215.00
Communications International	Aviat Networks / AND-MD-S12 - ICE SHIELD FOR 12 FT ANTENNAS	\$5,788.00
Communications International	Aviat Networks / AND-MD-SQ3 - 3' SQUARE ICE SHIELD (MD-SQ3)	\$1,141.00
Communications International	Aviat Networks / AND-MTC35854 - KIT, ANTENNA ICE SHIELD, FOR 1.22 M/4 FT (MTC35854)	\$6,010.00
Communications International	Aviat Networks / AND-MTC35856 - KIT, ANTENNA ICE SHIELD, FOR 1.83 M/6 FT (MTC35856)	\$6,815.00
Communications International	Aviat Networks / AND-MTC35858 - KIT, ANTENNA ICE SHIELD, FOR 2.44 M/8 FT (MTC35858)	\$8,745.00
Communications International	Aviat Networks / AND-EW52-F - ELLIPTICAL WAVEGUIDE STANDARD, 5.60-6.425 GHZ, BLACK PE JACKET, PER FOOT	\$12.00
Communications International	Aviat Networks / AND-EW63-F - ELLIPTICAL WAVEGUIDE STANDARD, 5.925-7.125 GHZ, BLACK PE JACKET, PER FOOT	\$11.00
Communications International	Aviat Networks / AND-EW90-F - ELLIPTICAL WAVEGUIDE STANDARD, 10.2-11.7 GHZ, BLACK PE JACKET, PER FOOT	\$10.00
Communications International	Aviat Networks / AND-EW180-F - ELLIPTICAL WAVEGUIDE STANDARD, 17.3-19.7 GHZ, BLACK PE JACKET, PER FOOT	\$7.00

Communications International	Aviat Networks / AND-EW220-F - ELLIPTICAL WAVEGUIDE, 21.2-23.6 GHZ, STANDARD, WR42, PER FOOT	\$10.00
Communications International	Aviat Networks / AND-HARDWARE-KIT - HARDWARE-KIT (ONE KIT PER 100FT)	\$393.00
Communications International	Aviat Networks / AND-EW52INSTALL-KIT - EW52INSTALL-KIT (ONE KIT PER WAVEGUIDE RUN)	\$1,722.00
Communications International	Aviat Networks / AND-EW63INSTALL-KIT - EW63INSTALL-KIT (ONE KIT PER WAVEGUIDE RUN)	\$1,404.00
Communications International	Aviat Networks / AND-EW90INSTALL-KIT - EW90INSTALL-KIT (ONE KIT PER WAVEGUIDE RUN)	\$1,394.00
	Microwave	
	Part #	
Communications International	Aviat Networks / 614-225008-002 - ProVision Solution Pack - 10 Nodes	\$5,000.00
Communications International	Aviat Networks / 614-225010-002 - ProVision SOLUTION PACK - 20 NODES	\$9,000.00
Communications International	Aviat Networks / 614-225061-002 - ProVision SOLUTION PACK - 50 NODES	\$21,000.00
Communications International	Aviat Networks / 614-225012-002 - ProVision SOLUTION PACK - 100 NODES	\$40,000.00
Communications International	Aviat Networks / 614-225063-002 - ProVision SOLUTION PACK - 250 NODES	\$60,000.00
Communications International	Aviat Networks / 614-225014-002 - ProVision SOLUTION PACK - 500 NODES	\$80,000.00
Communications International	Aviat Networks / 614-225016-002 - ProVision SOLUTION PACK - 1000 NODES	\$150,000.00
Communications International	Aviat Networks / 614-225065-002 - ProVision SOLUTION PACK - 1500 NODES	\$195,000.00
Communications International	Aviat Networks / 614-225067-002 - ProVision Solution Pack - 2000 Nodes	\$240,000.00
Communications International	Aviat Networks / 614-225069-002 - ProVision SOLUTION PACK - 2500 NODES	\$275,000.00
Communications International	Aviat Networks / 614-225018-002 - ProVision SOLUTION PACK - 3000 NODES	\$300,000.00
Communications International	Aviat Networks / 614-225073-002 - ProVision Solution Pack - 4000 Nodes	\$400,000.00

Communications International	Aviat Networks / 614-225075-002 - ProVision Solution Pack - 4500 Nodes	\$450,000.00
Communications International	Aviat Networks / 614-225077-002 - ProVision Solution Pack - 5000 Nodes	\$500,000.00
Communications International	Aviat Networks / 614-225079-002 - ProVision Solution Pack - 5500 Nodes	\$550,000.00
Communications International	Aviat Networks / 614-225081-002 - ProVision Solution Pack - 6000 Nodes	\$600,000.00
Communications International	Aviat Networks / 614-250050-001 - 10 ADDITIONAL ProVision NODE LICENSES, ANY TYPE	\$5,000.00
Communications International	Aviat Networks / 614-250051-001 - ADDITIONAL ProVision NODE LICENSES, 20	\$9,000.00
Communications International	Aviat Networks / 614-250055-001 - ADDITIONAL ProVision NODE LICENSES, 50	\$21,000.00
Communications International	Aviat Networks / 614-250061-001 - ADDITIONAL ProVision NODE LICENSES, 100	\$40,000.00
Communications International	Aviat Networks / 614-250065-001 - Additional ProVision Node Licenses, 250	\$60,000.00
Communications International	Aviat Networks / 614-250070-001 - Additional ProVision Node Licenses, 500	\$80,000.00
Communications International	Aviat Networks / 614-250075-001 - Additional ProVision Node Licenses, 1000	\$150,000.00
Communications International	Aviat Networks / 614-250080-001 - Additional ProVision Node Licenses, 1500	\$195,000.00
Communications International	Aviat Networks / 614-250085-001 - Additional ProVision Node Licenses, 2000	\$240,000.00
Communications International	Aviat Networks / 614-250090-001 - ADDITIONAL ProVision NODE LICENSES, 2500	\$275,000.00
Communications International	Aviat Networks / 614-250095-001 - ADDITIONAL ProVision NODE LICENSES, 3000	\$300,000.00
Communications International	Aviat Networks / 614-250100-001 - Additional ProVision Node Licenses, 4000	\$400,000.00
Communications International	Aviat Networks / 614-250105-001 - Additional ProVision Node Licenses, 4500	\$450,000.00
Communications International	Aviat Networks / 614-250110-001 - Additional ProVision Node Licenses, 5000	\$500,000.00
Communications International	Aviat Networks / 614-250115-001 - Additional ProVision Node Licenses, 5500	\$550,000.00

Communications International	Aviat Networks / 614-250120-001 - Additional ProVison Node Licenses, 6000	\$600,000.00
Communications International	Aviat Networks / 614-225040-002 - ProVison Migration	\$10,000.00
Communications International	Aviat Networks / 472-109999-023 - FS4W V 6.2 SCAN 39E	\$357.00
Communications International	Aviat Networks / 614-270001-002 - PROXY SOFTWARE INSTALLATION KIT	\$5,000.00
Communications International	Aviat Networks / 614-260030-001 - ProVison MTOSI Northbound Interface - up to 6000 Nodes, single server	\$30,000.00
Communications International	Aviat Networks / 614-625012-001 - STANDBY SERVER - PV SOLUTION PACK - 100 NODES	\$5,000.00
Communications International	Aviat Networks / 614-625014-001 - STANDBY SERVER - PV SOLUTION PACK - 500 NODES	\$15,000.00
Communications International	Aviat Networks / 614-625018-001 - Standby Server - ProVison Solution Pack - 6000 Nodes	\$45,000.00
Communications International	Aviat Networks / 614-700000-001 - ProVison GDS PACKAGE, ADTRAN MX2800 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700001-001 - ProVison GDS PACKAGE, ADTRAN OPTI-6100 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700002-001 - ProVison GDS PACKAGE, ADTRAN TRACER 6000 SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700003-001 - ProVison GDS PACKAGE, ADTRAN TOTAL ACCESS 908e IP BUSINESS GATEWAY	\$5,000.00
Communications International	Aviat Networks / 614-700004-001 - ProVison GDS PACKAGE, ADTRAN MX2820 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700005-001 - ProVison GDS PACKAGE, ADTRAN NETVANTA 7100	\$5,000.00
Communications International	Aviat Networks / 614-700010-001 - ProVison GDS PACKAGE, ASENTRIA SL81 REMOTE ALARM UNIT	\$5,000.00
Communications International	Aviat Networks / 614-700011-001 - ProVison GDS PACKAGE, ASENTRIA SITEBOSS 500 SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700012-001 - ProVison GDS PACKAGE, ASENTRIA SL10 ALARM UNIT	\$5,000.00
Communications International	Aviat Networks / 614-700020-001 - ProVison GDS PACKAGE, BAYLY OMNI FLEX DACS	\$5,000.00
Communications International	Aviat Networks / 614-700021-001 - ProVison GDS PACKAGE, BAYLY OMNI OPTIX MUX	\$5,000.00
Communications International	Aviat Networks / 614-700022-001 - ProVison GDS PACKAGE, BAYLY OMNI OPTIX MUX	\$5,000.00

Communications International	Aviat Networks / 614-700023-001 - ProVision GDS PACKAGE, BAYLY OMNI LINC MUX	\$5,000.00
Communications International	Aviat Networks / 614-700030-001 - ProVision GDS PACKAGE, BENNING MCU POWER SUPPLY CONTROLLER	\$5,000.00
Communications International	Aviat Networks / 614-700031-001 - ProVision GDS PACKAGE, BENNING MCU V2 POWER SUPPLY CONTROLLER	\$5,000.00
Communications International	Aviat Networks / 614-700040-001 - ProVision GDS PACKAGE, C&D SAGENET POWER SUPPLY CONTROLLER	\$5,000.00
Communications International	Aviat Networks / 614-700050-001 - ProVision GDS PACKAGE, CAC WIDE BANK 28 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700065-001 - ProVision GDS PACKAGE, DPS NETGUARDIAN G4G5 SITE MANAGER	\$5,000.00
Communications International	Aviat Networks / 614-700070-001 - ProVision GDS PACKAGE, ELTEK SMARTPACK, FLATPACK POWER SYSTEMS	\$5,000.00
Communications International	Aviat Networks / 614-700080-001 - ProVision GDS PACKAGE, FUJITSU FLASHWAVE 4100 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700081-001 - ProVision GDS PACKAGE, FUJITSU FLASHWAVE 9420 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700090-001 - ProVision GDS PACKAGE, LOOP TELECOM O9110 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700091-001 - ProVision GDS PACKAGE, LOOP AM3440-A AND -C MULTIPLEXERS	\$5,000.00
Communications International	Aviat Networks / 614-700100-001 - ProVision GDS PACKAGE, TEJAS TJ100 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700101-001 - ProVision GDS PACKAGE, TEJAS TJ1600 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700103-001 - ProVision GDS PACKAGE, TEJAS 1400 MULTIPLEXER	\$5,000.00
Communications International	Aviat Networks / 614-700111-001 - ProVision GDS PACKAGE, TELCO SYSTEMS OTM1000 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700120-001 - ProVision GDS PACKAGE, TELLABS 6300 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700121-001 - ProVision GDS PACKAGE, TELLABS 8600 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700130-001 - ProVision GDS PACKAGE, MULTITEL IS3, FUSION AND MIRADOR ALARM UNITS	\$5,000.00
Communications International	Aviat Networks / 614-700140-002 - ProVision GDS PACKAGE, 4RF APRISA XE V1.1	\$5,000.00

Communications International	Aviat Networks / 614-700150-001 - ProVision GDS PACKAGE, ALCATEL LUCENT MDR8000	\$5,000.00
Communications International	Aviat Networks / 614-700160-002 - ProVision GDS PACKAGE, ARGUS CORDEX CXC RECTIFIER V1.1	\$5,000.00
Communications International	Aviat Networks / 614-700165-002 - ProVision GDS PACKAGE, ETI ADH-NETCOM DEHYDRATOR	\$5,000.00
Communications International	Aviat Networks / 614-700170-002 - ProVision GDS PACKAGE, EXALT EX-51 MICROWAVE RADIO V1.1	\$5,000.00
Communications International	Aviat Networks / 614-700175-001 - ProVision GDS PACKAGE, HARRIS INTRAPLEX	\$5,000.00
Communications International	Aviat Networks / 614-700185-001 - ProVision GDS PACKAGE, TRAK 9100	\$5,000.00
Communications International	Aviat Networks / 614-700190-001 - ProVision GDS PACKAGE, ZHONG IMACS SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700195-001 - ProVision GDS PACKAGE, EMERSON LXP SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700196-001 - ProVision GDS PACKAGE, EMERSON NETSURE 502 POWER SYSTEM	\$5,000.00
Communications International	Aviat Networks / 614-700200-001 - ProVision GDS PACKAGE, CISCO ONS 15310-MA	\$5,000.00
Communications International	Aviat Networks / 614-700201-001 - ProVision GDS PACKAGE, CISCO 3750 METRO SWITCH	\$5,000.00
Communications International	Aviat Networks / 614-700202-001 - ProVision GDS PACKAGE, CISCO 7200 SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700203-001 - ProVision GDS PACKAGE, CISCO ASA 5500 SERIES	\$5,000.00
Communications International	Aviat Networks / 614-700204-001 - ProVision GDS PACKAGE, CISCO 3825 ROUTER	\$5,000.00
Communications International	Aviat Networks / 614-700210-001 - ProVision GDS PACKAGE, SIEMENS HiPATH 4000	\$5,000.00
Communications International	Aviat Networks / 614-700215-001 - ProVision GDS PACKAGE, AMERICAN POWER CONVERSION	\$5,000.00
Communications International	Aviat Networks / 614-700220-001 - ProVision GDS PACKAGE, EATON SC200 SYSTEM CONTROLLER	\$5,000.00
Communications International	Aviat Networks / 614-700225-001 - ProVision GDS PACKAGE, DELTA CSU503 CONTROLLER	\$5,000.00
Communications International	Aviat Networks / 614-700230-001 - ProVision GDS PACKAGE, SYCAMORE DNX-1x MUX	\$5,000.00

Communications International	Aviat Networks / 614-700240-001 - ProVision GDS PACKAGE, RFLIMUX 2000 MUX	\$5,000.00
Communications International	Aviat Networks / 614-700260-001 - ProVision GDS PACKAGE, GE MDS INTREPID MICROWAVE RADIOS	\$5,000.00
Communications International	Aviat Networks / 614-700270-001 - ProVision GDS PACKAGE, ALLGON TRANSCEND 100 MICROWAVE RADIO	\$5,000.00
Communications International	Aviat Networks / 614-700290-001 - ProVision GDS PACKAGE, TRANGO TRANGOLINK GIGA MICROWAVE RADIO	\$5,000.00
Communications International	Aviat Networks / 614-700291-001 - ProVision GDS PACKAGE, TRANGO TRANGOLINK GIGAPLUS MICROWAVE RADIO	\$5,000.00
Communications International	Aviat Networks / 614-700320-001 - ProVision GDS PACKAGE, LINEAGE GALAXY, PULSAR NE843 POWER SYSTEM	\$5,000.00
Communications International	Aviat Networks / 614-550200-001 - ProVision CUSTOMIZED DEVELOPMENT - 1 UNIT	\$0.00
Communications International	Aviat Networks / 614-100140-001 - ProVision Windows Server, up to 1,000 SLV, Entry Level, Tower	\$4,600.00
Communications International	Aviat Networks / 614-100141-001 - ProVision Windows Server, up to 3,000 SLV, Mid Level, Tower	\$5,600.00
Communications International	Aviat Networks / 614-100142-001 - ProVision Windows Server, up to 6,000 SLV, High Level, Tower	\$9,600.00
Communications International	Aviat Networks / 614-100145-001 - ProVision Windows Server, up to 1,000 SLV, Entry Level, Rack Mounted	\$5,600.00
Communications International	Aviat Networks / 614-100150-002 - ProVision Windows Server, up to 3,000 SLV, Mid Level, Rack Mounted	\$9,475.00
Communications International	Aviat Networks / 614-100155-001 - ProVision Windows Server, up to 6,000 SLV, High Level, Rack Mounted	\$9,200.00
Communications International	Aviat Networks / 614-100135-001 - 19" LCD MONITOR OPTION	\$1,400.00
Communications International	Aviat Networks / 614-100136-001 - 21" LCD Monitor, 1920 X 1080	\$620.00
Communications International	Aviat Networks / LOC-B020-008-17 - KVM SWITCH, 8-PORT NETDIRECTOR 1U RACKMOUNT CONSOLE KVM SWITCH W/17" LCD	\$3,752.00
Communications International	Aviat Networks / LOC-B019-000 - 2-POST RACKMOUNT BRACKET FOR B020,B021, B040, AND B070 CONSOLES AND KVM CONSOLES	\$171.00
Communications International	Aviat Networks / 614-100170-001 - ProVision Windows Client Laptop up to 3,500 SLV, Entry Level	\$1,900.00
Communications International	Aviat Networks / 614-100165-001 - ProVision Windows Client Laptop up to 6,000 SLV, High Level	\$3,000.00

4450 US Highway 1
Vero Beach, FL 32967
888.275.4244 | ask4ci.com

Authorized Aviat Networks Reseller

Communications International	Aviat Networks / PV-INM-SERVER-001 - Provision INM Complete Single Server - Hardware and Software Configured	\$113,689.00
Communications International	Aviat Networks / LOC-V206HQ - ACER LCD LED 19.5INCH SCREEN	\$234.00
Communications International	Aviat Networks / 614-190015-001 - USB Optical Mouse + local spec keyboard	\$67.00



AVIAT ODU 600v2

The Aviat ODU 600v2 is a next generation, universal Outdoor Unit (ODU) for split-mount applications, incorporating latest ASIC technology to combine ultra-small size and weight with smooth evolution to ultra-high capacity by supporting up to 4096QAM and 80 MHz channel spacings. ODU 600v2 is compatible with Aviat Eclipse and CTR indoor platforms, including backwards compatibility with already deployed hardware and software to facilitate easy introduction to existing networks.

Highlights

- Next generation, universal ODU to support software defined base and high power modes in a single ODU with Aviat's unique Flexible Power Mode (FPM) capability.
- Highest system gain in its class of ODU across frequency bands from 6-38 GHz, enabling high performance operation at higher modulations while minimizing antenna diameter and tower loading.
- Future-proof, high capacity support - 4096QAM and 80 MHz ready, enabling Gigabit link speeds in a single ODU.
- Interoperable and backwards compatible with the Eclipse and CTR 8000 series indoor units to facilitate easy upgrade and capacity evolution ^[1].
- Over-the air (OTA) compatible with previous Aviat ODU 600 outdoor units to simplify introduction and sparing for existing network deployments ^[1].
- Ultra-compact for low profile installation, lower shipping costs, with integrated handle
- Can be deployed in 1+0 unprotected, 1+1 MHSB (Monitored Hot Standby), 1+1 SD (Space Diversity) and 2+0 (with or without XPIC) configurations.
- Upgrade existing Aviat ODU links using optional adapter kit, without changing the antenna and mount.



Key Features

- Operating frequencies L6/U6, FCC7, 7/8, 10.5, 11, 13, 15, 18, 23, 26 and 38 GHz;
- High throughput per T/R, per polarization:
- Typically 716 Mbit/s data Up to 127xDS1
1xOC3 up to 568 Mbit/s
- Flexible Power Mode (FPM) for software selectable standard or optional high power mode;
- Transport options- Carrier Ethernet, PDH/SDH/SONET or Hybrid (mixed-mode Carrier Ethernet + PDH/SDH/SONET), IP/MPLS, in a single radio channel (dependent on indoor unit);
- Up to 4096QAM, with ACM (dependent on indoor unit/RAC);
- Channel size support from 3.75 to 80 MHz, dependent on indoor unit/RAC;
- Wide diplexer tuning range to minimize spares holding, simplify ordering and inventory;
- Configurations supported include 1+0 NP, 1+1 MHSB, 1+1 MHSB SD, 2+0, 2+0 XPIC;
- Ultra-compact: 230 x 180 x 75mm, 2.7 L, all frequency bands;

ODU 600v2 General Specifications

General		
Frequency Band options		L6/U6, 7 FCC, 7, 8, 10.5, 11, 13, 15, 18, 23, 26** and 38 GHz
Modulation and Coding Options	Fixed and Adaptive	QPSK, 16, 32, 64, 128, 256, 512, 1024, 2048 and 4096 QAM
Channel Sizes Supported		3.75, 5, 10, 20, 25, 30, 40, 50, 60 and 80 MHz
Capacity Range	Airlink Capacity	8-716 Mbit/s
	Ethernet / IP Throughput	15-940 Mbit/s
	Native TDM	5 - 127 x DS1
	OC3	1 x OC3 + 2-568
Eclipse Compatibility		
Radio Access Cards (RACs)		RAC 60 and RAC 70
Electrical and Mechanical		
Power	Typical	50 Watts (6-11 GHz), 35W (13-42 GHz)
Size		230 mm x 180 mm x 75 mm, 2.7L
Weight		3.6 kg
Environmental		
Operating Temperature	Guaranteed	-27° to +131°F (-33° to +55°C)
	Extended	-40° to +149°F (-40° to +65°C) ^[2]
Humidity	Guaranteed	100%
Altitude	Guaranteed	15,000 ft (4500 m)
Standards Compliance		
EMC		FCC CFR 47, Part 15, ICES-003
Operation		EN 300 019-2-4, Class 4.1 (ODU 600)
Safety		UL 60950-1, UL 60950-22, UL 62368-1
RF Performance	All federal frequencies	FCC CFR 47, Part 101 Manual of Regulations for Federal Radio Frequency Management
Water Ingress		IEC 60529, IPX6
Lightning Protection		Internal, compliant to IEC 61000-4-5, Class 5
Electric power substations		IEEE 1613
Security	with Eclipse INUe	FIPS 197 validated (Certificate #C5) FIPS 140-2 validated (Certificate #3558)
IF Specifications		
IF Frequency	Transmit	311 MHz
	Receive	126 MHz
IF Cable Length	CNT-400	300 Meters
IF Cable connector		
IF Cable connector		N-Type
AGC monitor point		BNC
Antenna port Interface		Direct and Remote Antenna Mount
Polarisation, field selectable		ODU Rotation
RAC 70		
IF Connector		SMA
LED Indicators		2 x Tri-state
Dimensions inc Connectors		22mm(0.5RU) x 130mm x 268mm
Weight		<0.38Kg
Power Consumption		13 Watts

* [] See notes in last page

Transmitter Specifications

**ODU 600v2 is not ISED certified for 24.25 - 24.45GHz/25.05 - 25.25GHz and is not available for sale and use in Canada

Transmit Power Tolerance	6-26 GHz**	± 2.0 dB
	38 GHz	± 2.5 dB
Transmitter Source	Synthesized	
Frequency Stability	± 5 ppm	
Manual Transmitter Power Control Range	Configurable in 0.1 dB steps from min to max power levels (Refer Tx Power Specifications)	
Automatic Transmitter Power Control	Range	Configurable over the full available manual attenuation range
	Resolution / Speed	0.1 dB steps / 6 dB per second
Synthesizer Resolution	250 kHz	
Transmitter Mute	> 50 dB	

System

Frequency Band	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz
Frequency Range (GHz)	5.925-7.125 GHz	6.875-7.125 GHz	7.125-7.9 GHz	7.7-8.5 GHz
TR-Spacings Supported (MHz)	150,160,170,180,240, 252.04,266,340,345	150	150, 160, 175, 300	300, 310, 360
Standard	FCC Part 101 SRSP 306.4 & 305.9	FCC Part 74 & 101	SRSP 307.1 NTIA Red Book	SRSP 307.7 NTIA Red Book
Antenna Waveguide Type	R70 (WR137)	R70 (WR137)	R84 (WR112)	R84 (WR112)
Maximum Tuning Range (Dependent upon T-R Spacing (MHz))	210	50	180	196
Frequency Band	10.5 GHz	11 GHz	13 GHz	15 GHz
Frequency Range (GHz)	10.5-10.68 GHz	10.7-11.7 GHz	12.7-13.15 GHz	14.4-15.35 GHz
TR-Spacings Supported (MHz)	65	490, 500, 520, 530	225	475, 640
Standard	FCC Part 101 SRSP 310.5	FCC Part 101 SRSP 310.7	Part 74 & 101	SRSP 314.5 NTIA Red Book
Antenna Waveguide Type	R100 (WR90)	R100 (WR90)	R140 (WR62)	R140 (WR62)
Maximum Tuning Range (Dependent upon T-R Spacing (MHz))	10	305	125	261
Frequency Band	18 GHz	23 GHz	26 GHz**	38 GHz
Frequency Range (GHz)	17.7-19.7 GHz	21.2-23.6 GHz	24.549-26.472 GHz	38.6-40.0 GHz
TR-Spacings Supported (MHz)	1560, 340	1200, 1232	1008	700
Standard	FCC Part 101 SRSP 317.8	FCC Part 101 SRSP 321.8 NTIA Red Book	SRSP 325.25 NTIA Red Book	FCC Part 101 SRSP 338.6
Antenna Waveguide Type	R220 (WR42)	R220 (WR42)	R260 (WR34)	R320 (WR28)
Maximum Tuning Range (Dependent upon T-R Spacing (MHz))	440	616	467	400

Receiver Specifications

Receiver Source	Synthesized	
Frequency Stability	± 5 ppm	
Receiver Overload	BER = 1E-6	-20 dBm
Residual (Background) Bit Error Rate	Better than 1E-13	
RSSI Accuracy [3]	-20 to -30 dBm (-27° to +131°F)	± 3.5dB
	-30 to -70 dBm (-27° to +131°F)	± 2.5dB
	-70 to -90 dBm (-27° to +131°F)	± 3.5dB

[3] See notes in last page

- [1] Minimum SW version and configuration rules may apply. Please check with Aviat Networks for details.
- [2] ATCP is recommended for operation at Extended temperature ranges. Contact Aviat Networks for more details.
- [3] RSSI accuracy applies when there is no potential interferer signal present within +/- 28MHz of the Rx. Frequency.

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are typical values unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks and the Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc. _d(lf)_Eclipse_ODU600v2_RAC70_ANSI_4-6-2020





Technical Specifications

AVIAT ODU 600v2

Used in conjunction with Eclipse RAC 70

ANSI

(ODUv2 mode)

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are typical values unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



ODU 600v2 General Specifications

General		
Frequency Band options		L6/U6, 7 FCC, 7, 8, 10.5, 11, 13, 15, 18, 23 and 38 GHz
Modulation and Coding Options	Fixed and Adaptive	QPSK, 16, 32, 64, 128, 256, 512, 1024, 2048 and 4096 QAM
Channel Sizes Supported		3.75, 5, 10, 20, 25, 30, 40, 50, 60 and 80 MHz
Capacity Range	Airlink Capacity	8-716 Mbit/s
	Ethernet / IP Throughput	15-940 Mbit/s
	Native TDM	5 - 127 x DS1
Eclipse Compatibility		
Radio Access Cards (RACs)		RAC 70
Electrical and Mechanical		
Power	Typical	50 Watts (6-11 GHz), 35W (13-42 GHz)
Size [1]		230 mm x 180 mm x 75 mm, 2.7L
Weight		3.6 kg
Environmental		
Operating Temperature	Guaranteed	-27° to +131°F (-33° to +55°C)
	Extended	-40° to +149°F (-40° to +65°C)[2]
Humidity	Guaranteed	100%
Altitude	Guaranteed	15,000 ft (4500 m)
Standards Compliance		
EMC		FCC CFR 47, Part 15, ICES-003
Operation		EN 300 019-2-4, Class 4.1 (ODU 600)
Safety		UL 60950-1, UL 60950-22
RF Performance	All federal frequencies	FCC CFR 47, Part 101 Manual of Regulations for Federal Radio Frequency Management
Water Ingress		IEC 60529, IPX6
Lightning Protection		Internal, compliant to IEC 61000-4-5, Class 5
Electric power substations		IEEE 1613
Security	with Eclipse INUe	FIPS 197 validated (Certificate #C5) FIPS 140-2 validated (Certificate #3558)
IF Specifications		
IF Frequency	Transmit	311 MHz
	Receive	126 MHz
IF Cable Length	CNT-300	150 Meters
	CNT-400	300 Meters
IF Cable connector		
IF Cable connector		N-Type
AGC monitor point		BNC
Antenna port Interface		Direct Antenna Mount
Polarisation, field selectable		ODU Rotation
RAC 70		
IF Connector		SMA
LED Indicators		2 x Tri-state
Dimensions inc Connectors		22mm(0.5RU) x 130mm x 268mm
Weight		<0.38Kg
Power Consumption		13 Watts

*[] See notes in last page

Transmitter Specifications

Transmit Power Tolerance	6-23 GHz	± 2.0 dB
	38 GHz	± 2.5 dB
Transmitter Source		Synthesized
Frequency Stability		± 5 ppm
Manual Transmitter Power Control Range	Configurable in 0.1 dB steps from min to max power levels (Refer Tx Power Specifications)	
Automatic Transmitter Power Control	Range	Configurable over the full available manual attenuation range
	Resolution / Speed	0.1 dB steps / 6 dB per second
Synthesizer Resolution		250 kHz
Transmitter Mute		> 50 dB

Receiver Specifications

Receiver Source		Synthesized
Frequency Stability		± 5 ppm
Receiver Overload		-22 dBm
		-20 dBm
Residual (Background) Bit Error Rate		Better than 1E-13
RSSI Accuracy [3]	-40 to -70 dBm (-40° to +95°F)	± 2dB
	-25 to -85 dBm (-58° to +131°F)	± 4dB

[3] See notes in last page

Transmitter Specifications

(Operating with RAC70)

System

	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
Frequency Range (GHz)	5.925 - 7.125	6.875-7.125	7.125 - 7.9	7.725 - 8.5	10.5 - 10.68
TR-Spacings Supported (MHz)	252.04, 340, 345, 150, 180	150	150, 160, 175, 300	300, 310, 360	65
Standard	FCC Part 101 SRSP 306.4 & 305.9	FCC Part 74 & 101	SRSP 307.1 NTIA Red Book	SRSP 307.7 NTIA Red Book	FCC Part 101 SRSP 310.5
Maximum Tuning Range (Dependent upon T-R Spacing (MHz))	210	92	160	196	10

Antenna Interface

Waveguide Type	R70 (WR137)	R70 (WR137)	R84 (WR112)	R84 (WR112)	R100 (WR90)

Transmitter Power Output Specifications with High Power Option^[8], in dBm (Nominal)

	L6/U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
QPSK	32.0	32.0	32.0	31.0	
16QAM	31.5	31.5	31.5	30.0	27.5
32QAM	31.5	31.5	31.5	30.0	27.5
64QAM	30.5	30.5	30.5	29.0	27.5
128QAM	30.0	30.0	30.0	28.5	27.5
256QAM	29.5	29.5	29.5	28.0	27.5
512QAM	29.0	29.0	29.0	27.5	
1024QAM	28.0	28.0	28.0	26.5	
2048QAM	27.0	27.0	27.0	25.5	
4096QAM	26.0	26.0	26.0	24.5	
Minimum Configurable Power Level	12	12	12	11	7.5

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

	Air Link Capacity	Max ^[4] Ethernet	Max ^[5] DS1s	Modulation	L6 GHz	U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
3.75 MHz Channel										
ACM/Fixed	4 Mbps	10 Mbps	3xDS1	QPSK						
ACM/Fixed	8 Mbps	15 Mbps	5xDS1	16QAM	-94.0	-94.0				-92.0
ACM/Fixed	11 Mbps	19 Mbps	7xDS1	32QAM	-89.0	-89.0				-87.5
ACM/Fixed	15 Mbps	22 Mbps	9xDS1	64QAM	-86.0	-86.0				-84.5
ACM/Fixed	17 Mbps	25 Mbps	10xDS1	128QAM	-84.0	-84.0				-82.0
ACM/Fixed	19 Mbps	16 Mbps	12xDS1	256QAM	-80.0	-80.0				-78.5
5 MHz Channel										
ACM/Fixed	5 Mbps	19 Mbps	3xDS1	QPSK						
ACM/Fixed	12 Mbps	24 Mbps	7xDS1	16QAM	-92.0	-92.0	-92.0	-91.5	-92.0	-90.0
ACM/Fixed	15 Mbps	29 Mbps	9xDS1	32QAM	-88.5	-88.5	-88.5	-88.0	-88.5	-87.0
ACM/Fixed	19 Mbps	35 Mbps	11xDS1	64QAM	-86.0	-86.0	-86.0	-85.5	-86.0	-84.5
ACM/Fixed	22 Mbps	17 Mbps	14xDS1	128QAM	-83.0	-83.0	-83.0	-82.5	-83.0	-81.5
ACM/Fixed	27 Mbps	38 Mbps	17xDS1	256QAM	-79.5	-79.5	-79.5	-79.0	-79.5	-77.5

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

	Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	L6 GHz	U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
10 MHz Channel^[6]										
ACM/Fixed	13 Mbps	47 Mbps	8xDS1	QPSK	-95.0	-95.0	-95.0	-94.5	-95.0	
ACM/Fixed	29 Mbps	59 Mbps	18xDS1	16QAM	-87.5	-87.5	-87.5	-87.0	-87.5	
ACM/Fixed	36 Mbps	67 Mbps	23xDS1	32QAM	-84.0	-84.0	-84.0	-83.5	-84.0	
ACM/Fixed	45 Mbps	74 Mbps	29xDS1	64QAM	-80.5	-80.5	-80.5	-80.0	-80.5	
ACM/Fixed	51 Mbps	88 Mbps	32xDS1	128QAM	-78.5	-78.5	-78.5	-78.0	-78.5	
ACM/Fixed	56 Mbps	96 Mbps	36xDS1	256QAM	-76.5	-76.5	-76.5	-76.0	-76.5	
ACM/Fixed	67 Mbps	85 Mbps	43xDS1	512QAM	-72.0	-72.0	-72.0	-71.5	-72.0	
ACM/Fixed	73 Mbps	93 Mbps	47xDS1	1024QAM	-69.5	-69.5	-69.5	-69.0	-69.5	
20 MHz Channel										
ACM/Fixed	26 Mbps	34 Mbps	16xDS1	QPSK		-92.5		-92.0	-92.5	
ACM/Fixed	61 Mbps	80 Mbps	39xDS1	16QAM		-84.0		-83.5	-84.0	
ACM/Fixed	71 Mbps	94 Mbps	45xDS1	32QAM		-81.5		-81.0	-81.5	
ACM/Fixed	89 Mbps	117 Mbps	57xDS1	64QAM		-79.0		-78.5	-79.0	
ACM/Fixed	102 Mbps	134 Mbps	65xDS1	128QAM		-76.5		-76.0	-76.5	
ACM/Fixed	119 Mbps	156 Mbps	76xDS1	256QAM		-73.0		-72.5	-73.0	
ACM/Fixed	132 Mbps	173 Mbps	85xDS1	512QAM		-70.5		-70.0	-70.5	
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	1024QAM		-67.0		-66.5	-67.0	
ACM/Fixed	162 Mbps	212 Mbps	104xDS1	2048QAM		-64.0		-63.5	-64.0	
ACM/Fixed	176 Mbps	231 Mbps	113xDS1	4096QAM		-60.5		-60.0	-60.5	
25 MHz Channel										
ACM/Fixed	33 Mbps	43 Mbps	20xDS1	QPSK			-91.5			
ACM/Fixed	75 Mbps	98 Mbps	48xDS1	16QAM			-83.5			
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	32QAM			-80.5			
ACM/Fixed	111 Mbps	145 Mbps	71xDS1	64QAM			-78.0			
ACM/Fixed	130 Mbps	170 Mbps	83xDS1	128QAM			-75.5			
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	256QAM			-72.0			
ACM/Fixed	167 Mbps	219 Mbps	107xDS1	512QAM			-69.5			
ACM/Fixed	189 Mbps	249 Mbps	121xDS1	1024QAM			-66.0			
ACM/Fixed	205 Mbps	268 Mbps	127xDS1	2048QAM			-63.0			
ACM/Fixed	222 Mbps	291 Mbps	127xDS1	4096QAM			-59.0			
30 MHz Channel										
ACM/Fixed	39 Mbps	51 Mbps	25xDS1	QPSK	-90.5	-90.5		-90.0	-90.5	
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	16QAM	-82.5	-82.5		-82.0	-82.5	
ACM/Fixed	109 Mbps	143 Mbps	70xDS1	32QAM	-80.0	-80.0		-79.5	-80.0	
ACM/Fixed	132 Mbps	174 Mbps	84xDS1	64QAM	-77.5	-77.5		-77.0	-77.5	
ACM/Fixed	155 Mbps	204 Mbps	100xDS1	128QAM	-74.5	-74.5		-74.0	-74.5	
ACM/Fixed	180 Mbps	237 Mbps	116xDS1	256QAM	-71.5	-71.5		-71.0	-71.5	
ACM/Fixed	200 Mbps	263 Mbps	127xDS1	512QAM	-69.0	-69.0		-68.5	-69.0	
ACM/Fixed	227 Mbps	298 Mbps	127xDS1	1024QAM	-65.0	-65.0		-64.5	-65.0	
ACM/Fixed	245 Mbps	322 Mbps	127xDS1	2048QAM	-62.0	-62.0		-61.5	-62.0	
ACM/Fixed	267 Mbps	350 Mbps	127xDS1	4096QAM	-58.5	-58.5		-58.0	-58.5	
40 MHz Channel										
ACM/Fixed	52 Mbps	69 Mbps	33xDS1	QPSK				-88.5	-89.0	
ACM/Fixed	121 Mbps	158 Mbps	77xDS1	16QAM				-80.5	-81.0	
ACM/Fixed	146 Mbps	191 Mbps	93xDS1	32QAM				-78.0	-78.5	
ACM/Fixed	178 Mbps	234 Mbps	113xDS1	64QAM				-75.5	-76.0	
ACM/Fixed	207 Mbps	272 Mbps	127xDS1	128QAM				-73.0	-73.5	
ACM/Fixed	237 Mbps	311 Mbps	127xDS1	256QAM				-70.0	-70.5	
ACM/Fixed	268 Mbps	351 Mbps	127xDS1	512QAM				-67.0	-67.5	
ACM/Fixed	300 Mbps	394 Mbps	127xDS1	1024QAM				-63.5	-64.0	
ACM/Fixed	329 Mbps	432 Mbps	127xDS1	2048QAM				-60.5	-61.0	
ACM/Fixed	358 Mbps	469 Mbps	127xDS1	4096QAM				-56.5	-57.0	

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	L6 GHz	U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
60 MHz Channel									
ACM/Fixed 78 Mbps	103 Mbps	49xDS1	QPSK	-87.5					
ACM/Fixed 167 Mbps	220 Mbps	106xDS1	16QAM	-80.5					
ACM/Fixed 217 Mbps	285 Mbps	127xDS1	32QAM	-76.5					
ACM/Fixed 267 Mbps	350 Mbps	127xDS1	64QAM	-74.0					
ACM/Fixed 301 Mbps	395 Mbps	127xDS1	128QAM	-72.0					
ACM/Fixed 344 Mbps	451 Mbps	127xDS1	256QAM	-69.0					
ACM/Fixed 403 Mbps	529 Mbps	127xDS1	512QAM	-65.5					
ACM/Fixed 454 Mbps	596 Mbps	127xDS1	1024QAM	-62.0					
ACM/Fixed 491 Mbps	645 Mbps	127xDS1	2048QAM	-59.0					
ACM/Fixed 534 Mbps	701 Mbps	127xDS1	4096QAM	-55.5					

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6,^[7] in dB (Typical)

Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	L6 GHz	U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
3.75 MHz Channel									
ACM/Fixed	4 Mbps	10 Mbps	3xDS1	QPSK					
ACM/Fixed	8 Mbps	15 Mbps	5xDS1	16QAM	125.5	125.5			119.5
ACM/Fixed	11 Mbps	19 Mbps	7xDS1	32QAM	120.5	120.5			115.0
ACM/Fixed	15 Mbps	22 Mbps	9xDS1	64QAM	116.5	116.5			112.0
ACM/Fixed	17 Mbps	25 Mbps	10xDS1	128QAM	114.0	114.0			109.5
ACM/Fixed	19 Mbps	16 Mbps	12xDS1	256QAM	109.5	109.5			106.0
5 MHz Channel									
ACM/Fixed	5 Mbps	19 Mbps	3xDS1	QPSK					
ACM/Fixed	12 Mbps	24 Mbps	7xDS1	16QAM	123.5	123.5	123.5	123.0	122.0
ACM/Fixed	15 Mbps	29 Mbps	9xDS1	32QAM	120.0	120.0	120.0	119.5	118.5
ACM/Fixed	19 Mbps	35 Mbps	11xDS1	64QAM	116.5	116.5	116.5	116.0	115.0
ACM/Fixed	22 Mbps	17 Mbps	14xDS1	128QAM	113.0	113.0	113.0	112.5	111.5
ACM/Fixed	27 Mbps	38 Mbps	17xDS1	256QAM	109.0	109.0	109.0	108.5	107.5
10 MHz Channel^[6]									
ACM/Fixed	13 Mbps	47 Mbps	8xDS1	QPSK	127.0	127.0	127.0	126.5	126.0
ACM/Fixed	29 Mbps	59 Mbps	18xDS1	16QAM	119.0	119.0	119.0	118.5	117.5
ACM/Fixed	36 Mbps	67 Mbps	23xDS1	32QAM	115.5	115.5	115.5	115.0	114.0
ACM/Fixed	45 Mbps	74 Mbps	29xDS1	64QAM	111.0	111.0	111.0	110.5	109.5
ACM/Fixed	51 Mbps	88 Mbps	32xDS1	128QAM	108.5	108.5	108.5	108.0	107.0
ACM/Fixed	56 Mbps	96 Mbps	36xDS1	256QAM	106.0	106.0	106.0	105.5	104.5
ACM/Fixed	67 Mbps	85 Mbps	43xDS1	512QAM	101.0	101.0	101.0	100.5	99.5
ACM/Fixed	73 Mbps	93 Mbps	47xDS1	1024QAM	97.5	97.5	97.5	97.0	96.0
20 MHz Channel									
ACM/Fixed	26 Mbps	34 Mbps	16xDS1	QPSK		124.5		124.0	123.5
ACM/Fixed	61 Mbps	80 Mbps	39xDS1	16QAM		115.5		115.0	114.0
ACM/Fixed	71 Mbps	94 Mbps	45xDS1	32QAM		113.0		112.5	111.5
ACM/Fixed	89 Mbps	117 Mbps	57xDS1	64QAM		109.5		109.0	108.0
ACM/Fixed	102 Mbps	134 Mbps	65xDS1	128QAM		106.5		106.0	105.0
ACM/Fixed	119 Mbps	156 Mbps	76xDS1	256QAM		102.5		102.0	101.0
ACM/Fixed	132 Mbps	173 Mbps	85xDS1	512QAM		99.5		99.0	98.0
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	1024QAM		95.0		94.5	93.5
ACM/Fixed	162 Mbps	212 Mbps	104xDS1	2048QAM		91.0		90.5	89.5
ACM/Fixed	176 Mbps	231 Mbps	113xDS1	4096QAM		86.5		86.0	85.0
25 MHz Channel									
ACM/Fixed	33 Mbps	43 Mbps	20xDS1	QPSK			123.5		
ACM/Fixed	75 Mbps	98 Mbps	48xDS1	16QAM			115.0		
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	32QAM			112.0		
ACM/Fixed	111 Mbps	145 Mbps	71xDS1	64QAM			108.5		
ACM/Fixed	130 Mbps	170 Mbps	83xDS1	128QAM			105.5		
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	256QAM			101.5		
ACM/Fixed	167 Mbps	219 Mbps	107xDS1	512QAM			98.5		
ACM/Fixed	189 Mbps	249 Mbps	121xDS1	1024QAM			94.0		
ACM/Fixed	205 Mbps	268 Mbps	127xDS1	2048QAM			90.0		
ACM/Fixed	222 Mbps	291 Mbps	127xDS1	4096QAM			85.0		

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6,^[7] in dB (Typical)

Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	L6 GHz	U6 GHz	FCC 7 GHz	7 GHz	8 GHz	10.5 GHz
30 MHz Channel									
ACM/Fixed 39 Mbps	51 Mbps	25xDS1	QPSK	122.5	122.5		122.0	121.5	
ACM/Fixed 90 Mbps	118 Mbps	57xDS1	16QAM	114.0	114.0		113.5	112.5	
ACM/Fixed 109 Mbps	143 Mbps	70xDS1	32QAM	111.5	111.5		111.0	110.0	
ACM/Fixed 132 Mbps	174 Mbps	84xDS1	64QAM	108.0	108.0		107.5	106.5	
ACM/Fixed 155 Mbps	204 Mbps	100xDS1	128QAM	104.5	104.5		104.0	103.0	
ACM/Fixed 180 Mbps	237 Mbps	116xDS1	256QAM	101.0	101.0		100.5	99.5	
ACM/Fixed 200 Mbps	263 Mbps	127xDS1	512QAM	98.0	98.0		97.5	96.5	
ACM/Fixed 227 Mbps	298 Mbps	127xDS1	1024QAM	93.0	93.0		92.5	91.5	
ACM/Fixed 245 Mbps	322 Mbps	127xDS1	2048QAM	89.0	89.0		88.5	87.5	
ACM/Fixed 267 Mbps	350 Mbps	127xDS1	4096QAM	84.5	84.5		84.0	83.0	
40 MHz Channel									
ACM/Fixed 52 Mbps	69 Mbps	33xDS1	QPSK				120.5	120.0	
ACM/Fixed 121 Mbps	158 Mbps	77xDS1	16QAM				112.0	111.0	
ACM/Fixed 146 Mbps	191 Mbps	93xDS1	32QAM				109.5	108.5	
ACM/Fixed 178 Mbps	234 Mbps	113xDS1	64QAM				106.0	105.0	
ACM/Fixed 207 Mbps	272 Mbps	127xDS1	128QAM				103.0	102.0	
ACM/Fixed 237 Mbps	311 Mbps	127xDS1	256QAM				99.5	98.5	
ACM/Fixed 268 Mbps	351 Mbps	127xDS1	512QAM				96.0	95.0	
ACM/Fixed 300 Mbps	394 Mbps	127xDS1	1024QAM				91.5	90.5	
ACM/Fixed 329 Mbps	432 Mbps	127xDS1	2048QAM				87.5	86.5	
ACM/Fixed 358 Mbps	469 Mbps	127xDS1	4096QAM				82.5	81.5	
60 MHz Channel									
ACM/Fixed 78 Mbps	103 Mbps	49xDS1	QPSK	119.5					
ACM/Fixed 167 Mbps	220 Mbps	106xDS1	16QAM	112.0					
ACM/Fixed 217 Mbps	285 Mbps	127xDS1	32QAM	108.0					
ACM/Fixed 267 Mbps	350 Mbps	127xDS1	64QAM	104.5					
ACM/Fixed 301 Mbps	395 Mbps	127xDS1	128QAM	102.0					
ACM/Fixed 344 Mbps	451 Mbps	127xDS1	256QAM	98.5					
ACM/Fixed 403 Mbps	529 Mbps	127xDS1	512QAM	94.5					
ACM/Fixed 454 Mbps	596 Mbps	127xDS1	1024QAM	90.0					
ACM/Fixed 491 Mbps	645 Mbps	127xDS1	2048QAM	86.0					
ACM/Fixed 534 Mbps	701 Mbps	127xDS1	4096QAM	81.5					

*[] See notes in last page

Transmitter Specifications

(Operating with RAC70)

System

	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
Frequency Range (GHz)	10.7 - 11.7	12.70 - 13.15	14.4 - 15.35	17.7 - 19.7	21.2 - 23.6	38.6 - 40.0
TR-Spacings Supported (MHz)	490, 500, 520, 530	225	475, 640	1560, 340	1200, 1232	700
Standard	FCC Part 101 SRSP 310.7	Part 74 & 101	SRSP 314.5 NTIA Red Book	FCC Part 101 SRSP 317.8	FCC Part 101 SRSP 321.8	FCC Part 101 SRSP 338.6
Maximum Tuning Range (Dependent upon T-R Spacing) (MHz)	305	125	261	440	616	350

Antenna Interface

Waveguide Type	R100 (WR90)	R140 (WR62)	R140 (WR62)	R220 (WR42)	R220 (WR42)	R320 (WR28)
----------------	-------------	-------------	-------------	-------------	-------------	-------------

Transmitter Power Output Specifications with High Power Option^[8], in dBm (Nominal)

	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
QPSK	29.5	26.5	26.5	23.0	23.5	20.5
16QAM	29.5	25.5	25.5	22.0	22.5	18.5
32QAM	29.5	24.5	24.5	21.0	21.5	18.5
64QAM	29.5	24.5	24.5	21.0	21.5	18.5
128QAM	29.5	24.5	24.5	21.0	21.5	18.0
256QAM	29.5	23.5	23.5	20.0	20.5	17.5
512QAM	29.0	22.0	22.0	18.5	19.0	17.0
1024QAM	28.0	21.5	21.5	18.0	18.5	16.0
2048QAM	27.0	21.0	21.0	18.0	18.0	15.0
4096QAM	26.0	20.0	20.0	17.0		
Minimum Configurable Power Level	9.5	6.5	6.5	3	3.5	0.5

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

	Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
3.75 MHz Channel										
ACM/Fixed	4 Mbps	10 Mbps	3xDS1	QPSK						
ACM/Fixed	8 Mbps	15 Mbps	5xDS1	16QAM	-93.0					
ACM/Fixed	11 Mbps	19 Mbps	7xDS1	32QAM	-88.5					
ACM/Fixed	15 Mbps	22 Mbps	9xDS1	64QAM	-85.5					
ACM/Fixed	17 Mbps	25 Mbps	10xDS1	128QAM	-83.0					
ACM/Fixed	19 Mbps	16 Mbps	12xDS1	256QAM	-79.5					
5 MHz Channel										
ACM/Fixed	5 Mbps	19 Mbps	3xDS1	QPSK						
ACM/Fixed	12 Mbps	24 Mbps	7xDS1	16QAM	-91.0	-90.5	-91.0	-90.5	-90.5	
ACM/Fixed	15 Mbps	29 Mbps	9xDS1	32QAM	-88.0	-87.5	-88.0	-87.5	-87.5	
ACM/Fixed	19 Mbps	35 Mbps	11xDS1	64QAM	-85.5	-85.0	-85.5	-85.0	-85.0	
ACM/Fixed	22 Mbps	17 Mbps	14xDS1	128QAM	-82.5	-82.0	-82.5	-82.0	-82.0	
ACM/Fixed	27 Mbps	38 Mbps	17xDS1	256QAM	-78.5	-78.0	-78.5	-78.0	-78.0	

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

	Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
10 MHz Channel^[6]										
ACM/Fixed	13 Mbps	47 Mbps	8xDS1	QPSK	-94.5	-94.0	-94.5	-94.0	-94.0	-93.0
ACM/Fixed	29 Mbps	59 Mbps	18xDS1	16QAM	-87.0	-86.5	-87.0	-86.5	-86.5	-85.0
ACM/Fixed	36 Mbps	67 Mbps	23xDS1	32QAM	-83.5	-83.0	-83.5	-83.0	-83.0	-81.5
ACM/Fixed	45 Mbps	74 Mbps	29xDS1	64QAM	-80.0	-79.5	-80.0	-79.5	-79.5	-78.0
ACM/Fixed	51 Mbps	88 Mbps	32xDS1	128QAM	-78.0	-77.5	-78.0	-77.5	-77.5	-76.0
ACM/Fixed	56 Mbps	96 Mbps	36xDS1	256QAM	-76.0	-75.5	-76.0	-75.5	-75.5	-74.0
ACM/Fixed	67 Mbps	85 Mbps	43xDS1	512QAM	-71.5	-71.0	-71.5	-71.0	-71.0	-70.0
ACM/Fixed	73 Mbps	93 Mbps	47xDS1	1024QAM	-68.5	-68.0	-68.5	-68.0	-68.0	-67.0
20 MHz Channel										
ACM/Fixed	26 Mbps	34 Mbps	16xDS1	QPSK	-91.5		-92.0	-91.5	-91.5	
ACM/Fixed	61 Mbps	80 Mbps	39xDS1	16QAM	-83.5		-83.5	-83.0	-83.0	
ACM/Fixed	71 Mbps	94 Mbps	45xDS1	32QAM	-81.0		-81.0	-80.5	-80.5	
ACM/Fixed	89 Mbps	117 Mbps	57xDS1	64QAM	-78.0		-78.0	-77.5	-77.5	
ACM/Fixed	102 Mbps	134 Mbps	65xDS1	128QAM	-76.0		-76.0	-75.5	-75.5	
ACM/Fixed	119 Mbps	156 Mbps	76xDS1	256QAM	-72.5		-72.5	-72.0	-72.0	
ACM/Fixed	132 Mbps	173 Mbps	85xDS1	512QAM	-70.0		-70.0	-69.5	-69.5	
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	1024QAM	-66.0		-66.0	-65.5	-65.5	
ACM/Fixed	162 Mbps	212 Mbps	104xDS1	2048QAM	-63.5		-63.5	-63.0	-63.0	
ACM/Fixed	176 Mbps	231 Mbps	113xDS1	4096QAM	-59.5		-59.5	-59.0		
25 MHz Channel										
ACM/Fixed	33 Mbps	43 Mbps	20xDS1	QPSK		-90.5				
ACM/Fixed	75 Mbps	98 Mbps	48xDS1	16QAM		-82.5				
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	32QAM		-79.5				
ACM/Fixed	111 Mbps	145 Mbps	71xDS1	64QAM		-77.0				
ACM/Fixed	130 Mbps	170 Mbps	83xDS1	128QAM		-74.5				
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	256QAM		-71.0				
ACM/Fixed	167 Mbps	219 Mbps	107xDS1	512QAM		-68.5				
ACM/Fixed	189 Mbps	249 Mbps	121xDS1	1024QAM		-64.5				
ACM/Fixed	205 Mbps	268 Mbps	127xDS1	2048QAM		-62.0				
ACM/Fixed	222 Mbps	291 Mbps	127xDS1	4096QAM		-58.0				
30 MHz Channel										
ACM/Fixed	39 Mbps	51 Mbps	25xDS1	QPSK	-90.0		-90.0	-89.5	-89.5	-88.0
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	16QAM	-82.0		-82.0	-81.5	-81.5	-80.5
ACM/Fixed	109 Mbps	143 Mbps	70xDS1	32QAM	-79.0		-79.5	-79.0	-79.0	-77.5
ACM/Fixed	132 Mbps	174 Mbps	84xDS1	64QAM	-76.5		-77.0	-76.5	-76.5	-75.0
ACM/Fixed	155 Mbps	204 Mbps	100xDS1	128QAM	-74.0		-74.0	-73.5	-73.5	-72.5
ACM/Fixed	180 Mbps	237 Mbps	116xDS1	256QAM	-70.5		-71.0	-70.5	-70.5	-69.0
ACM/Fixed	200 Mbps	263 Mbps	127xDS1	512QAM	-68.0		-68.5	-68.0	-68.0	-66.5
ACM/Fixed	227 Mbps	298 Mbps	127xDS1	1024QAM	-64.5		-64.5	-64.0	-64.0	-62.5
ACM/Fixed	245 Mbps	322 Mbps	127xDS1	2048QAM	-61.5		-61.5	-61.0	-61.0	-60.0
ACM/Fixed	267 Mbps	350 Mbps	127xDS1	4096QAM	-57.5		-57.5	-57.0		
40 MHz Channel										
ACM/Fixed	52 Mbps	69 Mbps	33xDS1	QPSK	-88.5		-88.5	-88.0	-88.0	-87.0
ACM/Fixed	121 Mbps	158 Mbps	77xDS1	16QAM	-80.5		-80.5	-80.0	-80.0	-79.0
ACM/Fixed	146 Mbps	191 Mbps	93xDS1	32QAM	-77.5		-78.0	-77.5	-77.5	-76.0
ACM/Fixed	178 Mbps	234 Mbps	113xDS1	64QAM	-75.5		-75.5	-75.0	-75.0	-73.5
ACM/Fixed	207 Mbps	272 Mbps	127xDS1	128QAM	-72.5		-73.0	-72.5	-72.5	-71.0
ACM/Fixed	237 Mbps	311 Mbps	127xDS1	256QAM	-69.5		-69.5	-69.0	-69.0	-68.0
ACM/Fixed	268 Mbps	351 Mbps	127xDS1	512QAM	-67.0		-67.0	-66.5	-66.5	-65.0
ACM/Fixed	300 Mbps	394 Mbps	127xDS1	1024QAM	-63.5		-63.5	-63.0	-63.0	-61.5
ACM/Fixed	329 Mbps	432 Mbps	127xDS1	2048QAM	-60.5		-60.5	-60.0	-60.0	-58.5
ACM/Fixed	358 Mbps	469 Mbps	127xDS1	4096QAM	-56.5		-56.5	-56.0		

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6^[7], in dBm (Typical)

	Air Link Capacity	Max ^[4] Ethernet	Max ^[5] DS1s	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
50 MHz Channel										
ACM/Fixed	65 Mbps	86 Mbps	42xDS1	QPSK		-87.0	-87.5	-87.0	-87.0	-86.0
ACM/Fixed	140 Mbps	184 Mbps	89xDS1	16QAM		-80.0	-80.5	-80.0	-80.0	-79.0
ACM/Fixed	183 Mbps	240 Mbps	117xDS1	32QAM		-76.0	-76.5	-76.0	-76.0	-75.0
ACM/Fixed	220 Mbps	288 Mbps	127xDS1	64QAM		-74.0	-74.5	-74.0	-74.0	-73.0
ACM/Fixed	252 Mbps	330 Mbps	127xDS1	128QAM		-72.0	-72.5	-72.0	-72.0	-70.5
ACM/Fixed	308 Mbps	404 Mbps	127xDS1	256QAM		-67.5	-68.0	-67.5	-67.5	-66.0
ACM/Fixed	338 Mbps	444 Mbps	127xDS1	512QAM		-65.0	-65.5	-65.0	-65.0	-64.0
ACM/Fixed	382 Mbps	501 Mbps	127xDS1	1024QAM		-61.5	-62.0	-61.5	-61.5	-60.0
ACM/Fixed	410 Mbps	538 Mbps	127xDS1	2048QAM		-59.0	-59.5	-59.0	-59.0	-57.5
ACM/Fixed	446 Mbps	586 Mbps	127xDS1	4096QAM		-55.0	-55.5	-55.0		
80 MHz Channel										
ACM/Fixed	105 Mbps	138 Mbps	66xDS1	QPSK	-85.0			-85.0		
ACM/Fixed	241 Mbps	316 Mbps	127xDS1	16QAM	-77.0			-77.0		
ACM/Fixed	302 Mbps	397 Mbps	127xDS1	32QAM	-73.5			-73.5		
ACM/Fixed	352 Mbps	462 Mbps	127xDS1	64QAM	-72.0			-72.0		
ACM/Fixed	403 Mbps	530 Mbps	127xDS1	128QAM	-70.0			-69.5		
ACM/Fixed	470 Mbps	617 Mbps	127xDS1	256QAM	-66.5			-66.0		
ACM/Fixed	543 Mbps	712 Mbps	127xDS1	512QAM	-63.0			-63.0		
ACM/Fixed	612 Mbps	804 Mbps	127xDS1	1024QAM	-59.5			-59.0		
ACM/Fixed	658 Mbps	864 Mbps	127xDS1	2048QAM	-57.0			-56.5		
ACM/Fixed	716 Mbps	940 Mbps	127xDS1	4096QAM	-53.0			-52.5		

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6,^[7] in dB (Typical)

	Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
3.75 MHz Channel										
ACM/Fixed	4 Mbps	10 Mbps	3xDS1	QPSK						
ACM/Fixed	8 Mbps	15 Mbps	5xDS1	16QAM	122.5					
ACM/Fixed	11 Mbps	19 Mbps	7xDS1	32QAM	118.0					
ACM/Fixed	15 Mbps	22 Mbps	9xDS1	64QAM	115.0					
ACM/Fixed	17 Mbps	25 Mbps	10xDS1	128QAM	112.5					
ACM/Fixed	19 Mbps	16 Mbps	12xDS1	256QAM	109.0					
5 MHz Channel										
ACM/Fixed	5 Mbps	19 Mbps	3xDS1	QPSK						
ACM/Fixed	12 Mbps	24 Mbps	7xDS1	16QAM	120.5	116.0	116.5	112.5	113.0	
ACM/Fixed	15 Mbps	29 Mbps	9xDS1	32QAM	117.5	112.0	112.5	108.5	109.0	
ACM/Fixed	19 Mbps	35 Mbps	11xDS1	64QAM	115.0	109.5	110.0	106.0	106.5	
ACM/Fixed	22 Mbps	17 Mbps	14xDS1	128QAM	112.0	106.5	107.0	103.0	103.5	
ACM/Fixed	27 Mbps	38 Mbps	17xDS1	256QAM	108.0	101.5	102.0	98.0	98.5	
10 MHz Channel^[6]										
ACM/Fixed	13 Mbps	47 Mbps	8xDS1	QPSK	124.0	120.5	121.0	117.0	117.5	113.5
ACM/Fixed	29 Mbps	59 Mbps	18xDS1	16QAM	116.5	112.0	112.5	108.5	109.0	103.5
ACM/Fixed	36 Mbps	67 Mbps	23xDS1	32QAM	113.0	107.5	108.0	104.0	104.5	100.0
ACM/Fixed	45 Mbps	74 Mbps	29xDS1	64QAM	109.5	104.0	104.5	100.5	101.0	96.5
ACM/Fixed	51 Mbps	88 Mbps	32xDS1	128QAM	107.5	102.0	102.5	98.5	99.0	94.0
ACM/Fixed	56 Mbps	96 Mbps	36xDS1	256QAM	105.5	99.0	99.5	95.5	96.0	91.5
ACM/Fixed	67 Mbps	85 Mbps	43xDS1	512QAM	100.5	93.0	93.5	89.5	90.0	87.0
ACM/Fixed	73 Mbps	93 Mbps	47xDS1	1024QAM	96.5	89.5	90.0	86.0	86.5	83.0
20 MHz Channel										
ACM/Fixed	26 Mbps	34 Mbps	16xDS1	QPSK	121.0		118.5	114.5	115.0	
ACM/Fixed	61 Mbps	80 Mbps	39xDS1	16QAM	113.0		109.0	105.0	105.5	
ACM/Fixed	71 Mbps	94 Mbps	45xDS1	32QAM	110.5		105.5	101.5	102.0	
ACM/Fixed	89 Mbps	117 Mbps	57xDS1	64QAM	107.5		102.5	98.5	99.0	
ACM/Fixed	102 Mbps	134 Mbps	65xDS1	128QAM	105.5		100.5	96.5	97.0	
ACM/Fixed	119 Mbps	156 Mbps	76xDS1	256QAM	102.0		96.0	92.0	92.5	
ACM/Fixed	132 Mbps	173 Mbps	85xDS1	512QAM	99.0		92.0	88.0	88.5	
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	1024QAM	94.0		87.5	83.5	84.0	
ACM/Fixed	162 Mbps	212 Mbps	104xDS1	2048QAM	90.5		84.5	81.0	81.0	
ACM/Fixed	176 Mbps	231 Mbps	113xDS1	4096QAM	85.5		79.5	76.0		
25 MHz Channel										
ACM/Fixed	33 Mbps	43 Mbps	20xDS1	QPSK		117.0				
ACM/Fixed	75 Mbps	98 Mbps	48xDS1	16QAM		108.0				
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	32QAM		104.0				
ACM/Fixed	111 Mbps	145 Mbps	71xDS1	64QAM		101.5				
ACM/Fixed	130 Mbps	170 Mbps	83xDS1	128QAM		99.0				
ACM/Fixed	150 Mbps	197 Mbps	96xDS1	256QAM		94.5				
ACM/Fixed	167 Mbps	219 Mbps	107xDS1	512QAM		90.5				
ACM/Fixed	189 Mbps	249 Mbps	121xDS1	1024QAM		86.0				
ACM/Fixed	205 Mbps	268 Mbps	127xDS1	2048QAM		83.0				
ACM/Fixed	222 Mbps	291 Mbps	127xDS1	4096QAM		78.0				

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6,^[7] in dB (Typical)

	Air Link Capacity	Max Ethernet ^[4]	Max DS1s ^[5]	Modulation	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	38 GHz
30 MHz Channel										
ACM/Fixed	39 Mbps	51 Mbps	25xDS1	QPSK	119.5		116.5	112.5	113.0	108.5
ACM/Fixed	90 Mbps	118 Mbps	57xDS1	16QAM	111.5		107.5	103.5	104.0	99.0
ACM/Fixed	109 Mbps	143 Mbps	70xDS1	32QAM	108.5		104.0	100.0	100.5	96.0
ACM/Fixed	132 Mbps	174 Mbps	84xDS1	64QAM	106.0		101.5	97.5	98.0	93.5
ACM/Fixed	155 Mbps	204 Mbps	100xDS1	128QAM	103.5		98.5	94.5	95.0	90.5
ACM/Fixed	180 Mbps	237 Mbps	116xDS1	256QAM	100.0		94.5	90.5	91.0	86.5
ACM/Fixed	200 Mbps	263 Mbps	127xDS1	512QAM	97.0		90.5	86.5	87.0	83.5
ACM/Fixed	227 Mbps	298 Mbps	127xDS1	1024QAM	92.5		86.0	82.0	82.5	78.5
ACM/Fixed	245 Mbps	322 Mbps	127xDS1	2048QAM	88.5		82.5	79.0	79.0	75.0
ACM/Fixed	267 Mbps	350 Mbps	127xDS1	4096QAM	83.5		77.5	74.0		
40 MHz Channel										
ACM/Fixed	52 Mbps	69 Mbps	33xDS1	QPSK	118.0		115.0	111.0	111.5	107.5
ACM/Fixed	121 Mbps	158 Mbps	77xDS1	16QAM	110.0		106.0	102.0	102.5	97.5
ACM/Fixed	146 Mbps	191 Mbps	93xDS1	32QAM	107.0		102.5	98.5	99.0	94.5
ACM/Fixed	178 Mbps	234 Mbps	113xDS1	64QAM	105.0		100.0	96.0	96.5	92.0
ACM/Fixed	207 Mbps	272 Mbps	127xDS1	128QAM	102.0		97.5	93.5	94.0	89.0
ACM/Fixed	237 Mbps	311 Mbps	127xDS1	256QAM	99.0		93.0	89.0	89.5	85.5
ACM/Fixed	268 Mbps	351 Mbps	127xDS1	512QAM	96.0		89.0	85.0	85.5	82.0
ACM/Fixed	300 Mbps	394 Mbps	127xDS1	1024QAM	91.5		85.0	81.0	81.5	77.5
ACM/Fixed	329 Mbps	432 Mbps	127xDS1	2048QAM	87.5		81.5	78.0	78.0	73.5
ACM/Fixed	358 Mbps	469 Mbps	127xDS1	4096QAM	82.5		76.5	73.0		
50 MHz Channel										
ACM/Fixed	65 Mbps	86 Mbps	42xDS1	QPSK		113.5	114.0	110.0	110.5	106.5
ACM/Fixed	140 Mbps	184 Mbps	89xDS1	16QAM		105.5	106.0	102.0	102.5	97.5
ACM/Fixed	183 Mbps	240 Mbps	117xDS1	32QAM		100.5	101.0	97.0	97.5	93.5
ACM/Fixed	220 Mbps	288 Mbps	127xDS1	64QAM		98.5	99.0	95.0	95.5	91.5
ACM/Fixed	252 Mbps	330 Mbps	127xDS1	128QAM		96.5	97.0	93.0	93.5	88.5
ACM/Fixed	308 Mbps	404 Mbps	127xDS1	256QAM		91.0	91.5	87.5	88.0	83.5
ACM/Fixed	338 Mbps	444 Mbps	127xDS1	512QAM		87.0	87.5	83.5	84.0	81.0
ACM/Fixed	382 Mbps	501 Mbps	127xDS1	1024QAM		83.0	83.5	79.5	80.0	76.0
ACM/Fixed	410 Mbps	538 Mbps	127xDS1	2048QAM		80.0	80.5	77.0	77.0	72.5
ACM/Fixed	446 Mbps	586 Mbps	127xDS1	4096QAM		75.0	75.5	72.0		
80 MHz Channel										
ACM/Fixed	105 Mbps	138 Mbps	66xDS1	QPSK	114.5			108.0		
ACM/Fixed	241 Mbps	316 Mbps	127xDS1	16QAM	106.5			99.0		
ACM/Fixed	302 Mbps	397 Mbps	127xDS1	32QAM	103.0			94.5		
ACM/Fixed	352 Mbps	462 Mbps	127xDS1	64QAM	101.5			93.0		
ACM/Fixed	403 Mbps	530 Mbps	127xDS1	128QAM	99.5			90.5		
ACM/Fixed	470 Mbps	617 Mbps	127xDS1	256QAM	96.0			86.0		
ACM/Fixed	543 Mbps	712 Mbps	127xDS1	512QAM	92.0			81.5		
ACM/Fixed	612 Mbps	804 Mbps	127xDS1	1024QAM	87.5			77.0		
ACM/Fixed	658 Mbps	864 Mbps	127xDS1	2048QAM	84.0			74.5		
ACM/Fixed	716 Mbps	940 Mbps	127xDS1	4096QAM	79.0			69.5		

*[] See notes in last page

For Guaranteed values (over time and operational range) subtract 2 dB from Power Output, add 2dB to Threshold values and subtract 4 dB from System Gain values, up to and including 23GHz. For 38GHz, subtract 2.5 dB from Power Output, add 2.5dB to Threshold values and subtract 5 dB from System Gain values.

All threshold specifications are referenced to the ODU antenna flange.

[1] Dimensions Exclude ODU handle.

[2] ATCP is recommended for operation at Extended temperature ranges. Contact Aviat Networks for more details.

[3] RSSI accuracy applies when there is no potential interferer signal present within +/- 28MHz of the Rx. Frequency.

[4] 64 byte frames, physical layer, with DAC GE3.

[5] L1 throughput will vary based on average packet sizes. Enabling TDM transport will subtract equivalent capacity from available Ethernet throughput.

[6] The 10 MHz Channel capacity is used for 12.5 MHz Channel capacity in the FCC 7 GHz and 13 GHz bands.

[7] Rx Threshold values indicated are typically improved by 0.5 dB for BER=10⁻³.

[8] High Power FPM option shown. For standard power subtract 3 dB.

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are typical values unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks and the Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc.

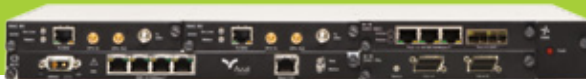
_d(lf)_Eclipse_ODU600v2_RAC70_ANSI_11-5-2019-a15a24c





ECLIPSE PACKET NODE INTELLIGENT NODE UNIT

The Eclipse™ Packet Node Intelligent Node Unit is a highly modular and scalable indoor unit that delivers a unique combination of high capacity hybrid or all-packet transport, Carrier Ethernet/IP networking, and comprehensive Mission Critical Microwave features, enabling operators to prepare for the all-IP future.



PROTECT YOUR INVESTMENT

A highly modular architecture provides maximum protection of your investment. As your network and traffic requirements change over time, modules can be easily added to support additional radio directions or to change the traffic mix to facilitate the smooth migration from legacy TDM to advanced Carrier Ethernet/IP.

HIGHEST NODAL DENSITY

The Eclipse Packet Node INU comes in two platform options, a 1RU INU or a 2RU INUe which supports the highest nodal density in the smallest form factor, enabling the compact aggregation nodes that support up to 5 Gbit/s of packet handling capacity.

HIGH SPEED PACKET TRANSPORT

Eclipse Packet Node represents the very latest generation of microwave transmission, with a combination of advanced features to enable link speeds up to 2.8 Gbit/s from a single compact and modular unit.

MAXIMIZING FREQUENCY EFFICIENCY AND UTILIZATION

Adaptive Coding and Modulation, co-channel operation with XPIC, and optimized packet transmission drives more throughput than ever before, while also preserving valuable frequency resources.

ADVANCED CARRIER ETHERNET/IP INTELLIGENCE

A carrier-grade Ethernet switch provides traffic classification into 8 priority queues, QoS traffic priority assignment, VLAN support, Ethernet Optimization for improved throughput, and packet synchronization features.

MISSION CRITICAL FEATURES

Eclipse supports Mission Critical Microwave applications through a fully redundant architecture, native support for legacy TDM and new Ethernet/IP traffic for maximum efficiency and lowest latency, and exceptional security through integrated payload encryption and secure management options.

KEY FEATURES

- Compact 1RU (INU) and 2RU (INUe) shelf options, supporting 3x IF connected or 12 Ethernet connected RF units per rack unit
- FIPS 140-2 Level 2 validated; FIPS 197 validated
- Selection of hot swappable interface card options, including NxDS1, NxDS3, NxOC3, NxFE and NxGigE
- Hybrid native-TDM plus native-Ethernet/IP, or all-Ethernet/IP, transport
- Compact, modular design enabling simple expansion and upgrades
- High throughput, exceeding 460 Mbit/s per RF channel.
- Co-channel operation with optional XPIC to double frequency channel capacity
- QPSK to 256QAM, with hitless Adaptive Coding and Modulation (ACM) options
- Carrier Ethernet features, including Sync-E (G.8262), VLANs, and Ethernet OAM
- High density Ethernet interface capability with 6x Gigabit Ethernet ports per module
- Protected Configurations include Monitored Hot Standby, Frequency and Space Diversity, and 2+0 with L1 Link aggregation
- Fully protected traffic ports: electrical and optical Ethernet, and electrical T1 interfaces
- Integrated T1 Loop Switch
- Embedded Strong Security, featuring Payload Encryption, Secure Management and RADIUS client support
- Management support by Provision NMS and Eclipse Portal
- RoHS and WEEE compliant



TM: A Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.

ANSI DATASHEET

AVIAT ECLIPSE

SYSTEM PARAMETERS

GENERAL		PER LINK	PER NODE
Throughput/Capacity Range	Native Carrier Ethernet/IP ⁽¹⁾	11 - 462 Mbit/s	2.77 Gbit/s
	Native TDM	7 - 127x DS1	127x DS1
		1, 3, 4x DS3	6x DS3
		1, 2x OC-3	2x OC3
Fixed Modulation Options	Fixed		QPSK, 16, 32, 64, 128, 256 QAM
Adaptive Coding and Modulation	Modulation Options		QPSK, 16, 64, 256 QAM
	Coding Options		Max Throughput, Max System Gain
Co-Channel Operation with XPIC	Optional		>20dB XPOL improvement
Adaptive Equalization			24 tap T/2 spaced feed-forward filter
ETHERNET SPECIFICATIONS			
Ethernet Standards Compliance	Ethernet		IEEE 802.3
User Ports, per Data Access Card (DAC)			3x 10/100/1000BaseT, 2x SFP Optical or Electrical
Networking Protocols			IPv4 and IPv6
Switch Capacity			5x 1Gbit/s user ports + 6x backplane ports
Maximum Frame Size			10000 bytes bi-directional
Throughput Acceleration (Frame Size Dependent)			IFG & Preamble Suppression
Traffic Prioritization			Per port based prioritization
VLAN Support			IEEE 802.1Q, 802.1ad (Q-in-Q)
Flow Control			IEEE 802.3x
Link Aggregation			802.1AX LAG L1LA (proprietary)
OAM			IEEE 802.1ag / ITU-T Y.1731
Monitoring	Port and Channel Status		Performance Graphs, RMON-1, Port and Channel
TDM SPECIFICATIONS			
Interfaces per Data Access Card (DAC)	NxDS1		1 to 16x 1.544 Mbit/s (DS1)
(Multiple DACs of the same or different kind can be used per shelf)	NxDS3		1 to 3x 44.736 Mbit/s (DS3)
	DS3 Mux		2x DS3 to 2x28x DS1 Mux, channelized
	NxOC3	Optical or Electrical	1 or 2x 155.52 Mbit/s (OC3)
	OC3 Mux		1x OC3 to 84x DS1 Mux
Standards Compliance	DS1, DS3		ITU-T Rec. G.703, G.823
	OC3, Electrical / Optical		ITU-T Rec. G.703, G.825 / ITU-T Rec. G.957, G.825
PROTECTION			
Link Protection options			Hot-Standby, Space or Freq Diversity
Ring/Network Protection options			Resilient Wireless Packet Ring (RWPRTM), IEEE 802.1w RSTP ITU-T G.8032 ERP
User Line Interface Protection			1+1: Ethernet, OC3, DS3, DS1
SECURITY COMPLIANCE			
Security and Encryption			Optional FIPS 197 validated, 128/256-bit AES encryption Optional FIPS 140-2 Level 2 validated
SYNCHRONIZATION			
Synchronization Options			Synchronous Ethernet (G.8262) IEEE 1588v2 frames passed transparently DS1 Line clock
STANDARDS COMPLIANCE			
EMC			FCC CFR 47, Part 15
Operation			EN 300 019, Class 3.1E
Safety			UL 60950-1
NEBS			GR-1089-CORE, GR-63-CORE
Electric power substations			IEEE 1613
MECHANICAL, ENVIRONMENTAL			
Plug-in card slots			INU: 4; INUe: 10
Rack Height			INU: 1RU; INUe: 2RU
Operating Temperature	Guaranteed		-5° to +55° C (23° to +131° F)
Humidity	Guaranteed		0 to 95%, non-condensing
FAULT AND CONFIGURATION MANAGEMENT			
Secure Management	Encryption		AES-128/256, DES, 3DES
Local/remote Configuration Tool			Eclipse Portal
Network Management			Aviat Networks ProVision™

All specifications are typical values unless otherwise stated, and are subject to change without notice.

[1] Maximum Ethernet Throughput is for one 80MHz RF channel, single polarization, for 64 byte frame sizes. Corresponding Airlink base capacity is 366 Mbit/s.

WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks, and Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc.
© Aviat Networks, Inc. (2011-2016) All Rights Reserved. Data subject to change without notice. _d[sf]_EclipsePN_ANSI_14JUL2016





Technical Specifications

Eclipse Packet Node INU/INUe

ANSI



TM: A CERTIFICATION MARK OF NIST, WHICH DOES NOT IMPLY PRODUCT ENDORSEMENT BY NIST, THE U.S. OR CANADIAN GOVERNMENTS.

System Parameters

General				
Throughput/Capacity Range	<i>Native Carrier Ethernet/IP [1]</i>	<i>Per Link</i>		<i>Per Node</i>
		<i>Native TDM</i>		
		11 - 462 Mbit/s		2.77 Gbit/s
		7 - 127x DS1		127x DS1
		1, 3, 4x DS3		6x DS3
		2x OC3		2x OC3
Fixed Modulation Options	<i>Fixed</i>	QPSK, 16, 32, 64, 128, 256 QAM		
Adaptive Coding and Modulation	<i>Modulation Options</i>	QPSK, 16, 64, 256 QAM		
	<i>Coding Options</i>	Max Throughput, Max System Gain		
Co-Channel Operation with XPIC	<i>Optional</i>	>20dB XPOL improvement		
Error Correction		LDPC		
Adaptive Equalization		24 tap T/2 spaced feed-forward filter		
Standards Compliance				
EMC		FCC CFR 47, Part 15		
Operation		EN 300 019, Class 3.1E		
Storage		EN 300 019, Class 1.2		
Transportation		EN 300 019, Class 2.3		
Safety		UL 60950-1		
NEBS		GR-1089-CORE, GR-63-CORE		
Electric Power Substations		IEEE 1613		
Security				
Payload Encryption	<i>Compliance</i>	FIPS 197 validated		
	<i>Cryptography Support Key</i>	AES-CCM (RFC-3610) Cipher suite 128-, 192-, or 256-bit symmetric key Diffie-Hellman Key agreement method (RFC-2631)		
Management Encryption	<i>Compliance</i>	FIPS 140-2 Level 2 validated (Certificate #2206)		
Environmental				
Operating Temperature	<i>Guaranteed</i>	-5° to +55° C (23° to +131° F)		
Humidity	<i>Guaranteed</i>	0 to 95%, non-condensing		
Altitude	<i>Guaranteed</i>	4,500 meters (15,000 ft)		
Fault and Configuration Management				
Protocol		SNMP v2c (standard), v3 (optional)		
Secure Management Features	<i>Encryption</i>	AES-128, -196 or -256		
	<i>Validated Algorithms</i>	FIPS 140-2		
	<i>Key and Certificate Management</i>	ITU-T X.509		
	<i>Centralized User Accounts</i>	RADIUS Protocol (RFC-2865)		
Local/remote Configuration Tool		Eclipse Portal		
Element/Network Management		Aviat Networks ProVision™		

All specifications are typical values unless otherwise stated, and are subject to change without notice.

[1] Maximum Ethernet Throughput figures are L1 throughput based upon 64 byte frames, and will vary depending upon actual mix of traffic frame sizes.

System Parameters (cont.)

Emission Designator

Emission Designator	3.75MHz	5MHz	10MHz	20MHz	30MHz	40MHz	50MHz
QPSK	N/A	5M00G7W	10M0G7W	20M0G7W	30M0G7W	40M0G7W	50M0G7W
QAM	3M75D7W	5M00D7W	10M0D7W	20M0D7W	30M0D7W	40M0D7W	50M0D7W

Dispersive Fade Margin (DFM), typical

Capacity	Channel BW	Modulation	Symbol Rate (Mbaud)	Gross Bit Rate (Mbit/s)	DFM (dB)
12 Mbit/s	3.75 MHz	32 QAM	2.87	14	79
25 Mbit/s	5 MHz	128 QAM	3.98	28	67
11-13 Mbit/s	10 MHz	QPSK	8.4	17	66
23-27 Mbit/s	10 MHz	16 QAM	8.4	34	62
39-45 Mbit/s	10 MHz	64 QAM	8.4	50	62
50 Mbit/s	10 MHz	128 QAM	8.4	59	61
55-59 Mbit/s	10 MHz	256 QAM	8.4	67	61
24-28 Mbit/s	20 MHz	QPSK	17.1	34	66
48-57 Mbit/s	20 MHz	16 QAM	17.1	68	59
81-89 Mbit/s	20 MHz	64 QAM	17.1	103	57
114-122 Mbit/s	20 MHz	256 QAM	17.1	137	53
24-28 Mbit/s	30 MHz	QPSK	25.9	52	66
48-57 Mbit/s	30 MHz	16 QAM	25.9	104	59
81-89 Mbit/s	30 MHz	64 QAM	25.9	155	53
157 Mbit/s	30 MHz	128 QAM	25.9	181	50
178-189 Mbit/s	30 MHz	256 QAM	25.9	207	47
50-59 Mbit/s	40 MHz	QPSK	34.7	69	65
101-118 Mbit/s	40 MHz	16 QAM	34.7	139	58
135 Mbit/s	40 MHz	32 QAM	34.7	173	52
156-187 Mbit/s	40 MHz	64 QAM	34.7	208	51
238-255 Mbit/s	40 MHz	256 QAM	34.7	277	45
63-74 Mbit/s	50 MHz	QPSK	43.3	87	64
127-145 Mbit/s	50 MHz	16 QAM	43.3	173	55
212-243 Mbit/s	50 MHz	64 QAM	43.3	260	47
297-318 Mbit/s	50 MHz	256 QAM	43.3	346	38
72-85 Mbit/s	80 MHz	QPSK	49.6	99	54
145-170 Mbit/s	80 MHz	16 QAM	49.6	199	50
243-267 Mbit/s	80 MHz	64 QAM	49.6	298	44
318-365 Mbit/s	80 MHz	256 QAM	49.6	397	37

All specifications are typical values unless otherwise stated, and are subject to change without notice.

Intelligent Node Unit (INU) Common Units

IDC, Indoor Chassis 1RU

Dedicated plug-in card slots		2 (NCC, FAN)
Universal plug-in card slots		4
Maximum number of ODUs supported		3
Dimensions (including mounting brackets)	44mm (1RU) x 482mm (19in) x 282.5mm (11.1in)	
Weight	<i>Empty</i>	2.6 kg (5.8 lb)

IDCe, Extended Indoor Chassis 2RU

Dedicated plug-in card slots		3 (NCC, NPC, 2RU FAN)
Universal plug-in card slots		9
Maximum number of ODUs supported		6
Dimensions (including mounting brackets)	88mm (2RU) x 482mm (19in) x 282.5mm (11.1in)	
Weight	<i>Empty</i>	4.8 kg (10.6 lb)

NCC, Node Controller Card

NMS LAN interface	<i>Type</i>	4-port 10/100Base-T Hub
	<i>Connector</i>	4x 8-pin RJ-45
Serial Maintenance Interface	<i>Standard</i>	Complies to TIA/EIA-561
	<i>Speed</i>	1200 bps to 115.2 kbps
	<i>Connector</i>	8-pin RJ-45
Configuration memory, removable		512 Mbyte CompactFlash card (on-board)
Electrical	<i>DC Supply input range</i>	-40.5 to -60 VDC
	<i>DC Fuse type and rating</i>	25A fast-acting ceramic body cartridge
	<i>Over voltage protection</i>	< -70 VDC
	<i>Under voltage protection</i>	-32 VDC
	<i>DC connector</i>	2-pin DSUB power type
Power consumption		11 W
LED Indicators		2x Tri-state ('Test', 'Status')
Dimensions (including front panel and rear connector)	22mm (0.5RU) x 260mm (10.2in) x 268mm (10.6in)	
Weight		0.6 kg (1.35 lb)

NPC, Node Protection Card

Electrical	<i>DC Supply input range</i>	-40.5 to -60 VDC
	<i>DC Fuse type and rating</i>	25A fast-acting ceramic body cartridge
	<i>Over voltage protection</i>	< -70 VDC
	<i>Under voltage protection</i>	-32 VDC
	<i>DC connector type</i>	2-pin DSUB power type
Power consumption		8 W
LED Indicators		2x Tri-state ('Protect', 'Status')
Dimensions (including front panel and rear connector)	22mm (0.5RU) x 130mm (5.1in) x 268mm (10.6in)	
Weight		0.4 kg (0.88 lb)

FAN, Fan Card 1RU

Fans		2
LED Indicators		1x Red LED ('Fault')
Power consumption		1 W
Dimensions (including front panel and rear connector)	44mm (1RU) x 40mm (1.6in) x 264mm (10.4in)	
Weight		0.23 kg (0.5 lb)

Intelligent Node Unit (INU) Common Units (cont.)

FAN, Fan Card 2RU

Fans		2
LED Indicators		1x Red LED ('Fault')
Power consumption		2 W
Weight		0.46 kg (1.0 lb)

AUX, Auxiliary Services Card

Aux Data Channels		3
Interface		RS232 or RS422
Line Rate	<i>Asynchronous</i>	1.2 to 19.2 kbit/s
	<i>Synchronous</i>	64 kbit/s
Aux Data Connector		High Density DSUB26
External Alarm Inputs	<i>TTL Inputs</i>	Up to 6 ^[1]
	<i>TTL input thresholds</i>	0.8V max low, 2.0V min high
External Alarm Outputs	<i>Form C Relays</i>	Up to 4 ^[1]
Alarms Connector		High Density DSUB15
LED Indicators		1x Tri-state ('Status')
Power consumption		1 W
Dimensions (including front panel and rear connector)	22mm (0.5RU) x 130mm (5.1in) x 268mm (10.6in)	
Weight		0.35 kg (0.77 lb)

All specifications are typical values unless otherwise stated, and are subject to change without notice.

[1] For applications requiring additional alarm inputs or outputs, multiple AUX cards can be installed if free INU/INUe slots are available.

Radio Access Cards (RAC)

General		
IF connector		SMA ^[1]
IF interface	<i>Transmit</i>	311 MHz, -8.0 to -12.0 dBm
	<i>Receive</i>	126 MHz, -8 to -27 dBm
LED Indicators		2x Tri-state ('Online', 'Status')
Dimensions (including front panel and rear connector)		22mm (0.5RU) x 130mm (5.1in) x 268mm (10.6in)
Weight		< 0.38 kg (0.84 lb)
Secondary Lightning protection		Gas tube, 150 V
RAC 60E/RAC 6XE		
Data Packet Plane (DPP)	<i>Interfaces, electrical</i>	1x 1000Base-T
	<i>Connector</i>	RJ-45
RFUs supported		IRU600, ODU600, ODU300hp, ODU300ep
Capacities supported		Ethernet to 462 Mbit/s ^[2] , 8-127x DS1, 1-4x DS3, 1-2x OC3
Modulations supported	<i>Fixed Modulation</i>	QPSK, 16, 32, 64, 128, 256QAM
Adaptive Coding and Modulation	<i>Modulation Options</i>	QPSK, 16, 64, 256 QAM
	<i>Coding Options</i>	Max Throughput, Max System Gain
XPD Improvement	<i>RAC 6XE only</i>	20 dB
XPIC connectors	<i>RAC 6XE only</i>	2x SMB
Power consumption	<i>RAC 60E / RAC 6XE</i>	13 W/ 19 W

All specifications are typical values unless otherwise stated, and are subject to change without notice.

[1] RAC Installation Kit includes 3 meter jumper cable, SMA to N-type.

[2] Maximum Ethernet Throughput figures are L1 based upon 64 byte frames, and will vary depending upon actual mix of traffic frame sizes.

Data Access Cards (DAC) - Ethernet

General		
LED Indicators		2x Tri-state ('Online', 'Status') RJ-45 Ethernet Interface ("Link Status", "Activity")
Power Consumption (nominal)		4 W (DAC GE), 13 W (DAC GE3)
Dimensions (including front panel and rear connector)		22mm (0.5RU) x 130mm (5.1in) x 268mm (10.6in)
Weight (nominal)		< 0.34 kg (0.74 lb)
DAC GE3 - Carrier Ethernet/IP		
Ethernet Standards Compliance	<i>Ethernet Networking Protocols</i>	IEEE 802.3 IPv4 and IPv6
		<i>DAC GE3</i>
Backplane Throughput Maximum		200 Mbit/s
Packet Plane Throughput Maximum		2 Gbit/s
Switch Capacity		5x 1 Gbit/s user ports + 6x channels
User Ports	<i>RJ-45</i> <i>SFP</i> <i>Optical SFP Options</i> <i>1550 nm single mode</i> <i>1310 nm single mode</i> <i>850 nm multimode</i> <i>Electrical SFP Options</i>	3x 10/100/1000Base-T 2x Optical LC or Electrical RJ-45 1000Base-ZX 1000Base-LX 1000Base-SX 10/100/1000Base-T 1000Base-T
Backplane Ports (Channels)		6
Burst and Frame Handling (Typical)	<i>Buffer Size Per Port</i> <i>Max Frame Size</i>	Configurable up to 1.28 Mbytes ^[1] 10000 bytes bi-directional
Throughput Acceleration	<i>IFG & Preamble Suppression</i>	Yes Frame Size Dependent
MAC address register		16000 entries
QoS	<i>Port Based Prioritization</i> <i>IEEE 802.1p QoS/CoS Bits</i> <i>DSCP</i> <i>MPLS EXP bits</i> <i>Remarking</i> <i>Transmission Queues</i> <i>Scheduling</i>	Yes Yes IPv6/IPv4 Yes MPLS Exp and DSCP to 802.1p 8 Strict, DWRR or Strict+DWRR (flexible per port)
VLANs	<i>VLAN Tagging</i> <i>Q-in-Q (Provider Bridging)</i> <i>VLAN Translation</i>	IEEE 802.1Q IEEE 802.1ad Yes
Congestion Management	<i>Flow Control</i> <i>Ingress Policing</i> <i>Broadcast/Multicast Storm Protection</i>	IEEE 802.3x TrTCM (per port and per flow) CIR, EIR, CBS, EBS Yes

Data Access Cards (DAC) - Ethernet (cont.)

DAC GE3 - Carrier Ethernet/IP - cont.		
Redundancy	<i>1+1 Card Protection</i>	Yes
	<i>Link Status Propagation</i>	Yes
Synchronization	<i>Synchronous Ethernet</i>	ITU-T G.8262
	<i>ESMC/SSM</i>	ITU-T G.8264
	<i>Internal Reference</i>	Built-in Stratum 3 clock
Link Aggregation	<i>L1LA (Layer 1)</i>	DPP ports
		Fixed or adaptive modulation
	<i>LAG (Layer 2)</i>	IEEE 802.1AX static or LACP
		Layer 2-4 hashing User ports, DPP ports, and channels (LACP on user ports only)
		Fixed modulation
Ring Protection	<i>RSTP</i>	IEEE 802.1w
	<i>ERP</i>	ITU-T G.8032v2
Ethernet OAM	<i>IEEE 802.1ag/ITU-T Y.1731 CFM</i>	ETH-CC, ETH-LB, ETH-LT, ETH-RDI, ETH-AIS
	<i>ITU-T Y.1731 PM</i>	ETH-LM, ETH-DM and ETH-DVM
Monitoring	<i>Port and Channel Status</i>	Yes
	<i>Performance Graphs</i>	Yes
	<i>Per-Queue Performance Statistics</i>	Yes
	<i>RMON-1</i>	Ports and Channels
Diagnostics	<i>Port Shutdown</i>	Yes
	<i>Port Mirror</i>	Yes

All specifications are typical values unless otherwise stated, and are subject to change without notice.

[1] Dependent upon configuration settings and number of active interfaces.

Data Access Cards (DAC) - TDM

General			
Power consumption (nominal)			Max 4 W
Dimensions (including front panel and rear connector)			22mm (0.5RU) x 130mm (5.1in) x 268mm (10.6in)
Weight (nominal)			< 0.34 kg (0.74 lb)
DAC 4x, DAC 16x v2 - TDM (NxDS1)			
LED Indicators			1x Tri-state: 'Status'
Interface, configurable	<i>DAC 4x</i>	<i>Electrical</i>	1 to 4x 1.544 Mbit/s (DS1)
	<i>DAC 16x v2</i>	<i>Electrical</i>	1 to 16x 1.544 Mbit/s (DS1)
Electrical interface parameters	<i>Standards Compliance</i>	<i>DS1</i>	Compliant to ITU-T Rec. G.703, G.824
	<i>Line code</i>	<i>DS1</i>	AMI or B8ZS, selectable per Tributary
	<i>Connectors</i>	<i>DAC 4x</i>	4x RJ-45
		<i>DAC 16x v2</i>	2x 50-pin HDR
	<i>Impedance</i>	<i>DS1</i>	100Ω balanced
Redundancy			Hot-standby tributary protection (DAC 16x v2 only)
Ethernet over unframed DS1			1.5 Mbit/s per trib; 24 Mbit/s per DAC (DAC 16x v2 only)
DAC 3xDS3M - TDM (NxDS3)			
LED Indicators			2x Tri-state: 'Online', 'Status'
Interface			1 to 3x 44.736 Mbit/s (DS3)
Functionality			2x DS3 (Interface) to 2x28x DS1 (TDM Bus) Mux, channelized; M13 3x DS3 (Interface) to 3x DS3 (TDM Bus) Transparent Ethernet over unframed DS3: 43 Mbit/s per DS3; 129 Mbit/s per DAC
Electrical interface parameters	<i>Standards Compliance</i>		Compliant to ITU-T Rec. G.703, G.824
	<i>Line code</i>		B3ZS
	<i>Connectors</i>		Slimline BNC
	<i>Impedance</i>		75Ω unbalanced
Redundancy			Hot-standby tributary protection
DAC 155o, 2x155o, 2x155e - SONET (1x/2xOC3/STS3)			
LED Indicators			1x Tri-state: 'Status'
Interface, configurable	<i>DAC 155o</i>	<i>Optical</i>	1x 155.52 Mbit/s (OC3)
	<i>DAC 2x155o</i>	<i>Optical</i>	1 or 2x 155.52 Mbit/s (OC3)
	<i>DAC 2x155e</i>	<i>Electrical</i>	1 or 2x 155.52 Mbit/s (STS3)
Electrical interface parameters	<i>Standards Compliance</i>		Compliant to ITU-T Rec. G.703, G.825
	<i>Line code</i>		G703/CMI
	<i>Connectors</i>		BNC
	<i>Impedance</i>		75Ω unbalanced
Optical interface parameters	<i>Standards Compliance</i>		Compliant to ITU-T Rec. G.957, G.825
	<i>Optical interface</i>		Short Range S-1.1
	<i>Connectors</i>		SC
	<i>Tx Output Center Wavelength</i>		1310 nm
	<i>Tx Average Optical Output Power</i>		-15 to -8 dBm
	<i>Rx Sensitivity</i>		-31 dBm
	<i>Rx Input Power Saturation</i>		-7 dBm
Redundancy			Hot-standby tributary protection

All specifications are typical values unless otherwise stated, and are subject to change without notice.



Data Access Cards (DAC) - TDM (cont.)

DAC 155oM/DAC 155eM SONET Multiplexer (1xOC3/STS3)			
LED Indicators	2x Tri-state: 'Online', 'Status'		
Functionality	1x OC3/STS3 (Interface) to 84x DS1 (TDM Bus) Mux		
DAC 155eM Electrical interface	Electrical SFP - Coaxial DIN 1.0/2.3 75 Ohm		
DAC 155oM Optical interface	Optical SFP - LC		
	<i>Single Mode Long Range L1.1</i>	<i>Single Mode Short Range S1.1</i>	<i>Multi Mode</i>
<i>Tx Output Center Wavelength</i>	1310 nm	1310 nm	850 nm
<i>Tx Average Optical Output Power</i>	-5 to 0 dBm	-15 to -8 dBm	-10 to -4 dBm
<i>Rx Sensitivity</i>	-35 dBm	-34 dBm	-24 dBm
<i>Rx Input Power Saturation</i>	0 dBm	0 dBm	0 dBm
Timing modes, configurable	Recovered Clock Local Reference Clock (XO)		

All specifications are typical values unless otherwise stated, and are subject to change without notice.

NCM Network Capabilities Module			
Interface Configurable	<i>Electrical</i>	1 to 8x 1.544 Mbit/s (DS1)	
Electrical Interface Parameters	<i>Standards Compliance</i>	<i>DS1</i>	Compliant to ITU-T G.703, G.823
	<i>Line Code</i>	<i>DS1</i>	AMI or B8ZS, selectable per tributary
	<i>Framing</i>	<i>DS1</i>	Framed or Un-framed
	<i>Connectors</i>	<i>DS1</i>	50 pin HDR
		<i>Electrical</i>	RJ45 (not used for loopswitch option)
	<i>Impedance</i>	<i>DS1</i>	100 ohm balanced
Operational Mode	<i>Low latency non hitless</i>	Typ <5mS (20mS Max)	
	<i>Drops per INUe</i>	Maximum 63 DS1	
	<i>Maximum Circuits per Loop</i>	Maximum 63 DS1	
	<i>Links established over RAC or DAC Modules</i>	Including DAC DS3M, DAC 155oM/eM	
Protection	<i>1+1 Protection</i>	Requires 2 x NCM	

WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks and the Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc.
Eclipse is a trademark of Aviat U.S. Inc.

©Aviat Networks, Inc. 2014 All Rights Reserved. Data subject to change. _d(lf)_Eclipse_PN_ANSI_16JSept14



PROVISION® ELEMENT MANAGEMENT SYSTEM

SUPPORT FOR ALL NETWORK EQUIPMENT TYPES

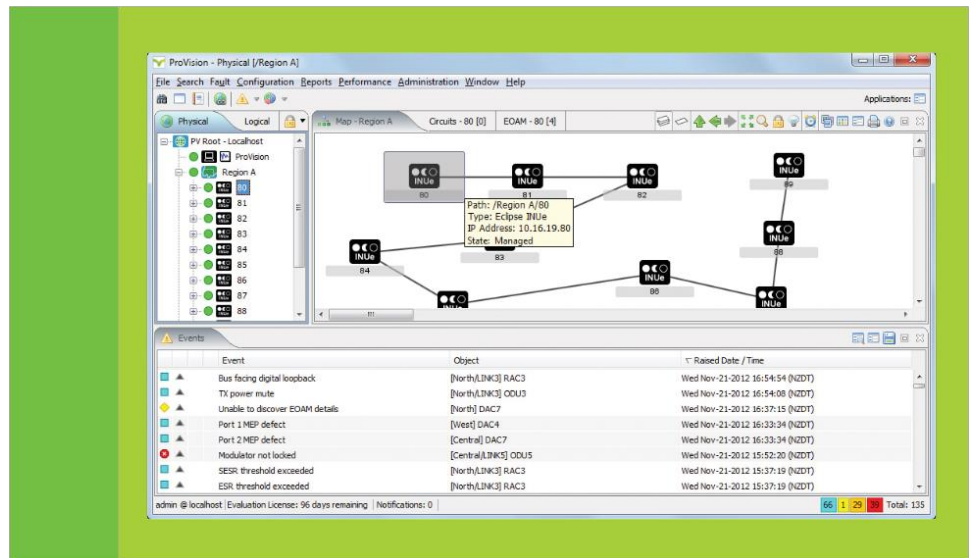


ProVision provides the following Aviat Networks and third-party device support:

- CTR 8540/8300 microwave router platform
- Eclipse and Eclipse Packet Node Platform
- Aviat WTM series of all-indoor and all-outdoor microwave systems
- All Aviat current, legacy, and future devices
- Generic Device Support fault management for a wide range of third-party SNMP devices; 50+ third-party device packages currently available
- Application Integration including craft tools, PCR collector, PCR viewer, MSUU.

NETWORK INTELLIGENCE

The ProVision Element Management System delivers superior wireless networking intelligence by offering a unique feature set, based on industry standards, designed to support the increasing demands of growing networks. By leveraging Aviat Networks' innovative microwave systems, ProVision maximizes network availability and throughput while significantly reducing OPEX.



Designed with the user in mind, ProVision is intuitive and adaptable for a wide range of activities that users can customize to match their network requirements. In addition, ProVision automates time consuming and error prone processes, such as the provisioning of end-to-end TDM and Ethernet services, bulk upgrading network firmware, and diagnosing network clock distribution problems.

With the ability to provide network management across Aviat's complete product portfolio, including many key partner products, ProVision delivers an efficient, seamless end-to-end network management solution for TDM, Ethernet, and hybrid microwave networks.

SMOOTH TRANSITION TO ALL-IP

Transitioning networks from legacy TDM to all-IP takes time and money, as well as risk of network interruptions. ProVision smooths the process by harmonizing microwave, TDM and Ethernet network operations with common concepts and features, a shared operator experience, and automation of complex processes.

Advanced Carrier Ethernet capabilities spanning Synchronization, Ethernet OAM, ERPS, EVC/VLAN and protection/diversity technologies include discovery of network and service resources, end-to-end visualizations, and automated provisioning. Collectively they remove significant complexity, deliver faster rollout with fewer mistakes, assure service availability and quality, providing confidence in transitioning from TDM, hybrid, to All-IP networks.

DEPLOYMENT PROFICIENCY THROUGH AUTOMATION

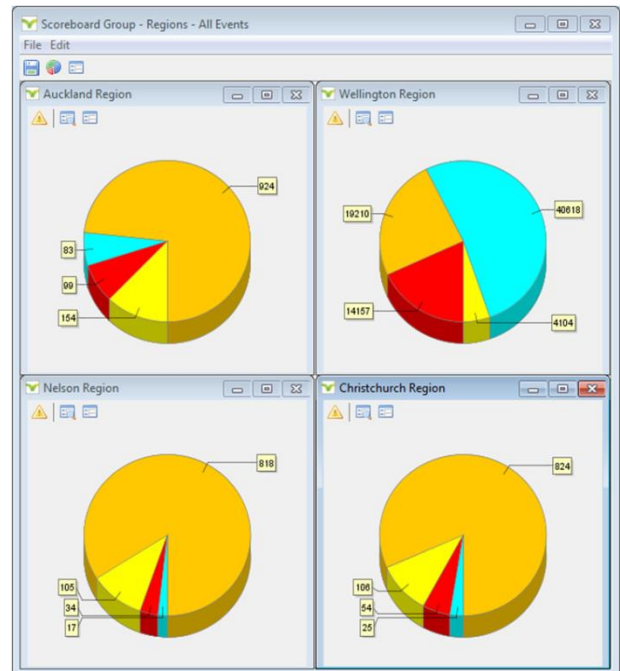
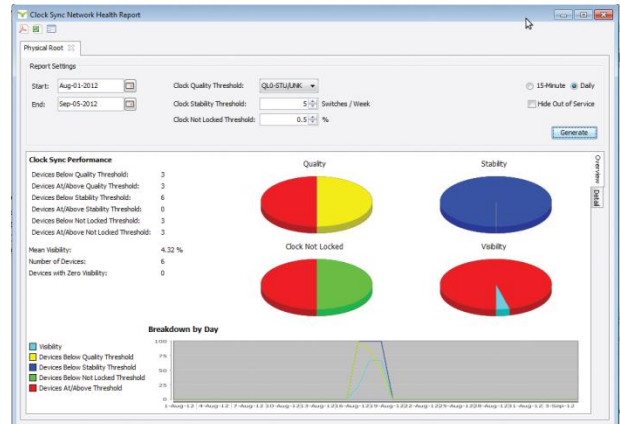
Deploy new element management with:

- Quick installation on Windows and Solaris and fast upgrade installations with automated database migration
- Automated discovery of network devices, inventory, configurations and end-to-end TDM and Ethernet services

SMART FAULT MANAGEMENT

ProVision's active health monitoring of critical microwave, TDM and Ethernet resources and service performance is smarter than traditional fault monitoring, delivering:

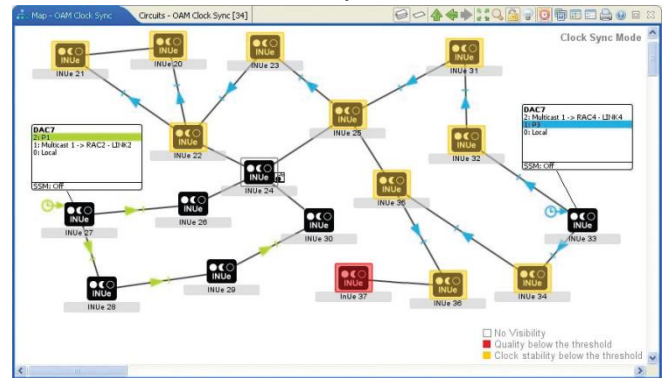
- Network Health Reports detect faults before an outage occurs by identifying performance degradation, for RF, Ethernet, Clock Sync
- Instant alerts of degraded performance via email, SMS and messaging, with deep-dive navigation to quickly investigate and resolve events
- Simple performance threshold management
- Flexible applications for networks, device types and more, via logical containers
- Advanced end-to-end diagnostics, including Ethernet service OAM (ITU-TY.1731 and IEEE 802.1ag) and TDM circuit PRBS testing
- Ethernet clock distribution and clock synchronization related faults across Eclipse networks
- Intelligent fault monitoring using browsers with correlation and filtering, digital scoreboards with dynamic rendering, and flexible event notifications
- Smartphone and tablet client application enabling out-of-NOC fault detection, isolation and handover to field staff



INTELLIGENT NETWORK PROVISIONING

ProVision's automated provisioning processes reduce human error and save substantially on effort, time and OPEX. Intelligent provisioning involves:

- Automated discovery of network and service resources, including end-to-end TDM and Ethernet services and network configurations
- End-to-end provisioning of TDM and Ethernet services through an intuitive graphical user interface
- Automatic and on-demand validation testing of end-to-end services and network design
- Bulk provisioning of device firmware and license upgrades



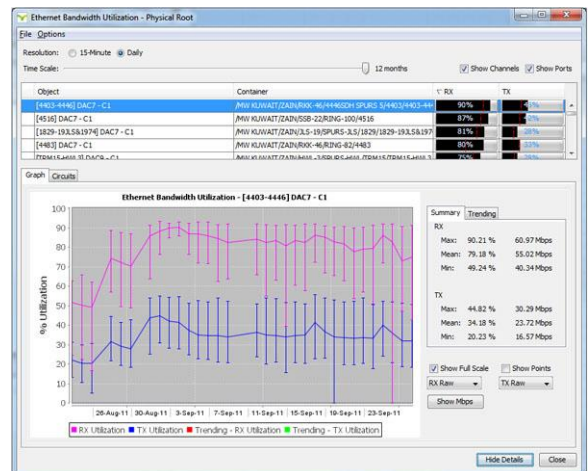
PROACTIVE NETWORK BANDWIDTH MANAGEMENT

To get the most data capacity out of networks, and to identify spare capacity, ProVision includes network bandwidth reporting. These capabilities support capacity planning, license management and congestion problem solving with:

- Ethernet Bandwidth Utilization instantly shows over or under utilization across all network ports, predicts future utilization, and provides navigation to deep-dive analysis tools
- RF Capacity Reports display the allocated, licensed, maximum & spare capacity available across all microwave interfaces in the network

SECURE, RELIABLE & TRUSTED ACCESS CONTROL

- Role based access control with Single-Sign-On
- Flexible containment based management providing access control by region, technology, etc.
- Secure device access including SNMPv3, HTTPS and SSH
- RADIUS based authentication, authorization and user access accounting
- Secure bulk provisioning of device security attributes including user accounts and Access Control Lists
- Audit logging, reporting and client session management



OSS AND DEVICE INTEGRATION READY

Operation Support Systems (OSS) manage networks and services on multiple levels. ProVision provides coherent management for your OSS platforms, significantly reducing system integration CAPEX:

- Proven OSS integration with many network providers and OSS vendors, spanning microwave, TDM and Ethernet resources.
- Easy to integrate traditional SNMP/XML/CSV based NBI provides events, performance, configuration/inventory, and network topology.

Scalable Solutions

- Up to 9,000 Network Elements and 150 concurrent user sessions per server
- Licensing based on network size and feature set
- Redundant server options available

Supported Platform Options

- Windows Server - 10, 2012, 2012R2, 2016, 2019
- Windows Client - 10, 2012, 2012R2, 2016, 2019
- UNIX Server - Solaris 10
- Mobile Client - Apple iOS, Android
- Internationalization available on request

Minimum Hardware Requirements

- Windows Server – 2 GHz processor, 8 GB RAM, 50 GB HD, Ethernet LAN card
- Windows Client – 2 GHz processor, 8 GB RAM (64-bit OS), 2 GB RAM (32-bit OS), 10 GB free HD, Ethernet LAN card, 10 Mbps LAN connection per Client connected to Server, Min. display resolution 1024 x 768, 32-bit color
- Solaris Server – 4-core SPARC processor, 16 GB RAM, 300 GB HD, Ethernet LAN card

Aviat Network Services And Support Options

- On-site training and installation services
- Custom software development
- 24/7 or 9/5 technical helpdesk available by email and telephone
- General Availability releases to AviatCare customers twice per year
- Expert network auditing available

WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks, and Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc. and ProVision are trademarks or registered trademarks of Aviat Networks, Inc.



© Aviat Networks, Inc. (2011 - 2020) All Rights Reserved. Data subject to change without notice.

_d_PV_UNIV_March2020





Performance Specifications

IRU600v4

Used in conjunction with Eclipse RAC 70

ANSI

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are guaranteed values, at room temperature (20 to 30°C, 68 to 86°F), referenced to the ACU antenna port (including ACU losses) unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



Transmitter Specifications

(Operating with RAC70)

Transmitter Power Output Specifications, in dBm, Guaranteed

(Guaranteed values at 1+0 ACU antenna port. Includes all ACU losses related to filters, circulators and RF coax cable loss)

	5.8 GHz		L6 GHz			U6 GHz		
	Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP
QPSK	26.50	29.00	29.50	32.00	38.50	29.50	32.00	38.50
16QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
32QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
64QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
128QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
256QAM	26.50	29.00	28.50	31.00	37.00	28.50	31.00	37.00
512QAM	26.50	29.00	28.00	30.50	36.00	28.00	30.50	36.00
1024QAM	26.00	28.50	27.00	29.50	34.50	27.00	29.50	34.50
2048QAM	24.50	27.00	25.50	28.00	33.50	25.50	28.00	33.50
4096QAM	24.00	26.50	25.00	27.50	31.50	25.00	27.50	31.50
256QAM (60/80MHz)			28.50	31.00	36.50			
512QAM (60/80MHz)			28.00	30.50	35.00			
1024QAM (60/80MHz)			27.00	29.50	33.50			
2048QAM (60/80MHz)			25.00	27.50	32.50			
4096QAM (60/80MHz)			24.50	27.00	30.50			
Min Power for channels ≤ 5MHz			11.5	11.5	17	11.5	11.5	17
Min Power for channels ≥ 10MHz	9	9	12.5	12.5	18.5	12.5	12.5	18.5

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6 , in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max Ethernet	Max ^[1] DS1s	Max ^[2] Modulation	5.8 GHz		L6 GHz			U6 GHz			
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM			-93.00	-93.00	-93.00	-93.00	-93.00	-93.00
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM			-88.00	-88.00	-88.00	-88.00	-88.00	-88.00
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM			-85.00	-85.00	-85.00	-85.00	-85.00	-85.00
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM			-83.00	-83.00	-83.00	-83.00	-83.00	-83.00
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM			-79.00	-79.00	-79.00	-79.00	-79.00	-79.00
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM			-90.75	-90.75	-90.75	-90.75	-90.75	-90.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM			-87.50	-87.50	-87.50	-87.50	-87.50	-87.50
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM			-85.25	-85.25	-85.25	-85.25	-85.25	-85.25
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM			-82.00	-82.00	-82.00	-82.00	-82.00	-82.00
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM			-78.25	-78.25	-78.25	-78.25	-78.25	-78.25
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	-93.00	-93.00	-94.25	-94.25	-94.25	-94.25	-94.25	-94.25
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	-85.25	-85.25	-86.50	-86.50	-86.50	-86.50	-86.50	-86.50
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	-81.75	-81.75	-83.00	-83.00	-83.00	-83.00	-83.00	-83.00
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	-78.25	-78.25	-79.50	-79.50	-79.50	-79.50	-79.50	-79.50
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM	-76.25	-76.25	-77.50	-77.50	-77.50	-77.50	-77.50	-77.50
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	-74.25	-74.25	-75.50	-75.50	-75.50	-75.50	-75.50	-75.50
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	-70.00	-70.00	-71.25	-71.25	-71.25	-71.25	-71.25	-71.25
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	-67.00	-67.00	-68.25	-68.25	-68.25	-68.25	-68.25	-68.25

*[] See notes in last page



Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max Ethernet	Max ^[1] DS1s	Modulation	5.8 GHz		L6 GHz			U6 GHz			
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP	
20 MHz Channel												
ACM/Fixed 26 Mb/s	34 Mb/s	16xDS1	QPSK							-91.50	-91.50	-91.50
ACM/Fixed 61 Mb/s	80 Mb/s	39xDS1	16QAM							-83.00	-83.00	-83.00
ACM/Fixed 71 Mb/s	94 Mb/s	45xDS1	32QAM							-80.50	-80.50	-80.50
ACM/Fixed 89 Mb/s	117 Mb/s	57xDS1	64QAM							-77.75	-77.75	-77.75
ACM/Fixed 102 Mb/s	134 Mb/s	65xDS1	128QAM							-75.50	-75.50	-75.50
ACM/Fixed 119 Mb/s	156 Mb/s	76xDS1	256QAM							-72.25	-72.25	-72.25
ACM/Fixed 132 Mb/s	173 Mb/s	85xDS1	512QAM							-69.75	-69.75	-69.75
ACM/Fixed 150 Mb/s	197 Mb/s	96xDS1	1024QAM							-65.75	-65.75	-65.75
ACM/Fixed 162 Mb/s	212 Mb/s	104xDS1	2048QAM							-63.00	-63.00	-63.00
ACM/Fixed 176 Mb/s	231 Mb/s	113xDS1	4096QAM							-59.25	-59.25	-59.25
30 MHz Channel												
ACM/Fixed 39 Mb/s	51 Mb/s	25xDS1	QPSK	-88.25	-88.25	-89.50	-89.50	-89.50	-89.50	-89.50	-89.50	-89.50
ACM/Fixed 90 Mb/s	118 Mb/s	57xDS1	16QAM	-80.50	-80.50	-81.75	-81.75	-81.75	-81.75	-81.75	-81.75	-81.75
ACM/Fixed 109 Mb/s	143 Mb/s	70xDS1	32QAM	-77.50	-77.50	-79.00	-79.00	-79.00	-79.00	-79.00	-79.00	-79.00
ACM/Fixed 132 Mb/s	174 Mb/s	84xDS1	64QAM	-75.00	-75.00	-76.50	-76.50	-76.50	-76.50	-76.50	-76.50	-76.50
ACM/Fixed 155 Mb/s	204 Mb/s	100xDS1	128QAM	-72.50	-72.50	-73.75	-73.75	-73.75	-73.75	-73.75	-73.75	-73.75
ACM/Fixed 180 Mb/s	237 Mb/s	116xDS1	256QAM	-69.00	-69.00	-70.50	-70.50	-70.50	-70.50	-70.50	-70.50	-70.50
ACM/Fixed 200 Mb/s	263 Mb/s	127xDS1	512QAM	-66.50	-66.50	-68.00	-68.00	-68.00	-68.00	-68.00	-68.00	-68.00
ACM/Fixed 227 Mb/s	298 Mb/s	127xDS1	1024QAM	-62.75	-62.75	-64.00	-64.00	-64.00	-64.00	-64.00	-64.00	-64.00
ACM/Fixed 245 Mb/s	322 Mb/s	127xDS1	2048QAM	-60.00	-60.00	-61.25	-61.25	-61.25	-61.25	-61.25	-61.25	-61.25
ACM/Fixed 267 Mb/s	350 Mb/s	127xDS1	4096QAM	-56.00	-56.00	-57.25	-57.25	-57.25	-57.25	-57.25	-57.25	-57.25
ACM/Fixed 158 Mb/s	2 Mb/s	1xOC3	128QAM	-71.50	-71.50	-73.00	-73.00	-73.00	-73.00	-73.00	-73.00	-73.00
ACM/Fixed 179 Mb/s	24 Mb/s	1xOC3	256QAM	-69.25	-69.25	-70.50	-70.50	-70.50	-70.50	-70.50	-70.50	-70.50
ACM/Fixed 207 Mb/s	51 Mb/s	1xOC3	512QAM	-65.50	-65.50	-67.00	-67.00	-67.00	-67.00	-67.00	-67.00	-67.00
ACM/Fixed 226 Mb/s	71 Mb/s	1xOC3	1024QAM	-62.75	-62.75	-64.00	-64.00	-64.00	-64.00	-64.00	-64.00	-64.00
ACM/Fixed 245 Mb/s	90 Mb/s	1xOC3	2048QAM	-59.75	-59.75	-61.00	-61.00	-61.00	-61.00	-61.00	-61.00	-61.00
ACM/Fixed 267 Mb/s	111 Mb/s	1xOC3	4096QAM	-56.00	-56.00	-57.25	-57.25	-57.25	-57.25	-57.25	-57.25	-57.25
60 MHz Channel												
ACM/Fixed 78 Mb/s	103 Mb/s	49xDS1	QPSK			-86.25	-86.25	-86.25				
ACM/Fixed 167 Mb/s	220 Mb/s	106xDS1	16QAM			-79.25	-79.25	-79.25				
ACM/Fixed 217 Mb/s	285 Mb/s	127xDS1	32QAM			-75.50	-75.50	-75.50				
ACM/Fixed 267 Mb/s	350 Mb/s	127xDS1	64QAM			-73.00	-73.00	-73.00				
ACM/Fixed 301 Mb/s	395 Mb/s	127xDS1	128QAM			-71.00	-71.00	-71.00				
ACM/Fixed 344 Mb/s	451 Mb/s	127xDS1	256QAM			-68.00	-68.00	-68.00				
ACM/Fixed 403 Mb/s	529 Mb/s	127xDS1	512QAM			-64.50	-64.50	-64.50				
ACM/Fixed 454 Mb/s	596 Mb/s	127xDS1	1024QAM			-60.75	-60.75	-60.75				
ACM/Fixed 491 Mb/s	645 Mb/s	127xDS1	2048QAM			-58.00	-58.00	-58.00				
ACM/Fixed 534 Mb/s	701 Mb/s	127xDS1	4096QAM			-54.25	-54.25	-54.25				
ACM/Fixed 168 Mb/s	12 Mb/s	1xOC3	16QAM			-80.00	-80.00	-80.00				
ACM/Fixed 218 Mb/s	62 Mb/s	1xOC3	32QAM			-76.00	-76.00	-76.00				
ACM/Fixed 267 Mb/s	111 Mb/s	1xOC3	64QAM			-73.50	-73.50	-73.50				
ACM/Fixed 307 Mb/s	152 Mb/s	1xOC3	128QAM			-71.00	-71.00	-71.00				
ACM/Fixed 345 Mb/s	189 Mb/s	1xOC3	256QAM			-68.50	-68.50	-68.50				
ACM/Fixed 407 Mb/s	252 Mb/s	1xOC3	512QAM			-64.50	-64.50	-64.50				
ACM/Fixed 457 Mb/s	301 Mb/s	1xOC3	1024QAM			-61.00	-61.00	-61.00				
ACM/Fixed 492 Mb/s	337 Mb/s	1xOC3	2048QAM			-58.50	-58.50	-58.50				
ACM/Fixed 537 Mb/s	382 Mb/s	1xOC3	4096QAM			-54.75	-54.75	-54.75				

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	5.8 GHz		L6 GHz			U6 GHz			
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM			122.0	124.5	130.0	122.0	124.5	130.0
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM			117.0	119.5	125.0	117.0	119.5	125.0
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM			114.0	116.5	122.0	114.0	116.5	122.0
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM			112.0	114.5	120.0	112.0	114.5	120.0
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM			107.5	110.0	116.0	107.5	110.0	116.0
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM			119.75	122.25	127.75	119.75	122.25	127.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM			116.5	119.0	124.5	116.5	119.0	124.5
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM			114.25	116.75	122.25	114.25	116.75	122.25
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM			111.0	113.5	119.0	111.0	113.5	119.0
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM			106.75	109.25	115.25	106.75	109.25	115.25
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	119.5	122.0	123.75	126.25	132.75	123.75	126.25	132.75
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	111.75	114.25	115.5	118.0	123.5	115.5	118.0	123.5
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	108.25	110.75	112.0	114.5	120.0	112.0	114.5	120.0
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	104.75	107.25	108.5	111.0	116.5	108.5	111.0	116.5
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM	102.75	105.25	106.5	109.0	114.5	106.5	109.0	114.5
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	100.75	103.25	104.0	106.5	112.5	104.0	106.5	112.5
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	96.5	99.0	99.25	101.75	107.25	99.25	101.75	107.25
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	93.0	95.5	95.25	97.75	102.75	95.25	97.75	102.75
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						121.0	123.5	130.0
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						112.0	114.5	120.0
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						109.5	112.0	117.5
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						106.75	109.25	114.75
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						104.5	107.0	112.5
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						100.75	103.25	109.25
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						97.75	100.25	105.75
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						92.75	95.25	100.25
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						88.5	91.0	96.5
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						84.25	86.75	90.75
30 MHz Channel												
ACM/Fixed	39 Mb/s	51 Mb/s	25xDS1	QPSK	114.75	117.25	119.0	121.5	128.0	119.0	121.5	128.0
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	16QAM	107.0	109.5	110.75	113.25	118.75	110.75	113.25	118.75
ACM/Fixed	109 Mb/s	143 Mb/s	70xDS1	32QAM	104.0	106.5	108.0	110.5	116.0	108.0	110.5	116.0
ACM/Fixed	132 Mb/s	174 Mb/s	84xDS1	64QAM	101.5	104.0	105.5	108.0	113.5	105.5	108.0	113.5
ACM/Fixed	155 Mb/s	204 Mb/s	100xDS1	128QAM	99.0	101.5	102.75	105.25	110.75	102.75	105.25	110.75
ACM/Fixed	180 Mb/s	237 Mb/s	116xDS1	256QAM	95.5	98.0	99.0	101.5	107.5	99.0	101.5	107.5
ACM/Fixed	200 Mb/s	263 Mb/s	127xDS1	512QAM	93.0	95.5	96.0	98.5	104.0	96.0	98.5	104.0
ACM/Fixed	227 Mb/s	298 Mb/s	127xDS1	1024QAM	88.75	91.25	91.0	93.5	98.5	91.0	93.5	98.5
ACM/Fixed	245 Mb/s	322 Mb/s	127xDS1	2048QAM	84.5	87.0	86.75	89.25	94.75	86.75	89.25	94.75
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	4096QAM	80.0	82.5	82.25	84.75	88.75	82.25	84.75	88.75
ACM/Fixed	158 Mb/s	2 Mb/s	1xOC3	128QAM	98.0	100.5	102.0	104.5	110.0	102.0	104.5	110.0
ACM/Fixed	179 Mb/s	24 Mb/s	1xOC3	256QAM	95.75	98.25	99.0	101.5	107.5	99.0	101.5	107.5
ACM/Fixed	207 Mb/s	51 Mb/s	1xOC3	512QAM	92.0	94.5	95.0	97.5	103.0	95.0	97.5	103.0
ACM/Fixed	226 Mb/s	71 Mb/s	1xOC3	1024QAM	88.75	91.25	91.0	93.5	98.5	91.0	93.5	98.5
ACM/Fixed	245 Mb/s	90 Mb/s	1xOC3	2048QAM	84.25	86.75	86.5	89.0	94.5	86.5	89.0	94.5
ACM/Fixed	267 Mb/s	111 Mb/s	1xOC3	4096QAM	80.0	82.5	82.25	84.75	88.75	82.25	84.75	88.75

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	5.8 GHz			L6 GHz			U6 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	EHP	Standard Power	High Power	EHP
60 MHz Channel												
ACM/Fixed 78 Mb/s	103 Mb/s	49xDS1	QPSK			115.75	118.25	124.75				
ACM/Fixed 167 Mb/s	220 Mb/s	106xDS1	16QAM			108.25	110.75	116.25				
ACM/Fixed 217 Mb/s	285 Mb/s	127xDS1	32QAM			104.5	107.0	112.5				
ACM/Fixed 267 Mb/s	350 Mb/s	127xDS1	64QAM			102.0	104.5	110.0				
ACM/Fixed 301 Mb/s	395 Mb/s	127xDS1	128QAM			100.0	102.5	108.0				
ACM/Fixed 344 Mb/s	451 Mb/s	127xDS1	256QAM			96.5	99.0	104.5				
ACM/Fixed 403 Mb/s	529 Mb/s	127xDS1	512QAM			92.5	95.0	99.5				
ACM/Fixed 454 Mb/s	596 Mb/s	127xDS1	1024QAM			87.75	90.25	94.25				
ACM/Fixed 491 Mb/s	645 Mb/s	127xDS1	2048QAM			83.0	85.5	90.5				
ACM/Fixed 534 Mb/s	701 Mb/s	127xDS1	4096QAM			78.75	81.25	84.75				
ACM/Fixed 168 Mb/s	12 Mb/s	1xOC3	16QAM			109.0	111.5	117.0				
ACM/Fixed 218 Mb/s	62 Mb/s	1xOC3	32QAM			105.0	107.5	113.0				
ACM/Fixed 267 Mb/s	111 Mb/s	1xOC3	64QAM			102.5	105.0	110.5				
ACM/Fixed 307 Mb/s	152 Mb/s	1xOC3	128QAM			100.0	102.5	108.0				
ACM/Fixed 345 Mb/s	189 Mb/s	1xOC3	256QAM			97.0	99.5	105.0				
ACM/Fixed 407 Mb/s	252 Mb/s	1xOC3	512QAM			92.5	95.0	99.5				
ACM/Fixed 457 Mb/s	301 Mb/s	1xOC3	1024QAM			88.0	90.5	94.5				
ACM/Fixed 492 Mb/s	337 Mb/s	1xOC3	2048QAM			83.5	86.0	91.0				
ACM/Fixed 537 Mb/s	382 Mb/s	1xOC3	4096QAM			79.25	81.75	85.25				

*[] See notes in last page

Transmitter Specifications

Transmitter Power Output Specifications, in dBm (Guaranteed)

(Guaranteed values at 1+0 ACU antenna port. Includes all ACU losses related to filters, circulators and RF coax cable loss)

	7 GHz		8 GHz	
	MP	EHP	MP	EHP
QPSK	30.50	36.00	29.00	35.00
16QAM	29.50	36.00	28.00	35.00
32QAM	29.50	36.00	28.00	35.00
64QAM	28.00	36.00	27.00	35.00
128QAM	28.00	36.00	27.00	35.00
256QAM	28.00	36.00	27.00	35.00
512QAM	27.50	36.00	26.50	35.00
1024QAM	27.00	35.00	26.00	34.50
2048QAM	26.00	34.00	25.00	33.00
4096QAM	25.00	33.00	24.00	32.00
Min Power for channels ≤ 5MHz	10.5	16	9	15
Min Power for channels ≥ 10MHz	10.5	16	9	15

Receiver Specifications

Receiver Threshold BER=1E-6, in dBm (Guaranteed)

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[2] DS1s	Modulation	7 GHz	8 GHz
10 MHz Channel				
ACM/Fixed	13 Mb/s	8xDS1	QPSK	-93.50
ACM/Fixed	29 Mb/s	18xDS1	16QAM	-85.75
ACM/Fixed	36 Mb/s	23xDS1	32QAM	-82.50
ACM/Fixed	45 Mb/s	29xDS1	64QAM	-78.75
ACM/Fixed	51 Mb/s	32xDS1	128QAM	-76.75
ACM/Fixed	56 Mb/s	36xDS1	256QAM	-75.00
ACM/Fixed	67 Mb/s	43xDS1	512QAM	-70.50
ACM/Fixed	73 Mb/s	47xDS1	1024QAM	-67.50
30 MHz Channel				
ACM/Fixed	39 Mb/s	25xDS1	QPSK	-89.00
ACM/Fixed	90 Mb/s	57xDS1	16QAM	-81.00
ACM/Fixed	109 Mb/s	70xDS1	32QAM	-78.25
ACM/Fixed	132 Mb/s	84xDS1	64QAM	-75.75
ACM/Fixed	155 Mb/s	100xDS1	128QAM	-73.00
ACM/Fixed	180 Mb/s	116xDS1	256QAM	-69.75
ACM/Fixed	200 Mb/s	127xDS1	512QAM	-67.25
ACM/Fixed	227 Mb/s	127xDS1	1024QAM	-63.25
ACM/Fixed	245 Mb/s	127xDS1	2048QAM	-60.50
ACM/Fixed	267 Mb/s	127xDS1	4096QAM	-56.50
ACM/Fixed	158 Mb/s	1xOC3	128QAM	-72.25
ACM/Fixed	179 Mb/s	1xOC3	256QAM	-69.75
ACM/Fixed	207 Mb/s	1xOC3	512QAM	-66.25
ACM/Fixed	226 Mb/s	1xOC3	1024QAM	-63.50
ACM/Fixed	245 Mb/s	1xOC3	2048QAM	-60.50
ACM/Fixed	267 Mb/s	1xOC3	4096QAM	-56.50

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6, in dBm (Guaranteed)

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max DS1s ^[2]	Modulation	7 GHz	8 GHz	
40 MHz Channel					
ACM/Fixed	52 Mb/s	33xDS1	QPSK	-87.50	-87.50
ACM/Fixed	121 Mb/s	77xDS1	16QAM	-79.50	-79.50
ACM/Fixed	146 Mb/s	93xDS1	32QAM	-76.75	-76.75
ACM/Fixed	178 Mb/s	113xDS1	64QAM	-74.25	-74.25
ACM/Fixed	207 Mb/s	127xDS1	128QAM	-71.75	-71.75
ACM/Fixed	237 Mb/s	127xDS1	256QAM	-68.50	-68.50
ACM/Fixed	268 Mb/s	127xDS1	512QAM	-66.00	-66.00
ACM/Fixed	300 Mb/s	127xDS1	1024QAM	-62.50	-62.50
ACM/Fixed	329 Mb/s	127xDS1	2048QAM	-59.25	-59.25
ACM/Fixed	358 Mb/s	127xDS1	4096QAM	-55.50	-55.50
ACM/Fixed	181 Mb/s	1xOC3	64QAM	-74.00	-74.00
ACM/Fixed	207 Mb/s	1xOC3	128QAM	-72.00	-72.00
ACM/Fixed	238 Mb/s	1xOC3	256QAM	-68.50	-68.50
ACM/Fixed	270 Mb/s	1xOC3	512QAM	-65.75	-65.75
ACM/Fixed	309 Mb/s	1xOC3	1024QAM	-61.50	-61.50
ACM/Fixed	329 Mb/s	1xOC3	2048QAM	-59.50	-59.50
ACM/Fixed	358 Mb/s	1xOC3	4096QAM	-55.50	-55.50
50 MHz Channel^[3]					
ACM/Fixed	65 Mb/s	42xDS1	QPSK	-86.00	-86.00
ACM/Fixed	140 Mb/s	89xDS1	16QAM	-79.50	-79.50
ACM/Fixed	183 Mb/s	117xDS1	32QAM	-75.00	-75.00
ACM/Fixed	220 Mb/s	127xDS1	64QAM	-73.00	-73.00
ACM/Fixed	252 Mb/s	127xDS1	128QAM	-71.00	-71.00
ACM/Fixed	308 Mb/s	127xDS1	256QAM	-66.50	-66.50
ACM/Fixed	338 Mb/s	127xDS1	512QAM	-64.00	-64.00
ACM/Fixed	382 Mb/s	127xDS1	1024QAM	-60.50	-60.50
ACM/Fixed	410 Mb/s	127xDS1	2048QAM	-58.00	-58.00
ACM/Fixed	446 Mb/s	127xDS1	4096QAM	-54.00	-54.00
60 MHz Channel^[3]					
ACM/Fixed	78 Mb/s	49xDS1	QPSK	-85.50	-85.50
ACM/Fixed	167 Mb/s	106xDS1	16QAM	-78.50	-78.50
ACM/Fixed	217 Mb/s	127xDS1	32QAM	-74.75	-74.75
ACM/Fixed	267 Mb/s	127xDS1	64QAM	-72.25	-72.25
ACM/Fixed	301 Mb/s	127xDS1	128QAM	-70.25	-70.25
ACM/Fixed	344 Mb/s	127xDS1	256QAM	-67.25	-67.25
ACM/Fixed	403 Mb/s	127xDS1	512QAM	-63.75	-63.75
ACM/Fixed	454 Mb/s	127xDS1	1024QAM	-60.00	-60.00
ACM/Fixed	491 Mb/s	127xDS1	2048QAM	-57.50	-57.50
ACM/Fixed	534 Mb/s	127xDS1	4096QAM	-53.50	-53.50
ACM/Fixed	168 Mb/s	1xOC3	16QAM	-79.00	-79.00
ACM/Fixed	218 Mb/s	1xOC3	32QAM	-75.00	-75.00
ACM/Fixed	267 Mb/s	1xOC3	64QAM	-72.50	-72.50
ACM/Fixed	307 Mb/s	1xOC3	128QAM	-70.00	-70.00
ACM/Fixed	345 Mb/s	1xOC3	256QAM	-67.50	-67.50
ACM/Fixed	407 Mb/s	1xOC3	512QAM	-63.50	-63.50
ACM/Fixed	457 Mb/s	1xOC3	1024QAM	-60.00	-60.00
ACM/Fixed	492 Mb/s	1xOC3	2048QAM	-57.50	-57.50
ACM/Fixed	537 Mb/s	1xOC3	4096QAM	-53.50	-53.50

*[] See notes in last page

Receiver Specifications

Receiver Threshold BER=1E-6, in dBm (Guaranteed)

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

	Air Link Capacity	Max DS1s ^[2]	Modulation	7 GHz	8 GHz
80 MHz Channel^[3]					
ACM/Fixed	105 Mb/s	66xDS1	QPSK	-84.00	-84.00
ACM/Fixed	241 Mb/s	127xDS1	16QAM	-76.00	-76.00
ACM/Fixed	302 Mb/s	127xDS1	32QAM	-72.50	-72.50
ACM/Fixed	352 Mb/s	127xDS1	64QAM	-71.00	-71.00
ACM/Fixed	403 Mb/s	127xDS1	128QAM	-68.50	-68.50
ACM/Fixed	470 Mb/s	127xDS1	256QAM	-65.00	-65.00
ACM/Fixed	543 Mb/s	127xDS1	512QAM	-62.00	-62.00
ACM/Fixed	612 Mb/s	127xDS1	1024QAM	-58.50	-58.50
ACM/Fixed	658 Mb/s	127xDS1	2048QAM	-55.50	-55.50
ACM/Fixed	716 Mb/s	127xDS1	4096QAM	-52.00	-52.00
ACM/Fixed	243 Mb/s	1xOC3	16QAM	-76.50	-76.50
ACM/Fixed	309 Mb/s	1xOC3	32QAM	-72.50	-72.50
ACM/Fixed	365 Mb/s	1xOC3	64QAM	-70.50	-70.50
ACM/Fixed	408 Mb/s	1xOC3	128QAM	-68.50	-68.50
ACM/Fixed	471 Mb/s	1xOC3	256QAM	-65.50	-65.50
ACM/Fixed	542 Mb/s	1xOC3	512QAM	-62.50	-62.50
ACM/Fixed	612 Mb/s	1xOC3	1024QAM	-58.50	-58.50
ACM/Fixed	661 Mb/s	1xOC3	2048QAM	-56.00	-56.00
ACM/Fixed	723 Mb/s	1xOC3	4096QAM	-51.50	-51.50

*[] See notes in last page



System Gain Specifications

System Gain BER=1E-6, in dB (Guaranteed)

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max DS1s ^[2]	Modulation	7 GHz		8 GHz		
			MP	EHP	MP	EHP	
10 MHz Channel							
ACM/Fixed	13 Mb/s	8xDS1	QPSK	124.0	129.5	122.5	128.5
ACM/Fixed	29 Mb/s	18xDS1	16QAM	115.25	121.75	113.75	120.75
ACM/Fixed	36 Mb/s	23xDS1	32QAM	112.0	118.5	110.5	117.5
ACM/Fixed	45 Mb/s	29xDS1	64QAM	106.75	114.75	105.75	113.75
ACM/Fixed	51 Mb/s	32xDS1	128QAM	104.75	112.75	103.75	111.75
ACM/Fixed	56 Mb/s	36xDS1	256QAM	103.0	111.0	102.0	110.0
ACM/Fixed	67 Mb/s	43xDS1	512QAM	98.0	106.5	97.0	105.5
ACM/Fixed	73 Mb/s	47xDS1	1024QAM	94.5	102.5	93.5	102.0
30 MHz Channel							
ACM/Fixed	39 Mb/s	25xDS1	QPSK	119.5	125.0	118.0	124.0
ACM/Fixed	90 Mb/s	57xDS1	16QAM	110.5	117.0	109.0	116.0
ACM/Fixed	109 Mb/s	70xDS1	32QAM	107.75	114.25	106.25	113.25
ACM/Fixed	132 Mb/s	84xDS1	64QAM	103.75	111.75	102.75	110.75
ACM/Fixed	155 Mb/s	100xDS1	128QAM	101.0	109.0	100.0	108.0
ACM/Fixed	180 Mb/s	116xDS1	256QAM	97.75	105.75	96.75	104.75
ACM/Fixed	200 Mb/s	127xDS1	512QAM	94.75	103.25	93.75	102.25
ACM/Fixed	227 Mb/s	127xDS1	1024QAM	90.25	98.25	89.25	97.75
ACM/Fixed	245 Mb/s	127xDS1	2048QAM	86.5	94.5	85.5	93.5
ACM/Fixed	267 Mb/s	127xDS1	4096QAM	81.5	89.5	80.5	88.5
ACM/Fixed	158 Mb/s	1xOC3	128QAM	100.25	108.25	99.25	107.25
ACM/Fixed	179 Mb/s	1xOC3	256QAM	97.75	105.75	96.75	104.75
ACM/Fixed	207 Mb/s	1xOC3	512QAM	93.75	102.25	92.75	101.25
ACM/Fixed	226 Mb/s	1xOC3	1024QAM	90.5	98.5	89.5	98.0
ACM/Fixed	245 Mb/s	1xOC3	2048QAM	86.5	94.5	85.5	93.5
ACM/Fixed	267 Mb/s	1xOC3	4096QAM	81.5	89.5	80.5	88.5
40 MHz Channel							
ACM/Fixed	52 Mb/s	33xDS1	QPSK	118.0	123.5	116.5	122.5
ACM/Fixed	121 Mb/s	77xDS1	16QAM	109.0	115.5	107.5	114.5
ACM/Fixed	146 Mb/s	93xDS1	32QAM	106.25	112.75	104.75	111.75
ACM/Fixed	178 Mb/s	113xDS1	64QAM	102.25	110.25	101.25	109.25
ACM/Fixed	207 Mb/s	127xDS1	128QAM	99.75	107.75	98.75	106.75
ACM/Fixed	237 Mb/s	127xDS1	256QAM	96.5	104.5	95.5	103.5
ACM/Fixed	268 Mb/s	127xDS1	512QAM	93.5	102.0	92.5	101.0
ACM/Fixed	300 Mb/s	127xDS1	1024QAM	89.5	97.5	88.5	97.0
ACM/Fixed	329 Mb/s	127xDS1	2048QAM	85.25	93.25	84.25	92.25
ACM/Fixed	358 Mb/s	127xDS1	4096QAM	80.5	88.5	79.5	87.5
ACM/Fixed	181 Mb/s	1xOC3	64QAM	102.0	110.0	101.0	109.0
ACM/Fixed	207 Mb/s	1xOC3	128QAM	100.0	108.0	99.0	107.0
ACM/Fixed	238 Mb/s	1xOC3	256QAM	96.5	104.5	95.5	103.5
ACM/Fixed	270 Mb/s	1xOC3	512QAM	93.25	101.75	92.25	100.75
ACM/Fixed	309 Mb/s	1xOC3	1024QAM	88.5	96.5	87.5	96.0
ACM/Fixed	329 Mb/s	1xOC3	2048QAM	85.5	93.5	84.5	92.5
ACM/Fixed	358 Mb/s	1xOC3	4096QAM	80.5	88.5	79.5	87.5

[2] See notes in last page

System Gain Specifications

System Gain BER=1E-6, in dB (Guaranteed)

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

	Air Link Capacity	Max DS1s ^[2]	Modulation	7 GHz		8 GHz	
				MP	EHP	MP	EHP
50 MHz Channel^[3]							
ACM/Fixed	65 Mb/s	42xDS1	QPSK	116.5	122.0	115.0	121.0
ACM/Fixed	140 Mb/s	89xDS1	16QAM	109.0	115.5	107.5	114.5
ACM/Fixed	183 Mb/s	117xDS1	32QAM	104.5	111.0	103.0	110.0
ACM/Fixed	220 Mb/s	127xDS1	64QAM	101.0	109.0	100.0	108.0
ACM/Fixed	252 Mb/s	127xDS1	128QAM	99.0	107.0	98.0	106.0
ACM/Fixed	308 Mb/s	127xDS1	256QAM	94.5	102.5	93.5	101.5
ACM/Fixed	338 Mb/s	127xDS1	512QAM	91.5	100.0	90.5	99.0
ACM/Fixed	382 Mb/s	127xDS1	1024QAM	87.5	95.5	86.5	95.0
ACM/Fixed	410 Mb/s	127xDS1	2048QAM	84.0	92.0	83.0	91.0
ACM/Fixed	446 Mb/s	127xDS1	4096QAM	79.0	87.0	78.0	86.0
60 MHz Channel^[3]							
ACM/Fixed	78 Mb/s	49xDS1	QPSK	116.0	121.5	114.5	120.5
ACM/Fixed	167 Mb/s	106xDS1	16QAM	108.0	114.5	106.5	113.5
ACM/Fixed	217 Mb/s	127xDS1	32QAM	104.25	110.75	102.75	109.75
ACM/Fixed	267 Mb/s	127xDS1	64QAM	100.25	108.25	99.25	107.25
ACM/Fixed	301 Mb/s	127xDS1	128QAM	98.25	106.25	97.25	105.25
ACM/Fixed	344 Mb/s	127xDS1	256QAM	95.25	103.25	94.25	102.25
ACM/Fixed	403 Mb/s	127xDS1	512QAM	91.25	99.75	90.25	98.75
ACM/Fixed	454 Mb/s	127xDS1	1024QAM	87.0	95.0	86.0	94.5
ACM/Fixed	491 Mb/s	127xDS1	2048QAM	83.5	91.5	82.5	90.5
ACM/Fixed	534 Mb/s	127xDS1	4096QAM	78.5	86.5	77.5	85.5
ACM/Fixed	168 Mb/s	1xOC3	16QAM	108.5	115.0	107.0	114.0
ACM/Fixed	218 Mb/s	1xOC3	32QAM	104.5	111.0	103.0	110.0
ACM/Fixed	267 Mb/s	1xOC3	64QAM	100.5	108.5	99.5	107.5
ACM/Fixed	307 Mb/s	1xOC3	128QAM	98.0	106.0	97.0	105.0
ACM/Fixed	345 Mb/s	1xOC3	256QAM	95.5	103.5	94.5	102.5
ACM/Fixed	407 Mb/s	1xOC3	512QAM	91.0	99.5	90.0	98.5
ACM/Fixed	457 Mb/s	1xOC3	1024QAM	87.0	95.0	86.0	94.5
ACM/Fixed	492 Mb/s	1xOC3	2048QAM	83.5	91.5	82.5	90.5
ACM/Fixed	537 Mb/s	1xOC3	4096QAM	78.5	86.5	77.5	85.5
80 MHz Channel^[3]							
ACM/Fixed	105 Mb/s	66xDS1	QPSK	114.5	120.0	113.0	119.0
ACM/Fixed	241 Mb/s	127xDS1	16QAM	105.5	112.0	104.0	111.0
ACM/Fixed	302 Mb/s	127xDS1	32QAM	102.0	108.5	100.5	107.5
ACM/Fixed	352 Mb/s	127xDS1	64QAM	99.0	107.0	98.0	106.0
ACM/Fixed	403 Mb/s	127xDS1	128QAM	96.5	104.5	95.5	103.5
ACM/Fixed	470 Mb/s	127xDS1	256QAM	93.0	101.0	92.0	100.0
ACM/Fixed	543 Mb/s	127xDS1	512QAM	89.5	98.0	88.5	97.0
ACM/Fixed	612 Mb/s	127xDS1	1024QAM	85.5	93.5	84.5	93.0
ACM/Fixed	658 Mb/s	127xDS1	2048QAM	81.5	89.5	80.5	88.5
ACM/Fixed	716 Mb/s	127xDS1	4096QAM	77.0	85.0	76.0	84.0
ACM/Fixed	243 Mb/s	1xOC3	16QAM	106.0	112.5	104.5	111.5
ACM/Fixed	309 Mb/s	1xOC3	32QAM	102.0	108.5	100.5	107.5
ACM/Fixed	365 Mb/s	1xOC3	64QAM	98.5	106.5	97.5	105.5
ACM/Fixed	408 Mb/s	1xOC3	128QAM	96.5	104.5	95.5	103.5
ACM/Fixed	471 Mb/s	1xOC3	256QAM	93.5	101.5	92.5	100.5
ACM/Fixed	542 Mb/s	1xOC3	512QAM	90.0	98.5	89.0	97.5
ACM/Fixed	612 Mb/s	1xOC3	1024QAM	85.5	93.5	84.5	93.0
ACM/Fixed	661 Mb/s	1xOC3	2048QAM	82.0	90.0	81.0	89.0
ACM/Fixed	723 Mb/s	1xOC3	4096QAM	76.5	84.5	75.5	83.5

*[] See notes in last page



Transmitter Specifications

(Operating with RAC70)

Transmitter Power Output Specifications, in dBm, Guaranteed

(Guaranteed values at 1+0 ACU antenna port. Includes all ACU losses related to filters, circulators and RF coax cable loss)

	FCC 7 GHz			10.5 GHz		11 GHz		
	Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
QPSK	29.50	32.00	38.00			27.50	30.00	33.00
16QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
32QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
64QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
128QAM	29.00	31.50	36.50	25.50	28.00	26.00	28.50	32.50
256QAM	28.50	31.00	36.50	25.00	27.50	25.50	28.00	32.50
512QAM	28.00	30.50	35.50			25.00	27.50	31.00
1024QAM	27.00	29.50	34.00			24.00	26.50	30.00
2048QAM	25.50	28.00	33.00			23.50	26.00	29.00
4096QAM	25.00	27.50	31.00			21.50	24.00	27.50
256QAM (60/80MHz)						25.50	28.00	32.00
512QAM (60/80MHz)						25.00	27.50	31.00
1024QAM (60/80MHz)						24.00	26.50	29.50
2048QAM (60/80MHz)						22.50	25.00	
4096QAM (60/80MHz)						20.50	23.00	
Min Power for channels ≤ 5MHz	11.5	11.5	16.5	8.5	8.5	9	9	12.5
Min Power for channels ≥ 10MHz	12.5	12.5	18			10	10	13

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max Ethernet	Max DS1s ^[1]	Modulation ^[2]	FCC 7 GHz			10.5 GHz		11 GHz			
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM				-91.50	-91.50	-92.00	-92.00	-92.00
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM				-86.50	-86.50	-87.25	-87.25	-87.25
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM				-83.50	-83.50	-84.25	-84.25	-84.25
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM				-81.50	-81.50	-82.00	-82.00	-82.00
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM				-77.50	-77.50	-78.25	-78.25	-78.25
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM	-90.75	-90.75	-90.75	-89.25	-89.25	-90.00	-90.00	-90.00
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM	-87.50	-87.50	-87.50	-86.00	-86.00	-86.75	-86.75	-86.75
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM	-85.25	-85.25	-85.25	-83.75	-83.75	-84.50	-84.50	-84.50
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM	-82.00	-82.00	-82.00	-80.50	-80.50	-81.25	-81.25	-81.25
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM	-78.25	-78.25	-78.25	-76.75	-76.75	-77.50	-77.50	-77.50
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK						-93.50	-93.50	-93.50
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM						-85.75	-85.75	-85.75
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM						-82.25	-82.25	-82.25
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM						-78.75	-78.75	-78.75
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM						-76.75	-76.75	-76.75
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM						-74.75	-74.75	-74.75
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM						-70.50	-70.50	-70.50
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM						-67.50	-67.50	-67.50

*[] See notes in last page



Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
12.5 MHz Channel											
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	-94.25	-94.25	-94.25				
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	-86.50	-86.50	-86.50				
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	-83.00	-83.00	-83.00				
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	-79.50	-79.50	-79.50				
ACM/Fixed	50 Mb/s	67 Mb/s	32xDS1	128QAM	-77.50	-77.50	-77.50				
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	-75.50	-75.50	-75.50				
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	-71.25	-71.25	-71.25				
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	-68.25	-68.25	-68.25				
20 MHz Channel											
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						-90.50	-90.50
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						-82.25	-82.25
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						-79.75	-79.75
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						-77.00	-77.00
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						-74.75	-74.75
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						-71.50	-71.50
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						-69.00	-69.00
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						-65.00	-65.00
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						-62.25	-62.25
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						-58.50	-58.50
25 MHz Channel											
ACM/Fixed	33 Mb/s	43 Mb/s	20xDS1	QPSK	-90.50	-90.50	-90.50				
ACM/Fixed	75 Mb/s	98 Mb/s	48xDS1	16QAM	-82.50	-82.50	-82.50				
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	32QAM	-79.50	-79.50	-79.50				
ACM/Fixed	111 Mb/s	145 Mb/s	71xDS1	64QAM	-77.25	-77.25	-77.25				
ACM/Fixed	130 Mb/s	170 Mb/s	83xDS1	128QAM	-74.50	-74.50	-74.50				
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	256QAM	-71.25	-71.25	-71.25				
ACM/Fixed	167 Mb/s	219 Mb/s	107xDS1	512QAM	-68.75	-68.75	-68.75				
ACM/Fixed	189 Mb/s	249 Mb/s	121xDS1	1024QAM	-64.75	-64.75	-64.75				
ACM/Fixed	205 Mb/s	268 Mb/s	127xDS1	2048QAM	-62.00	-62.00	-62.00				
ACM/Fixed	222 Mb/s	291 Mb/s	127xDS1	4096QAM	-58.25	-58.25	-58.25				
30 MHz Channel											
ACM/Fixed	39 Mb/s	51 Mb/s	25xDS1	QPSK						-88.75	-88.75
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	16QAM						-81.00	-81.00
ACM/Fixed	109 Mb/s	143 Mb/s	70xDS1	32QAM						-78.00	-78.00
ACM/Fixed	132 Mb/s	174 Mb/s	84xDS1	64QAM						-75.50	-75.50
ACM/Fixed	155 Mb/s	204 Mb/s	100xDS1	128QAM						-73.00	-73.00
ACM/Fixed	180 Mb/s	237 Mb/s	116xDS1	256QAM						-69.50	-69.50
ACM/Fixed	200 Mb/s	263 Mb/s	127xDS1	512QAM						-67.00	-67.00
ACM/Fixed	227 Mb/s	298 Mb/s	127xDS1	1024QAM						-63.25	-63.25
ACM/Fixed	245 Mb/s	322 Mb/s	127xDS1	2048QAM						-60.50	-60.50
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	4096QAM						-56.50	-56.50
ACM/Fixed	158 Mb/s	2 Mb/s	1xOC3	128QAM						-72.00	-72.00
ACM/Fixed	179 Mb/s	24 Mb/s	1xOC3	256QAM						-69.75	-69.75
ACM/Fixed	207 Mb/s	51 Mb/s	1xOC3	512QAM						-66.00	-66.00
ACM/Fixed	226 Mb/s	71 Mb/s	1xOC3	1024QAM						-63.25	-63.25
ACM/Fixed	245 Mb/s	90 Mb/s	1xOC3	2048QAM						-60.25	-60.25
ACM/Fixed	267 Mb/s	111 Mb/s	1xOC3	4096QAM						-56.50	-56.50

*[] See notes in last page



Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
40 MHz Channel											
ACM/Fixed 52 Mb/s	69 Mb/s	33xDS1	QPSK						-87.50	-87.50	-87.50
ACM/Fixed 121 Mb/s	158 Mb/s	77xDS1	16QAM						-79.50	-79.50	-79.50
ACM/Fixed 146 Mb/s	191 Mb/s	93xDS1	32QAM						-76.50	-76.50	-76.50
ACM/Fixed 178 Mb/s	234 Mb/s	113xDS1	64QAM						-74.25	-74.25	-74.25
ACM/Fixed 207 Mb/s	272 Mb/s	127xDS1	128QAM						-71.50	-71.50	-71.50
ACM/Fixed 237 Mb/s	311 Mb/s	127xDS1	256QAM						-68.50	-68.50	-68.50
ACM/Fixed 268 Mb/s	351 Mb/s	127xDS1	512QAM						-65.75	-65.75	-65.75
ACM/Fixed 300 Mb/s	394 Mb/s	127xDS1	1024QAM						-62.25	-62.25	-62.25
ACM/Fixed 329 Mb/s	432 Mb/s	127xDS1	2048QAM						-59.25	-59.25	-59.25
ACM/Fixed 358 Mb/s	469 Mb/s	127xDS1	4096QAM						-55.25	-55.25	-55.25
ACM/Fixed 181 Mb/s	26 Mb/s	1xOC3	64QAM						-74.00	-74.00	-74.00
ACM/Fixed 207 Mb/s	52 Mb/s	1xOC3	128QAM						-71.75	-71.75	-71.75
ACM/Fixed 238 Mb/s	83 Mb/s	1xOC3	256QAM						-68.50	-68.50	-68.50
ACM/Fixed 270 Mb/s	114 Mb/s	1xOC3	512QAM						-65.75	-65.75	-65.75
ACM/Fixed 309 Mb/s	154 Mb/s	1xOC3	1024QAM						-61.50	-61.50	-61.50
ACM/Fixed 329 Mb/s	174 Mb/s	1xOC3	2048QAM						-59.25	-59.25	-59.25
ACM/Fixed 358 Mb/s	203 Mb/s	1xOC3	4096QAM						-55.50	-55.50	-55.50
80 MHz Channel											
ACM/Fixed 105 Mb/s	138 Mb/s	66xDS1	QPSK						-84.00	-84.00	-84.00
ACM/Fixed 241 Mb/s	316 Mb/s	127xDS1	16QAM						-76.00	-76.00	-76.00
ACM/Fixed 302 Mb/s	397 Mb/s	127xDS1	32QAM						-72.50	-72.50	-72.50
ACM/Fixed 352 Mb/s	462 Mb/s	127xDS1	64QAM						-71.00	-71.00	-71.00
ACM/Fixed 403 Mb/s	530 Mb/s	127xDS1	128QAM						-68.75	-68.75	-68.75
ACM/Fixed 470 Mb/s	617 Mb/s	127xDS1	256QAM						-65.50	-65.50	-65.50
ACM/Fixed 543 Mb/s	712 Mb/s	127xDS1	512QAM						-62.00	-62.00	-62.00
ACM/Fixed 612 Mb/s	804 Mb/s	127xDS1	1024QAM						-58.50	-58.50	-58.50
ACM/Fixed 658 Mb/s	864 Mb/s	127xDS1	2048QAM						-55.75	-55.75	
ACM/Fixed 716 Mb/s	940 Mb/s	127xDS1	4096QAM						-52.00	-52.00	
ACM/Fixed 243 Mb/s	87 Mb/s	1xOC3	16QAM						-76.50	-76.50	-76.50
ACM/Fixed 309 Mb/s	154 Mb/s	1xOC3	32QAM						-72.50	-72.50	-72.50
ACM/Fixed 365 Mb/s	209 Mb/s	1xOC3	64QAM						-71.00	-71.00	-71.00
ACM/Fixed 408 Mb/s	252 Mb/s	1xOC3	128QAM						-68.75	-68.75	-68.75
ACM/Fixed 471 Mb/s	315 Mb/s	1xOC3	256QAM						-65.50	-65.50	-65.50
ACM/Fixed 542 Mb/s	386 Mb/s	1xOC3	512QAM						-62.50	-62.50	-62.50
ACM/Fixed 612 Mb/s	457 Mb/s	1xOC3	1024QAM						-58.75	-58.75	-58.75
ACM/Fixed 661 Mb/s	505 Mb/s	1xOC3	2048QAM						-56.00	-56.00	
ACM/Fixed 723 Mb/s	568 Mb/s	1xOC3	4096QAM						-52.00	-52.00	

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz			
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM				117.5	120.0	118.5	121.0	124.5
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM				112.5	115.0	113.75	116.25	119.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM				109.5	112.0	110.75	113.25	116.75
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM				107.0	109.5	108.0	110.5	114.5
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM				102.5	105.0	103.75	106.25	110.75
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM	119.75	122.25	127.25	115.25	117.75	116.5	119.0	122.5
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM	116.5	119.0	124.0	112.0	114.5	113.25	115.75	119.25
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM	114.25	116.75	121.75	109.75	112.25	111.0	113.5	117.0
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM	111.0	113.5	118.5	106.0	108.5	107.25	109.75	113.75
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM	106.75	109.25	114.75	101.75	104.25	103.0	105.5	110.0
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK						121.0	123.5	126.5
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM						112.25	114.75	118.25
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM						108.75	111.25	114.75
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM						105.25	107.75	111.25
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM						102.75	105.25	109.25
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM						100.25	102.75	107.25
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM						95.5	98.0	101.5
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM						91.5	94.0	97.5
12.5 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	123.75	126.25	132.25					
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	115.5	118.0	123.0					
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	112.0	114.5	119.5					
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	108.5	111.0	116.0					
ACM/Fixed	50 Mb/s	67 Mb/s	32xDS1	128QAM	106.5	109.0	114.0					
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	104.0	106.5	112.0					
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	99.25	101.75	106.75					
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	95.25	97.75	102.25					
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						118.0	120.5	123.5
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						108.75	111.25	114.75
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						106.25	108.75	112.25
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						103.5	106.0	109.5
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						100.75	103.25	107.25
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						97.0	99.5	104.0
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						94.0	96.5	100.0
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						89.0	91.5	95.0
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						85.75	88.25	91.25
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						80.0	82.5	86.0
25 MHz Channel												
ACM/Fixed	33 Mb/s	43 Mb/s	20xDS1	QPSK	120.0	122.5	128.5					
ACM/Fixed	75 Mb/s	98 Mb/s	48xDS1	16QAM	111.5	114.0	119.0					
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	32QAM	108.5	111.0	116.0					
ACM/Fixed	111 Mb/s	145 Mb/s	71xDS1	64QAM	106.25	108.75	113.75					
ACM/Fixed	130 Mb/s	170 Mb/s	83xDS1	128QAM	103.5	106.0	111.0					
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	256QAM	99.75	102.25	107.75					
ACM/Fixed	167 Mb/s	219 Mb/s	107xDS1	512QAM	96.75	99.25	104.25					
ACM/Fixed	189 Mb/s	249 Mb/s	121xDS1	1024QAM	91.75	94.25	98.75					
ACM/Fixed	205 Mb/s	268 Mb/s	127xDS1	2048QAM	87.5	90.0	95.0					
ACM/Fixed	222 Mb/s	291 Mb/s	127xDS1	4096QAM	83.25	85.75	89.25					

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
30 MHz Channel											
ACM/Fixed 39 Mb/s	51 Mb/s	25xDS1	QPSK						116.25	118.75	121.75
ACM/Fixed 90 Mb/s	118 Mb/s	57xDS1	16QAM						107.5	110.0	113.5
ACM/Fixed 109 Mb/s	143 Mb/s	70xDS1	32QAM						104.5	107.0	110.5
ACM/Fixed 132 Mb/s	174 Mb/s	84xDS1	64QAM						102.0	104.5	108.0
ACM/Fixed 155 Mb/s	204 Mb/s	100xDS1	128QAM						99.0	101.5	105.5
ACM/Fixed 180 Mb/s	237 Mb/s	116xDS1	256QAM						95.0	97.5	102.0
ACM/Fixed 200 Mb/s	263 Mb/s	127xDS1	512QAM						92.0	94.5	98.0
ACM/Fixed 227 Mb/s	298 Mb/s	127xDS1	1024QAM						87.25	89.75	93.25
ACM/Fixed 245 Mb/s	322 Mb/s	127xDS1	2048QAM						84.0	86.5	89.5
ACM/Fixed 267 Mb/s	350 Mb/s	127xDS1	4096QAM						78.0	80.5	84.0
ACM/Fixed 158 Mb/s	2 Mb/s	1xOC3	128QAM						98.0	100.5	104.5
ACM/Fixed 179 Mb/s	24 Mb/s	1xOC3	256QAM						95.25	97.75	102.25
ACM/Fixed 207 Mb/s	51 Mb/s	1xOC3	512QAM						91.0	93.5	97.0
ACM/Fixed 226 Mb/s	71 Mb/s	1xOC3	1024QAM						87.25	89.75	93.25
ACM/Fixed 245 Mb/s	90 Mb/s	1xOC3	2048QAM						83.75	86.25	89.25
ACM/Fixed 267 Mb/s	111 Mb/s	1xOC3	4096QAM						78.0	80.5	84.0
40 MHz Channel											
ACM/Fixed 52 Mb/s	69 Mb/s	33xDS1	QPSK						115.0	117.5	120.5
ACM/Fixed 121 Mb/s	158 Mb/s	77xDS1	16QAM						106.0	108.5	112.0
ACM/Fixed 146 Mb/s	191 Mb/s	93xDS1	32QAM						103.0	105.5	109.0
ACM/Fixed 178 Mb/s	234 Mb/s	113xDS1	64QAM						100.75	103.25	106.75
ACM/Fixed 207 Mb/s	272 Mb/s	127xDS1	128QAM						97.5	100.0	104.0
ACM/Fixed 237 Mb/s	311 Mb/s	127xDS1	256QAM						94.0	96.5	101.0
ACM/Fixed 268 Mb/s	351 Mb/s	127xDS1	512QAM						90.75	93.25	96.75
ACM/Fixed 300 Mb/s	394 Mb/s	127xDS1	1024QAM						86.25	88.75	92.25
ACM/Fixed 329 Mb/s	432 Mb/s	127xDS1	2048QAM						82.75	85.25	88.25
ACM/Fixed 358 Mb/s	469 Mb/s	127xDS1	4096QAM						76.75	79.25	82.75
ACM/Fixed 181 Mb/s	26 Mb/s	1xOC3	64QAM						100.5	103.0	106.5
ACM/Fixed 207 Mb/s	52 Mb/s	1xOC3	128QAM						97.75	100.25	104.25
ACM/Fixed 238 Mb/s	83 Mb/s	1xOC3	256QAM						94.0	96.5	101.0
ACM/Fixed 270 Mb/s	114 Mb/s	1xOC3	512QAM						90.75	93.25	96.75
ACM/Fixed 309 Mb/s	154 Mb/s	1xOC3	1024QAM						85.5	88.0	91.5
ACM/Fixed 329 Mb/s	174 Mb/s	1xOC3	2048QAM						82.75	85.25	88.25
ACM/Fixed 358 Mb/s	203 Mb/s	1xOC3	4096QAM						77.0	79.5	83.0

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[1] Ethernet	Max ^[2] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
80 MHz Channel											
ACM/Fixed 105 Mb/s	138 Mb/s	66xDS1	QPSK						111.5	114.0	117.0
ACM/Fixed 241 Mb/s	316 Mb/s	127xDS1	16QAM						102.5	105.0	108.5
ACM/Fixed 302 Mb/s	397 Mb/s	127xDS1	32QAM						99.0	101.5	105.0
ACM/Fixed 352 Mb/s	462 Mb/s	127xDS1	64QAM						97.5	100.0	103.5
ACM/Fixed 403 Mb/s	530 Mb/s	127xDS1	128QAM						94.75	97.25	101.25
ACM/Fixed 470 Mb/s	617 Mb/s	127xDS1	256QAM						91.0	93.5	97.5
ACM/Fixed 543 Mb/s	712 Mb/s	127xDS1	512QAM						87.0	89.5	93.0
ACM/Fixed 612 Mb/s	804 Mb/s	127xDS1	1024QAM						82.5	85.0	88.0
ACM/Fixed 658 Mb/s	864 Mb/s	127xDS1	2048QAM						78.25	80.75	
ACM/Fixed 716 Mb/s	940 Mb/s	127xDS1	4096QAM						72.5	75.0	
ACM/Fixed 243 Mb/s	87 Mb/s	1xOC3	16QAM						103.0	105.5	109.0
ACM/Fixed 309 Mb/s	154 Mb/s	1xOC3	32QAM						99.0	101.5	105.0
ACM/Fixed 365 Mb/s	209 Mb/s	1xOC3	64QAM						97.5	100.0	103.5
ACM/Fixed 408 Mb/s	252 Mb/s	1xOC3	128QAM						94.75	97.25	101.25
ACM/Fixed 471 Mb/s	315 Mb/s	1xOC3	256QAM						91.0	93.5	97.5
ACM/Fixed 542 Mb/s	386 Mb/s	1xOC3	512QAM						87.5	90.0	93.5
ACM/Fixed 612 Mb/s	457 Mb/s	1xOC3	1024QAM						82.75	85.25	88.25
ACM/Fixed 661 Mb/s	505 Mb/s	1xOC3	2048QAM						78.5	81.0	
ACM/Fixed 723 Mb/s	568 Mb/s	1xOC3	4096QAM						72.5	75.0	

*[] See notes in last page

Regarding EHP L6 and U6 when using unpaired frequencies see Eclipse user Manual for “Small non-standard T/R spacings”.

[1] 64 byte frames, physical layer, with DAC GE3.

[2] Enabling TDM transport will subtract equivalent capacity from available Ethernet Throughput figures shown.

[3] Contact Aviat Networks for Availability.

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are guaranteed values, at room temperature (20 to 30°C, 68 to 86°F), referenced to the ACU antenna port (including ACU losses) unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks and the Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc.

_d(lf)_IRU600v4_6-17-2020-010fc27





Technical Specifications

IRU600v4

Used in conjunction with Eclipse RAC 70

ANSI

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are guaranteed values, at room temperature (20 to 30°C, 68 to 86°F), referenced to the ACU antenna port (including ACU losses) unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



IRU General Specifications

General		
Frequency Band options	5.8, L6, U6, FCC 7, 10.5 and 11 GHz	
Modulation and Coding Options	Fixed and Adaptive	QPSK, 16, 32, 64, 128, 256, 512, 1024, 2048 and 4096 QAM
Channel Sizes Supported	3.75, 5, 10, 12.5, 20, 25, 30, 40, 60 and 80 MHz	
Capacity Range	Airlink Capacity	8-716 Mbit/s
	Ethernet / IP Throughput	15-940 Mbit/s
	Native TDM	5 - 127 x DS1

Eclipse Compatibility	
Radio Access Cards (RACs)	RAC 70/7X

Electrical and Mechanical							
Power Consumption, typical							
	32.0 dBm	29.5 dBm	29.0 dBm	25.0 dBm	20.0 dBm	TX Muted	
1+0 SP/HP unit (typical) 5.8 GHz	NA	NA	62W	55W	48W		43W
1+0 SP/HP unit (typical) L6 GHz	62W	NA	NA	55W	48W		43W
1+0 SP/HP unit (typical) U6/FCC 7 GHz	62W	NA	NA	55W	48W		43W
1+0 SP/HP unit (typical) 10.5/11 GHz	NA	60W	NA	55W	48W		43W
	37.5 dBm	34.0 dBm	33 dBm	32.0 dBm	27.5 dBm	27.0 dBm	TX Muted
1+0 EHP unit (typical) L6 GHz	113 W	95 W	NA	85 W	77 W	NA	46 W
1+0 EHP unit (typical) U6/FCC 7 GHz	119 W	102 W	NA	90 W	83 W	NA	46 W
1+0 EHP unit (typical) 11 GHz	NA	NA	97 W	NA	NA	87 W	46 W
Size / Weight (1+1 configuration)				SP/HP units		EHP units	
ACU+Chassis+2 RFU	2RU (3.5 in) x 19 in x 16.25 in[1]			32.5 lb		33.9 lb	
	2RU (88mm) x 482mm x 412mm			14.7 kg		15.4 kg	
Chassis+2 RFU	2RU (3.5 in) x 19 in x 12 in			28.0 lb		29.5 lb	
	2RU (88mm) x 482mm x 412mm			12.7 kg		13.4 kg	

Antenna Interface			
		5.8/L6 GHz	U6/FCC 7GHz
ACU Main Antenna Port Interface		CMR-137	UG 39
ACU Expansion Antenna Port Interface		CMR-137	UG 39
Extension Kit Antenna Port Interface, near top of rack		CPR-137G	CPR-90G
			10.5/11 GHz

Environmental		
Operating Temperature	Guaranteed	-10° to +55° C (14° to +131° F)
Humidity	Guaranteed	0 to 95%, non-condensing
Altitude	Guaranteed	4,500 meters (15,000 ft) AMSL

Standards Compliance		
EMC	FCC CFR 47, Part 15, ICES-003	
Operation	EN 300 019, Class 3.1E	
Storage	EN 300 019, Class 1.2	
Transportation	EN 300 019, Class 2.3	
Safety	INU/e	UL 60950-1, CSA C22.2 No. 60950-1-07
	IRU 600v4	UL 62368-1, CAN/CSA C22.2 No. 62368-1-14
Radio Frequency	5.8 GHz	FCC Part 15.407, ISED RSS-247, Issue 2
	L6 to 11 GHz	FCC CFR 47, Part 101, ISED Canada's SRSPs
NEBS [2]	GR-1089-CORE, GR-63-CORE	
Security	with Eclipse INUe	FIPS 197 validated (Certificate #C5)
Electric Power Substations [3]	IEEE 1613	

IF Specifications		
IF Frequency	Transmit/Receive	311 MHz/126 MHz
IF Cable Length		1000 ft (300m) max (limitation apply)

*[] See notes in last page

IRU General Specifications

IF Specifications Cont...

Test Point	RSSI Monitoring Point ^[4]						Test Points female
	TX Monitoring Port						SMA female
Emission Designators							
	3.75 MHz	5 MHz	10 MHz	12.5 MHz	20 MHz	25 MHz	
QPSK			10M0G7W	12M5G7W	20M0G7W	25M0G7W	
QAM	3M75D7W	5M00D7W	10M0D7W	12M5D7W	20M0D7W	25M0D7W	
			30 MHz	40 MHz	60 MHz	80 MHz	
QPSK			30M0G7W	40M0G7W	60M0G7W	80M0G7W	
QAM			30M0D7W	40M0D7W	60M0D7W	80M0D7W	

General Transmitter Specifications

General

Transmit Power Tolerance		-0 +1 dB
Transmitter Source		Synthesized
Frequency Stability		± 5 ppm
Manual Transmitter Power Control Range		Configurable in 0.1 dB steps from min to max power levels (Refer to TX Power Specifications)
	Resolution	0.1 dB
Automatic Transmitter Power Control	Range	Configurable over full available manual attenuation range
	Resolution / Speed	0.1 dB steps / 6 dB per second
Synthesizer Resolution		5 KHz
Channel Selection		By software control within tuning range of RFU
Transmitter Mute		> 50 dB

General Receiver Specifications

General

Receiver Source		Synthesized
Frequency Stability		± 5 ppm
Receiver Overload	BER = 1E-6	-22 dBm
	No damage	0 dBm
Residual (Background) Bit Error Rate		Better than 1E-13
RSSI Accuracy ^[4]	-40 to -70 dBm, +0 to +35°C	± 2dB
	-25 to -85 dBm, -10 to +55°C	± 4dB

Additional Protection Losses

IRU600	Contact Aviat Networks for details
--------	------------------------------------

*[] See notes in last page

Transmitter Specifications

(Operating with RAC70)

System

	5.8 GHz	L6 GHz	U6 GHz
Frequency Range (GHz)	5.7275 - 5.8475 ^[5]	5.925 - 6.425	6.425 - 6.930
TR-Spacings Supported (MHz) (Non-standard T-R options supported with spot tuned filters)	≥60	252.04	160, 170, 340
Standard Frequency Assignments Supported per Regulatory Plans	FCC Part 15.407, RSS-247, Issue 2	FCC Part 101, SRSP 305.9	FCC Part 101, SRSP 306.4
Number of RFU Options per band per power level	1	1	1

Transmitter Power Output Specifications, in dBm, Guaranteed

(Guaranteed values at 1+0 ACU antenna port. Includes all ACU losses related to filters, circulators and RF coax cable loss)

	5.8 GHz		L6 GHz			U6 GHz		
	Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP
QPSK	26.50	29.00	29.50	32.00	38.50	29.50	32.00	38.50
16QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
32QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
64QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
128QAM	26.50	29.00	29.00	31.50	37.00	29.00	31.50	37.00
256QAM	26.50	29.00	28.50	31.00	37.00	28.50	31.00	37.00
512QAM	26.50	29.00	28.00	30.50	36.00	28.00	30.50	36.00
1024QAM	26.00	28.50	27.00	29.50	34.50	27.00	29.50	34.50
2048QAM	24.50	27.00	25.50	28.00	33.50	25.50	28.00	33.50
4096QAM	24.00	26.50	25.00	27.50	31.50	25.00	27.50	31.50
256QAM (60/80MHz)			28.50	31.00	36.50			
512QAM (60/80MHz)			28.00	30.50	35.00			
1024QAM (60/80MHz)			27.00	29.50	33.50			
2048QAM (60/80MHz)			25.00	27.50	32.50			
4096QAM (60/80MHz)			24.50	27.00	30.50			
Min Power for channels ≤ 5MHz			11.5	11.5	17	11.5	11.5	17
Min Power for channels ≥ 10MHz	9	9	12.5	12.5	18.5	12.5	12.5	18.5

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6 , in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	5.8 GHz		L6 GHz			U6 GHz		
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP
3.75 MHz Channel											
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM			-93.00	-93.00	-93.00	-93.00	-93.00
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM			-88.00	-88.00	-88.00	-88.00	-88.00
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM			-85.00	-85.00	-85.00	-85.00	-85.00
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM			-83.00	-83.00	-83.00	-83.00	-83.00
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM			-79.00	-79.00	-79.00	-79.00	-79.00
5 MHz Channel											
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM			-90.75	-90.75	-90.75	-90.75	-90.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM			-87.50	-87.50	-87.50	-87.50	-87.50
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM			-85.25	-85.25	-85.25	-85.25	-85.25
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM			-82.00	-82.00	-82.00	-82.00	-82.00
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM			-78.25	-78.25	-78.25	-78.25	-78.25

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	5.8 GHz		L6 GHz			U6 GHz			
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP	
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	-93.00	-93.00	-94.25	-94.25	-94.25	-94.25	-94.25	-94.25
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	-85.25	-85.25	-86.50	-86.50	-86.50	-86.50	-86.50	-86.50
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	-81.75	-81.75	-83.00	-83.00	-83.00	-83.00	-83.00	-83.00
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	-78.25	-78.25	-79.50	-79.50	-79.50	-79.50	-79.50	-79.50
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM	-76.25	-76.25	-77.50	-77.50	-77.50	-77.50	-77.50	-77.50
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	-74.25	-74.25	-75.50	-75.50	-75.50	-75.50	-75.50	-75.50
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	-70.00	-70.00	-71.25	-71.25	-71.25	-71.25	-71.25	-71.25
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	-67.00	-67.00	-68.25	-68.25	-68.25	-68.25	-68.25	-68.25
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						-91.50	-91.50	-91.50
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						-83.00	-83.00	-83.00
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						-80.50	-80.50	-80.50
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						-77.75	-77.75	-77.75
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						-75.50	-75.50	-75.50
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						-72.25	-72.25	-72.25
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						-69.75	-69.75	-69.75
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						-65.75	-65.75	-65.75
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						-63.00	-63.00	-63.00
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						-59.25	-59.25	-59.25
30 MHz Channel												
ACM/Fixed	39 Mb/s	51 Mb/s	25xDS1	QPSK	-88.25	-88.25	-89.50	-89.50	-89.50	-89.50	-89.50	-89.50
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	16QAM	-80.50	-80.50	-81.75	-81.75	-81.75	-81.75	-81.75	-81.75
ACM/Fixed	109 Mb/s	143 Mb/s	70xDS1	32QAM	-77.50	-77.50	-79.00	-79.00	-79.00	-79.00	-79.00	-79.00
ACM/Fixed	132 Mb/s	174 Mb/s	84xDS1	64QAM	-75.00	-75.00	-76.50	-76.50	-76.50	-76.50	-76.50	-76.50
ACM/Fixed	155 Mb/s	204 Mb/s	100xDS1	128QAM	-72.50	-72.50	-73.75	-73.75	-73.75	-73.75	-73.75	-73.75
ACM/Fixed	180 Mb/s	237 Mb/s	116xDS1	256QAM	-69.00	-69.00	-70.50	-70.50	-70.50	-70.50	-70.50	-70.50
ACM/Fixed	200 Mb/s	263 Mb/s	127xDS1	512QAM	-66.50	-66.50	-68.00	-68.00	-68.00	-68.00	-68.00	-68.00
ACM/Fixed	227 Mb/s	298 Mb/s	127xDS1	1024QAM	-62.75	-62.75	-64.00	-64.00	-64.00	-64.00	-64.00	-64.00
ACM/Fixed	245 Mb/s	322 Mb/s	127xDS1	2048QAM	-60.00	-60.00	-61.25	-61.25	-61.25	-61.25	-61.25	-61.25
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	4096QAM	-56.00	-56.00	-57.25	-57.25	-57.25	-57.25	-57.25	-57.25
60 MHz Channel												
ACM/Fixed	78 Mb/s	103 Mb/s	49xDS1	QPSK			-86.25	-86.25	-86.25			
ACM/Fixed	167 Mb/s	220 Mb/s	106xDS1	16QAM			-79.25	-79.25	-79.25			
ACM/Fixed	217 Mb/s	285 Mb/s	127xDS1	32QAM			-75.50	-75.50	-75.50			
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	64QAM			-73.00	-73.00	-73.00			
ACM/Fixed	301 Mb/s	395 Mb/s	127xDS1	128QAM			-71.00	-71.00	-71.00			
ACM/Fixed	344 Mb/s	451 Mb/s	127xDS1	256QAM			-68.00	-68.00	-68.00			
ACM/Fixed	403 Mb/s	529 Mb/s	127xDS1	512QAM			-64.50	-64.50	-64.50			
ACM/Fixed	454 Mb/s	596 Mb/s	127xDS1	1024QAM			-60.75	-60.75	-60.75			
ACM/Fixed	491 Mb/s	645 Mb/s	127xDS1	2048QAM			-58.00	-58.00	-58.00			
ACM/Fixed	534 Mb/s	701 Mb/s	127xDS1	4096QAM			-54.25	-54.25	-54.25			

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	5.8 GHz			L6 GHz			U6 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	EHP	Standard Power	High Power	EHP
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM			122.0	124.5	130.0	122.0	124.5	130.0
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM			117.0	119.5	125.0	117.0	119.5	125.0
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM			114.0	116.5	122.0	114.0	116.5	122.0
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM			112.0	114.5	120.0	112.0	114.5	120.0
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM			107.5	110.0	116.0	107.5	110.0	116.0
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM			119.75	122.25	127.75	119.75	122.25	127.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM			116.5	119.0	124.5	116.5	119.0	124.5
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM			114.25	116.75	122.25	114.25	116.75	122.25
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM			111.0	113.5	119.0	111.0	113.5	119.0
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM			106.75	109.25	115.25	106.75	109.25	115.25
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	119.5	122.0	123.75	126.25	132.75	123.75	126.25	132.75
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	111.75	114.25	115.5	118.0	123.5	115.5	118.0	123.5
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	108.25	110.75	112.0	114.5	120.0	112.0	114.5	120.0
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	104.75	107.25	108.5	111.0	116.5	108.5	111.0	116.5
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM	102.75	105.25	106.5	109.0	114.5	106.5	109.0	114.5
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	100.75	103.25	104.0	106.5	112.5	104.0	106.5	112.5
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	96.5	99.0	99.25	101.75	107.25	99.25	101.75	107.25
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	93.0	95.5	95.25	97.75	102.75	95.25	97.75	102.75
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						121.0	123.5	130.0
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						112.0	114.5	120.0
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						109.5	112.0	117.5
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						106.75	109.25	114.75
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						104.5	107.0	112.5
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						100.75	103.25	109.25
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						97.75	100.25	105.75
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						92.75	95.25	100.25
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						88.5	91.0	96.5
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						84.25	86.75	90.75
30 MHz Channel												
ACM/Fixed	39 Mb/s	51 Mb/s	25xDS1	QPSK	114.75	117.25	119.0	121.5	128.0	119.0	121.5	128.0
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	16QAM	107.0	109.5	110.75	113.25	118.75	110.75	113.25	118.75
ACM/Fixed	109 Mb/s	143 Mb/s	70xDS1	32QAM	104.0	106.5	108.0	110.5	116.0	108.0	110.5	116.0
ACM/Fixed	132 Mb/s	174 Mb/s	84xDS1	64QAM	101.5	104.0	105.5	108.0	113.5	105.5	108.0	113.5
ACM/Fixed	155 Mb/s	204 Mb/s	100xDS1	128QAM	99.0	101.5	102.75	105.25	110.75	102.75	105.25	110.75
ACM/Fixed	180 Mb/s	237 Mb/s	116xDS1	256QAM	95.5	98.0	99.0	101.5	107.5	99.0	101.5	107.5
ACM/Fixed	200 Mb/s	263 Mb/s	127xDS1	512QAM	93.0	95.5	96.0	98.5	104.0	96.0	98.5	104.0
ACM/Fixed	227 Mb/s	298 Mb/s	127xDS1	1024QAM	88.75	91.25	91.0	93.5	98.5	91.0	93.5	98.5
ACM/Fixed	245 Mb/s	322 Mb/s	127xDS1	2048QAM	84.5	87.0	86.75	89.25	94.75	86.75	89.25	94.75
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	4096QAM	80.0	82.5	82.25	84.75	88.75	82.25	84.75	88.75

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	5.8 GHz		L6 GHz			U6 GHz			
				Standard Power	High Power	Standard Power	High Power	EHP	Standard Power	High Power	EHP	
60 MHz Channel												
ACM/Fixed	78 Mb/s	103 Mb/s	49xDS1	QPSK			115.75	118.25	124.75			
ACM/Fixed	167 Mb/s	220 Mb/s	106xDS1	16QAM			108.25	110.75	116.25			
ACM/Fixed	217 Mb/s	285 Mb/s	127xDS1	32QAM			104.5	107.0	112.5			
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	64QAM			102.0	104.5	110.0			
ACM/Fixed	301 Mb/s	395 Mb/s	127xDS1	128QAM			100.0	102.5	108.0			
ACM/Fixed	344 Mb/s	451 Mb/s	127xDS1	256QAM			96.5	99.0	104.5			
ACM/Fixed	403 Mb/s	529 Mb/s	127xDS1	512QAM			92.5	95.0	99.5			
ACM/Fixed	454 Mb/s	596 Mb/s	127xDS1	1024QAM			87.75	90.25	94.25			
ACM/Fixed	491 Mb/s	645 Mb/s	127xDS1	2048QAM			83.0	85.5	90.5			
ACM/Fixed	534 Mb/s	701 Mb/s	127xDS1	4096QAM			78.75	81.25	84.75			

*[] See notes in last page

Transmitter Specifications

(Operating with RAC70)

System

	FCC 7 GHz	10.5 GHz	11 GHz
Frequency Range (GHz)	6.875 - 7.125	10.500-10.680	10.700 - 11.700
TR-Spacings Supported (MHz) (Non-standard T-R options supported with spot tuned filters)	150	65	490, 500
Standard Frequency Assignments Supported per Regulatory Plans	FCC Part 74, 101	FCC Part 101, SRSP 310.5	FCC Part 101, SRSP 310.7
Number of RFU Options per band per power level	1 (same as U6 GHz)	1	1

Transmitter Power Output Specifications, in dBm, Guaranteed

(Guaranteed values at 1+0 ACU antenna port. Includes all ACU losses related to filters, circulators and RF coax cable loss)

	FCC 7 GHz			10.5 GHz		11 GHz		
	Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
QPSK	29.50	32.00	38.00			27.50	30.00	33.00
16QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
32QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
64QAM	29.00	31.50	36.50	26.00	28.50	26.50	29.00	32.50
128QAM	29.00	31.50	36.50	25.50	28.00	26.00	28.50	32.50
256QAM	28.50	31.00	36.50	25.00	27.50	25.50	28.00	32.50
512QAM	28.00	30.50	35.50			25.00	27.50	31.00
1024QAM	27.00	29.50	34.00			24.00	26.50	30.00
2048QAM	25.50	28.00	33.00			23.50	26.00	29.00
4096QAM	25.00	27.50	31.00			21.50	24.00	27.50
256QAM (60/80MHz)						25.50	28.00	32.00
512QAM (60/80MHz)						25.00	27.50	31.00
1024QAM (60/80MHz)						24.00	26.50	29.50
2048QAM (60/80MHz)						22.50	25.00	
4096QAM (60/80MHz)						20.50	23.00	
Min Power for channels ≤ 5MHz	11.5	11.5	16.5	8.5	8.5	9	9	12.5
Min Power for channels ≥ 10MHz	12.5	12.5	18			10	10	13

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz			
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM				-91.50	-91.50	-92.00	-92.00	-92.00
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM				-86.50	-86.50	-87.25	-87.25	-87.25
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM				-83.50	-83.50	-84.25	-84.25	-84.25
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM				-81.50	-81.50	-82.00	-82.00	-82.00
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM				-77.50	-77.50	-78.25	-78.25	-78.25
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM	-90.75	-90.75	-90.75	-89.25	-89.25	-90.00	-90.00	-90.00
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM	-87.50	-87.50	-87.50	-86.00	-86.00	-86.75	-86.75	-86.75
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM	-85.25	-85.25	-85.25	-83.75	-83.75	-84.50	-84.50	-84.50
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM	-82.00	-82.00	-82.00	-80.50	-80.50	-81.25	-81.25	-81.25
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM	-78.25	-78.25	-78.25	-76.75	-76.75	-77.50	-77.50	-77.50

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz			
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP	
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK						-93.50	-93.50	-93.50
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM						-85.75	-85.75	-85.75
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM						-82.25	-82.25	-82.25
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM						-78.75	-78.75	-78.75
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM						-76.75	-76.75	-76.75
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM						-74.75	-74.75	-74.75
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM						-70.50	-70.50	-70.50
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM						-67.50	-67.50	-67.50
12.5 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	-94.25	-94.25	-94.25					
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	-86.50	-86.50	-86.50					
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	-83.00	-83.00	-83.00					
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	-79.50	-79.50	-79.50					
ACM/Fixed	50 Mb/s	67 Mb/s	32xDS1	128QAM	-77.50	-77.50	-77.50					
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	-75.50	-75.50	-75.50					
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	-71.25	-71.25	-71.25					
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	-68.25	-68.25	-68.25					
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						-90.50	-90.50	-90.50
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						-82.25	-82.25	-82.25
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						-79.75	-79.75	-79.75
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						-77.00	-77.00	-77.00
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						-74.75	-74.75	-74.75
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						-71.50	-71.50	-71.50
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						-69.00	-69.00	-69.00
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						-65.00	-65.00	-65.00
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						-62.25	-62.25	-62.25
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						-58.50	-58.50	-58.50
25 MHz Channel												
ACM/Fixed	33 Mb/s	43 Mb/s	20xDS1	QPSK	-90.50	-90.50	-90.50					
ACM/Fixed	75 Mb/s	98 Mb/s	48xDS1	16QAM	-82.50	-82.50	-82.50					
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	32QAM	-79.50	-79.50	-79.50					
ACM/Fixed	111 Mb/s	145 Mb/s	71xDS1	64QAM	-77.25	-77.25	-77.25					
ACM/Fixed	130 Mb/s	170 Mb/s	83xDS1	128QAM	-74.50	-74.50	-74.50					
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	256QAM	-71.25	-71.25	-71.25					
ACM/Fixed	167 Mb/s	219 Mb/s	107xDS1	512QAM	-68.75	-68.75	-68.75					
ACM/Fixed	189 Mb/s	249 Mb/s	121xDS1	1024QAM	-64.75	-64.75	-64.75					
ACM/Fixed	205 Mb/s	268 Mb/s	127xDS1	2048QAM	-62.00	-62.00	-62.00					
ACM/Fixed	222 Mb/s	291 Mb/s	127xDS1	4096QAM	-58.25	-58.25	-58.25					
30 MHz Channel												
ACM/Fixed	39 Mb/s	51 Mb/s	25xDS1	QPSK						-88.75	-88.75	-88.75
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	16QAM						-81.00	-81.00	-81.00
ACM/Fixed	109 Mb/s	143 Mb/s	70xDS1	32QAM						-78.00	-78.00	-78.00
ACM/Fixed	132 Mb/s	174 Mb/s	84xDS1	64QAM						-75.50	-75.50	-75.50
ACM/Fixed	155 Mb/s	204 Mb/s	100xDS1	128QAM						-73.00	-73.00	-73.00
ACM/Fixed	180 Mb/s	237 Mb/s	116xDS1	256QAM						-69.50	-69.50	-69.50
ACM/Fixed	200 Mb/s	263 Mb/s	127xDS1	512QAM						-67.00	-67.00	-67.00
ACM/Fixed	227 Mb/s	298 Mb/s	127xDS1	1024QAM						-63.25	-63.25	-63.25
ACM/Fixed	245 Mb/s	322 Mb/s	127xDS1	2048QAM						-60.50	-60.50	-60.50
ACM/Fixed	267 Mb/s	350 Mb/s	127xDS1	4096QAM						-56.50	-56.50	-56.50

*[] See notes in last page

Receiver Specifications

(Operating with RAC70)

Receiver Threshold BER=1E-6, in dBm, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
40 MHz Channel											
ACM/Fixed 52 Mb/s	69 Mb/s	33xDS1	QPSK						-87.50	-87.50	-87.50
ACM/Fixed 121 Mb/s	158 Mb/s	77xDS1	16QAM						-79.50	-79.50	-79.50
ACM/Fixed 146 Mb/s	191 Mb/s	93xDS1	32QAM						-76.50	-76.50	-76.50
ACM/Fixed 178 Mb/s	234 Mb/s	113xDS1	64QAM						-74.25	-74.25	-74.25
ACM/Fixed 207 Mb/s	272 Mb/s	127xDS1	128QAM						-71.50	-71.50	-71.50
ACM/Fixed 237 Mb/s	311 Mb/s	127xDS1	256QAM						-68.50	-68.50	-68.50
ACM/Fixed 268 Mb/s	351 Mb/s	127xDS1	512QAM						-65.75	-65.75	-65.75
ACM/Fixed 300 Mb/s	394 Mb/s	127xDS1	1024QAM						-62.25	-62.25	-62.25
ACM/Fixed 329 Mb/s	432 Mb/s	127xDS1	2048QAM						-59.25	-59.25	-59.25
ACM/Fixed 358 Mb/s	469 Mb/s	127xDS1	4096QAM						-55.25	-55.25	-55.25
80 MHz Channel											
ACM/Fixed 105 Mb/s	138 Mb/s	66xDS1	QPSK						-84.00	-84.00	-84.00
ACM/Fixed 241 Mb/s	316 Mb/s	127xDS1	16QAM						-76.00	-76.00	-76.00
ACM/Fixed 302 Mb/s	397 Mb/s	127xDS1	32QAM						-72.50	-72.50	-72.50
ACM/Fixed 352 Mb/s	462 Mb/s	127xDS1	64QAM						-71.00	-71.00	-71.00
ACM/Fixed 403 Mb/s	530 Mb/s	127xDS1	128QAM						-68.75	-68.75	-68.75
ACM/Fixed 470 Mb/s	617 Mb/s	127xDS1	256QAM						-65.50	-65.50	-65.50
ACM/Fixed 543 Mb/s	712 Mb/s	127xDS1	512QAM						-62.00	-62.00	-62.00
ACM/Fixed 612 Mb/s	804 Mb/s	127xDS1	1024QAM						-58.50	-58.50	-58.50
ACM/Fixed 658 Mb/s	864 Mb/s	127xDS1	2048QAM						-55.75	-55.75	
ACM/Fixed 716 Mb/s	940 Mb/s	127xDS1	4096QAM						-52.00	-52.00	

*[] See notes in last page

System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz			
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP	
3.75 MHz Channel												
ACM/Fixed	8 Mb/s	10 Mb/s	5xDS1	16QAM				117.5	120.0	118.5	121.0	124.5
ACM/Fixed	11 Mb/s	15 Mb/s	7xDS1	32QAM				112.5	115.0	113.75	116.25	119.75
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	64QAM				109.5	112.0	110.75	113.25	116.75
ACM/Fixed	17 Mb/s	22 Mb/s	10xDS1	128QAM				107.0	109.5	108.0	110.5	114.5
ACM/Fixed	19 Mb/s	25 Mb/s	12xDS1	256QAM				102.5	105.0	103.75	106.25	110.75
5 MHz Channel												
ACM/Fixed	12 Mb/s	16 Mb/s	7xDS1	16QAM	119.75	122.25	127.25	115.25	117.75	116.5	119.0	122.5
ACM/Fixed	15 Mb/s	19 Mb/s	9xDS1	32QAM	116.5	119.0	124.0	112.0	114.5	113.25	115.75	119.25
ACM/Fixed	19 Mb/s	24 Mb/s	11xDS1	64QAM	114.25	116.75	121.75	109.75	112.25	111.0	113.5	117.0
ACM/Fixed	22 Mb/s	29 Mb/s	14xDS1	128QAM	111.0	113.5	118.5	106.0	108.5	107.25	109.75	113.75
ACM/Fixed	27 Mb/s	35 Mb/s	17xDS1	256QAM	106.75	109.25	114.75	101.75	104.25	103.0	105.5	110.0
10 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK						121.0	123.5	126.5
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM						112.25	114.75	118.25
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM						108.75	111.25	114.75
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM						105.25	107.75	111.25
ACM/Fixed	51 Mb/s	67 Mb/s	32xDS1	128QAM						102.75	105.25	109.25
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM						100.25	102.75	107.25
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM						95.5	98.0	101.5
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM						91.5	94.0	97.5
12.5 MHz Channel												
ACM/Fixed	13 Mb/s	17 Mb/s	8xDS1	QPSK	123.75	126.25	132.25					
ACM/Fixed	29 Mb/s	38 Mb/s	18xDS1	16QAM	115.5	118.0	123.0					
ACM/Fixed	36 Mb/s	47 Mb/s	23xDS1	32QAM	112.0	114.5	119.5					
ACM/Fixed	45 Mb/s	59 Mb/s	29xDS1	64QAM	108.5	111.0	116.0					
ACM/Fixed	50 Mb/s	67 Mb/s	32xDS1	128QAM	106.5	109.0	114.0					
ACM/Fixed	56 Mb/s	74 Mb/s	36xDS1	256QAM	104.0	106.5	112.0					
ACM/Fixed	67 Mb/s	88 Mb/s	43xDS1	512QAM	99.25	101.75	106.75					
ACM/Fixed	73 Mb/s	96 Mb/s	47xDS1	1024QAM	95.25	97.75	102.25					
20 MHz Channel												
ACM/Fixed	26 Mb/s	34 Mb/s	16xDS1	QPSK						118.0	120.5	123.5
ACM/Fixed	61 Mb/s	80 Mb/s	39xDS1	16QAM						108.75	111.25	114.75
ACM/Fixed	71 Mb/s	94 Mb/s	45xDS1	32QAM						106.25	108.75	112.25
ACM/Fixed	89 Mb/s	117 Mb/s	57xDS1	64QAM						103.5	106.0	109.5
ACM/Fixed	102 Mb/s	134 Mb/s	65xDS1	128QAM						100.75	103.25	107.25
ACM/Fixed	119 Mb/s	156 Mb/s	76xDS1	256QAM						97.0	99.5	104.0
ACM/Fixed	132 Mb/s	173 Mb/s	85xDS1	512QAM						94.0	96.5	100.0
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	1024QAM						89.0	91.5	95.0
ACM/Fixed	162 Mb/s	212 Mb/s	104xDS1	2048QAM						85.75	88.25	91.25
ACM/Fixed	176 Mb/s	231 Mb/s	113xDS1	4096QAM						80.0	82.5	86.0
25 MHz Channel												
ACM/Fixed	33 Mb/s	43 Mb/s	20xDS1	QPSK	120.0	122.5	128.5					
ACM/Fixed	75 Mb/s	98 Mb/s	48xDS1	16QAM	111.5	114.0	119.0					
ACM/Fixed	90 Mb/s	118 Mb/s	57xDS1	32QAM	108.5	111.0	116.0					
ACM/Fixed	111 Mb/s	145 Mb/s	71xDS1	64QAM	106.25	108.75	113.75					
ACM/Fixed	130 Mb/s	170 Mb/s	83xDS1	128QAM	103.5	106.0	111.0					
ACM/Fixed	150 Mb/s	197 Mb/s	96xDS1	256QAM	99.75	102.25	107.75					
ACM/Fixed	167 Mb/s	219 Mb/s	107xDS1	512QAM	96.75	99.25	104.25					
ACM/Fixed	189 Mb/s	249 Mb/s	121xDS1	1024QAM	91.75	94.25	98.75					
ACM/Fixed	205 Mb/s	268 Mb/s	127xDS1	2048QAM	87.5	90.0	95.0					
ACM/Fixed	222 Mb/s	291 Mb/s	127xDS1	4096QAM	83.25	85.75	89.25					

*[] See notes in last page



System Gain Specifications

(Operating with RAC70)

System Gain BER=1E-6, in dB, Guaranteed

(Guaranteed, includes all 1+0 ACU losses related to filters, circulators and RF coax cable loss)

Air Link Capacity	Max ^[6] Ethernet	Max ^[7] DS1s	Modulation	FCC 7 GHz			10.5 GHz		11 GHz		
				Standard Power	High Power	EHP	Standard Power	High Power	Standard Power	High Power	EHP
30 MHz Channel											
ACM/Fixed 39 Mb/s	51 Mb/s	25xDS1	QPSK						116.25	118.75	121.75
ACM/Fixed 90 Mb/s	118 Mb/s	57xDS1	16QAM						107.5	110.0	113.5
ACM/Fixed 109 Mb/s	143 Mb/s	70xDS1	32QAM						104.5	107.0	110.5
ACM/Fixed 132 Mb/s	174 Mb/s	84xDS1	64QAM						102.0	104.5	108.0
ACM/Fixed 155 Mb/s	204 Mb/s	100xDS1	128QAM						99.0	101.5	105.5
ACM/Fixed 180 Mb/s	237 Mb/s	116xDS1	256QAM						95.0	97.5	102.0
ACM/Fixed 200 Mb/s	263 Mb/s	127xDS1	512QAM						92.0	94.5	98.0
ACM/Fixed 227 Mb/s	298 Mb/s	127xDS1	1024QAM						87.25	89.75	93.25
ACM/Fixed 245 Mb/s	322 Mb/s	127xDS1	2048QAM						84.0	86.5	89.5
ACM/Fixed 267 Mb/s	350 Mb/s	127xDS1	4096QAM						78.0	80.5	84.0
40 MHz Channel											
ACM/Fixed 52 Mb/s	69 Mb/s	33xDS1	QPSK						115.0	117.5	120.5
ACM/Fixed 121 Mb/s	158 Mb/s	77xDS1	16QAM						106.0	108.5	112.0
ACM/Fixed 146 Mb/s	191 Mb/s	93xDS1	32QAM						103.0	105.5	109.0
ACM/Fixed 178 Mb/s	234 Mb/s	113xDS1	64QAM						100.75	103.25	106.75
ACM/Fixed 207 Mb/s	272 Mb/s	127xDS1	128QAM						97.5	100.0	104.0
ACM/Fixed 237 Mb/s	311 Mb/s	127xDS1	256QAM						94.0	96.5	101.0
ACM/Fixed 268 Mb/s	351 Mb/s	127xDS1	512QAM						90.75	93.25	96.75
ACM/Fixed 300 Mb/s	394 Mb/s	127xDS1	1024QAM						86.25	88.75	92.25
ACM/Fixed 329 Mb/s	432 Mb/s	127xDS1	2048QAM						82.75	85.25	88.25
ACM/Fixed 358 Mb/s	469 Mb/s	127xDS1	4096QAM						76.75	79.25	82.75
80 MHz Channel											
ACM/Fixed 105 Mb/s	138 Mb/s	66xDS1	QPSK						111.5	114.0	117.0
ACM/Fixed 241 Mb/s	316 Mb/s	127xDS1	16QAM						102.5	105.0	108.5
ACM/Fixed 302 Mb/s	397 Mb/s	127xDS1	32QAM						99.0	101.5	105.0
ACM/Fixed 352 Mb/s	462 Mb/s	127xDS1	64QAM						97.5	100.0	103.5
ACM/Fixed 403 Mb/s	530 Mb/s	127xDS1	128QAM						94.75	97.25	101.25
ACM/Fixed 470 Mb/s	617 Mb/s	127xDS1	256QAM						91.0	93.5	97.5
ACM/Fixed 543 Mb/s	712 Mb/s	127xDS1	512QAM						87.0	89.5	93.0
ACM/Fixed 612 Mb/s	804 Mb/s	127xDS1	1024QAM						82.5	85.0	88.0
ACM/Fixed 658 Mb/s	864 Mb/s	127xDS1	2048QAM						78.25	80.75	
ACM/Fixed 716 Mb/s	940 Mb/s	127xDS1	4096QAM						72.5	75.0	

*[] See notes in last page

Regarding EHP L6 and U6 when using unpaired frequencies see Eclipse user Manual for "Small non-standard T/R spacings".

[1] Includes waveguide terminator (0.75 in/19mm).

[2] IRU 600v4 complies in all areas except for R9-16 and R10-5, GR-1089-CORE. INU complies in all areas except for R10-5, GR-1089-CORE and R4-34, O4-35, O4-36, GR-63-CORE.

[3] Complies with the exception of clause 3.1.1 (operational temperature range) and clause 10 (device cooling).

[4] RSSI accuracy applies when there is no potential interferer signal present within +/- 10MHz of the Rx. Frequency.

[5] Please contact your Aviat Networks representative for details.

[6] 64 byte frames, physical layer, with DAC GE3.

[7] Enabling TDM transport will subtract equivalent capacity from available Ethernet Throughput figures shown.

Disclaimer:

This material is for informational purposes only and does not constitute a legal obligation to deliver any product, feature or functionality and should not be relied upon in making purchasing decisions. All specifications are guaranteed values, at room temperature (20 to 30°C, 68 to 86°F), referenced to the ACU antenna port (including ACU losses) unless otherwise stated, and are subject to change without notice. The development, release and timing of any features or functionality described for our products is at Aviat Networks' sole discretion. For details of availability, please contact your Aviat Networks Sales Representative.



WWW.AVIATNETWORKS.COM

Aviat, Aviat Networks and the Aviat logo are trademarks or registered trademarks of Aviat Networks, Inc.

_d(lf)_IRU600v4_12-17-2019-1ac2970

