

	Global	North America	Global
	5G	LTE-A Pro	
LTE CATEGORY	Cat 20	Cat 12	
Peak D/L	Up to 2 Gbps	Up to 600 Mbps	
Peak U/L	Up to 1 Gbps	Up to 150 Mbps	
5G Frequency Bands	Sub-6: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41*, n48, n66, n71, n77, n78, n79		
4G LTE Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 700(B12), 700(B13), 700(B14), 700(B17), 850(B18), 850(B19), 800(B20), 1900(B25), 850(B26), 700(B28), 700(B29), 2300(B30), 1500(B32), TDD B38, TDD B39, TDD B40, TDD B41, TDD B42, TDD B46, CBRS B48, 1700(B66), 600(B71)	700(B29), 2300(B30), 1500(B32), TDD B41, TDD B42, TDD B43, TDD B46, CBRS B48, 1700(B66)	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 850(B18), 850(B19), 800(B20), 850(B26), 700(B28), 700(B29), 2300(B30), 1500(B32), TDD B41, TDD B42, TDD B43, TDD B46, CBRS B48, 1700(B66)
3G WCDMA/HSPA+ Frequency Bands	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)
APPROVALS			
Regulatory	FCC, IC, PTCRB, GCF, CE, RED, RCM	FCC, IC, PTCRB, GCF	CE, RED, RCM
Carrier	Pending: Verizon, AT&T, T-Mobile	AT&T FirstNet, Verizon, US Cellular, Sprint, Telus	
PART NUMBERS	1104708 (Single 4x4) 1104709 (Dual 2x2)	1103981 (Single) 1103982 (Dual)	1103980 (Single) 1103983 (Dual)

*only supported on 4x4 configuration

	Specification		Specification
HOST INTERFACES	5 Gigabit RJ-45 Ethernet ports	LAN (ETHERNET/USB/	DHCP Server
	2 USB 3.0 type-A ports	WI-FI/BLUETOOTH/ SERIAL)	VLAN Virtual BSSIDs
	1 RS-232 serial port (DB-9 connector)	SERVICE	PPPoE
	1 Auxiliary RJ-45 Input/Output port		AP Isolation
	4 SIM Slots (Dual SIM per radio)	SATELLITE NAVIGATION	Dedicated 48 channel GNSS Receiver supporting GPS, GLONASS,
	5 SMA antenna connectors (2 cellular, 2 diversity, 1 GNSS)	(GNSS)	BeiDou, Galileo
	7 RP-SMA antenna connectors (3x3 Wi-Fi WAN, 3x3 Wi-Fi AP. 1 Bluetooth)		Tracking Sensitivity: -162 dBm
SECURITY	AAA: 802.1x/Radius authentication with Wi-Fi and		Reports (Update Rate 1Hz): NMEA, TAIP
	Ethernet		Reliable Store and Forward via serial, TCP or UDP
	Firewall: Port forwarding and filtering		Inertial Navigation Sensors (Accelerometer and Gyro)
	WLAN Encryption: WPA2 Personal/Enterprise	NETWORK MANAGEMENT	Airlink Mobility Manager (AMM): available as cloud based service or as licensed enterprise application
	WLAN MAC Address filtering		Status dashboard showing at-a-glance fleet health
	FIPS 140-2		 Remote management, configuration and software updates
WI-FI	Dual Radio, dual concurrent 3x3 MIMO 802.11 b/g/n/ac		 Location-based analytics and diagnostics: Network
	Dual Band 2.4/5 GHz (each radio)		Coverage Maps and Trails; Link Utilization; Bandwidth
	Support for 128 clients		Consumption
	WWPA2 Enterprise		 Configurable geo-zone based event monitoring and alerting
	Default mode: Wi-Fi as WAN and Wi-Fi built-in vehicle AP		Live vehicle location tracking
	High output power 21 dBm (per channel)		Optional fleet operations pack: vehicle diagnostics reporting
	Captive Portal		and mobile asset tracking





	Specification		Specification	
INPUT/OUTPUT	Configurable I/O GPIOs (5 pins total – 4 DB9 & 1 Power	VEHICLE TELEMETRY		
	connector)		Diagnostic real time alerts/reports (via AMM)	
	Digital input: 0-36 VDC with optional pullup (Dry contact	INDUSTRY	Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950	
	sense input) Digital Open Collector Output > sinking 500 mA	CERTIFICATIONS	Vehicle Usage: E-Mark (72/245/EEC, 2009/19/EC), ISO7637-2, SAE J1455 (Shock & Vibration)	
ENVIRONMENTAL	Operating Temperature: -30°C to +70°C / -22°F to +158°F		Environmental: RoHS2, REACH, WEEE	
	Storage Temperature: -40°C to +85°C / -40°F to +185°F		Rail Usage: EN50155 (Rolling Stock)	
	Humidity: 95% RH @ 60C	RELIABILITY	MTBF: 23.22 years (Telcordia SR-332 Issue3 Method1)	
	IP64 rated ingress protection	SUPPORT AND		
	MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity	WARRANTY	3-year standard warranty; Optional 2-year warranty Extension Includes unrestricted device software upgrades	
POWER	Input/Operating Voltage: 7 to 36 VDC	ACCESSORIES	In the box: DC Power cable, Quick Start Guide and SMA wrench	
	Power modes: ON 30W (2.5A @12V); Standby 135mW	///////////////////////////////////////	Mounting bracket (6001024)	
	(11mA@12V)		AC Adapter (6001023)	
	Built-in protection against voltage transients including 5 VDC engine cranking		I/O Cable (6001095)	
	Ignition Sense with time delay shutdown		8-in-1 Dome Antenna (6001344 Black/6001345 White)	
NETWORK AND ROUTING	0		6-in-1 Dome Antenna (6001364 Black/ 6001363 White)	
	LAN Segmentation		3-in-1 Wi-Fi Antenna (6001283 Black/6001284 White)	
	WAN/LAN Connection Policy Management		See <u>website</u> for more antenna options	
	QoS: Application/ Traffic Priority Queuing	DIMENSIONS	272mm x 220mm x 60mm (10.71in x 8.66in x 2.36in)	
	Load Balancing Over Multiple WAN Links		Weight: 2.4kg / 5.3 lb	
	WAN Monitors: Connection Failure Recovery			
	Configurable MTU size			
	Multiple LAN Support	+		
	Customize transmission buffer size			
	Static Routing			
	WAN Ethernet			
VPN	Integrated with ACM VPN Server			
	IPsec protocol with IKEv1/IKEv2	186.12 mm	E C C C C C C C C C C	
	Encryption: 3DES/AES128/AES256			
	Hashing: MD5/SHA1/SHA256/SHA512			
	Key Exchange: DHGroup2/5/14/15/16/17			
	Support LAN to LAN and Host to LAN		000000	
	Up to 10 concurrent tunnels per link			
	MOBIKE protocol			
	IP compression			
	Full/Split Tunnel		la William al	
	Dead Peer Detection (DPD)			

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Related AirLink Products

AIRLINK DEVICE MANAGEMENT SOLUTIONS

AirLink Management Service (ALMS)



- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure

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- Deployable in the enterprise data center (on-premises) or in the cloud
- Advanced, end-to-end network and asset management for both fixed and mobile networks.
- Remote, real-time configuration, control and troubleshooting of AirLink devices

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AirLink Connection Manager



- VPN appliance built from the ground up for AirLink routers & gateways
- Simplify deployment and management of your VPN solution, extending the enterprise to the network edge for fixed and mobile endpoints
- Carrier agnostic ACM doesn't require fixed and/or public IP
- Compatible with FIPS 140-2, and always-on VPN capability

AIRLINK ANTENNA SOLUTIONS

AirLink Antennas



- Tested and certified to provide guaranteed performance with all AirLink routers and gateways
- Accelerate deployment with always-on, end-to-end connectivity

About Sierra Wireless

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Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is the leading IoT solutions provider that combines devices, network and software to unlock value in the connected economy. Companies globally are adopting IoT to improve operational efficiency, create better customer experiences, improve their business models and create new revenue streams. Whether it's a solution to help a business securely connect edge devices to the cloud, or a software/API solution to help manage processes associated with billions of connected assets, or a platform to extract real-time data to make the best business decisions, Sierra Wireless will work with you to create the right industry-specific solution for your next IoT endeavor. Sierra Wireless has more than 1,300 employees globally and operates R&D centers in North America, Europe and Asia.

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