## 4x4 MiMo 4G/5G Dome Antenna Kit

LG-IN2447



Low Profile 4x4 4G/5G MiMo 6x6 MiMo Dual Band WiFi **GPS/GNSS Active Antenna 26dB LNA** 

The LG-IN2447 range has been designed to provide 4x4 4G/5G MiMo performance from 617-960/1710-6000MHz combined with GPS/GNSS and 6x6 MiMo WiFi 2.4/5.0GHz in a compact low profile housing.

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The antenna is designed to be panel mounted and can be fitted on a conductive or nonconductive panel. Supplied with integrated flame retardant RG174 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments and applications. The antenna radome is available in black or white and meets IK10 for vandal resistance and IP69K for ingress protection.

The integrated GPS/GNSS module supports GPS, Glonass, Galileo, QZSS and Compass with 26dB LNA gain. This GPS module features advanced filtering for LTE B13/14 designed to minimise potential in band interference.

LG-IN2447 is supplied as a complete plug and play kit with integrated 5m (16') ultra-low loss TPE extension cables and SMA (m) connectors for 4G/5G and GPS and Rev Pol SMA for WiFi.



**Technical Drawing** 



Certified IP69K Impact Resistant **Ingress Protected** 



Halogen Free Radome -UL94-V0



UV, Ozone, High & Low Temperature Protected



Environmentally **Compliant - Meets** RoHS, REACH - PVC Free

PART No. COLOUR P.C. HOUSING: SEE TABLE FOR COLOUR CABLES CABLE + HSS LOOSE LG-IN2447-LC JET BLACK (RAL 9005) 11x HEATSHRINK SLEEVE CABLE + HSS LOOSE LG-IN2447-W-LC SIGNAL WHITE (RAL 9003) SUPPLIED LOOSE (SE1-0698) 81mm 3.2in 1x FME(f) (GPS/GNSS -¢Þ ٩D SLOTTED NUT AND 1x GNSS C29FR-FP-5SP-GNSS - CS29FR CABLE 5m [16.4 ft.] LONG - WRAPTOR CABLE LABELS - GNSS. BLACK, WHITE TEXT, IN 2 POSNS EACH CABLE. WASHE 42.CELL C32SP-5SJ-5G'X - CS32 CABLE 5m [16.4 ft.] LONG - WRAPTOR CABLE LABELS 4G/5G-A/ 4G/5G-B/ 4G/5G-C/ 4G/5G-C/. YELLOW, WHITE TEXT, IN 2 POSNS FLAME RETARDANT RG174 CABLE Ø 2.8mm, 300mm [11.8 in LONG 11 POSITIONS. 4G/5G-'A'/ 4G/ EACH CABLE. 52 WIFI C329P-S6MRV-WIFIX' - CS32 CABLE 5m [16.4 ft.] LONG - WRAPTOR CABLE LABELS - WIFI '1' WIFI '2' WIFI '3' WIFI '4' WIFI '5' WIFI '6'. RED, WHITE TEXT, IN 2 POSNS EACH CABLE. COLOUR EXT. CABLES PART No. P.C. HOUSING: SEE TABLE FOR COLOUR CABLE + HSS FITTED LG-IN2447 JET BLACK (RAL 9005) CABLE + HSS FITTED 31mm 3.2in] LG-IN2447-W SIGNAL WHITE (RAL 9003) 1X GNSS C29FR-FP-SSP-GNSS - CS29FR CABLE 5m [16.4 ft.] LONG - WRAPTOR CABLE LABELS - GNSS. BLACK, WHITE TEXT, IN 2 POSNS EACH CABLE. 1x FME(f) - FME(m) UNDER HSS (GPS/GNSS) SLOTTED NUT AND SHAKEPROOF WASHER ACELL C325P-S5J-SGYX - C532 CABLE 5m (16.4 ft.) LONG - WRAPTOR CABLE LABELS-4G/5G-AY 4G/5G-BY 4G/5G-CY 4G/5G-D'. YELLOW, WHITE TEXT, IN 2 POSNS ł 4G/5G-'A'/ 4G/ EACH CABLE. FLAME RETARDANT RG174 CABLE EACH OAGLE. &XWIEI C3259-SSMARV-WIFIY' - CS32 CABLE 5m [16.4 ft.] LONG - WRAPTOR CABLE LABELS - WIFI '1Y WIFI '2Y WIFI '3Y WIFI '47 WIFI '6'. RED, WHITE TEXT, IN 2 POSINS EACH CABLE. Ø2.8mm, 300mm [11.8 in] LONG 11 POSITIONS. -------4x SMA(m) - SMA(f) UNDER HSS (CELL A-D) -6x SMA(f) - SMA(m) UNDER HSS (WIFI 1-6) 180 ALUMINIUM V CORROSION PROTECTION M18 STAINLES

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		LG-IN2447-W	LG-IN2447-W-LC	LG-IN2447	LG-IN2447-LC	
Electrical Data						
Frequency Range (MH		s		4x 617-960 / 1710-6000		
	WiFi Elements		6x 2.4/4.9-6GHz			
		617-960MHz	4			
Peak Gain: Isotropic : (dBi) <del>/</del>	4G/5G Elements	s 1710-3800MHz	8			
	dBi)ŧ	4900-6000MHz	9			
	WiFi Elements	2.4 GHz	9			
		4.9-6.0GHz	9			
Typical Efficiency **		617-960MHz	>50%			
	4G/5G Elements			>75%		
		4900-6000MHz		>85%		
	WiFi Elements			>70%		
Isolation ***	4G/5G Elements	3		>10dB		
	Wifi Elements		>12dB			
Correlation Co-efficient		\$		< 0.2		
Newinel Inc Jan -	WiFi Elements		<0.1			
Nominal Impedance				50Ω		
GPS/GNSS Data	- )			1562-1612		
Frequency Range (MH	<u></u>		<2.0:1 ± 4MHz			
Gain: LNA			26dB			
Out of band rejection			>40dB (@ > +/- 100MHz f)			
Typical Noise Figure			-2.7dB			
Notch Filter rejection @	)787MHz		24dB			
Operating Voltage	· · · · · · · · · · · · · · · · · · ·		3 - 5V DC			
Typcal Current (mA)			15			
Mechanical Data						
	Height		80 (3.1")			
Dimensions (mm)	Diameter		180 (7.1")			
Operating Temp	-40°/ +80°C (-40° / +176°F )					
Colour			White	Black		
Ingress & Impact Prote	ction			IK10 & IP69K		
Mounting Data						
Mounting type				Panel mount		
Max panel thickness (mm)			7 (0.27")			
Mounting hole (mm)				19 (3/4")		
Extension Cable Data		GPS ca	GPS cable All other cables		ables	
		FR CS29 (UN118.03 / EN45545-2 HL2Compliant)		CS32 (UN118.03 / EN45545-2 Compliant)		
All Cables	Туре	Fitted	Loose	Fitted	Loose	
	Diameter (mm)			5 (0.2")		
	Length (m)			5 (16')		
erminations						
4G/5G			4x SMA (m)			
WiFi	6x Reverse Polarity SMA					

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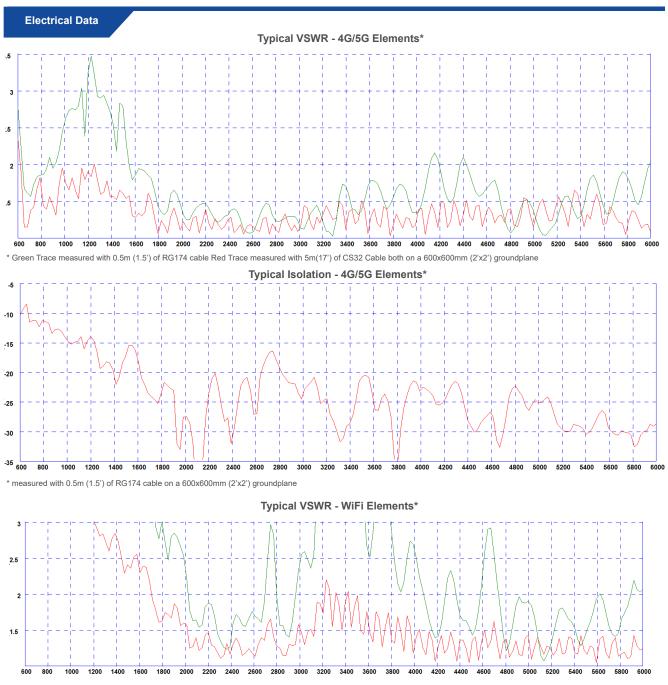
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\* Green Trace measured with 0.5m (1.5') of RG174 cable Red Trace measured with 5m(17') of CS32 Cable both on a 600x600mm (2'x2') groundplane