Ultra Low Profile MiMo WiFi Antenna



L[G]M[X]-24-58-5RPSP



Ultra Low Profile

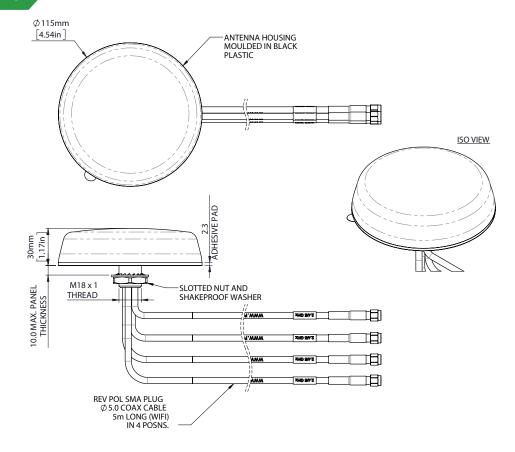
Up to 4 x 4 MiMo Dual Band WiFi Optional GPS/GNSS Active Antenna 26dB LNA Ideal for M2M and IoT applications

The L[G]M[X]-24-58 range has been designed to provide MiMo dual band WiFI coverage in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 2.4-2.5/4.9-6GHz.

The antenna is designed to be panel mounted on vehicles or devices and can be fitted on a conductive or non- conductive panel. Supplied with integrated flame retardant CS32 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 LGM variants have an integrated GPS/GNSS module with 26dB LNA gain. The antenna is available with a black or white radome.

Technical Drawing LPM4B-24-58-5RPSP





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Product Data

Part No.		LPM2-24-58-5RPSP	LPM3-24-58-5RPSP	LPM4-24-58-5RPSP	LGM2-24-58-5RPSP	LGM3-24-58-5RPSP	LGM4-24-58-5RPS	
Frequency Range	Elements 1 -4	2.4/5.0 GHz						
	Element 5	- 1562-1612MHz						
Peak Gain: Isotropic +	Element 1 -4: 2.4-2.5GHz	4dBi	4dBi	6dBi	4dBi	4dBi	6dBi	
	Elements 1 -4: 4.9- 6.0GHz	5dBi	6dBi	9dBi	5dBi	6dBi	9dBi	
Typical VSWR*				<	2:1			
Typical Isolation*		>12dB						
Pattern		Omni-directional						
Nominal Impedance	te 50Ω							
Max Input Power (W)					10			
GPS/GNSS Data - Ele	ment 5							
Frequency Range			-			1562-1612MHz		
LNA Gain			-			26dB		
Polarisation		- Right Hand Circular						
Operating Voltage						3-5VDC (Fed via Coa	x)	
Current			-			Typical <20mA		
Mechanical Data								
	Diameter	115 (4.52")						
	Height	30 (1.18")						
Operating Temp		-30° / +70°C (-22° / 158°F)						
Material	UV Stable ASA Plastic (Black) Geloy PC/ASA (White)							
Colour		Black or White (Add 'W' to part number for White i.e. LPM2W-24-58-5RPSP)						
Typical Weight		175g	200g	225g	200g	225g	250g	
Mounting Data								
Fixing		Panel Mount - 18mm (3/4")						
Cable Data								
Elements 1 - 4: WiFi	Cable Type	CS32						
	Diameter	5mm (0.2")						
	Length	5m (17')						
	Termination	4x Rev Pol SMA Plugs						
Element 5: GPS/GNS:	Cable Type	- RG174						
	Diameter		- 2.8mm (0.1")					
	S Length		- 5m (17')					
	Termination		-	- SMA Plug				



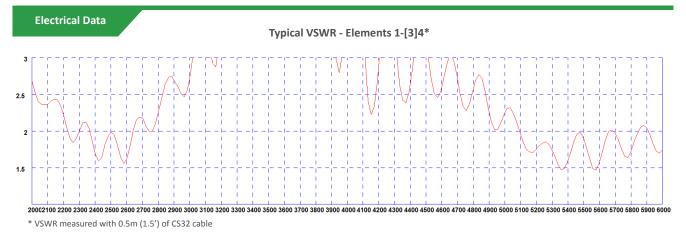
⁺ Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss

^{*} Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable

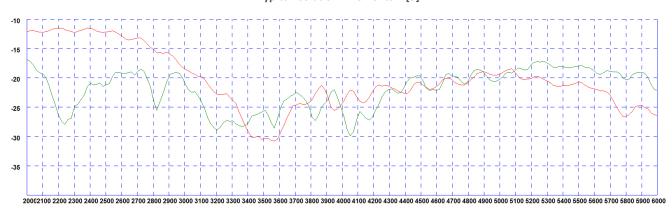
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Typical Isolation - Elements 1-[3]4*

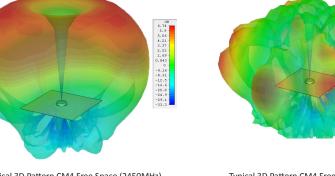


*Isolation measured with 0.5m (1.5') of CS32 cable Red Plot = Adjacent Elements Green Plot = Opposite Elements

Pattern Data

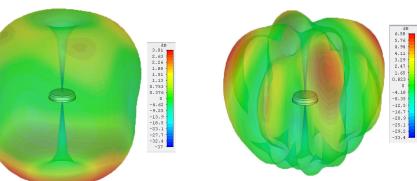
Typical 3D Pattern CM4 Ground Plane (2450MHz)

Typical 3D Pattern CM4 Free Space (2450MHz)



Typical 3D Pattern CM4 Free Space (5400MHz)

Typical 3D Pattern CM4 Ground Plane (5400MHz)



Panorama Antennas Ltd

Frogmore, London, SW18 1HF, United Kingdom T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com W: www.panorama-antennas.com

