Directional 4x4MiMo 4G/5G Antenna with GNSS PANORAMA PANTENNAS



WMM4GG-6-60



- 4x4 MiMo High Gain Directional Antenna for 4G/5G
- Frequency range 617-960/1710-6000MHz
- Integrated High Performance GPS/GNSS Antenna Module
- Suitable for wall or mast mounting

The WMM4GG-6-60 is a high gain directional 4x4 MiMo antenna for 4G and 5G networks. It incorporates four pairs of wideband element assemblies in a single housing and is designed to support fixed site CAT18/20 client devices. It offers 6dBi peak gain for 617- 960MHz and 9dBi peak gain for 1710-6000MHz.

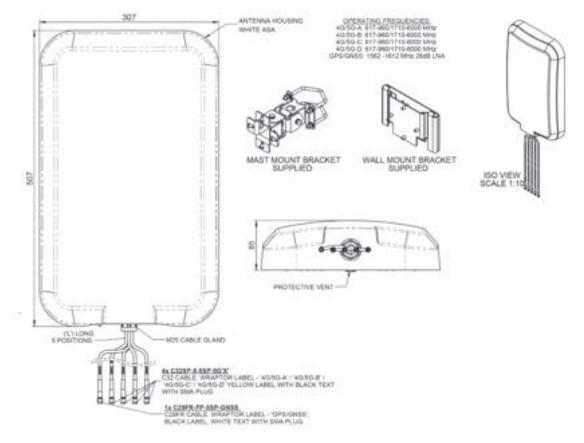
The antenna also includes an active, high performance GPS/GNSS antenna module with advanced filtering to give satellite acquisition resilience when used in LTE B13/14 and enables the user to have real time location of their asset.

The weather resistant housing is designed for wall or mast mounting with the supplied hardware. WMM4GG-6-60-5FKJ version is fitted with FAKRA D jacks.

The standard WMM4G-6-60-5SP version has 5m length ultra-low loss CS32 type coaxial cables which eliminates exposed connector joints and simplifies the installation process The WMM4GG-6-60-05NJ version has 50cm length cables, fitted with N type jack, which is ideal for installations that require a longer cable run, where Panorama's CS240 or CS400 type coaxial cable can be used to minimise the cable insertion loss.

The WMM4GG-6-60 is a value added product for network operators and service providers by improving the link resilience to the router, achieving increased data rates for the subscriber, resulting in customer satisfaction and retention.

Technical Drawing WMM4GG-6-60-5SP Shown



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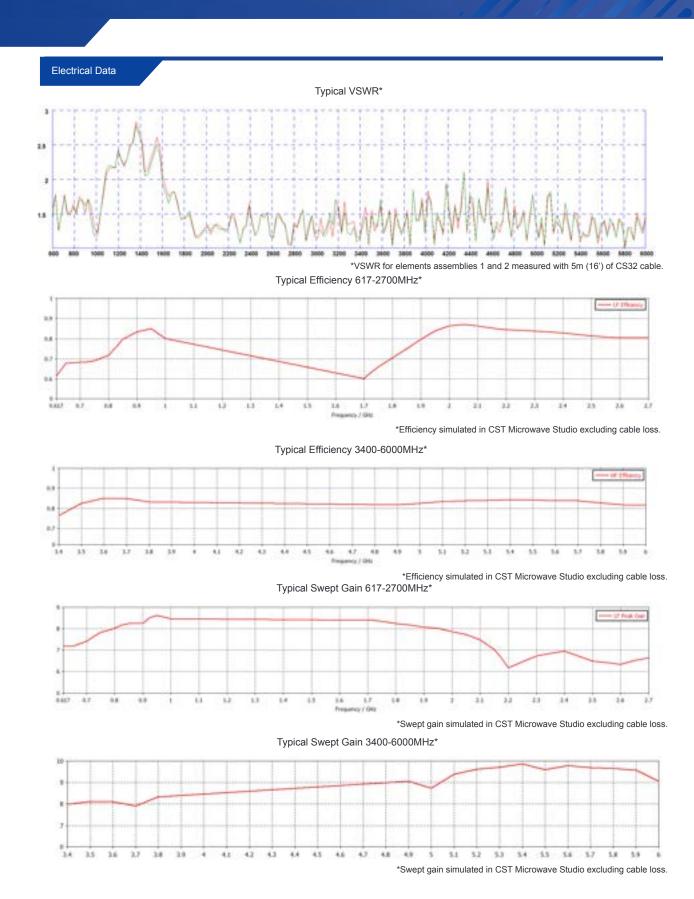
Product Data

Part No.					
		WMM4GG-6-60-5SP	WMM4GG-6-60-5FKJ	WMM4GG-6-60-05NJ	
Electrical Data					
Frequency range (MHz)		617-960/1710-6000			
Operational bands		4G/5G			
Radiation pattern		Directional			
Nominal polarisation		+/- 45deg / Vertical			
r eak gairi	617-960MHz		6dBi		
(excl cable loss)+	1710-6000MHz		9dBi		
Efficiency - excluding cable loss (all bands)		> 60%			
Correlation co-efficient (all bands)		< 0.2			
Max input power (W)		20 Watts			
GPS/GNSS Data					
Frequency range (MHz)		1562-1612			
Typical LNA gain (dB)		26 +/- 3			
Out of band rejection		>40dB (@ > +/- 100MHz f)			
Noise figure (dB)			<2.7		
Notch Filter rejection @787MHz (dB)			24dB		
Typical Current (mA)		15			
Nominal Operating Vo	oltage		3-5 V DC		
Mechanical Data					
Dimensions (mm)	Height		507 (19.96")		
	Width		307 (12.01")		
	Depth		85 (3.34")		
Operating temp (°C)		-40° / +80°C (-40° / 176°F)			
Material		ASA			
Colour		White			
IP Rating			IP66		
Radome material certifications		UL94-HB, UL746C-f2			
Weight (g)		5400			
Survival wind speed (m/s)			55		
Typical wind load @ 45 m/s (N)		200			
Mounting Data					
Fixing		wall mount / flush wall mount /mast mount			
Mounting bracket material		Coated steel / Aluminium / Stainless Steel			
Pole diameter (mm)			20-50 / (0.78 - 1.96")		
Cable & Connector	Data				
Cable Type		Cell Cables: CS32 FRZH	GNSS Cable: CS29 FRZH (Both m	eet EN6722 / EN45545-2)	
Diameter (mm)		5 (0.2")			
Length (m)		5 (16.4')		0.5 (19")	
Connector		SMA(m) x 5	FAKRA D x 4	N Socket (f) x 5	

⁺ Peak gain derived from CST Microwave Studio and excludes cable loss.

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