

WMMGG-7-27

Wall Mount MiMo Antenna + GPS/GNSS

18/07/2018 v.2



Supports MiMo & diversity across 2G /3G / 4G
Two wideband elements with gain
Wall / mast mount
Integrated active GPS/GNSS antenna

The WMMGG antenna provides an innovative and future proof solution for 2G / 3G and 4G networks. Incorporating two separately fed ultra wideband elements in a single housing along with an active GPS/GNSS antenna the WMMG is equipped to provide client side MiMo and diversity support for the networks of today and tomorrow.

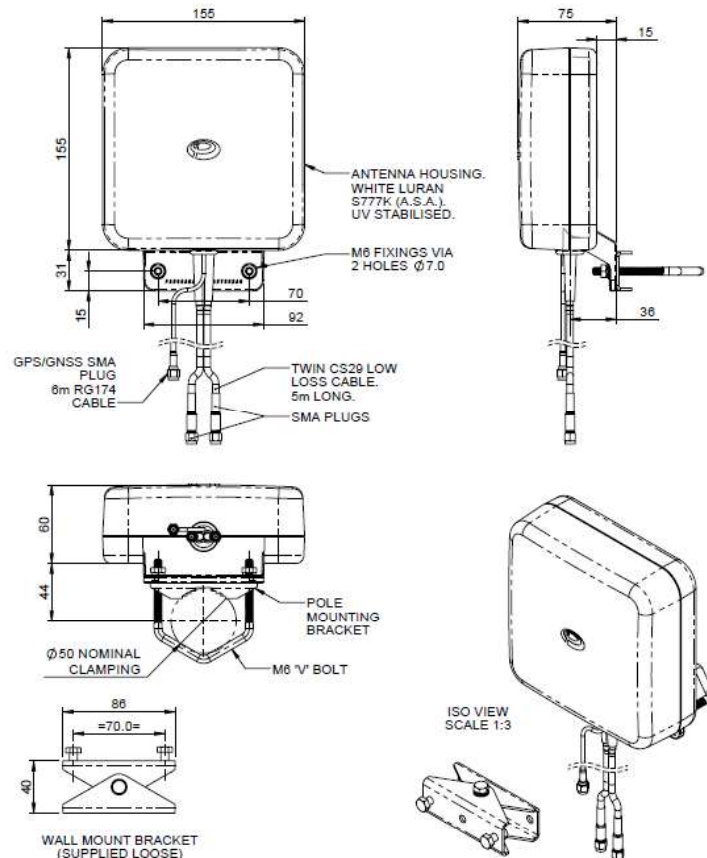
With 2dBi gain at 698-960MHz, 5dBi gain at 1710-2170MHz and 4dBi gain at 2.2-2.7GHz the WMMG provides extra gain performance where it is needed most. The GPS/GNSS module offers an integrated 26dB gain LNA.

The rugged, weatherproof housing is designed for wall mounting. Wall and mast mount brackets are provided.

Versions with 5m (17') continuous cables with SMA plugs fitted and with short (1') cables with N (f) connectors are both available allowing both plug and play functionality and flexibility for longer cable runs.

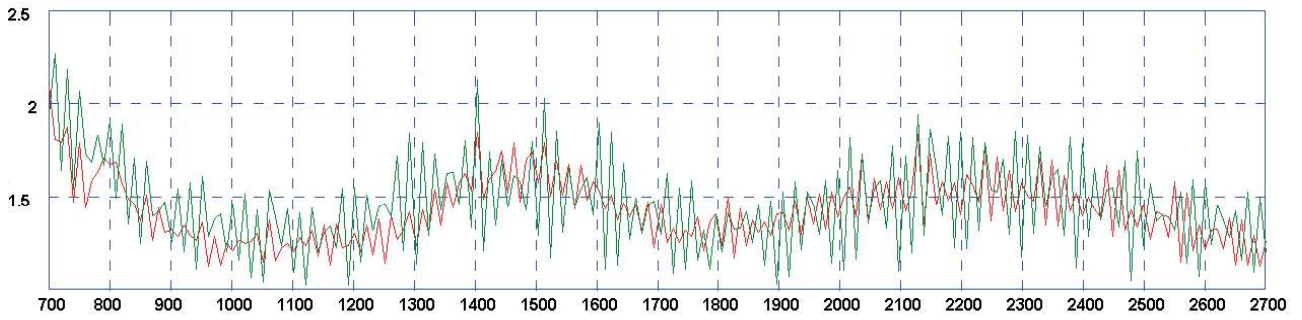
Technical Drawing

WMMGG-7-27-5SP shown



Part No.		WMMGG-7-27-5SP	WMMGG-7-27-03NJ
Electrical Data			
Frequency Range (MHz)	Element 1	698-960 / 1710-2700	
	Element 2	698-960 / 1710-2700	
Operational bands		2G / 3G / 4G	
Typical VSWR		< 2:1	
Peak Gain (excluding cable loss)	698-960MHz	2dBi	
	1710-2170 MHz	5dBi	
	2.2-2.7 GHz	4dBi	
Efficiency - excluding cable loss (all bands)		> 50%	
Correlation co-efficient (all bands)		< 0.2	
Element isolation		> 20dB	
Max input power (W)		20 Watts	
Impedance		50Ω	
GPS/GNSS Data			
Frequency Range (MHz)		1562-1612MHz	
LNA Gain (dB)		26	
Polarisation		Right Hand Circular	
Operating Voltage		3-5VDC (Fed via Coax)	
Current		Typical 15mA	
Mechanical Data			
Dimensions (mm)	Height	155 (6.1")	
	Width	155 (6.1")	
Operating temp (°C)		-30° / +80°C (-22° / 176°F)	
Material		ASA	
Colour		RAL9010 (Pure White)	
Weight (g)	1100	400	
Mounting Data			
Fixing		Wall mount / mast mount / desk mount	
Mounting bracket material		Stainless steel / Aluminium	
Pole diameter (mm)		20-50 / (0.78 - 1.96")	
Cable Data			
Type	2 x CS29 Coax (Cell LTE) 1x RG174 (GPS/GNSS)		2 x CS29 Coax (Cell LTE) 1x RG174 (GPS/GNSS)
Diameter (mm)	5 (0.2") 2.8 (0.1") (GPS/GNSS)		5 (0.2") 2.8 (0.1") (GPS/GNSS)
Length (m)	5 (16') 6 (20') (GPS/GNSS)		0.3 (1') 0.3 (1') (GPS/GNSS)
Termination	2 x SMA (m) 1x SMA (m) (GPS/GNSS)		2 x N (f) 1x N (f) (GPS/GNSS)

Typical VSWR Elements 1 & 2 *

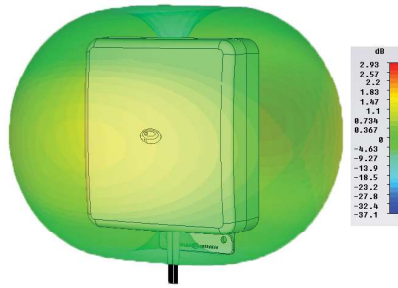


*VSWR Measured with 5m (16') of CS29 cable

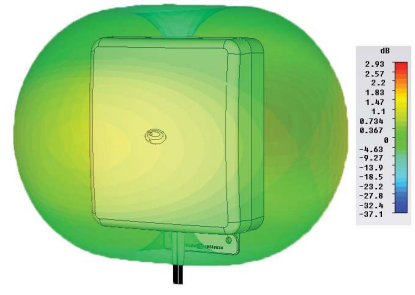
3D Gain Plot (750MHz)



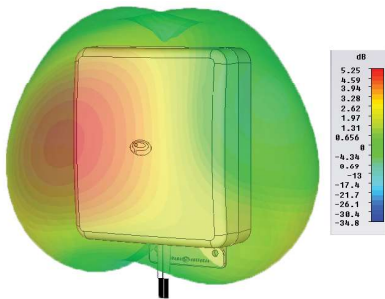
3D Gain Plot (850MHz)



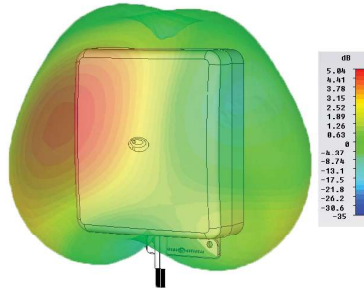
3D Gain Plot (950MHz)



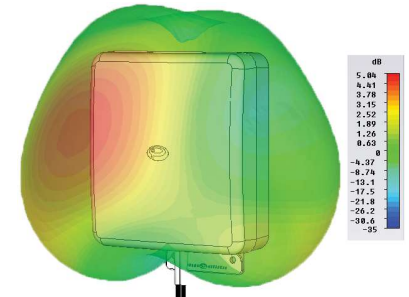
3D Gain Plot (1800MHz)



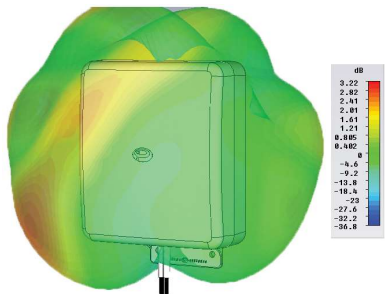
3D Gain Plot (1900MHz)



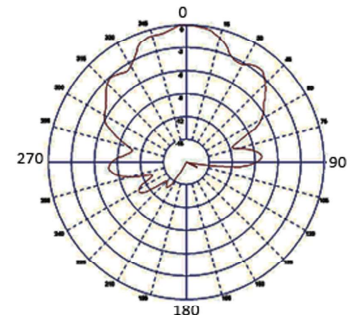
3D Gain Plot (2100MHz)



3D Gain Plot (2600MHz)



Element 3: Typical E Plane Pattern (1602MHz)



*3D plots simulated in CST Microwave Studio without additional cable loss. Element 3 pattern measured in free space.

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