2G/3G/4G WMM8G-7-27

Wall Mount Gain MiMo Antenna

V4 16/06/16



WMM8G-7-27

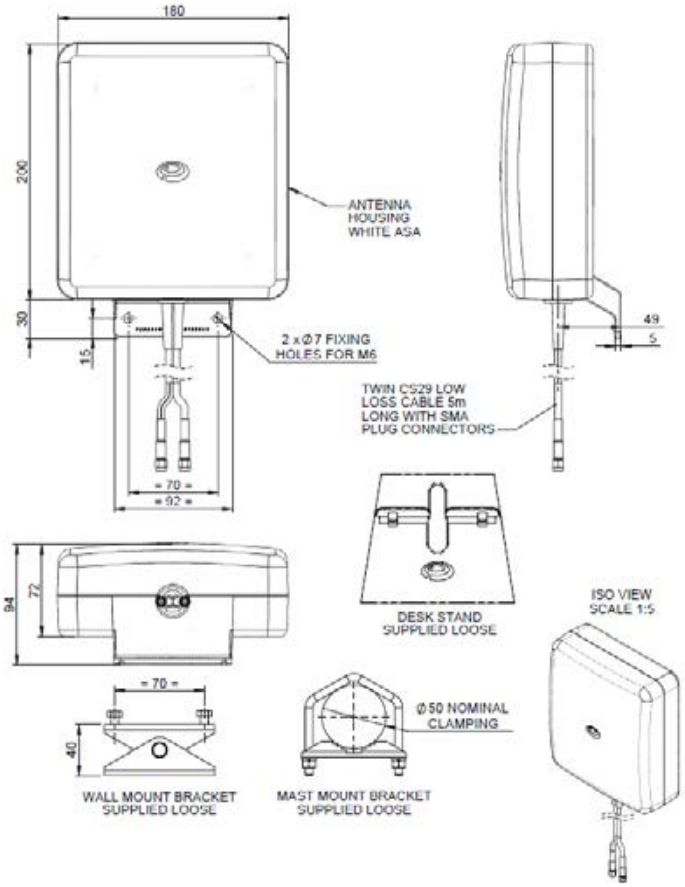
Supports MiMo & diversity across 3G & 4G
Two wideband elements with gain
Durable wall mount housing
Suitable for mast, wall and desk mounting

The WMM8G-7-27 antenna is a high directional gain 2x2 MiMo signal boosting antenna for 2G, 3G and 4G networks. Incorporating two separately fed wideband elements in a single housing the WMM8G-7-27 is equipped to provide client side MiMo and diversity support for 2G, 3G and 4G networks. With 6dBi of peak gain at 698-960MHz and 9dBi peak gain at 1710-2700MHz the WMM8G-7-27 provides extra gain for next generation networks.

The rugged, weather resistant housing is designed for wall mounting and wall and mast mount brackets are provided. Supplied with fitted low loss double shielded twin cable the WMM8G-7-27 minimises exposed connector joints and simplifies cable management for easy installation.

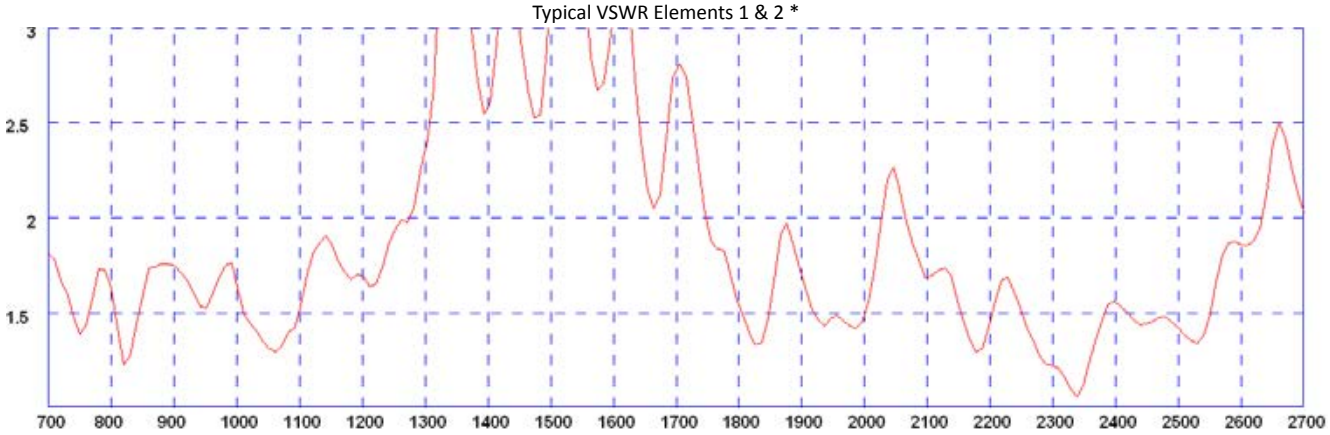
The WMM8G-7-27 is an cost effective value added product for network operators and service providers ensuring a stable link with improved data rates for subscribers thereby improving satisfaction and retention.

Technical Drawing



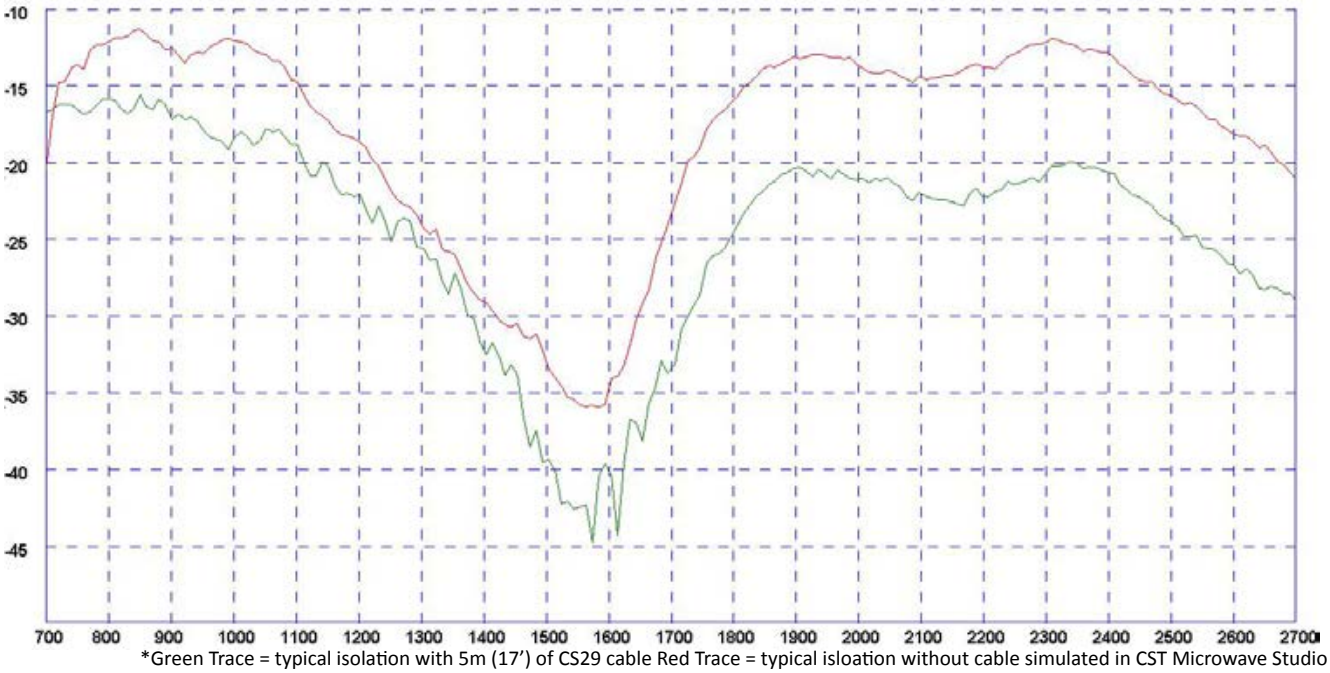
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Typical VSWR Elements 1 & 2 *



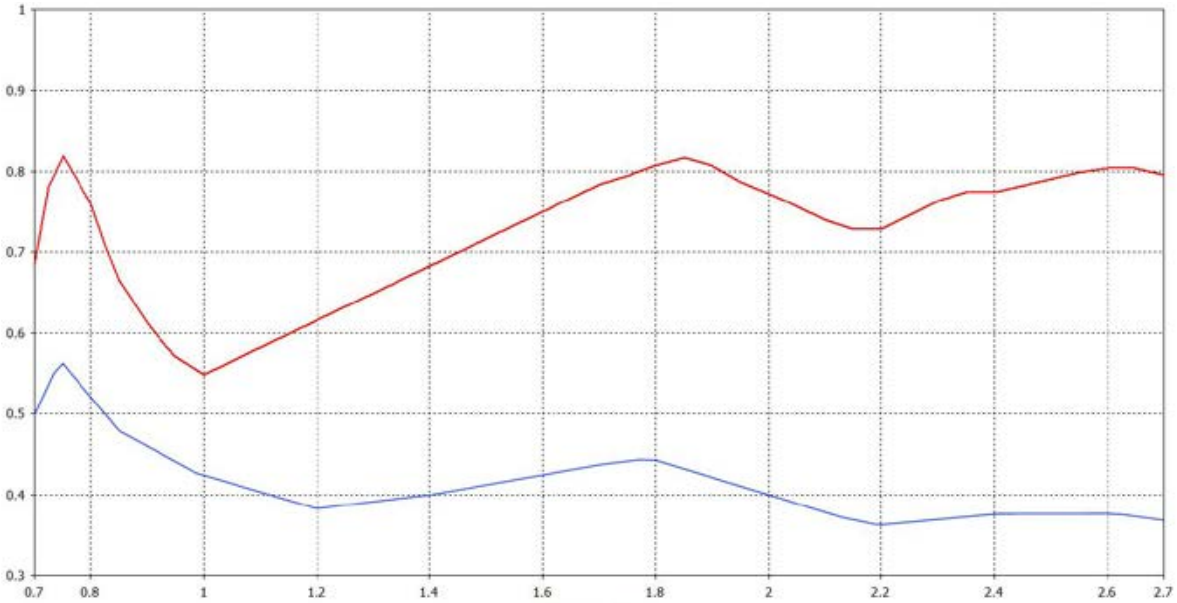
*VSWR measured with 0.5m (20”) of CS29 cable.

Typical Isolation Elements 1 & 2 *



*Green Trace = typical isolation with 5m (17’) of CS29 cable Red Trace = typical isloation without cable simulated in CST Microwave Studio

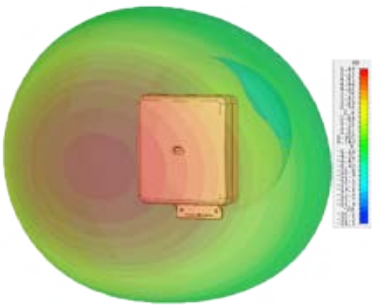
Typical Total Efficiency Elements 1 & 2 *



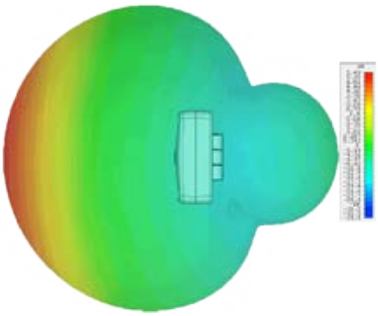
*Blue Trace = typical total efficiency with 5m (17’) of CS29 cable Red Trace = typical total efficiency without cable simulated in CST Microwave Studio

2G/3G/4G
Wall Mount Gain MiMo Antenna

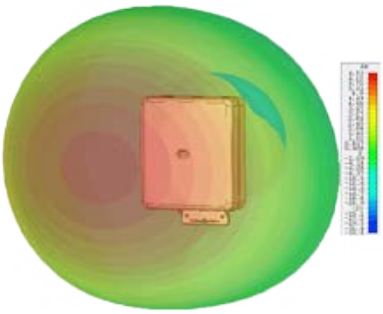
3D Gain Plot Side (725MHz)



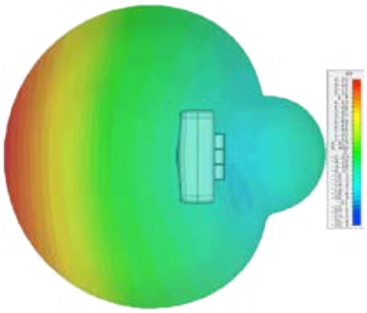
3D Gain Plot Top (725MHz)



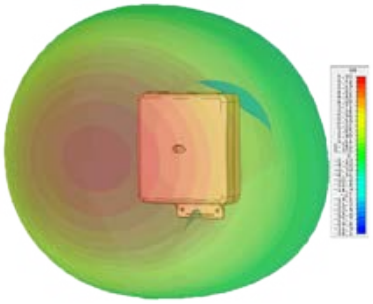
3D Gain Plot Side (825MHz)



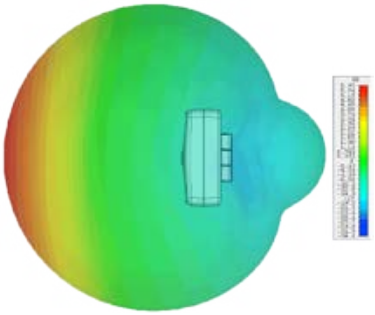
3D Gain Plot Top (825MHz)



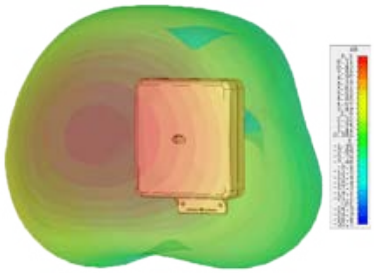
3D Gain Plot Side (925MHz)



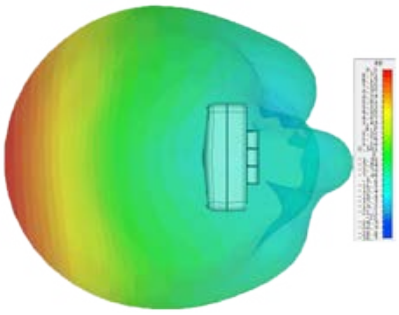
3D Gain Plot Top (925MHz)



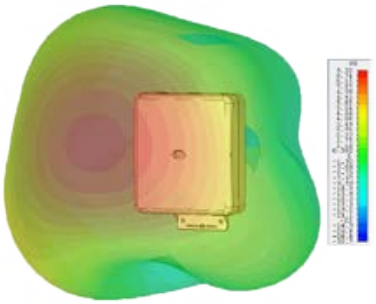
3D Gain Plot Side (1750MHz)



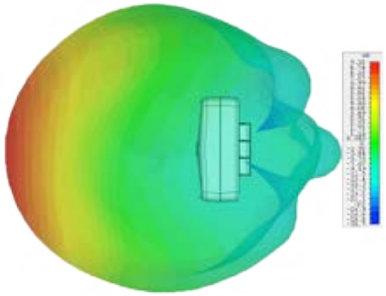
3D Gain Plot Top (1750MHz)



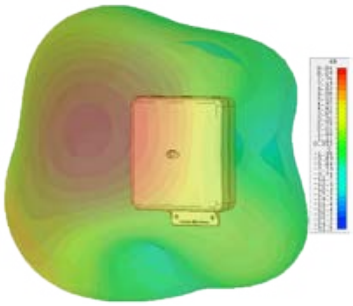
3D Gain Plot Side (1850MHz)



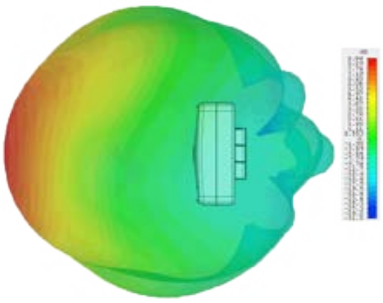
3D Gain Plot Top (1850MHz)



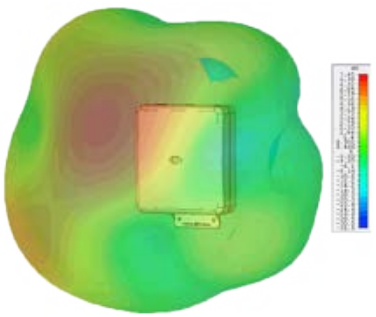
3D Gain Plot Side (1950MHz)



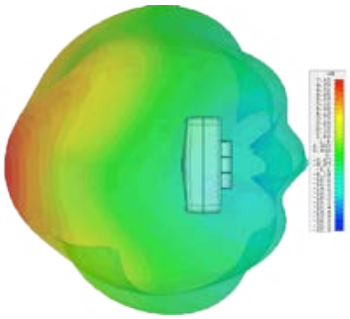
3D Gain Plot Top (1950MHz)



3D Gain Plot Side (2150MHz)



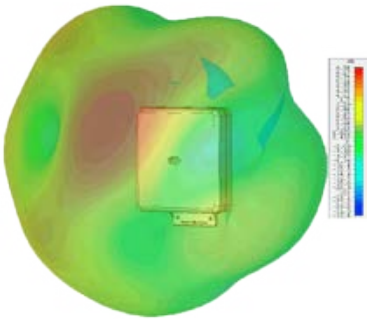
3D Gain Plot Top (2150MHz)



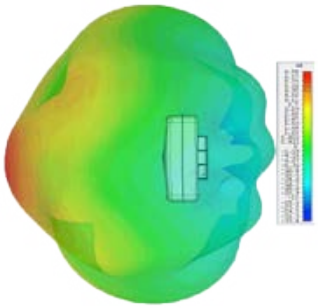
*3D Patterns show realised gain both elements fed modelled in CST Microwave Studio without additional cable.

2G/3G/4G
Wall Mount Gain MiMo Antenna

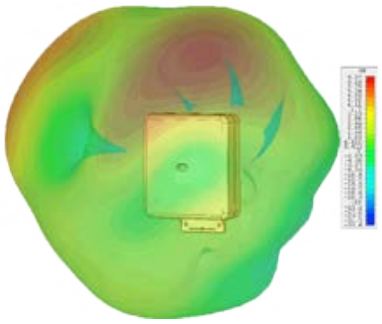
3D Gain Plot Side (2300MHz)



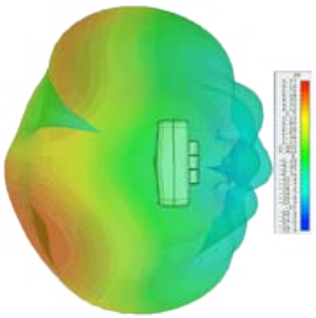
3D Gain Plot Top (2300MHz)



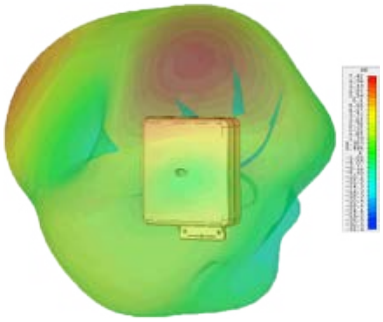
3D Gain Plot Side (2550MHz)



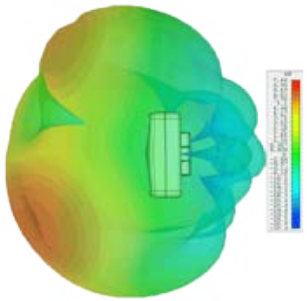
3D Gain Plot Top (2550MHz)



3D Gain Plot Side (2650MHz)



3D Gain Plot Top (2650MHz)



*3D Patterns show realised gain both elements fed modelled in CST Microwave Studio without additional cable.

2G/3G/4G
Wall mount Gain MiMo Antenna

Part No.		
		WMM8G-7-27-5SP
Electrical Data		
Frequency Range (MHz)	Antenna 1	698-960/1710-2700
	Antenna 2	698-960/1710-2700
Operational bands		2G / 3G / 4G
Radiation pattern		Directional
Nominal Polarisation		+/- 45deg
Peak Gain (excl cable loss)	698-960 MHz	6dBi
	1710-2170 MHz	9dBi
	2396-2700 MHz	6dBi
Efficiency - excluding cable loss (all bands)		> 65%
Correlation co-efficient (all bands)		< 0.05
Max input power (W)		20 Watts
Nominal Impedance		50Ω
Mechanical Data		
Dimensions (mm)	Height	230 (9”)
	Width	180 (7.1”)
	Depth	94 (3.7”)
Operating temp (°C)		-30° / +80°C (-40° / 176°F)
Material		U.V. stable, impact resistant ASA
Colour		RAL9010 (Pure White)
Weight (g)		955
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 (double shielded RG58)
Diameter (mm)		5 (0.2”)
Length (m)		5 (16’)
Termination		2 × SMA (m)
Adaptor Pigtails		Supplied separately

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