Multifunction Magnetic MiMo Antenna L[G]AMM-7-27-24-58

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- Low Profile Design
- MiMo 5G/4G/3G/2G + Single or 2x2 MiMo 2.4/ 5GHz
- Optional GPS/GNSS
- Magnetic Mounting

The L[G]AMM has a compact housing that contains 2x2 MiMo antenna function for 5G/4G/3G/2G and either single or 2x2 MiMo antenna function for 2.4/5GHz.

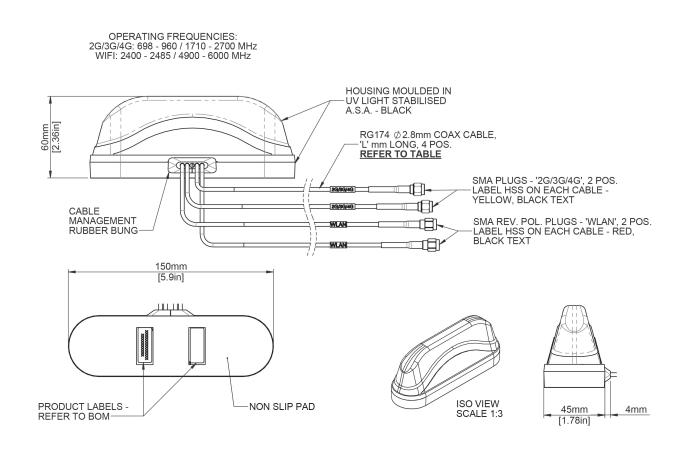
The LGAMM version also includes an active antenna for GPS/GLONASS/Galileo/ BeiDou with 26dB gain LNA.

The antenna is designed to be mounted magnetically. This antenna range is ideal for vending machines, payment terminals and other M2M or IoT applications where installation without drilling a hole is desired.



Technical Drawing

LPAMM-7-27-24-58 shown



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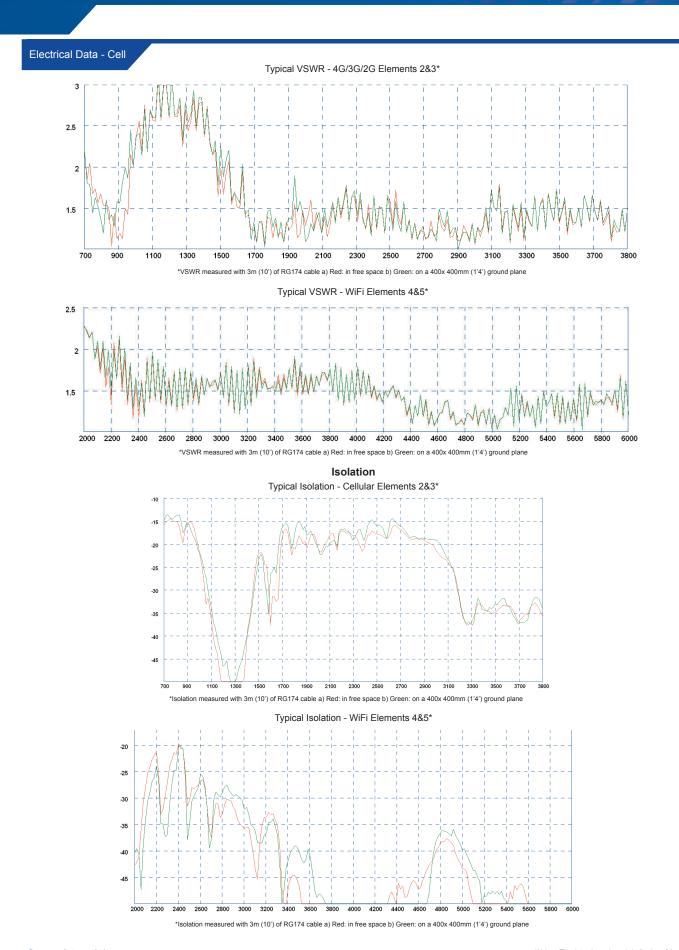
Product	Data

Part No.						
		LPAMM-7-27-24-58	LPAMM-7-27-S24-58	LGAMM-7-27-24-58	LGAMM-7-27-S24-58	
Electrical Data						
Francisco Deres	Element 1 (G Version)	1562-1612				
Frequency Range (MHz)	Elements 2 & 3	698-960, 1710-2170, 2500-3800				
	Elements 4 & 5		2300-2500 & 4900-6000			
Operational Bands	Elements 1 (G	-	- GPS/GNSS/Galileo/BeiDou			
	Elements 2 & 3	5G/4G/3G/2G				
	Elements 2 & 5	2x cell				
	Elements 4 & 5		2.4 / 5.00	GHz WiFi		
		2 x WIFi	1 x WIFi	2x WiFi	1x WiFi	
Peak gain: Isotropic*	Elements 2 & 3	2dBi (698-960MHz) 5dBi (1710-3800MHz)				
	Elements 4 & 5	4dBi (2.4GHz), 6dBi (5.0GHz)				
Isolation (with 5m (16') of	Cellular	> 12dB				
	WiFi	> 20dB				
Typical Efficiency*	Elements 2 & 3	> 50%				
Correlation Co-efficient	Elements 2 & 3	< 0.2				
Polarisation		Vertical				
Pattern		Omni-directional				
Impedance			50Ω			
Max Input Power (W)		25W				
GPS/GNSS Data						
Frequency Range (MHz)		1562-1612				
VSWR		<2:1 ± 4MHz				
Gain: LNA		26dB				
Polarisation		Right Hand Circular				
Operating Voltage		3-5V DC (fed via coax)				
Current		Typical <20mA				
Mechanical Data						
	Total Height	60 (2.36")				
Dimensions (mm)	Length	150 (5.9")				
	Width	44 (1.47")				
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)				
Material		ASA				
Colour			Bla	ack		
Mounting Data						
Fixing			Magneti	c mount		
Cable Data						
Cable Type - All Feeds		RG174				
Dimensions (mm)	Diameter	2.8 (0.11")				
	Length	3000 (10')				
	GPS/GNSS	SMA Plug SMA Plug				
Temination	2 x Cell		2 x SMA Plug			
	WiFi	2 x SMA Rev Pol Plug	1 x SMA Rev Pol Plug	2 x SMA Rev Pol Plug	1 x SMA Rev Pol Plu	

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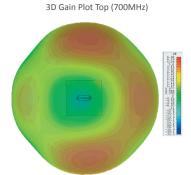


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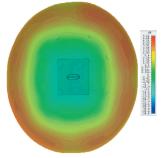
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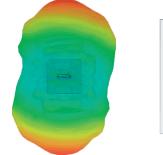
3D Patterns - Cell



3D Gain Plot Top (1800MHz)

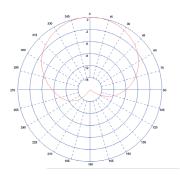


3D Gain Plot Top (3600MHz)

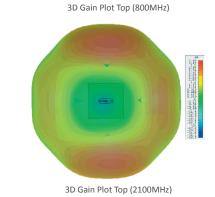


*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.

Typical Radiation Patterns - GPS/GNSS Element 1 Element 3: Typical E Plane Pattern



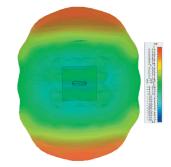
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Typical 3D Radiation Patterns - Cell / LTE Elements 2&3

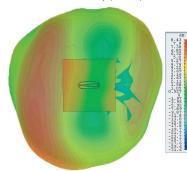
3D Gain Plot Top (900MHz)

3D Gain Plot Top (2600MHz)



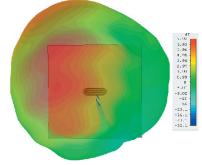
Typical 3D Radiation Patterns - Wifi Elements 4&5

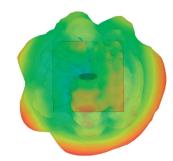
3D Gain Plot Top (2.4GHz)



3D Gain Plot Top (5.4GHz)

Typical 3D Radiation Patterns - Wifi Elements (Single Wifi) 3D Gain Plot Top (2.4GHz) 3D Gain Plot Top (5.4GHz)





*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with a single element feed.

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