L[G]PAM-7-27-24-58



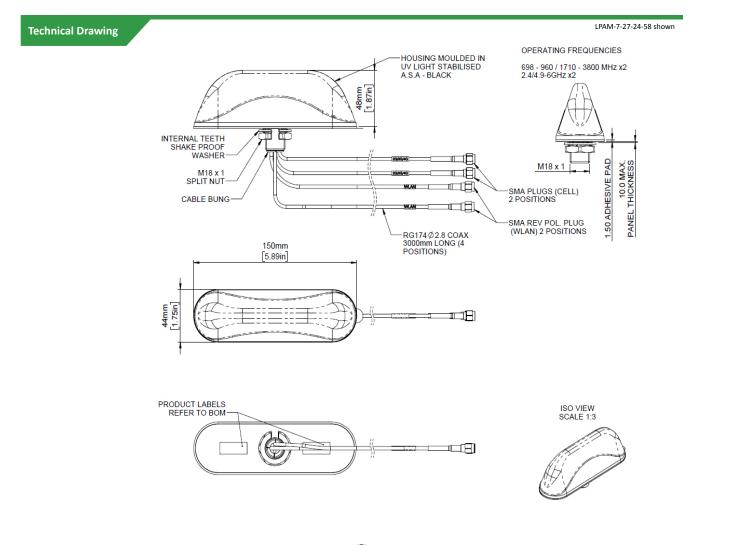


Low Profile Design MiMo 4G/3G/2G + MiMo 2.4/4.9-6GHz Optional GPS/GNSS

The L[G]PAM has a compact housing that contains 2x2 MiMo antenna function for 4G/3G/2G and 2x2 MiMo antenna function for 2.4/5.8GHz WiFi.

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

This antenna range is ideal for vending machines, payment terminals and other M2M type applications.



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Product Data

		LPAM-7-27-24-58	LGAM-7-27-24-58
Electrical Data			
Frequency Range (MHz)	Element 1	- 1562-1612	
	Elements 2 & 3	698-960, 1710-2170, 2500-3800	
	Elements 4 & 5	2300-2500 & 4900-6000	
Operational Bands	Element 1	-	GPS/GNSS/Galileo/BeiDou
	Elements 2 & 3	4G,	/3G/2G
	Elements 4 & 5	2.4 / 5.0GHz WiFi	
Peak gain: Isotropic*	Elements 2 & 3	2dBi (698-960MHz) 5dBi (1710-3800MHz)	
	Elements 4 & 5	4dBi (2.4GHz), 6dBi (5.8GHz)	
Isolation (with 5m (16') of RG174 cable)	Cellular	>	12dB
	WiFi	>	20dB
Typical Efficiency*	Elements 2 & 3	> 50%	
Correlation Co-efficient	Elements 2 & 3	<0.2	
Polarisation		Vertical	
Pattern		Omni-directional	
mpedance		50Ω	
Max Input Power (W)		Internal elements 25W	
GPS/GNSS Data			
Frequency Range (MHz)		-	1562-1612
/SWR		-	<2:1 ± 4MHz
Gain: LNA		-	26dB
Polarisation		- Right Hand Circular	
Operating Voltage		- 3-5V DC (fed via coax)	
urrent		-	Typical <20mA
lechanical Data			
	Total Height	50	(2.2")
Dimensions (mm)	Length	150 (5.9")	
	Width	44 (1.47")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Vlaterial		ASA	
Colour		Black	
Mounting Info			
Fixing		Panel Mount	
Hole Size (mm)		19 (3/4")	
Cable Data			
Cable Type - All Feeds		RG174	
Dimensions (mm)	Diameter	2.8 (0.11")	
	Length	3000 (10')	
Temination	GPS/GNSS	- SMA Plug	
	2 x 4G/3G/2G	2 x SMA plug	
		2 x SMA Rev Pol Plug	

* without cable loss

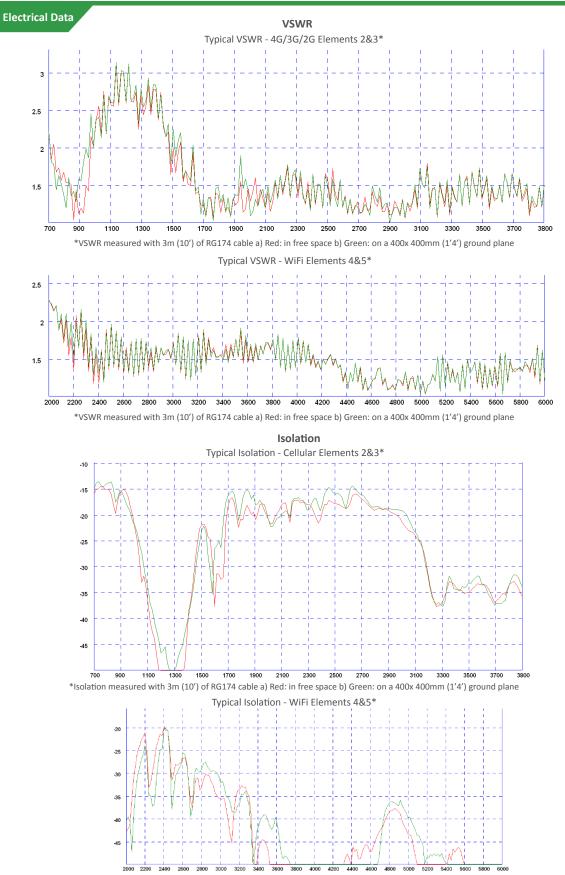
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*Isolation measured with 3m (10') of RG174 cable a) Red: in free space b) Green: on a 400x 400mm (1'4') ground plane

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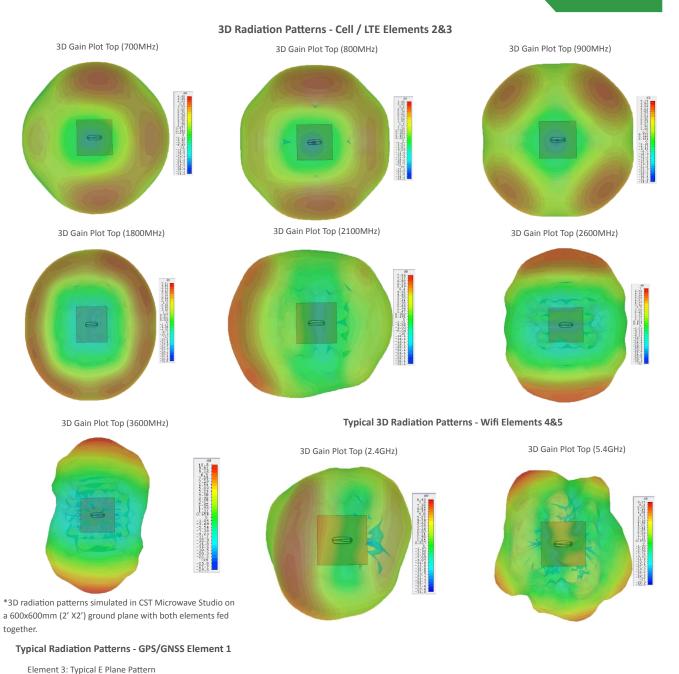
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Electrical Data



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

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