

L[G]AM-7-27-[X]24-58

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

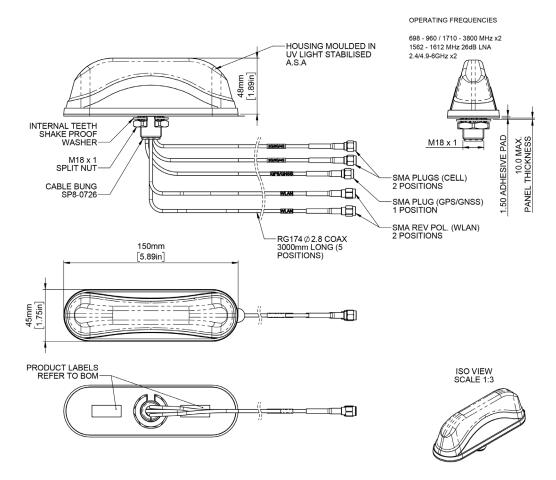
The L[G]PAM has a compact housing that contains 2x2 MiMo antenna function for 5G/4G/3G/2G and either single or 2x2 MiMo antenna function for 2.4/5GHz.

The LGAM version also includes an active antenna for GPS/GLONASS/Galileo/ \mbox{BeiDou} with 26dB gain LNA.

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

Technical Drawing

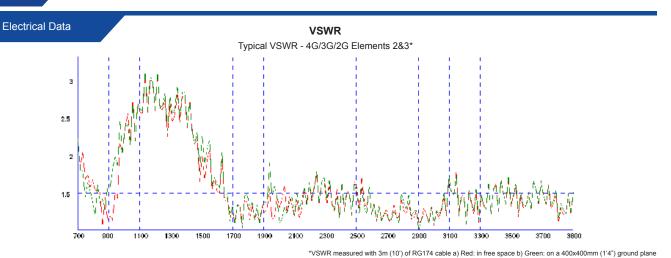
Part No. LGAM-7-27-24-58 shown



Multifunction MiMo Antena L[G]AM-7-27[X]24-58



				Product Data
	LPAM-7-27-24-58	LPAM-7-27-S24-58	LGAM-7-27-24-58	LGAM-7-27-S24-5
Flomente 1 (C. Version)		1562	1612	
	698-960, 1710-2170, 2500-3800			
	GPS/GNSS/Galileo/BeiDou			
Elements 2 & 3 Operational Bands	-			
	2x cell			
	2.4/5.0 GHz WiFi			
Liements 4 & 3	2x WiFi	1x WiFi	2x WiFi	1x WiFi
Elements 2 & 3		2dBi (698-960MHz) /	5dBi (1710-3800MHz)	
Element 4 & 5	4dBi (2.4GHz) / 6dBi (5.0GHz)			
Cellular	>12dB			
WiFi	>20dB			
	>50%			
	<0.2			
	Vertical			
	Omni-directional			
	50Ω			
	Internal elements 25W			
	1562-1612MHz			
	<2:1 ± 4MHz			
	26dB			
	Right Hand Circular			
	3-5 DC (fed via coax)			
	Typical <20 m A			
Total Height	50 (2.2")			
Length	150 (5.9")			
Width	44 (1.47")			
	-40° / +80°C (-40° / 176°F)			
	ASA			
	Black			
		IP	66	
	Panel Mount			
		19 (3/4")	
		RG	174	
Diameter		RG 2.8 (0	174 0.11")	
Length		RG	174 0.11") (10')	
		RG 2.8 (t 3000	174 0.11")	SMA Plug
	Elements 4 & 5 Elements 2 & 3 Element 4 & 5 Cellular WiFi Elements 2 & 3 Elements 2 & 3 Total Height Length	Elements 1 (G Version) Element 2 & 3 Elements 4 & 5 Element 1 (G Version) - Elements 2 & 3 Elements 2 & 3 Elements 4 & 5 Cellular WiFi Elements 2 & 3 Elements 2 & 3 Elements 2 & 3 Elements 2 & 3 Elements 4 & 5 Cellular WiFi Elements 2 & 3	Elements 1 (G Version) 1562 Element 2 & 3 698-960, 1710-2 Elements 4 & 5 2300-2500 & 2300-	Elements 1 (G Version) Element 2 & 3 Element 2 & 3 Element 4 & 5 Element 1 (G Version) Element 1 (G Version) Element 2 & 3 Element 3 (B Version) Element 3 (B Version) Element 4 & 5 Element 5 (B Version) Element 5 (B Version) Element 5 (B Version) Element 5 (B Version) Element 6 (B Version) Element 6 (B Version) Element 7 (B Version) Element 8 (B Version) Element 8 (B Version) Element 9 (B V

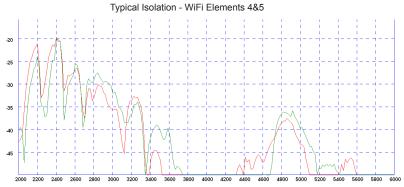


Typical VSWR - WiFi Elements 4&5 1.5 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200

 $^*VSWR\ measured\ with\ 3m\ (10')\ of\ RG174\ cable\ a)\ Red:\ in\ free\ space\ b)\ Green:\ on\ a\ 400x400mm\ (1'4'')\ ground\ plane$

Isolation Typical Isolation - Cellular Elements 2&3* -10 -25 -30 -35 -40 -45 -90 900 1100 1300 1500 1700 1900 2100 2300 2500 2700 2900 3100 3300 3500 3700 3800

*Isolation measured with 3m (10') of RG174 cable a) Red: in free space b) Green: on a 400x400mm (1'4") ground plane



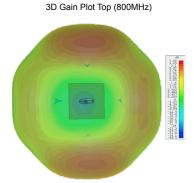
*Isolation measured with 3m (10') of RG174 cable a) Red: in free space b) Green: on a 400x400mm (1'4") ground plane

Electrical Data

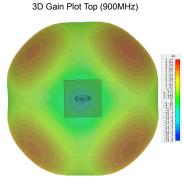
Typical 3D Radiation Patterns - Cell / LTE Elements 2&3

3D Gain Plot Top (700MHz)

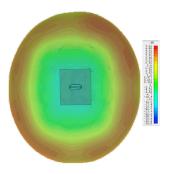
3D Gain Plot Top (1800MHz)



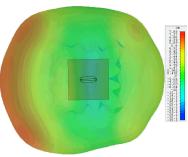
3D Gain Plot Top (2100MHz)



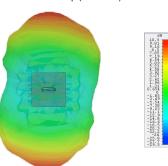
3D Gain Plot Top (2600MHz)



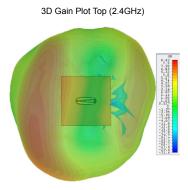
3D Gain Plot Top (3600MHz)



Typical 3D Radiation Patterns - Wifi Elements 4&5



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

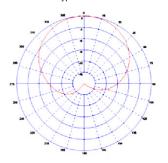


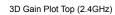
3D Gain Plot Top (5.4GHz)

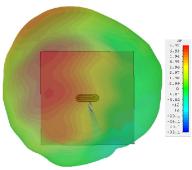
Typical 3D Radiation Patterns - Wifi Elements (Single Wifi)

Typical Radiation Patterns - GPS/GNSS Element 1

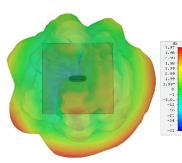
Element 3: Typical E Plane Pattern











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