LP[G]AM-BC3G-26

Low Profile MiMo Cellular Antenna



24/06/2016 v.1



Low Profile MiMo Cellular Antenna with optional GPS/GNSS

Panel mount

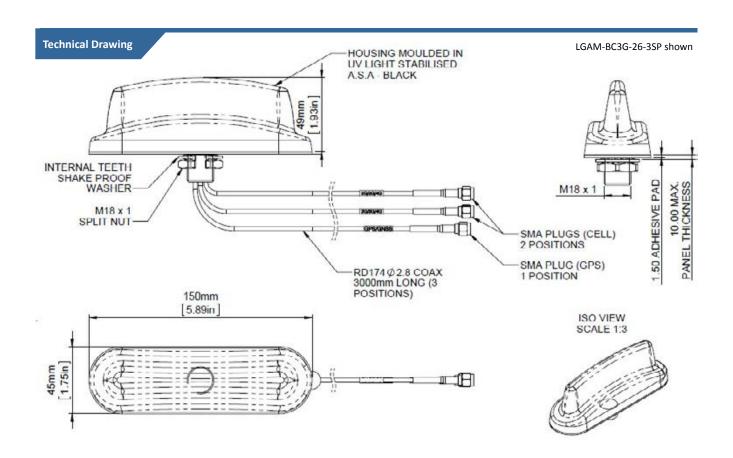
2 x 2 Cellular /LTE MiMo and optional GPS/GNSS

Robust and cost effective solution for M2M and IOT applications

The LP[G]AM-BC3G-26 range has been designed to provide MiMo Cellular / LTE antenna function for IOT and M2M applications. The compact, robust low-profile housing is weatherproof and contains two antenna elements with effective isolation and correlation covering all current global cellular and LTE bands in freq. range 698-960/1710-3800MHz. The LG version includes an active GPS/GNSS/Galileo/Beidou antenna for applications which require position or timing function.

The antenna can be fitted on a non-conductive panel if required* and offers easy, quick, secure and weatherproof installation with the single hole mounting bush and acrylic adhesive sealing pad. Supplied with integrated 3m (10') cables and SMA plug connectors, the antenna will offer plug and play connectivity with many different terminals.

* Performance may change depending on mounting position/surface.

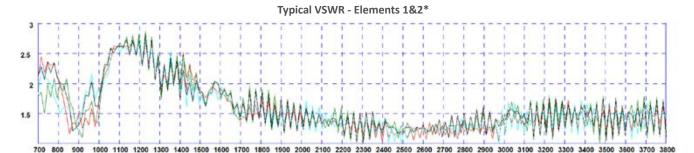


Part No.				
		LPAM-BC3G-26-3SP	LGAM-BC3G-26-3SP	
Electrical Data				
Frequency Range (MHz)	Elements 1 & 2	698-960 / 1710-3800		
	Element 3	- 1562-1612MHz		
Peak Gain: Isotropic +	Element 1 & 2: 698-960MHz	1.5dBi		
	Elements 1 & 2: 1710-2170MHz	4.5dBi		
	Elements 1 & 2: 2500-3800MHz	5dBi		
Pattern		Omni-directional		
Nominal Impedance		50Ω		
Max input power (W)		20		
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 <20mA	
Mechanical Data				
Dimensions (mm)	Height	49 (1.92")		
	Length	150 (5.90")		
	Width	45 (1.77")		
Operating Temp (°C)		-30° / +70°C (-30° / 158°F)		
Material		UV Stable ABS Plastic		
Colour		Black		
Typical Weight (g)		337		
Mounting Data				
Fixing		18mm (3/4") mounting bush and acrylic adhesive pad		
Cable Data				
Elements 1 & 2: Cell	Cable Type	RG174		
	Diameter (mm)	2.8 (0.1")		
	Length (m)	3 (9.8′)		
	Termination	2x SMA Plugs		
Element 3: GPS/GNS	Cable Type	- RG174		
	Diameter (mm)	- 2.8 (0.1")		
	Length (m)	3 (9.8′)		
	Termination		SMA Plug	

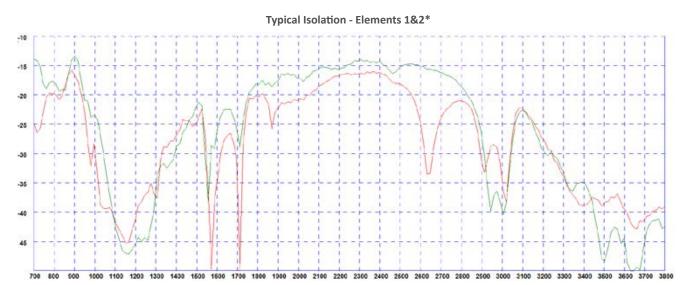
⁺ Peak gain simulated off a groundplane and does not include cable attenuation



Frogmore, London, SW18 1HF, United Kingdom



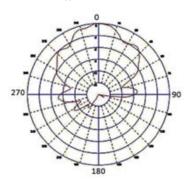
^{*} VSWR measured with 3m (10') of RG174 cable Green and Red Plots = Elements 1&2 in free space Black and Blue plots = Elements 1&2 on a 400x400mm ground plane



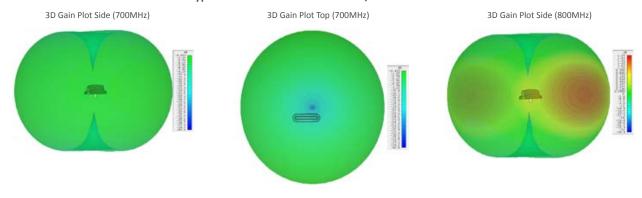
*Isolation measured with 3m (10') of RG174 cable Red Plot = mounted on a 400x 400mm (1' 4" x 1'4") ground plane Green Plot = free space

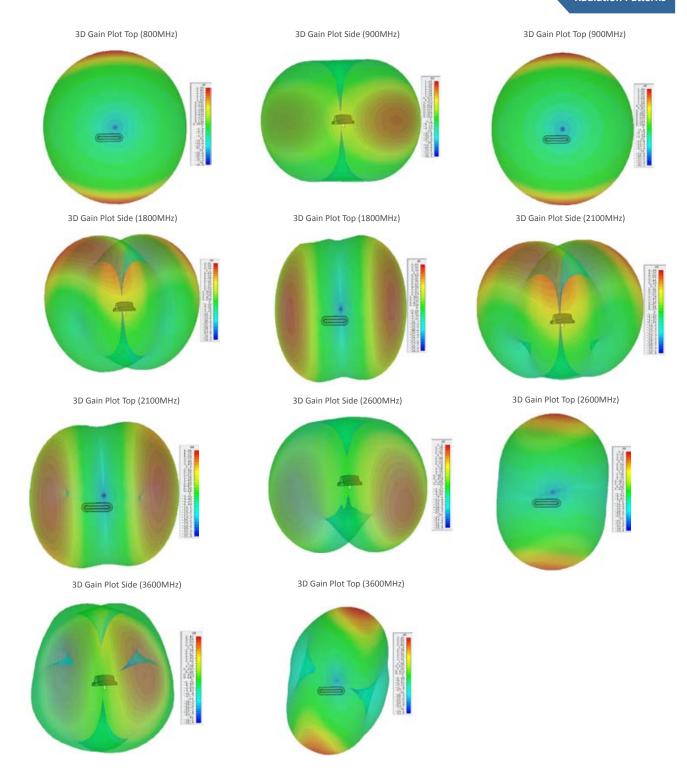
Typical Radiation Pattern -GPS/GNSS Element 3

Element 3: Typical E Plane Pattern (1602MHz)



Typical 3D Radiation Patterns - Cell / LTE Elements 1&2





- *3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.
- + Element 1&2 Patterns simulated in CST Microwave Studio in free space excluding cable loss. Element 3 pattern measured in free space.



Panorama Antennas Ltd

Frogmore, London, SW18 1HF, United Kingdom

T: +44 (0)20 8877 4444 F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com

www.panorama-antennas.com

Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.