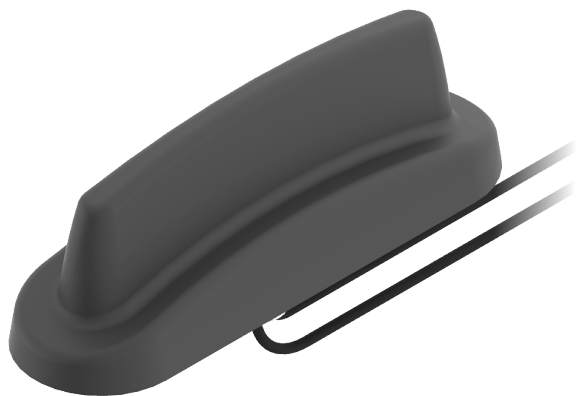


Low Profile MiMo Cellular Antenna

LP[G]AM-BC3G-26-[XSP]

PANORAMA ANTENNAS



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

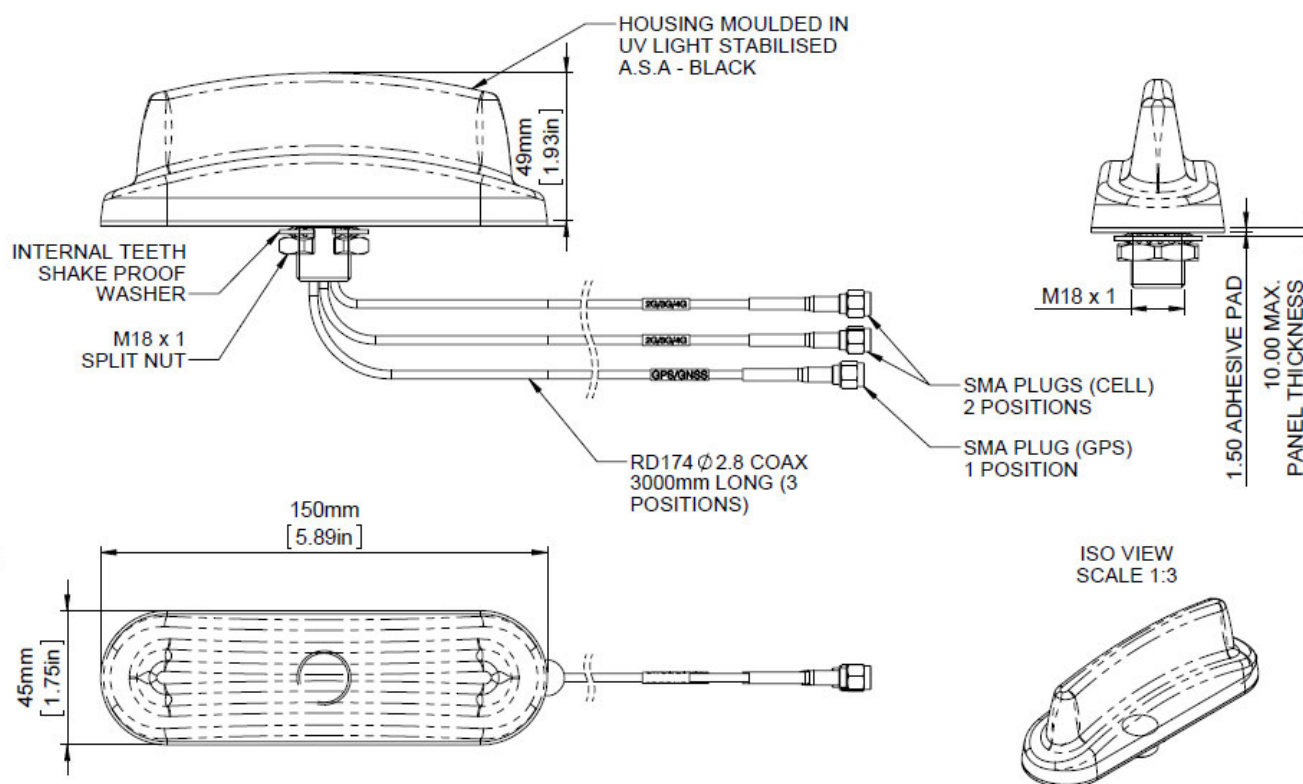
The LP[G]AM-BC3G-26-[XSP] range has been designed to provide MiMo Cellular /LTE antenna function for IOT and M2M applications. The compact, robust low-profile housing is weatherproof and contains two antenna elements with effective isolation and correlation covering all current global cellular and LTE 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 1m (3.3') or 3m (10') cable and SMA plug connectors, the antenna will offer plug and play connectivity with many different terminals.

* Performance may change depending on mounting position/surface.

Technical Drawing

LGAM-BC3G-26-3SP Shown



Low Profile MiMo Cellular Antenna

LP[G]AM-BC3G-26-[XSP]

Product Data

Part No.					
		LPAM-BC3G-26-1SP	LGAM-BC3G-26-1SP	LPAM-BC3G-26-3SP	LGAM-BC3G-26-3SP
Electrical Data					
Frequency Range (MHz)	Elements 1 & 2	698-960 / 1710-3800			
	Element 3	-	1562-1612MHz	-	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	-	1562-1612MHz
LNA Gain (dB)		-	26	-	26
Polarisation		-	Right Hand Circular	-	Right Hand Circular
Operating Voltage		-	3-5VDC (Fed via Coax)	-	3-5VDC (Fed via Coax)
Current		-	Typical <20mA	-	Typical <20mA
Mechanical Data					
Dimensions (mm)	Height	49 (1.92")			
	Length	150 (5.90")			
	Width	45 (1.77")			
Operating Temp (°C)		-30° / +70°C (-22° / 158°F)			
Material		UV Stable ABS Plastic			
Colour		Black			
Typical Weight (g)		337			
Ingress Protection		IP66			
Mounting Data					
Fixing		18mm (3/4") Mounting Bush and Acrylic Adhesive Pad			
Cable Data		LPAM-BC3G-26-1SP	LGAM-BC3G-26-1SP	LPAM-BC3G-26-3SP	LGAM-BC3G-26-3SP
Elements 1 & 2: Cell / LTE	Cable Type	RG174	RG174	RG174	RG174
	Diameter (mm)	2.8 (0.1")	2.8 (0.1")	2.8 (0.1")	2.8 (0.1")
	Length (m)	1 (3.3')	1 (3.3')	3 (10')	3 (10')
	Termination	2x SMA Plugs	2x SMA Plugs	2x SMA Plugs	2x SMA Plugs
Element 3: GPS/GNSS	Cable Type	-	RG174	-	RG174
	Diameter (mm)	-	2.8 (0.1")	-	2.8 (0.1")
	Length (m)	-	1 (3.3')	-	3 (10')
	Termination	-	SMA Plug	-	SMA Plug

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

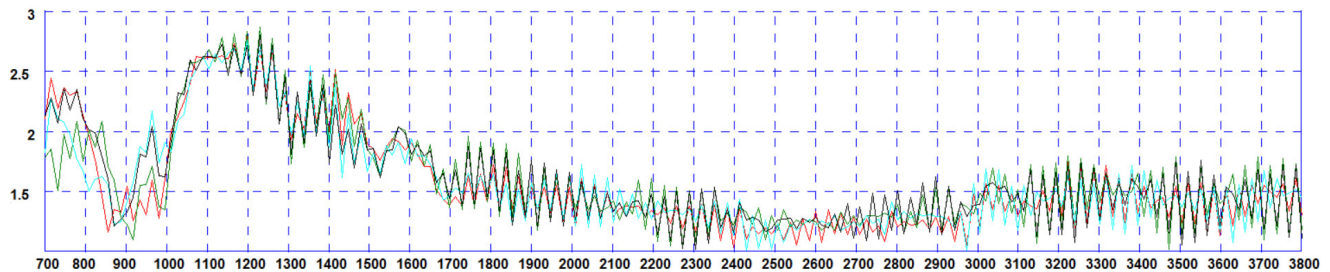
Low Profile MiMo Cellular Antenna

LP[G]AM-BC3G-26-[XSP]

PANORAMA ANTENNAS

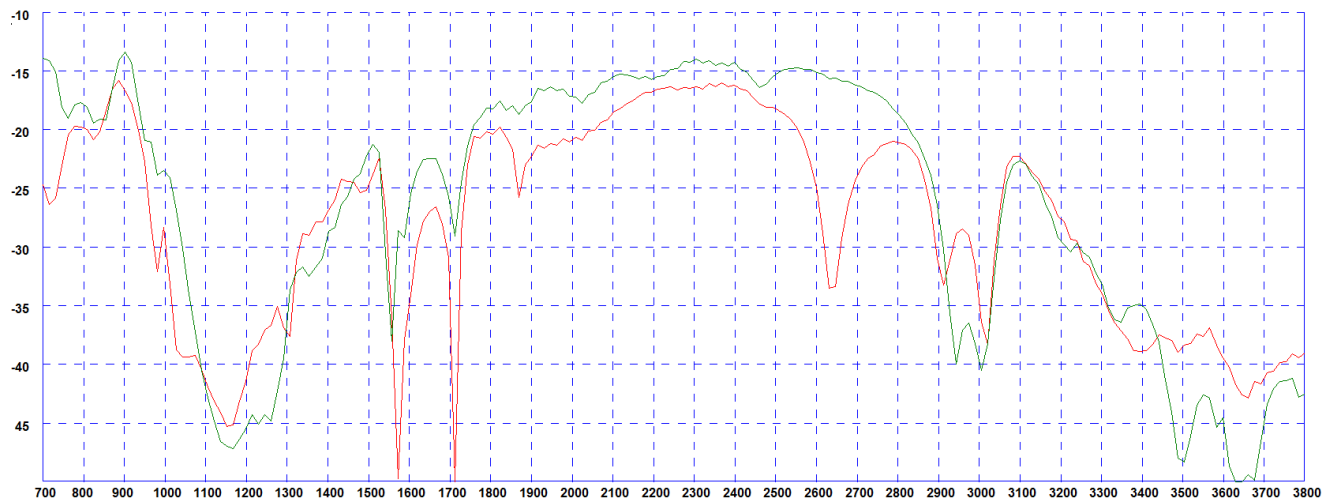
Electrical Data - Cell

Typical VSWR - Elements 1&2*



* 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

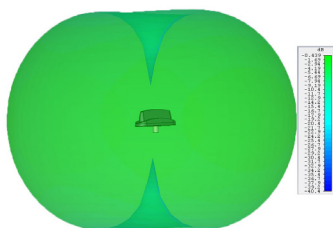
Typical Isolation - Elements 1&2*



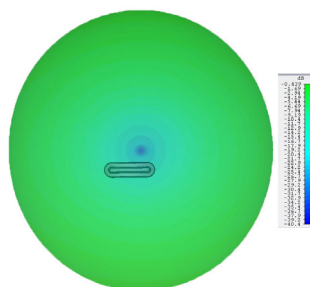
*Isolation measured with 3m (10') of RG174 cable Red Plot = mounted on a 400x 400mm (1' 4" x 1' 4") ground plane Green Plot = free space

3D Patterns - Cell

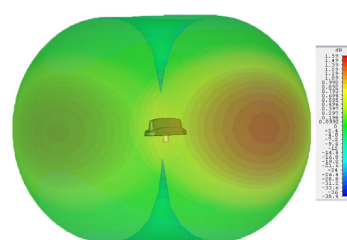
3D Gain Plot Side (700MHz)



3D Gain Plot Top (700MHz)



3D Gain Plot Side (800MHz)

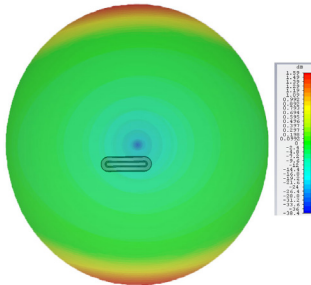


Low Profile MiMo Cellular Antenna

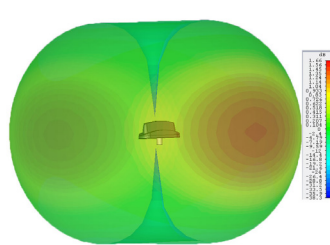
LP[G]AM-BC3G-26-[XSP]

3D Patterns - Cell

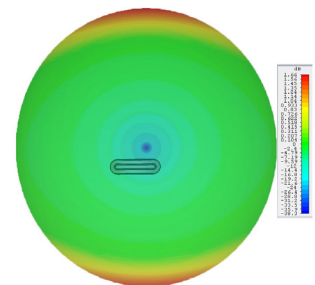
3D Gain Plot Top (800MHz)



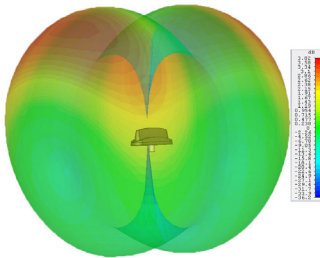
3D Gain Plot Side (900MHz)



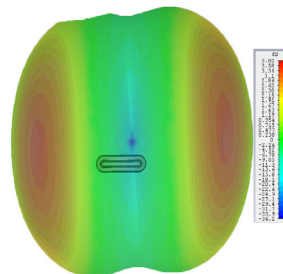
3D Gain Plot Top (900MHz)



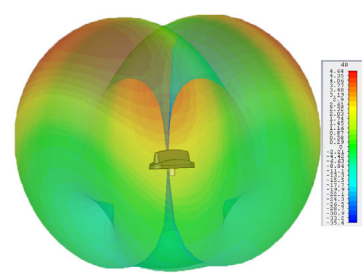
3D Gain Plot Side (1800MHz)



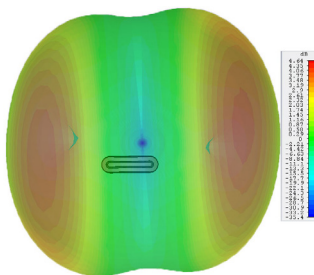
3D Gain Plot Top (1800MHz)



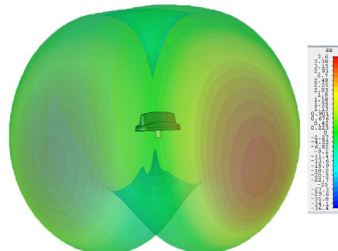
3D Gain Plot Side (2100MHz)



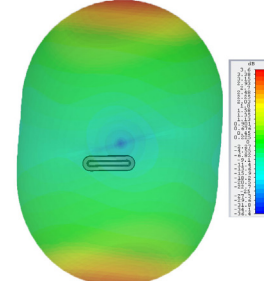
3D Gain Plot Top (2100MHz)



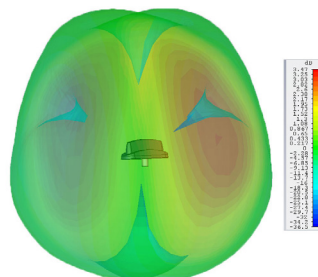
3D Gain Plot Side (2600MHz)



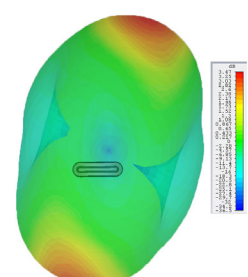
3D Gain Plot Top (2600MHz)



3D Gain Plot Side (3600MHz)

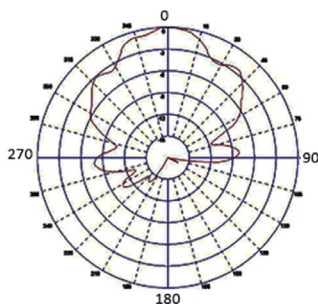


3D Gain Plot Top (3600MHz)



Pattern -GNSS

Element 3: Typical E Plane Pattern (1602MHz)



*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.