

8x8 MiMo 4G/5G Dome Combination Antenna Range

Megalodon 4G/5G Antenna

PANORAMA ANTENNAS



- Low Profile 2x 4x4 MiMo 4G/5G
- Up to 8x8 MiMo Dual Band WiFi 6e / 7
- Up to 2 GPS/GNSS L1 or L1/L5 bands
- Meets IK10 and IP69K

The industry leading Megalodon range has been developed to provide 2x 4x4 MiMo 4G/5G antenna systems covering 617-960/1427-6000MHz within a robust low profile package. Covering global cellular bands for future-proof performance, the antenna provides effective functionality for 2x 4G Cat 18/20 and/or 5G modems. This can be combined with a number of other functions including single/dual band GPS/GNSS and up to 8x8 MiMo WiFi elements covering 2.4-7.2GHz (WiFi 6e/7).

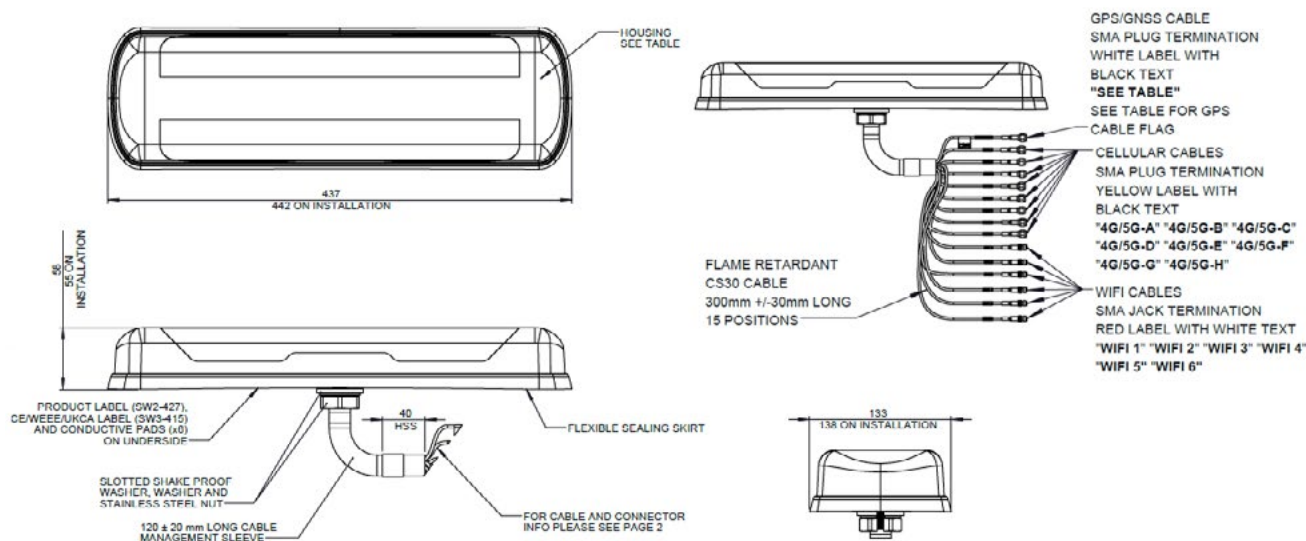
The antenna is designed to be panel mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant low-loss CS30 cables (Compliant to UN ECE R118) and a halogen free, flame retardant radome, the antenna is suitable for many environments and applications, including public safety and transportation.

The LGM variants have an integrated GPS/GNSS module supporting either L1 only or L1/L5 frequencies. This GPS module features advanced filtering for LTE B13/14 designed to minimise potential in band interference.

The antenna is available with a black or white radome which meets IK10 for vandal resistance and IP69K for Ingress protection.

Technical Drawing

LGMHM8-6-60 Shown



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Product Data

Part No.		LGMOM8[B]-6-60	LGMHM8[B]-6-60	LGMQM8[B]-6-60	LGMDM8[B]-6-60	LGMM8[B]-6-60
Electrical Data						
Frequency Range (MHz)	4G/5G Elements	8x 617-960 / 1427-6000				
	WiFi Elements	8x 2.4/5.1-7.2GHz	6x 2.4/5.1-7.2GHz	4x 2.4/5.1-7.2GHz	2x 2.4/5.1-7.2GHz	-
Typical VSWR*	All Elements	<3:1 (4G/5G elements) / <2:1 (WiFi Elements)				
Peak Gain: Isotropic : (dBi)†	4G/5G Elements	617-960MHz		3.4		
		1427-4200MHz		7.4		
		4400-6000MHz		8.2		
	WiFi Elements	2.4 GHz		6		
		5.1-7.2GHz		7		
	Typical Efficiency **	4G/5G Elements	617-960MHz		49%	
1427-2170MHz			55%			
2300-4200MHz			60%			
4400-6000MHz			52%			
WiFi Elements		2.4-7.2GHz		44%		
Nominal Impedance		50Ω				
GPS/GNSS Data						
Frequency Range (MHz)		1559-1612				
VSWR		<2.5:1				
Gain: LNA		26dB				
Out of band rejection		>40dB (@ > +/- 100MHz f)				
Typical Noise Figure		2.7 dB				
Rejection @787MHz		>50 dB				
Voltage /Current		3 - 5V DC 17mA (typical)				
Mechanical Data						
Dimensions (mm)	Height	55(2.1")				
	Length	437 (17.2")				
	Width	133 (5.2")				
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)				
Colour		White / [Black]				
Ingress Protection / Impact Resistance		IP69K / IK10				
Mounting Data						
Mounting type		Panel mount				
Max panel thickness (mm)		7 (0.27")				
Mounting hole (mm)		25(1")				
Cable Data						
All Cables	Type	comms cables - CS30 GPS cable/s FR RG174 (all cables UN ECE R118 Compliant)				
	Diameter (mm)	2.8 (0.1")				
	Length (m)	0.3 (1')				
Terminations						
4G/5G		8x SMA Plug (m)				
WiFi		8x SMA Jack (f)	6x SMA Jack (f)	4x SMA Jack (f)	2x SMA Jack (f)	-
GPS/GNSS		1x SMA Plug (m)				

*Across 90% of relevant bands for LGMHM8-6-60 measured in free space without additional cable.

† Efficiency stated is average for all elements and peak gain is highest measured level from LGMHM8-6-60 measured in free space without additional cable.

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
W: www.panorama-antennas.com

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