LGM[Q]M4-7-38[-24-58]



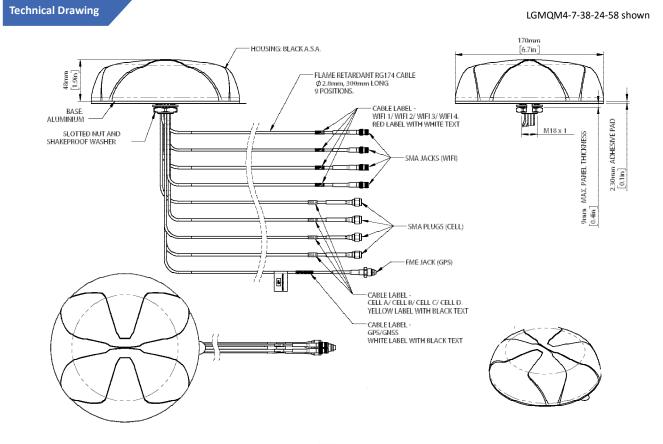
Rugged low profile design 4x Wideband LTE/cellular elements Optional Integrated GPS/GNSS antenna Optional MiMo WiFi - up to 4x4 2.4/4.9-6GHz

The Panorama L[G]M[Q]M4 low profile MiMo antenna range has been designed to support the next generation of vehicular LTE routers with 4x4 MiMo. The antenna enclosure can provide up to nine antenna elements. All versions have four ultra-wideband elements for 698-3800MHz which support MiMo function for 4G/5G & cellular bands. LG versions offer a GNSS antenna which has a 26dB gain LNA with high performance filtering for reliable operation. Variants are also available which include 2, 3 or 4 dual band 2.4/4.9-6GHz WiFi elements for MiMo function designated by the suffix 24-58.

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The antenna does not require a metallic ground plane, and maintains a high level of performance even when mounted on a non-metallic surface. The GNSS antenna module carries an E11 Mark type approval under ECE R10.4, and the cables are certified to ECE 118.01.

Although the LTE elements are designed for 4x4 MiMo operation, it is possible to utilise these as 2 pairs of 2x2 MiMo for a router that has 2 SIMS (radio) in a failover configuration (i.e. only one SIM active at any time). As this configuration is using only 2 out of the 4 antennas for a single SIM, the network coverage should be checked to ensure that this use is suitable. Guidance on correct connection of the LTE antennas is provided in the installation instructions. Please Note: This antenna is not intended for use with a router that has 2 SIMS to provide concurrent or aggregated data operation, as there is not sufficient isolation between the MiMo pairs.



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Product Data

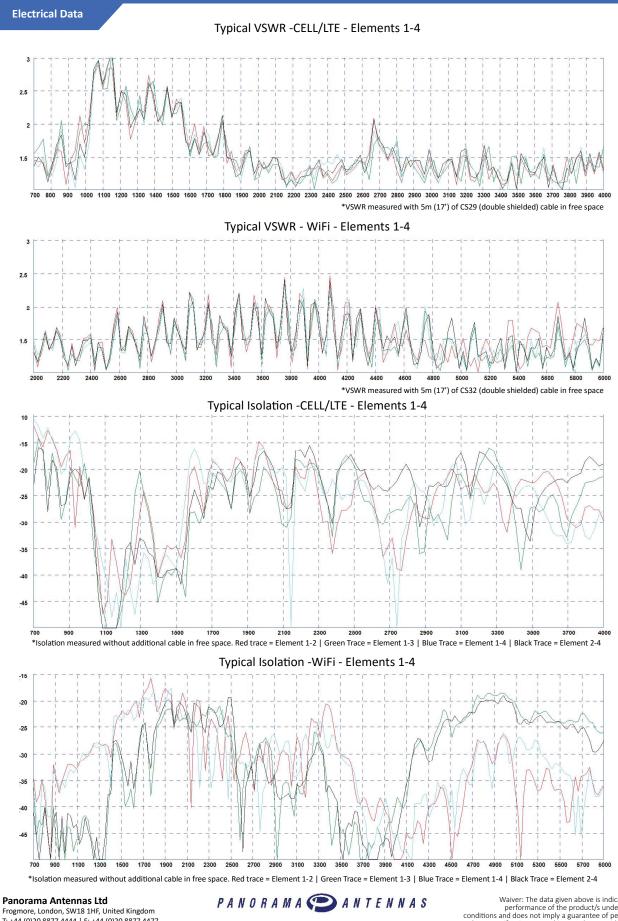
Part No.								
Electrical Data				LGMM4-7-38	LGMDM4-7-38-24-58	LGMTM4-7-38-24-58	LGMQM4-7-38-24-58	
		Cell Elements			4x 698-960) / 1710-3800		
Frequency Range (MHz)		WiFi Elements		-	2x 2.4/4.9-6GHz	3x 2.4/4.9-6GHz	4x 2.4/4.9-6GHz	
		Cell Elements			4x4 MiMo LTE / Cellular			
Operational Bands		WiFi Elements		-	2x2 WiFi 3x3 WiFi 4x4 WiFi			
		Wint Elements	698-960MHz		4dBi			
Nominal Daak Caine L	cotropic*	Cell Elements						
Nominal Peak Gain: Is	otropic		1710-3800MHz		6dBi			
	.	WiFi Elements	2.4/4.9-6.0GHz	-		6dBi / 8dBi		
Correlation Co-efficient		Cell Elements			< 0.3			
Typical Impedance					50Ω			
Max Input Power (W))					10		
GPS/GNSS Data								
Frequency Range (MHz)				1562-1612				
VSWR				<2.0:1 ± 4MHz				
Gain: LNA				26dB				
Operating Voltage					3 - 5V DC E11 (ECE R10.4)			
Type Approval Mechanical Data						E K10.4)		
	Height			48mm (1.9")				
Dimensions	Diameter				170mm (6.7")			
Operating Temp		-30° / +80°C (-22°/ 176°F)						
Colour		White (Black also available)						
IP Rating				IP69K				
Mounting Data								
Mounting type					Panel	l mount		
Max panel thickness			7mm (0.27")					
Mounting hole			19mm (3/4")					
Cable Data								
	Туре				RG174-FR (ECE1	118.01 Compliant)		
4x Cell / LTE Cables	Diameter			2.8mm (0.1″)				
	Length				0.3m (1')			
	Termination			SMA (m)				
	Туре			RG174-FR (ECE118.01 Compliant)				
GPS/GNSS Cable	Diameter		2.8mm (0.11")					
	Length			0.3m (1')				
	-	Termination			FME (f)			
	Туре			- RG174-FR (ECE118.01 Compliant)				
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			- 2.8mm (0.1")				
	Diameter			-		2.8mm (0.1")		
WiFi Cables				-		2.8mm (0.1") 0.3m (1')		

* Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss



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