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



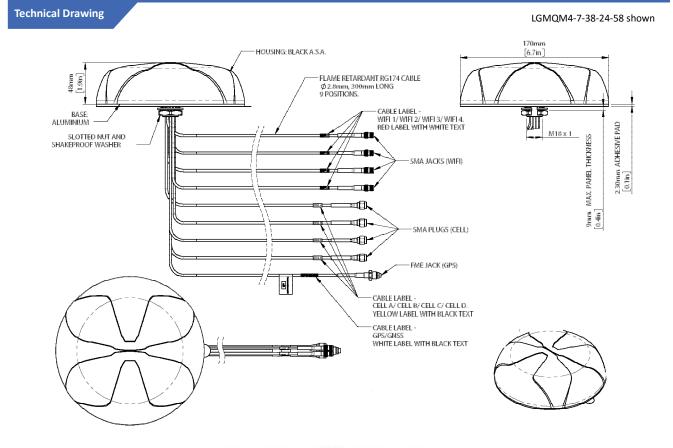
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Rugged low profile design 4x Wideband LTE/cellular elements Optional Integrated GPS/GNSS antenna Optional MiMo WiFi - up to 4x4 2.4/4.9-6GHz

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.

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.



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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Product Data

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Part No.							
				LGMM4-7-38	LGMDM4-7-38-24-58	LGMTM4-7-38-24-58	LGMQM4-7-38-24-58
Electrical Data							
Frequency Range (MHz)		Cell Elements			4x 698-960 / 1710-3800		
		WiFi Elements		-			4x 2.4/4.9-6GHz
Operational Bands		Cell Elements			4x4 MiMo LTE / Cellular		
		WiFi Elements		-	2x2 WiFi	3x3 WiFi	4x4 WiFi
Nominal Peak Gain: Isotropic*		Cell Elements	698-960MHz		4dBi		
			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			
Type Approval				E11 (ECE R10.4)			
Mechanical Data							
Dimensions	Height	ht			48mr	n (1.9")	
	Diameter			170mm (6.7")			
Operating Temp			-30° / +80°C (-22°/ 176°F)				
Colour				White (Black also available)			
IP Rating					IP	69К	
Mounting Data							
Mounting type				Panel mount			
Max panel thickness				7mm (0.27″)			
Mounting hole					19mr	n (3/4")	
Cable Data							
4x Cell / LTE Cables	Туре			RG174-FR (ECE118.01 Compliant)			
	Diameter		2.8mm (0.1")				
	Length		0.3m (1′)				
	Termination		SMA (m)				
GPS/GNSS Cable	Туре		RG174-FR (ECE118.01 Compliant)				
	Diameter		2.8mm (0.11")				
	Length		0.3m (1')				
WiFi Cables	Termination		FME (f)				
	Туре	Туре		- RG174-FR (ECE118.01 Compliant)			
	Diameter	Diameter		- 2.8mm (0.1")			
	Length	Length		- 0.3m (1')			
	Termination			- SMA (f)			

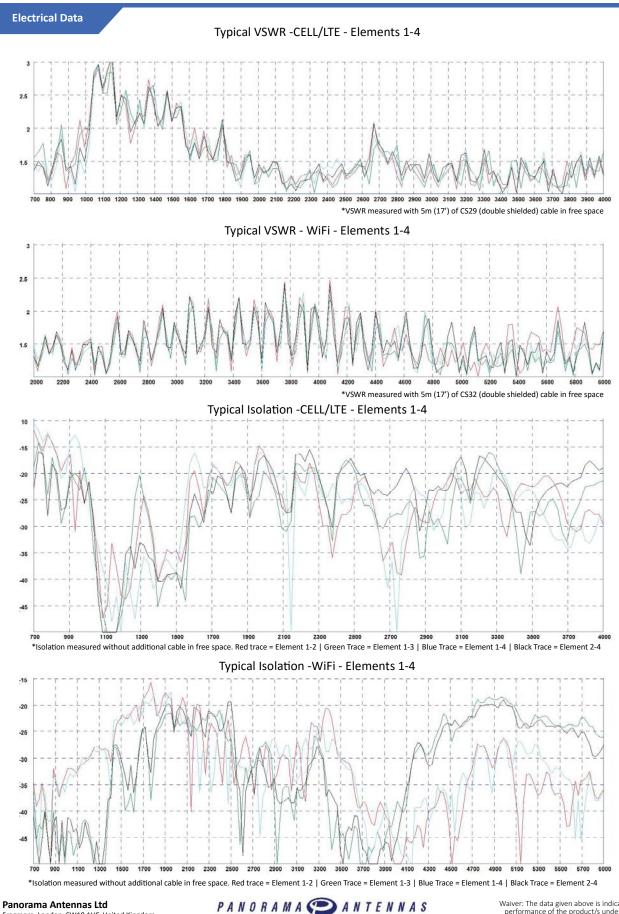
* Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss



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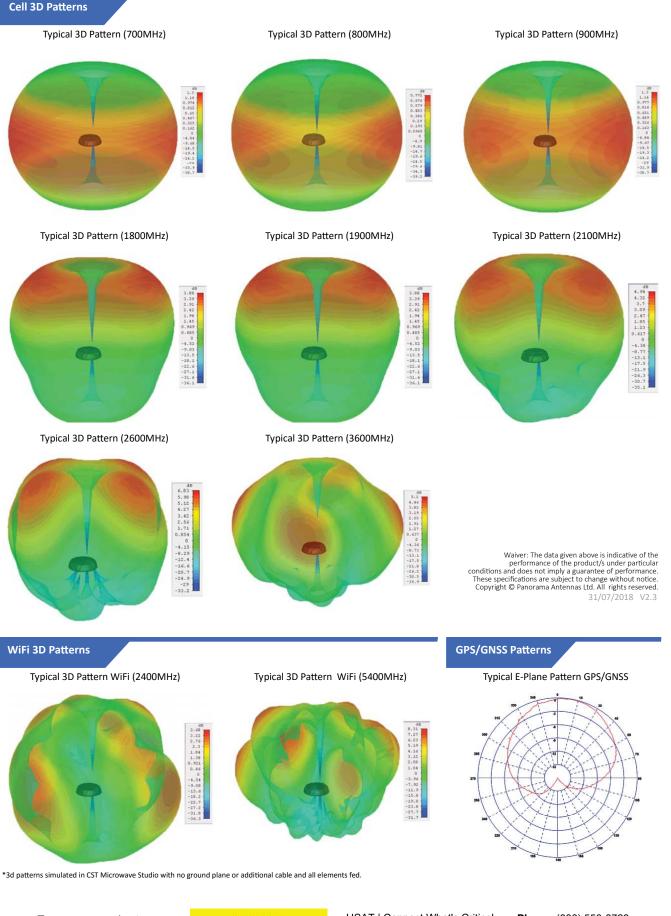
Frogmore, London, SW18 1HF, United Kingdom T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com W: www.panorama-antennas.com

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For more product information contact us:



USAT | Connect What's Critical 605 Eastowne Drive Chapel Hill, NC 27514 Phone: (888) 550-8728 Email: info@usatcorp.com Web: https://usatcorp.com