MAKO 5G DOME



### MAKO 5G DOME

Low Profile 4x4 4G/5G MiMo Up to 6 x 6 MiMo Dual Band WiFi Optional GPS/GNSS Active Antenna 26dB LNA

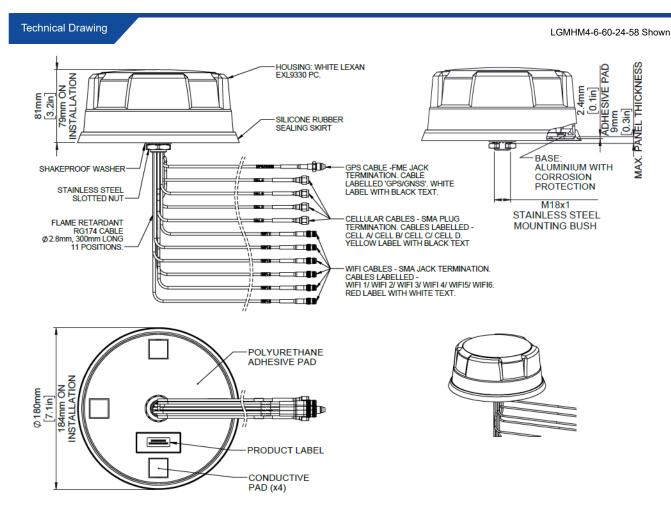
The L[G]M[X]M4[X]-6-60[-24-58] range has been designed to provide 4x4 4G/5G MiMo performance from 617-960/1710-6000MHz in a robust low profile package. The flexible platform allows the main elements to be combined with a number of other functions including GPS/GNSS and up to 6x6 MiMo WiFi 2.4/5.0GHz.

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The antenna is designed to be panel mounted and can be fitted on a conductive or non- conductive panel. Supplied with integrated flame retardant RG174 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments and applications.

The LGM variants have an integrated GPS/GNSS module supporting GPS, Glonass, Galileo, QZSS and Compass with 26dB LNA gain. 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.



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

L[G]M[X]M4[X]-6-60[-24-58]-[13/10/2020]-[V2]

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Electrical Data			LGMHM4-6-60-24-58	LGMHM4B-6-60-24-58	LGMQM4-6-60-24-58	LGMQM4B-6-60-24-5		
Electrical Data				4	4740,000			
Frequency Range (MHz)	4G/5G Elements		C++ 0.4/4	4x 617-960		.9-6GHz		
	WiFi Elements	0.17.0001.011	0X 2.4/4			.9-0GHZ		
		617-960MHz		4				
Peak Gain:	4G/5G Elements	1710-3800MHz	8					
Isotropic : (dBi) <del>i</del>		4900-6000MHz	9					
	WiFi Elements	2.4 GHz	9					
		7.2 GHz	9					
		617-960MHz		>5(	0%			
Typical Efficiency **	4G/5G Elements	1710-3800MHz	>75%					
rypical Enclency		4900-6000MHz	>85%					
	WiFi Elements			>7(	0%			
	4G/5G Elements			>10	)dB			
solation ***	Wifi Elements			>12	2dB			
	4G/5G Elements			< (	).2			
Correlation Co-efficient	WiFi Elements			<0	.1			
Nominal Impedance				50	Ω			
GPS/GNSS Data								
Frequency Range (MHz)				1562-	1612			
/SWR				<2.0:1 :	± 4MHz			
Gain: LNA				26	dB			
Out of band rejection				>40dB (@ > -	⊦/- 100MHz f)			
Typical Noise Figure				-2.7	′dB			
Notch Filter rejection @78	7MHz			23d	Bm			
Operating Voltage				3 - 5\	/ DC			
Typcal Current (mA)				1	5			
Mechanical Data								
	Height			80 (3	3.1")			
Dimensions (mm)	Diameter			180 (	7.1")			
Operating Temp (°C)				-40°/ +80°C (-				
Colour			White	Black	White	Black		
ngress Protection				IP6	9K			
Nounting Data								
Mounting type				Panel	mount			
Max panel thickness (mm)				7 (0.	27")			
Mounting hole (mm)				19 (3	3/4")			
Cable Data								
	Туре			RG174 -FR (UN EC	E118.01 Compliant)			
All Cables	Diameter (mm)			2.8 (				
	Length (m)			0.3				
Terminations	5 ( )				· ·			
4G/5G				SMA	(m)			
WiFi				SM				
				0113	· /			

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Frequency Range (MHz) WiFi 4G/5 Peak Gain: Isotropic : (dBi)+ WiFi Typical Efficiency ** Isolation *** WiFi 4G/5 Vifi E 4G/5	/5G Elements		LGMTM4-6-60-24-58	LGMTM4B-6-60-24-58	LGMDM4-6-60-24-58		
Frequency Range (MHz)       4G/5         WiFi         AG/5         WiFi         AG/5         Peak Gain: Isotropic: (dBi)+       4G/5         Typical Efficiency **       4G/5         Number of the second						LGMDM4B-6-60-24-5	
Frequency Range (MHz)       WiFi         Peak Gain: Isotropic : (dBi)*       4G/5         WiFi       WiFi         Papeak Gain: Isotropic : (dBi)*       4G/5         Typical Efficiency **       4G/5         Solation ***       4G/5         Solation ***       4G/5         Correlation Co-efficiency **       4G/5         Correlation Co-efficiency **       4G/5         Nominal Impedance       4G/5         Solation ***       4G/5         VSWR       4G/5         Solation Co-efficiency **       4G/5         Nominal Impedance       4G/5         VSWR       1         Solation Co-efficiency **       4G/5         VSWR       1       4G/5         Out of band rejection       1         Typical Noise Figure       1         Operating Voltage       1         Outoning Temp       1         Colour       1         Outoning Opata       <							
WiFi         AG/5         Peak Gain: lsotropic : (dBi)*         WiFi         AG/5         Yipical Efficiency **         AG/5         Solation ***         AG/5         Solation ***         AG/5         ViFi         AG/5 <td>i Elements</td> <td></td> <td></td> <td>4x 617-960 /</td> <td>1710-6000</td> <td></td>	i Elements			4x 617-960 /	1710-6000		
Peak Gain: Isotropic : (dBi)) WiFi AG/5 Paperating Co-efficiency ** 4G/5 WiFi AG/5 WIFi AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 A			3x 2.4/4	l.9-6GHz	2x 2.4/4	.9-6GHz	
Peak Gain: Isotropic : (dBi)) WiFi AG/5 Paperating Co-efficiency ** 4G/5 WiFi AG/5 WIFi AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 WIFI AG/5 A		617-960MHz	4				
WiFi again and a second	5G Elements	1710-3800MHz		8	1		
AG/5         Solation ***       4G/5         Solation ***       4G/5         Solation ***       4G/5         Correlation Co-efficient       4G/5         GPS/GNSS Data       4G/5         Frequency Range (MHz)       4G/5         //SWR       5         //SWR       5         //SWR       5         //SWR       5         //Synce       5		4900-6000MHz		g	1		
AG/5         Solation ***       4G/5         Solation ***       4G/5         Solation ***       4G/5         Correlation Co-efficient       4G/5         Solation ***       4G/5         Correlation Co-efficient       4G/5         Solation ***       4G/5         Solation ***       4G/5         Correlation Co-efficient       4G/5         Solation ***       4G/5         Solation **       4G/5         Solation **       4G/5         Solation **       4G/5         Solation **       4G/5         Solation		2.4 GHz		g	1		
Typical Efficiency **  Properting Correlation Co-efficience Prequency Range (NTE)  Soft S Data  Frequency Range (NTE)  SORS Data  Soft S Data  Soft	i Elements	7.2 GHz		g	1		
Typical Efficiency **  Properting Correlation Co-efficience Prequency Range (NTE)  Soft S Data  Frequency Range (NTE)  SORS Data  Soft S Data  Soft		617-960MHz		>50	)%		
WiFi 4G/5 Wifi E 4	5G Elements	1710-3800MHz		>75	5%		
Add of a constraint of the second of the sec		4900-6000MHz		>85	5%		
solation *** Wifi E 4G/5 WiFi Correlation Co-efficient Comminal Impedance COPS/GNSS Data COPS/GNS DAta COPS/GNSS DAta COPS/GNS DAta COPS	- i Elements			>7(	)%		
Wifi E         4G/5         WiFi         Nominal Impedance         GPS/GNSS Data         Frequency Range (MHz)         /SWR         Gain: LNA         Dut of band rejection         Typical Noise Figure         Notch Filter rejection         Operating Voltage         Typical Current (mA)         Operating Temp         Colour         Operating Temp         Colour         Mounting Data         Mounting type         Max panel thickness         Mounting hole (mm)         Cable Data         Type	5G Elements			>10	dB		
Correlation Co-efficient       WiFi         Nominal Impedance       SPS/GNSS Data         SPS/GNSS Data       SPS/GNSS Data         Grequency Range (MHZ)       SPS/GNSS Data         SWR       Serier S	i Elements			>12	dB		
WiFi Aominal Impedance SPS/GNSS Data SpS/GNSS Data Frequency Range (MHz) Sain: LNA Dut of band rejectio Spical Noise Figure Soutch Filter rejectio Uperating Voltage Sypcal Current (mA) Adechanical Data Adechanical Data Data Colour Co	5G Elements			< 0	.2		
Anninal Impedance         SPS/GNSS Data         Frequency Range (MHz)         VSWR         Jain: LNA         Dut of band rejection         Typical Noise Figure         Votch Filter rejection         Operating Voltage         Typical Current (mA)         Operating Temp         Colour         Operating Temp         Colour         Operating Data         Mounting Data         Mounting type         Max panel thickness         Mounting hole (mm)         Cable Data         Type	- i Elements			<0			
GPS/GNSS Data         Frequency Range (MHz)         /SWR         Jain: LNA         Dut of band rejection         Typical Noise Figure         Votch Filter rejection         Operating Voltage         Typical Current (mA)         Operating Temp         Colour         Operating Temp         Colour         Mounting Data         Mounting type         Max panel thickness (mm)         Mounting hole (mm)         Cable Data         Type				50			
Frequency Range (HHz) /SWR /SWR Gain: LNA Dut of band rejection /Syncal Noise Figure /Syncal Noise Figure /Syncal Noise Figure /Syncal Noise Figure /Syncal Current (mA) /Syncal					-		
/SWR Bain: LNA Dut of band rejection ypical Noise Figure Notch Filter rejection Operating Voltage ypcal Current (mA) Atechanical Data Atechanical Data Atechanical Data Atechanical Data Atechanical Data Atechanical Data Atechanical Temp Atechanical Temp Atechanical Temp Atechanical Temp Atechanical Current (mA) Atechanical Data Atechanical Data Atechanical Current (mA) Atechanical Current (mA)				1562-	1612		
Cain: LNA Dut of band rejection Typical Noise Figure Voltage Typcal Current (mA) Comparating Voltage Typcal Current (mA) Comparating Temp Colour Colo				<2.0:1 ±		-	
Dut of band rejection         Typical Noise Figure         Stoch Filter rejection         Operating Voltage         Typical Current (mA)         Acchanical Data         Acchanical Data         Dimensions (ma)         Operating Temp         Colour         Action Temp         Mounting Data         Mounting type         Mounting hole (mm)         Cable Data         Type				260			
Typical Noise Figure         Notch Filter rejection         Operating Voltage         Typical Current (mA)         Mechanical Data         Mechanical Data         Dimensions (mm)         Dimensions (mm)         Operating Temp         Colour         Operating Data         Mounting Data         Mounting type         Max panel thickness (mm)         Mounting hole (mm)         Cable Data         Type				>40dB (@ > +			
Notch Filter rejection Deerating Voltage Typcal Current (mA) Mechanical Data Mechanical Data Dimensions (mm) Colour Colour Mounting Data Mounting type Max panel thickness (mm) Mounting hole (mm) Cable Data Type				-2.7			
Operating Voltage         Typcal Current (mA)         Mechanical Data         Mechanical Data         Dimensions (mm)         Diameter         Operating Temp         Colour         Operating Data         Mounting Data         Mounting type         Max panel thickness (mm)         Mounting hole (mm)         Cable Data         Type				23d			
Typcal Current (mA)         Mechanical Data         Mechanical Data         Dimensions (mm)         Diameter         Diperating Temp         Colour         Orgens Protection         Mounting Data         Mounting type         Max panel thickness (mm)         Mounting hole (mm)         Cable Data         Type				3 - 5\	/ DC		
Mechanical Data Height Dimensions (mm) Height Diameter Derating Temp Colour Group Mounting Data Mounting type Max panel thickness (mm) Mounting hole (mm) Cable Data Type				1;	5		
Dimensions (mm) Diameter Deperating Temp Colour Ingress Protection Adounting Data Adounting type Aax panel thickness (mm) Adounting hole (mm) Cable Data Type							
Dimensions (mm) Diameter Deperating Temp Colour Ingress Protection Mounting Data Mounting type Max panel thickness (mm) Mounting hole (mm) Cable Data Type				80 (3	3.1")		
Colour Ingress Protection Aounting Data Mounting type Max panel thickness (mm) Aounting hole (mm) Cable Data Type				180 (			
ngress Protection Aounting Data Aounting type Max panel thickness (mm) Aounting hole (mm) Cable Data Type				-40°/ +80°C (-4			
Aounting Data Aounting type Aax panel thickness (mm) Aounting hole (mm) Cable Data Type			White	Black	White	Black	
Aounting Data Aounting type Max panel thickness (mm) Aounting hole (mm) Cable Data Type				IP6	9K		
Aounting type Aax panel thickness (mm) Aounting hole (mm) Cable Data Type							
Max panel thickness (mm) Mounting hole (mm) Cable Data Type				Panel	mount		
Nounting hole (mm) Cable Data Type				7 (0.			
Cable Data Type				19 (3			
Туре					,		
				RG174 -FR (UN EC	E118 01 Compliant)		
				2.8 (			
Length (m)				0.3			
Terminations				0.3			
4G/5G				SMA	(m)		
WiFi							
VIFI GPS/GNSS				SMA			

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Part No.							
				LGMM4-6-60	LGMM4B-6-60	LPMM4-6-60	LPMM4B-6-60
Electrical Data							
Frequency Range (M	ИHz)	4G/5G Elements			4x 617-960 /	1710-6000	
			617-960MHz		4		
Peak Gain: Isotropic	: (dBi)ŧ	4G/5G Elements	1710-3800MHz		8	1	
			4900-6000MHz		9	1	
			617-960MHz		>50	)%	
Typical Efficiency **		4G/5G Elements	1710-3800MHz		>75	5%	
			4900-6000MHz		>85	5%	
Isolation ***		4G/5G Elements			>10	dB	
Correlation Co-efficie	ent	4G/5G Elements			< 0	.2	
Nominal Impedance					50	Ω	
GPS/GNSS Data							
Frequency Range (M	ИHz)			1562-	1612		-
VSWR				<2.0:1 ±	± 4MHz		-
Gain: LNA				260	dB		-
Out of band rejectior	n			>40dB (@ > +	⊦/- 100MHz f)		-
Typical Noise Figure	•			-2.7	ďB		-
Notch Filter rejection	n @787MHz			23d	Bm		-
Operating Voltage				3 - 5\	/ DC		-
Typcal Current (mA)				1:	5		-
Mechanical Data							
Dimensions (mm)	Height				80 (3		
	Diameter				180 (		
Operating Temp					-40°/ +80°C (-4		
Colour				White	Black	White	Black
Ingress Protection					IP6	ЯΚ	
Mounting Data					Danal		
Mounting type	(				Panel r		
Max panel thickness					7 (0.)		
Mounting hole (mm) Cable Data					19 (3	214 ) 	
	Туре				RG174 -FR (UN ECI	E118 01 Compliant)	
All Cables	Diameter	(mm)			2.8 (0		
	Length (n				0.3		
Terminations	20gui (ii				0.0		
4G/5G					SMA	(m)	
GPS/GNSS				FME		× /	-

\*\*Typical efficiency shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss. \*\*\* Isolation shown is wort case across all element pairings measured on 600x600mm (23.6"x23.6") ground plane with 0.5m (1'5") of Cable.

+ Typical peak gain shown for single element of relevant type simulated in CST Microwave Studio on 600x600mm (23.6"x23.6") ground plane excluding cable loss.

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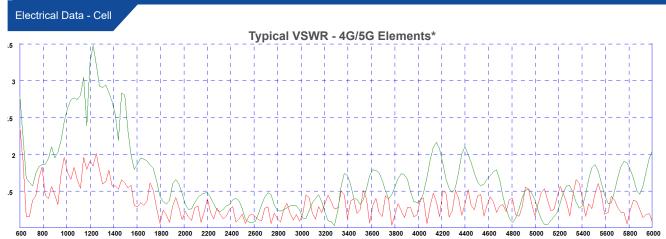
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lectrical Data requency Range (MHz) eak Gain: Isotropic : (dBi); grical Efficiency ** olation *** orrelation Co-efficient orrelation Co-efficient orrelation Co-efficient cominal Impedance lechanical Data imensions (mm)	4G/5G Elements WiFi Elements 4G/5G Elements WiFi Elements 4G/5G Elements 4G/5G Elements 4G/5G Elements 4G/5G Elements WiFi Elements	617-960MHz 1710-3800MHz 4900-6000MHz 2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz 4900-6000MHz	2x 2.4	60 / 1710-6000 4/4.9-6GHz 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
eak Gain: Isotropic : (dBi)) ypical Efficiency ** olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour igress Protection ounting Data lounting type	WiFi Elements 4G/5G Elements WiFi Elements 4G/5G Elements 4G/5G Elements Wifi Elements 4G/5G Elements	1710-3800MHz 4900-6000MHz 2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz	2x 2.4	4/4.9-6GHz 4 8 9 9 9 9 9 50% >50% >75% >85% >70% >10dB >12dB	
eak Gain: Isotropic : (dBi)) ypical Efficiency ** olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour igress Protection ounting Data lounting type	4G/5G Elements WiFi Elements 4G/5G Elements 4G/5G Elements Wifi Elements 4G/5G Elements	1710-3800MHz 4900-6000MHz 2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz		4 8 9 9 9 9 9 >50% >75% >85% >70% >10dB	
ypical Efficiency ** olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	WiFi Elements 4G/5G Elements WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	1710-3800MHz 4900-6000MHz 2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz	:	8 9 9 9 >50% >75% >85% >70% >10dB	
ypical Efficiency ** olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	WiFi Elements 4G/5G Elements WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	4900-6000MHz 2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz	:	9 9 9 >50% >75% >75% >70% >10dB	
vpical Efficiency **         olation ***         orrelation Co-efficient         ominal Impedance         echanical Data         imensions (mm)         Height         parenting Temp         olour         gress Protection         ounting Data         ounting type	4G/5G Elements WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	2.4 GHz 7.2 GHz 617-960MHz 1710-3800MHz	:	9 9 >50% >75% >85% >70% >10dB	
olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	4G/5G Elements WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	7.2 GHz 617-960MHz 1710-3800MHz	:	9 >50% >75% >85% >70% >10dB	
olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	4G/5G Elements WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	617-960MHz 1710-3800MHz	:	>50% >75% >85% >70% >10dB	
olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements	1710-3800MHz	:	>75% >85% >70% >10dB >12dB	
olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	WiFi Elements 4G/5G Elements Wifi Elements 4G/5G Elements		3	>85% >70% >10dB >12dB	
olation *** orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Perating Temp olour gress Protection lounting Data	4G/5G Elements Wifi Elements 4G/5G Elements	4900-6000MHz	2	>70% >10dB >12dB	
orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Height Diameter perating Temp olour egress Protection uounting Data	4G/5G Elements Wifi Elements 4G/5G Elements		:	>10dB >12dB	
orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Height Diameter perating Temp olour egress Protection uounting Data	Wifi Elements 4G/5G Elements		:	>12dB	
orrelation Co-efficient ominal Impedance lechanical Data imensions (mm) Height Diameter perating Temp olour egress Protection uounting Data	4G/5G Elements				
ominal Impedance lechanical Data lechanical type lechanical ty				< 0.2	
ominal Impedance lechanical Data lechanical type lechanical ty	WiFi Elements				
lechanical Data imensions (mm) perating Temp olour ugress Protection lounting Data				<0.1	
imensions (mm) Height Diameter perating Temp olour gress Protection ounting Data ounting type				50Ω	
mensions (mm) Diameter Diamete					
Diameter perating Temp olour gress Protection ounting Data			8	0 (3.1")	
olour gress Protection ounting Data ounting type	er		180 (7.1")		
igress Protection lounting Data lounting type			-40°/ +80°C	C (-40° / +176°F )	
lounting Data			White	Black	
lounting type				IP69K	
lax panel thickness (mm)				nel mount	
		7 (0.27")			
lounting hole (mm)			1	9 (3/4")	
able Data					
Туре			,	ECE118.01 Compliant)	
Il Cables Diamete				.8 (0.1")	
Length	(m)		(	0.3 (1')	
erminations					
G/5G PS/GNSS				MA (m)	

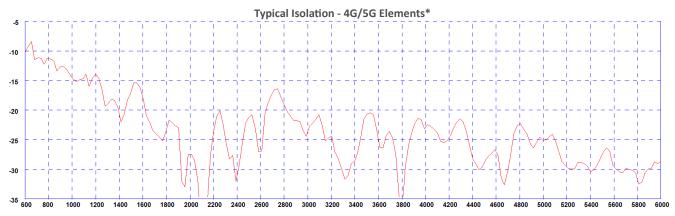
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## 4x4 MiMo 4G/5G Dome Combination Antenna Range

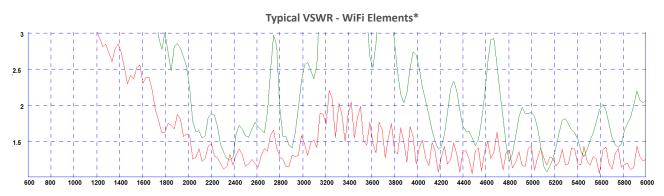
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#### \* Green Trace measured with 0.5m (1.5') of RG174 cable Red Trace measured with 5m(17') of CS32 Cable both on a 600x600mm (2'x2') groundplane



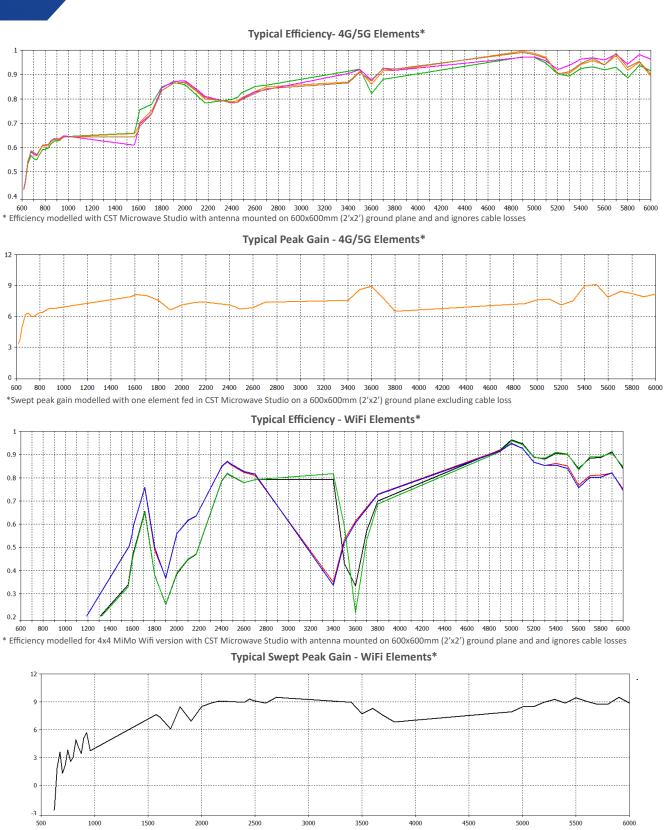
\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane



\* Green Trace measured with 0.5m (1.5') of RG174 cable Red Trace measured with 5m(17') of CS32 Cable both on a 600x600mm (2'x2') groundplane

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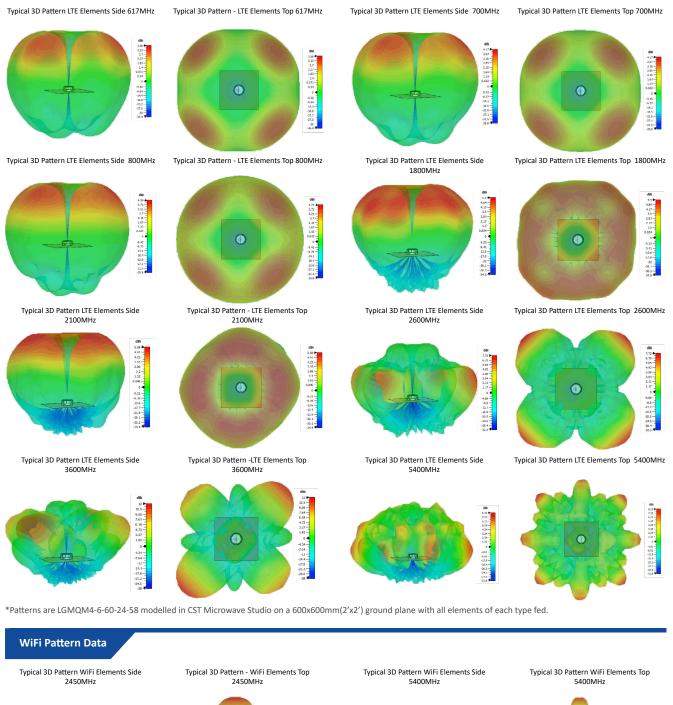
\*Swept peak gain modelled with one element fed in CST Microwave Studio on a 600x600mm (2'x2') ground plane excluding cable loss

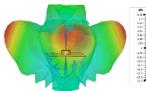
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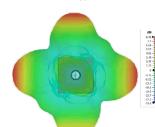
### 4x4 MiMo 4G/5G Dome Combination Antenna Range PANORAMA (2) ANTENNAS

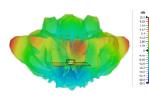
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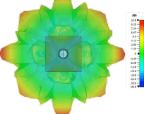
#### 4G/5G Pattern Data











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