MiMo 4G/5G Omni Antenna BS[G]M-6-60





- 2x2 MiMo 4G/5G antenna solution
- Wall, rail or mast mount
- Optional GPS/GNSS 26dB LNA
- Integrated coaxial cables

The BS[G]M-6-60 antenna is a MiMo omni-directional broad band antenna range for 4G/5G devices. It covers 617-960/1427-6000MHz and is suitable for external or internal installation.

The mounting bracket enables simple wall mounting using the supplied screws and wall plugs and mast/rail mounting using the supplied clamps.

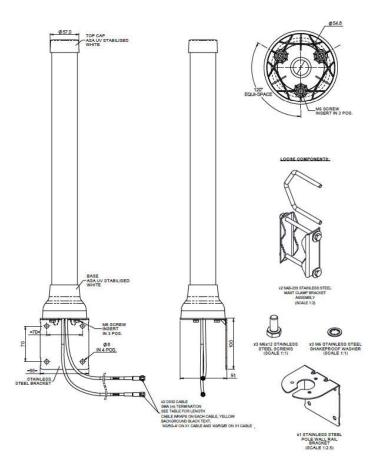
The omni-directional radiation pattern allows easy placement of the antenna in an elevated position, without requiring directional alignment.

The BSGM type is supplied with an integrated GPS/GNSS module with 26dB LNA gain and advanced filtering to combat noise.

This antenna is an ideal solution for IoT use in industrial and domestic environments for cellular modems/routers and Machine to Machine (M2M) wireless connectivity applications. The weather and corrosion resistant design also makes the antenna suitable for certain marine and costal applications.

Technical Drawing

BSM-6-60-5SP Shown



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_					Product Data		
Part No.							
		BSGM-6-60-5SP	BSGM-6-60-05NJ	BSM-6-60-5SP	BSM-6-60-05NJ		
Electrical Data							
Frequency Range (MHz)	Elements 1&2						
	Element 3	1559	-				
Operational Band	Elements 1&2						
	Element 3	GPS-	-				
Peak Realised Gain: Isotropic* Elements 1 & 2	617-960MHz						
	1427-2700 MHz						
	3400-4200MHz	5dBi					
	4.9-6000Mhz	5dBi					
Typical VSWR**							
Nominal Radiated Efficiency*		> 60%					
Correlation Co-efficient		< 0.1					
Polarisation		Vertical					
Pattern							
Impedance		50Ω					
Max Input Power (\	V)						
GPS/GNSS Data							
Frequency Range (MHz)	1559-1612			-		
Typical VSWR		<2.5:1			-		
_NA Gain		26dB	-				
Polarisation		RH	-				
Operating Voltage		3-5 VD0	C <20ma		-		
Mechanical Data							
	Height Excl Brkt	540 (21.25")					
Dimensions (mm)	Diameter	86 (3.38")					
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)					
Material		ASA, Stainless Steel					
Material Approvals		Radome ASA Material - UL 746C F2, UL 94-HB					
Colour		White & Natural					
Ingress Protection		IP67					
Mounting Data							
Fixing			Wall,Mast or	Rail Mount			
Mounting Screw Di	ameter (mm)		4 (0.				
Max Mast / Rail Dia		50 (1.96")					
Cable Data			30 (1				
Jabie Dala	Туре	CS22 /ENIAERAE 2 8 LINI ECE D418 Compliant					
	Diameter (mm)	CS32 (EN45545-2 & UN ECE R118 Compliant) 5 (0.19")					
4G/5G Cables		5 (17'\	0 E (4' 6"\				
	Length (m)	5 (17')	0.5 (1' 6")	5 (17')	0.5 (1' 6")		
	Termination	SMA (m) N(f) SMA (m)			N(f)		
GPS/GNSS Cables	Type	CS29 FR (EN45545-2 & UN ECE R118 Compliant)			-		
	Diameter (mm)	· ()			-		
	Length (m)	5 (17')	0.5 (1' 6")		-		
	Termination	SMA (m)	N(f)		-		

^{*} Peak gain and efficiency simulated in CST microwave studio in free space excluding cable loss ** Typical VSWR measured with 0.5m of cable in free space.

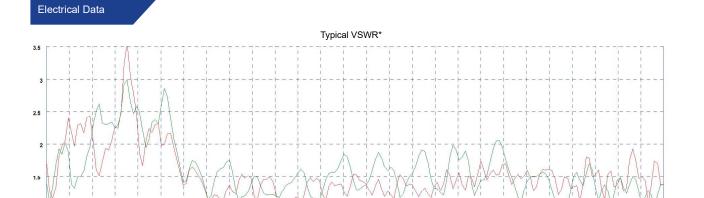
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		BSGM-6-60-5FKJ	BSGM-6-60-5NP	BSM-6-60-5FKJ	BSM-6-60-5NP		
Electrical Data		DOGINI-0-00-0FKJ	TAIC-00-0-INDOG	DOINI-0-00-0FNJ	DOIVI-0-00-7INF		
	Elements 1&2		617.060 /	1427-6000			
Frequency Range (MHz)	Element 3	617-960 / 1427-6000					
(1411 12)		1559-1612 -					
Operational Band	Elements 1&2	2G/3G/4G/5G					
	Element 3	GPS-GNSS -					
Peak Realised Gain: Isotropic* Elements 1 & 2	617-960MHz	3dBi					
	1427-2700 MHz	6dBi					
	3400-4200MHz	5dBi					
	4.9-6000Mhz	5dBi					
Typical VSWR**		<2.5:1					
Nominal Radiated Efficiency*		> 60%					
Correlation Co-efficient		<0.1					
Polarisation		Vertical					
Pattern	Omni-directional						
Impedance		50Ω					
Max Input Power (V	N)		1	0			
GPS/GNSS Data							
Frequency Range ((MHz)	1559-1612			-		
Typical VSWR		<2.5:1			-		
LNA Gain		26dB (+/-3) -					
Polarisation	RHCP				-		
Operating Voltage		3-5 VDC <20ma			-		
Mechanical Data							
Dimensions (mm)	Height Excl Brkt	540 (21.25")					
,	Diameter	86 (3.38")					
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)					
Material		ASA, Stainless Steel					
Material Approvals		Radome ASA Material - UL 746C F2, UL 94-HB					
Colour		White & Natural					
Ingress Protection			IP	67			
Mounting Data							
Fixing	Wall,Mast or Rail Mount						
Mounting Screw Diameter (mm)		4 (0.16")					
Max Mast / Rail Diameter (mm)		50 (1.96")					
Cable Data							
4G/5G Cables	Туре	CS32 (EN45545-2 & UN ECE R118 Compliant)					
	Diameter (mm)	5 (0.19")					
	Length (m)	5 (17')	5 (17')	5 (17')	5 (17')		
	Termination	Fakra D Jack	N(m)	Fakra D Jack	N(m)		
	Туре	CS29 FR (EN45545-2 & UN ECE R118 Compliant) -					
GPS/GNSS Cables	Diameter (mm)	5 (0.19*)					
	Length (m)	5 (17')	5 (17')		-		
	Termination	Fakra C Jack	N(m)		-		

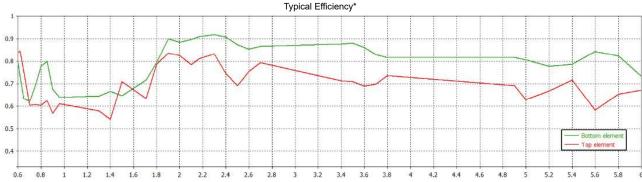
^{*} Peak gain and efficiency simulated in CST microwave studio in free space excluding cable loss ** Typical VSWR measured with 0.5m of cable in free space.

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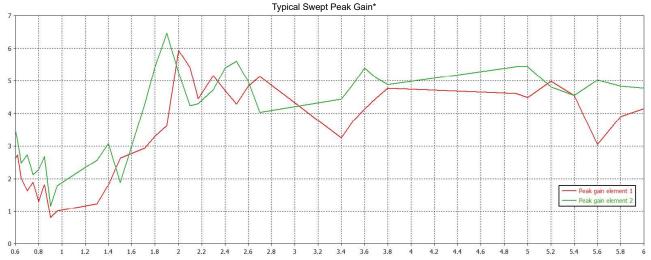


*Red Plot =VSWR top element measured on supplied bracket with 5m (16') of CS32 cable. Green Plot = VSWR bottom element measured on supplied bracket with 0.5m (1.5') of CS32 cable.

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*Red Plot = Efficiency top element measured on supplied bracket without cable. Green Plot = Efficiency bottom element measured on supplied bracket without cable.



*Red Plot = Peak gain top element measured on supplied bracket without cable. Green Plot = Peak gain bottom element measured on supplied bracket without cable.

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