3x 2x2 MiMo 4G/5G Wall / Mast Mount Antenna

DWMM6[X]-6-60-[X]

DWMM6[X]-6-60-[X]

- 3x 2x2 MiMo 4G/5G Omni-Directional Antenna
- Mast, Wall or Desk Mount
- Optional L1 or L1/L5 GPS/GNSS
- Integral FRZH Rated Coaxial Cables

The DWMM6[X]-6-60-[X] antenna provides a 3x 2x2 MiMo omnidirectional antenna solution for global 4G/5G networks covering 617-6000MHz. It features eight separately fed ultra-wideband elements in a single housing and is suitable for a wide range of fixed-site, branch office and enterprise failover applications using cellular bonding / aggregation.

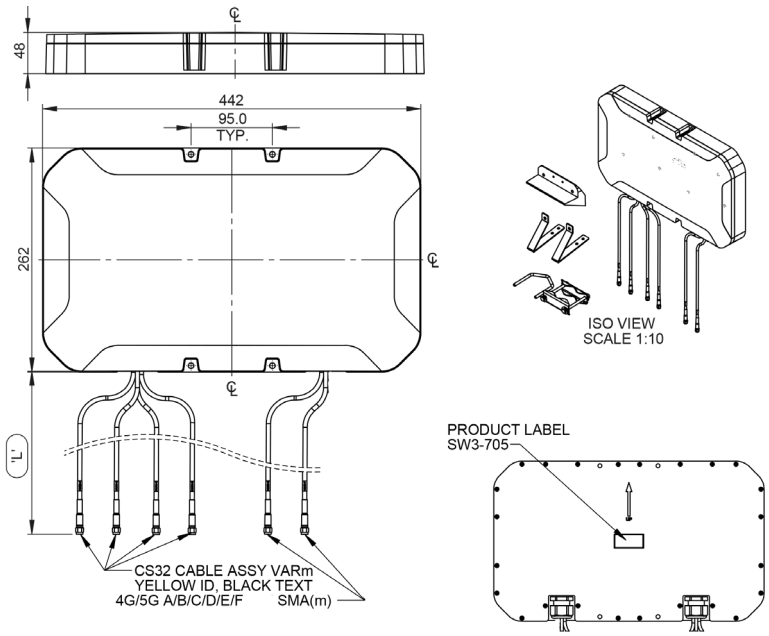
The mounting bracket enables mast mounting using the supplied clamp assembly or it can be wall-mounted using the supplied screws and wall plugs. The antenna can be fitted directly to non-conductive panels or internal walls and mounting feet are supplied to allow it to be stood on a desk or window sill.

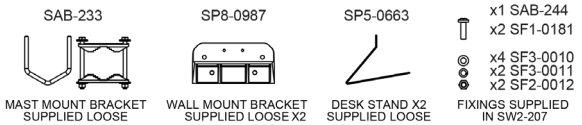
The omni-directional radiation pattern allows easy placement of the antenna without consideration of directional alignment and makes it ideal where access to multiple network sites is required. The DWMM6G version incorporates an integral GPS/GNSS antenna with 26dB or 30dB / 26dB LNA gain and advanced filtering for resilient operation.

The antenna has integral flame retardant coaxial cables, which eliminate or reduce exposed connector joints and simplify installation. Versions with SMA plugs offer direct connection to many routers while those with N Jacks allow connection of longer cables runs of low loss cable.

Technical Drawing

DWMM6-6-60-VARSP Shown





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DWMM6[X]-6-60-[X]

PANORAMA ANTENNAS

Product Data

Part No.		DWMM6-6-60-05NJ	DWMM6-6-60-5SP
Electrical Data			
Frequency Range (MHz)	Elements 1-6	6x 617-960 / 1427-6000	
Operational Band	Elements 1-6	4G/5G	
Typical VSWR*		<2.5:1	
Typical Peak Gain - Elements 1-6 (dBi)**	617-960MHz	5.1	
	1427-6000MHz	8.1	
Typical Efficiency***	617-960MHz	68%	
	1427-6000MHz	76%	
Correlation Co-efficient		< 0.1	
Polarisation		+/-45 degrees	
Pattern		Hybrid	
Impedance		50Ω	
Max Input Power (W)		10	
Mechanical Data			
Dimensions (mm)	Length	442 (17.4”)	
	Height Excl Brkt	262 (10.3”)	
	Depth	48 (1.9”)	
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)	
Radome Material		ASA - UL 746C F1, UL 94-HB	
Colour		White	
Ingress Protection		IP66	
Typical Wind Load @ 45 m/s (N) †		470	
Mounting Data			
Fixing		Wall, Mast, Rail or Panel Mount	
Max Mast Diameter (mm)		50 (1.96”)	
Cable Data			
4G/5G Cables	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
	Diameter (mm)	5 (0.19”)	
	Length (m)	0.5 (1’ 6”)	5 (16’ 4”)
	Termination	6x N(f)	6x SMA (m)

* Typical VSWR as measured across 95% of relevant bands in free space with 0.5m (1.6’) of CS32 cable.
** Typical Peak gain as measured in free space with 0.5m (1.6’) of CS32 cable.
***Typical efficiency represents average efficiency across stated bands as measured in free space with 0.5m (1.6’) of CS32 cable.
† When installed in correctly in full accordance with the installation instructions

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Electrical Data

Part No.			
		DWMM6G-6-60-05NJ	DWMM6G-6-60-5SP
Electrical Data			
Frequency Range (MHz)	Elements 1-6	6x 617-960 / 1427-6000	
	Element 7	1x 1559-1612	
Operational Band	Elements 1-6	2G/3G/4G/5G	
	Element 7	GPS/GNSS	
Typical VSWR*		<2.5:1	
Typical Peak Gain - Elements 1-6 (dBi)**	617-960MHz	5.1	
	1427-6000MHz	8.1	
Typical Efficiency***	617-960MHz	68%	
	1427-6000MHz	76%	
Correlation Co-efficient		< 0.1	
Polarisation		+/-45 degrees	
Pattern		Hybrid	
Impedance		50Ω	
Max Input Power (W)		10	
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)	Length	442 (17.4”)	
	Height Excl Brkt	262 (10.3”)	
	Depth	48 (1.9”)	
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)	
Radome Material		ASA - UL 746C F1, UL 94-HB	
Colour		White	
Ingress Protection		IP66	
Typical Wind Load @ 45 m/s (N) †		470	
Mounting Data			
Fixing		Wall, Mast, Rail or Panel Mount	
Max Mast Diameter (mm)		50 (1.96”)	
Cable Data			
4G/5G Cables	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
	Diameter (mm)	5 (0.19”)	
	Length (m)	0.5 (1’ 6”)	5 (16’ 4”)
	Termination	6x N(f)	6x SMA (m)
GPS/GNSS Cables	Type	CS29 FR (EN45545-2 Compliant)	
	Diameter (mm)	5 (0.19”)	
	Length (m)	0.5 (1’ 6”)	5 (16’ 4”)
	Termination	1x N(f)	1x SMA (m)

* Typical VSWR as measured across 95% of relevant bands in free space with 0.5m (1.6’) of CS32 cable.

** Typical Peak gain as measured in free space with 0.5m (1.6’) of CS32 cable. † When installed in correctly in full accordance with the installation instructions

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Electrical Data

Part No.			
		DWMM65G-6-60-05NJ	DWMM65G-6-60-5SP
Electrical Data			
Frequency Range (MHz)	Elements 1-6	6x 617-960 / 1427-6000	
	Element 7	1x 1164-1189 / 1559-1612	
Operational Band	Elements 1-6	2G/3G/4G/5G	
	Element 7	GPS/GNSS	
Typical VSWR*		<2.5:1	
Typical Peak Gain - Elements 1-6 (dBi)**	617-960MHz	5.1	
	1427-6000MHz	8.1	
Typical Efficiency***	617-960MHz	68%	
	1427-6000MHz	76%	
Correlation Co-efficient		< 0.1	
Polarisation		+/-45 degrees	
Pattern		Hybrid	
Impedance		50Ω	
Max Input Power (W)		10	
GPS/GNSS Data			
Frequency Range (MHz)		1164-1189 / 1559-1612	
Typical VSWR		<2.5:1	
LNA Gain		30dB / 26dB (+/-7.5)	
Polarisation		RHCP	
Operating Voltage		3-5v 36ma Typical	
Mechanical Data			
Dimensions (mm)	Length	442 (17.4”)	
	Height Excl Brkt	262 (10.3”)	
	Depth	48 (1.9”)	
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)	
Radome Material		ASA -UL 746C F1, UL 94-HB	
Colour		White	
Ingress Protection		IP66	
Typical Wind Load @ 45 m/s (N) †		470	
Mounting Data			
Fixing		Wall, Mast, Rail or Panel Mount	
Max Mast Diameter (mm)		50 (1.96”)	
Cable Data			
4G/5G Cables	Type	CS32 (EN45545-2 Compliant - meets CPR Dca s2 d1 a1)	
	Diameter (mm)	5 (0.19”)	
	Length (m)	0.5 (1’ 6”)	5 (16’ 4”)
	Termination	6x N(f)	6x SMA (m)
GPS/GNSS Cables	Type	CS29 FR (EN45545-2 Compliant)	
	Diameter (mm)	5 (0.19”)	
	Length (m)	0.5 (1’ 6”)	5 (16’ 4”)
	Termination	1x N(f)	1x SMA (m)

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