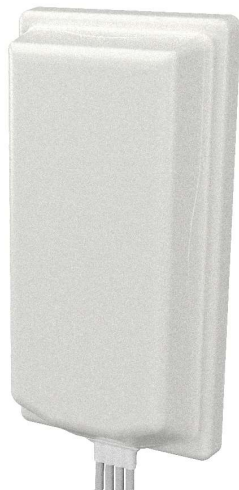


# 4x4 MiMo Directional Antenna

WMM48GB-17-42-[VAR]

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- Low Visual Impact
- 4x4 MiMo 4G/5G - 1710-4200MHz
- 7dBi Directional Peak Gain
- Wall or Mast Mount

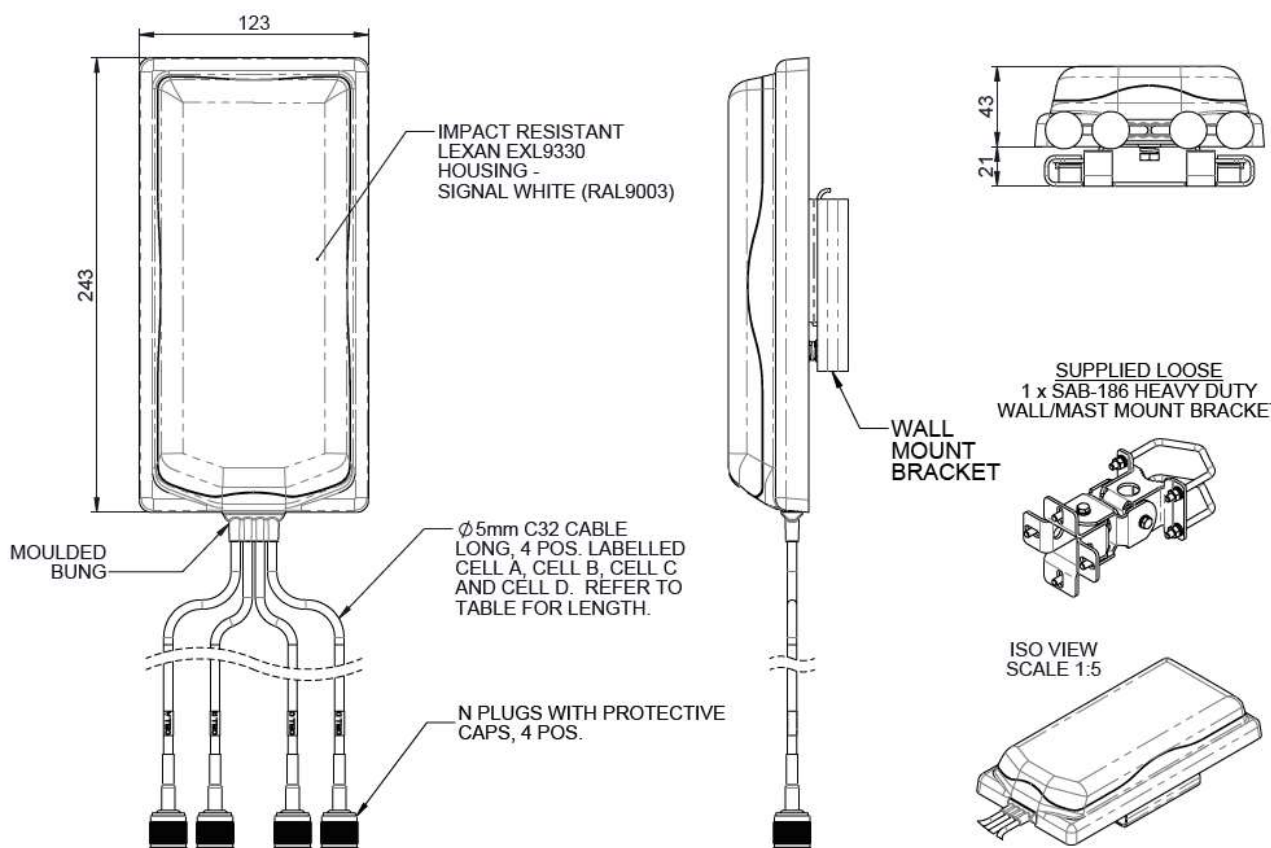
The WMM48GB-17-42 range has been designed to provide directional 4x4 MiMo coverage for 4G & 5G including C-Band and CBRS networks in a low profile wall or mast mount package. The compact, robust low-profile housing contains four antenna elements with effective isolation and low correlation covering 1710-4200MHz with over 7dBi peak gain.

The antenna is designed to be wall or mast mounted and can be fitted on a conductive or non- conductive panel. Supplied with integrated flame retardant low loss cables and a halogen free flame retardant radome the antenna is suitable for many environments.

The multi-tilt bracket supplied with the antenna is highly adjustable and provides for flexible installation.

## Technical Drawing

WMM48GB-17-42-1NP Shown



# 4x4 MiMo

## Directional Antenna

### WMM48GB-17-42-[VAR]

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#### Product Data

Part No.		WMM48GB-17-42-1NP	WMM48GB-17-42-5SP
Electrical Data			
Frequency Range (MHz)		4x 1710-4200	
Peak Gain:	1710-2170MHz	7dBi	
Isotropic †	2170-2700MHz	6.5dBi	
	2700-4200MHz	7dBi	
Pattern		Directional	
Typical VSWR*		< 2.5:1	
Typical Isolation *	Worst Case	≥12dB	
Typical Efficiency		>75%	
Correlation Co-efficient		<0.1	
Nominal Impedance		50Ω	
Max input power (W)		20	
Mechanical Data			
Dimensions (mm)	Length	243 (9.56")	
	Width	123 (4.84")	
	Height	54 (2.12")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Material		LEXAN EXL 9330 (UL94-V0)	
Colour		White	
Mounting Data			
Fixing		flush wall mount or wall / mast mount	
Adjustment (SAB-186 Bracket)		+/- 85 degrees horizontal or vertical	
Mast Diameter (mm)		20-50 / (0.78 - 1.96")	
Cable Data			
4G/5G Cables	Cable Type	CS32 (meets EN45545-2 and UN ECE R118)	
	Diameter (mm)	5 (0.2")	
	Length (m)	1 (3'3")	5 (16.4')
	Termination	4x N Plug (m)	4x SMA Plug (m)

\* Typical VSWR and isolation stated as measured with 0.5m (1.5') of cable in free space

† Peak gain simulated in CST Microwave Studio for one element fed excluding cable loss

# 4x4 MiMo

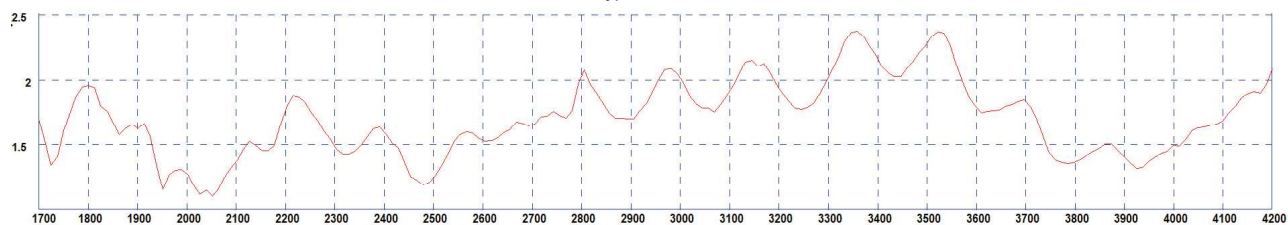
## Directional Antenna

### WMM48GB-17-42-[VAR]

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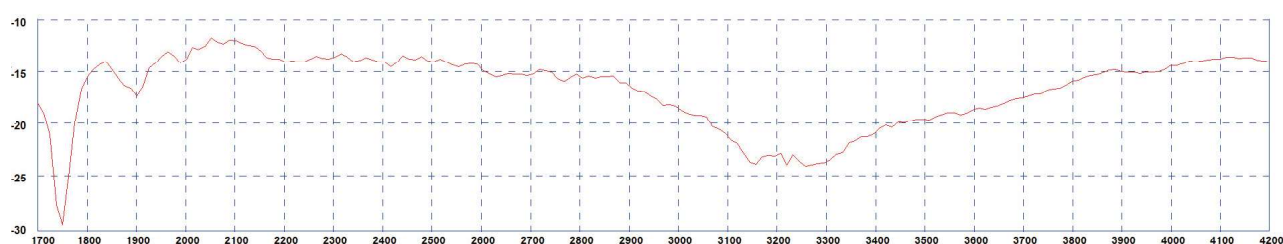
#### Electrical Data

Typical VSWR \*



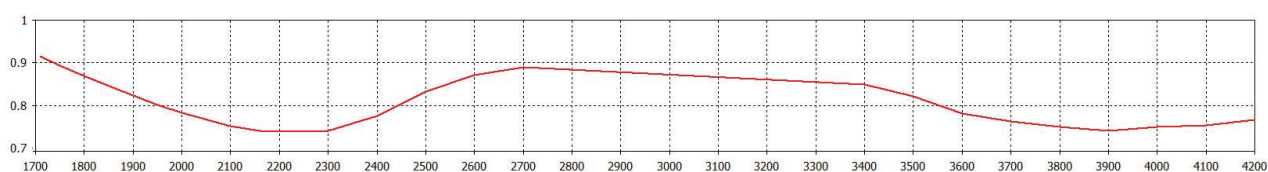
\* VSWR measured with 0.5m (1.5') of cable.

Typical Worst Case Isolation \*



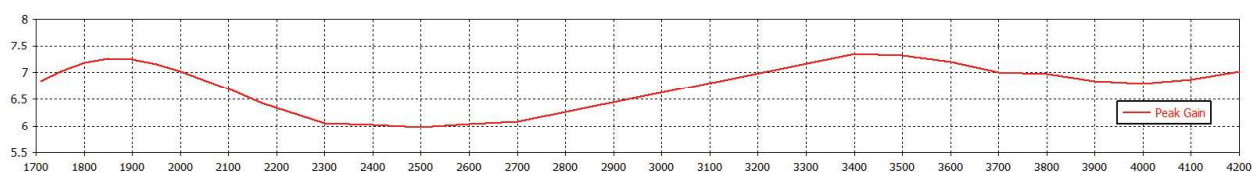
\* Isolation measured with 0.5m (1.5') of cable

Typical Efficiency\*



\*Element efficiency simulated in CST Microwave Studio for one element without additional cable loss.

Typical Swept Peak Gain\*



\* Swept peak gain simulated in CST Microwave Studio for one element without additional cable loss.

# 4x4 MiMo

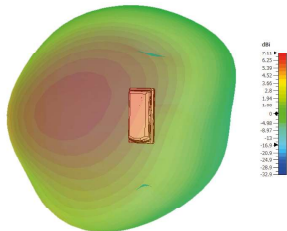
## Directional Antenna

### WMM48GB-17-42-[VAR]

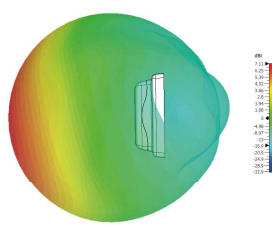
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#### 3D Patterns

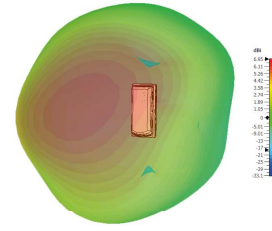
Typical 3D Pattern Side (1800MHz)



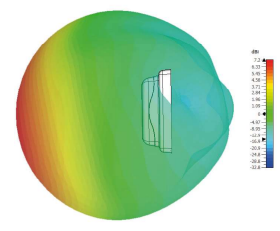
Typical 3D Pattern Top (1800MHz)



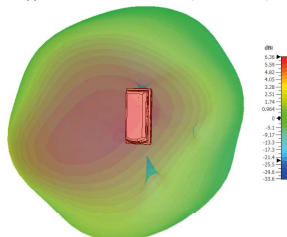
Typical 3D Pattern Side (1900MHz)



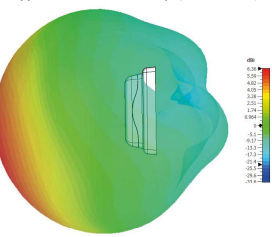
Typical 3D Pattern Top (1900MHz)



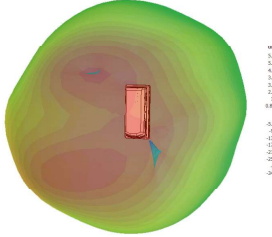
Typical 3D Pattern Side (2170MHz)



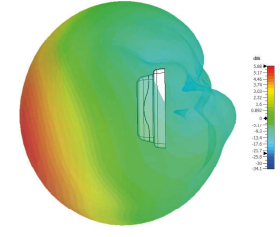
Typical 3D Pattern Top (2170MHz)



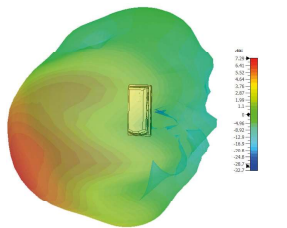
Typical 3D Pattern Side (2600MHz)



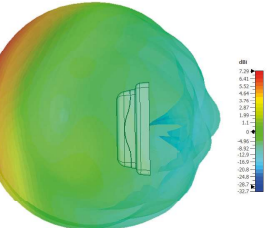
Typical 3D Pattern Top (2600MHz)



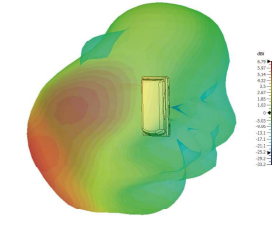
Typical 3D Pattern Side (3600MHz)



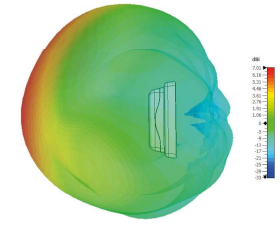
Typical 3D Pattern Top (3600MHz)



Typical 3D Pattern Side (4000MHz)



Typical 3D Pattern Top (4000MHz)



3D patterns simulated in CST Microwave Studio with a single element fed without additional cable loss.

**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

WMM48GB-17-42-1NP 17/02/2023 V1

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