

Powertec 4G Wideband MIMO Panel Antenna, 700 to 2700 MHz, 4.3-10 Female

SKU: ANT-PT-00010

MPN: ANT-PT-00010

Barcode: 9337692003707

Description

Powertec's heavy duty wideband 2x2 MIMO antenna has a wide frequency design - operating on two bands 698 to 960 MHz, and 1695 to 2700 MHz covering most 3G UMTS, and 4G LTE cellular bands with consistently high gain and low VSWR.

This antenna is very popular as a 4G MIMO external antenna, used extensively across Australia, Middle East, South America, and several European countries due to its effectiveness in aggregating a large number of 4G carriers.

This industrial grade antenna is suitable for LTE cell-edge and small cell deployments and has N and 4.3-10 Female connector options available (2x 4.3-10 Female standard).

- Wideband 698 to 960 and 1695 to 2700 MHz
- Dual slant polarised $\pm 45^\circ$ 2x2 MIMO
- Ideal for LTE small cell / blackspot deployment
- $\pm 10^\circ$ stainless steel mechanical tilt bracket
- Operator grade mechanical construction

This antenna implements a more advanced RF design that provides a higher degree of isolation and cross-polar discrimination ...

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RF Specification

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

Start Frequency:	698 MHz	Polarisation:	Dual Slant $\pm 45^\circ$
Stop Frequency:	2700 MHz	Input Impedance:	50
Max. Input Power:	100 W		

RF Connectors

RF Interface

4.3-10 Female

4.3-10 Female

Body Shape

Straight

Straight

Frequency Test Data

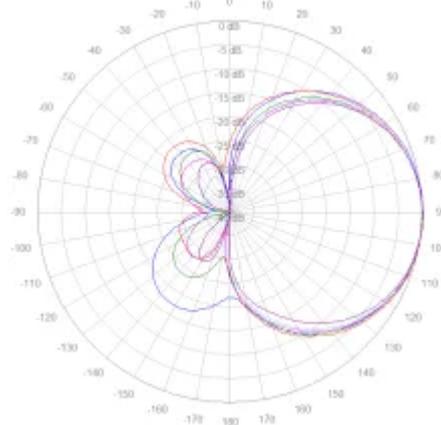
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio	Inter-Port Iso.	Cross-Polar Iso.
698 MHz	804 MHz	7.5 dBi	< 1.4:1	70°	70°	> 17 dB	> 28 dB	> 15 dB
804 MHz	960 MHz	7.5 dBi	< 1.4:1	60°	70°	> 20 dB	> 28 dB	> 15 dB
1695 MHz	1880 MHz	7.8 dBi	< 1.5:1	65°	70°	> 20 dB	> 27 dB	> 15 dB
1880 MHz	2220 MHz	8 dBi	< 1.3:1	65°	65°	> 20 dB	> 30 dB	> 15 dB
2300 MHz	2400 MHz	8 dBi	< 1.4:1	60°	65°	> 18 dB	> 32 dB	> 15 dB
2400 MHz	2500 MHz	8.3 dBi	< 1.4:1	60°	60°	> 21 dB	> 33 dB	> 15 dB
2500 MHz	2700 MHz	8.5 dBi	< 1.3:1	60°	60°	> 21 dB	> 38 dB	> 15 dB

Polar Patterns

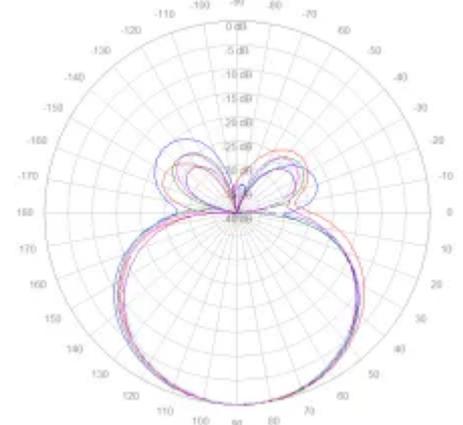
Start Frequency: 698 MHz

Stop Frequency: 960 MHz

Azimuth Polar Plot

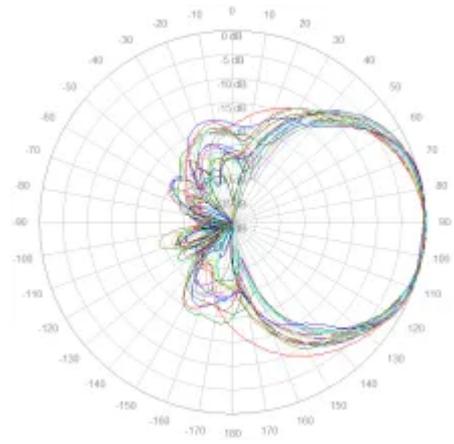


Elevation Polar Plot

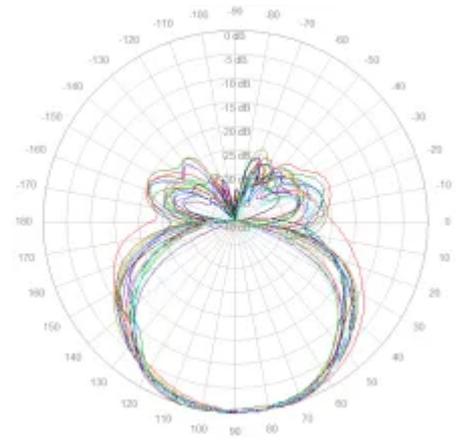


Start Frequency: 1710 MHz
Stop Frequency: 2700 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype:	Panel / Sector	Dimensions:	331 x 133 x 300
Input Ports:	2	Materials:	Polyvinyl Chloride (PVC), Stainless Steel (303)
MIMO:	2x2 MIMO	Mounting:	Pole Clamp 30 to 63 mm
Min. Operating Temperature:	-40 °C	Weight:	3.55 kg
Max. Operating Temperature:	65 °C		
PIM, 3rd Order:	-120 dBc		

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