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

SKU
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 ±45° 2x2 MIMO
- Ideal for LTE small cell / blackspot deployment
- ±10° 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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Powertec

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 ...

RF Specification

Start Frequency
698 MHz
Stop Frequency
2700 MHz
Max. Input Power
100 W
Polarisation
Dual Slant ±45°
Input Impedance
50 Ω
RF Connectors

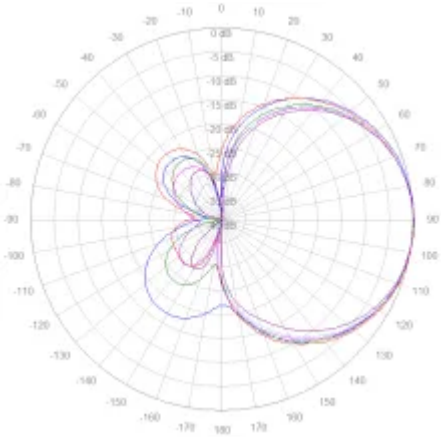
RF Interface	Body Shape
4.3-10 Female	Straight
4.3-10 Female	Straight

Frequency Test Data

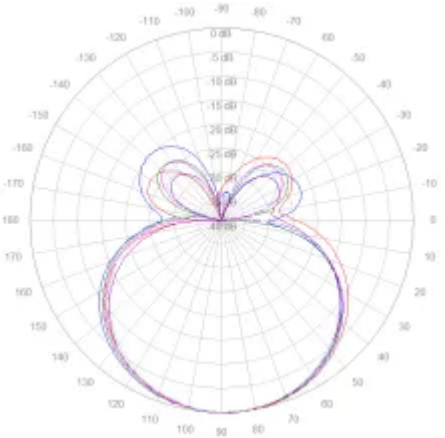
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio	Inter-Port Iso.	Cross-Polar Iso.
698 MHz	804 MHz	7.5 dBi	< 1.4:1	70°	70°	> 17 dB	> 28 dB	> 15 dB
804 MHz	960 MHz	7.5 dBi	< 1.4:1	60°	70°	> 20 dB	> 28 dB	> 15 dB
1695 MHz	1880 MHz	7.8 dBi	< 1.5:1	65°	70°	> 20 dB	> 27 dB	> 15 dB
1880 MHz	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



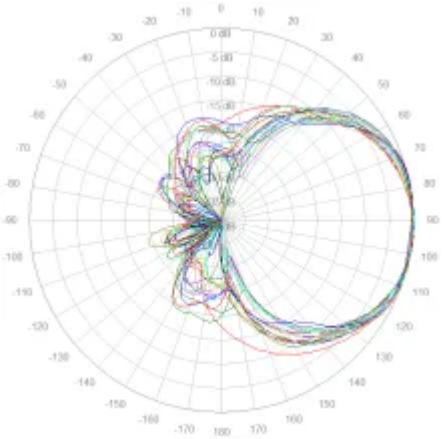
Start Frequency

1710 MHz

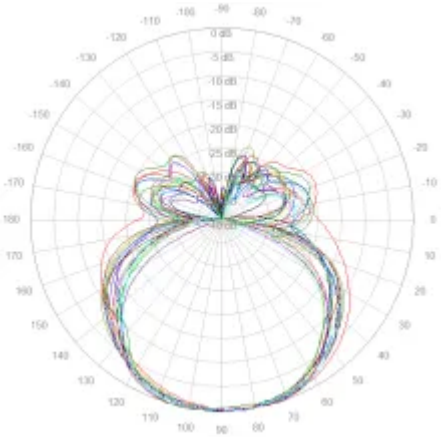
Stop Frequency

2700 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

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

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