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Powertec 4G-5G Wideband MIMO Panel Antenna, 698 to 3800 MHz, 4.3-10 Female

SKU
ANT-PT-00011
MPN
2XPA-6938-9.432
Barcode
9337692003714

Description

Powertec's 2XPA-6938-9 5G antenna is an industrial grade 2x2 MIMO two-port panel antenna covering all 4G and 5G bands within the 698 to 3800 MHz range. The antenna exhibits exceptional performance right across the frequency range, providing 7 to 9 dBi gain with very low VSWR, high inter-port isolation, and consistent polar patterns.

This highly sought after antenna facilitates EN-DC for aggregation of 4G LTE and 5G NR carriers, with the entire frequency range available at both ports. During design, close attention was paid to 3.5 GHz to ensure performance was maximised on the n78 (3500 MHz) 5G FR1 midband.

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This industrial grade antenna is suitable for LTE / NR cell-edge and small cell deployments and has two 4.3-10 Female connectors at the base of the antenna.

- Wideband 698 to 960 and 1695 to 3800 MHz
- Dual slant polarised ±45° 2x2 MIMO
- Ideal for LTE / NR small cell / blackspot deployment
- ±10° stainless steel mechanical tilt bracket
- Operator grade mechanical construction

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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
3800 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	< 1.5:1	78°	72°	> 16 dB	> 28 dB	> 15 dB
804 MHz	960 MHz	7.8 dBi	< 1.5:1	63°	68°	> 20 dB	> 28 dB	> 15 dB
1695 MHz	1880 MHz	7.9 dBi	< 1.5:1	64°	68°	> 20 dB	> 27 dB	> 15 dB
1880 MHz	2200 MHz	8.2 dBi	< 1.5:1	61°	63°	> 20 dB	> 27 dB	> 15 dB
2300 MHz	2400 MHz	8.3 dBi	< 1.4:1	59°	63°	> 18 dB	> 32 dB	> 15 dB
2400 MHz	2500 MHz	8.3 dBi	< 1.4:1	61°	62°	> 21 dB	> 33 dB	> 15 dB
2500 MHz	2700 MHz	8.5 dBi	< 1.3:1	57°	60°	> 22 dB	> 37 dB	> 15 dB
3300 MHz	3800 MHz	8.6 dBi	< 1.4:1	59°	65°	> 24 dB	> 26 dB	> 15 dB

Physical Specification

Subtype
Panel / Sector
Input Ports
2
MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
65 °C
PIM, 3rd Order
-108 dBc
Dimensions
331 x 133 x 300
Materials
Polyvinyl Chloride (PVC)
Mounting
Pole Clamp 30 to 63 mm ⌀
Weight
3.6 kg

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