

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 $\pm 45^\circ$ 2x2 MIMO
- Ideal for LTE / NR small cell / blackspot deployment
- $\pm 10^\circ$ stainless steel mechanical tilt bracket
- Operator grade mechanical construction

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RF Specification

Start Frequency:	698 MHz	Polarisation:	Dual Slant $\pm 45^{\circ}$
Stop Frequency:	3800 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	< 1.5:1	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	Dimensions:	331 x 133 x 300
Input Ports:	2	Materials:	Polyvinyl Chloride (PVC)
MIMO:	2x2 MIMO	Mounting:	Pole Clamp 30 to 63 mm
Min. Operating Temperature:	-40 °C	Weight:	3.6 kg
Max. Operating Temperature:	65 °C		
PIM, 3rd Order:	-108 dBc		

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