

Powertec Low Band 2x2 MIMO Panel Antenna, 700 to 960 MHz

Model Number

2XPA-6996-15.432

Order Code

ANT-PT-00007

Polarisation

Dual Slant (2x2 MIMO)

Design Type

Panel

RF Category

Cellular



2XPA-6996-15 is a heavy duty 2x2 MIMO antenna covering 4G LTE and 5G NR lower cellular bands from 698 to 960 MHz with high gain, high front-to-back ratio, and low VSWR. The antenna is designed for long range 4G data connectivity, and also as an outdoor broadcast antenna for Cel-Fi Quatra repeaters.

With a 14 dBi peak gain across the entire band it serves as a exceptional long range 700 MHz 4G LTE MIMO XPOL antenna. The antenna is ready for Telstra's long range 5G 850 MHz network as well Optus and Vodafone 900 MHz services. This high performance antenna ensures the best possible connectivity regardless of network coverage type.

As an outdoor roof mounted antenna this model is extraordinarily powerful. Installing the antenna anywhere with B28 700 MHz 4G coverage nearby produces a dramatic increase in signal strength. With a 45° main lobe (azimuth) the antenna requires minimal alignment. With dual-slant polarisation and its wide beam able to capture a high level of multipath achieving true Rank-2 MIMO is effortless.

Panel antennas are the most popular choice for mobile broadband. Their construction is in true $\pm 45^\circ$ 'XPOL' polarisation providing total separation of the two data streams transmitted by the cell tower allowing a near 100% increase in speed over a single polarised antenna. This antenna is extremely well designed.

- 13.9 dBi peak gain across cellular low band 698 to 960 MHz
- Ruggedised fibreglass construction with mechanical tilting bracket
- Two 4.3-10 Female flange connectors
- Low Band 5G-Ready (Telstra NR850)

Antenna Technical Data

PHYSICAL CHARACTERISTICS

Construction Material	Fibreglass (GRP)	RF Connections	2
Radome Colour	Light Grey	Environmental Rating	No Data
Dimensions	600 x 450 x 156 mm	Operating Temperature	-40 °C to 70 °C
Weight	12 kg	Mounting	Pole mount Ø 25-52 mm

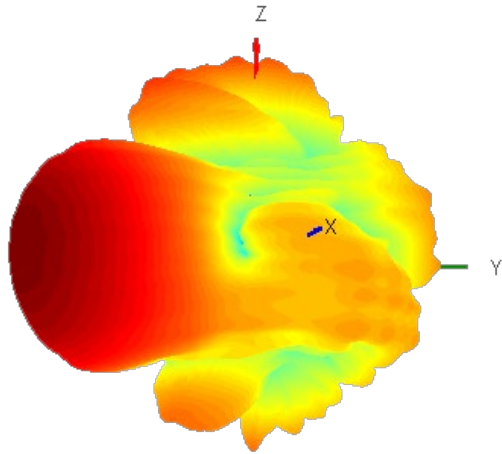
ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

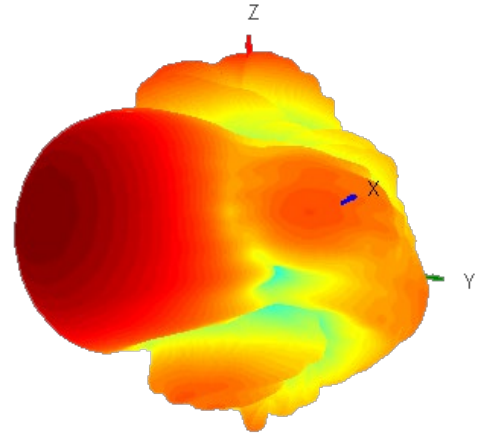
Input Impedance	50 Ω	Input Connector	4.3-10
Polarisation	Dual Slant ±45°	Input Connector Gender	Female
Max. Input Power	250 W	Cable Series	None
PIM, 3rd Order	-140 dBc	Cable Length	None

FREQUENCY RANGE	PEAK GAIN	VSWR	AZ.	EL.	F/B RATIO	INTER-PORT	XPI
698 to 804 MHz	13.0 dBi	< 1.6:1	40°	40°	> 22 dB	> 25 dB	
804 to 896 MHz	13.9 dBi	< 1.5:1	36°	35°	> 23 dB	> 25 dB	
896 to 960 MHz	13.3 dBi	< 1.4:1	35°	30°	> 21 dB	> 25 dB	

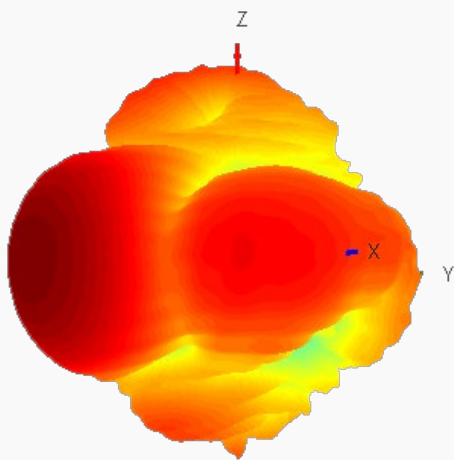
698 MHz



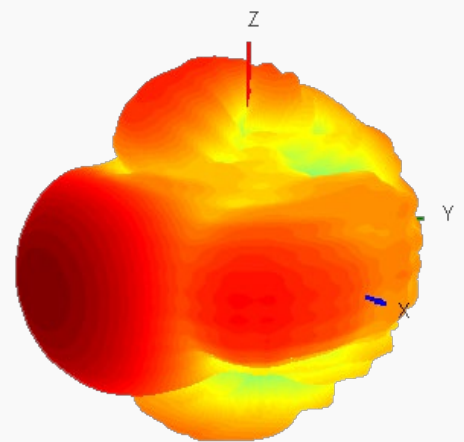
723 MHz



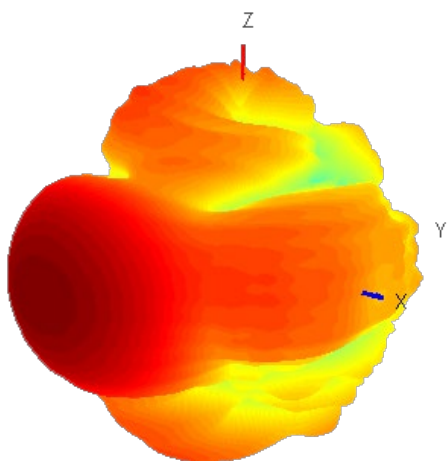
778 MHz



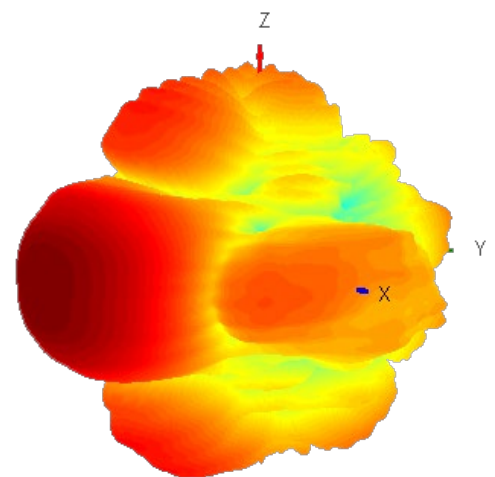
840 MHz



885 MHz



960 MHz



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