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Powertec 4G-5G Ultraband Grid Antenna, 600 to 6500 MHz, 4.3-10 Female

SKU
ANT-BH-00082
MPN
VGR-6065-20.432

Description

The Ultra Wide Band Cellular grid is the highest continuous gain antenna on the market. The patented one of a kind design allows for very high gain and directionality on all frequencies between 600 MHz and 6500 MHz. This antenna has been laboratory verified to produce very high gain across all cellular 3G, 4G, and 5G bands.

An extraordinarily unique feature is the antenna's adjustable reverse-log feed which is moved along the parabolic grid's focal point to preference low, mid, or high frequency band operation.

The grid is powder coated in an industrial grade flat grey finish to provide improved durability and environmental resistance, permitting a long service life.

This antenna is recommended for long range 4G or 5G communication systems. Weighing 2.4 kg and with a low wind-load this antenna can safely be mounted at height with a simple supporting structure.

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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
600 MHz
Stop Frequency
6500 MHz
Max. Input Power
100 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	4.3-10 Female	Straight	RG-402	300 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
600 MHz	698 MHz	8.5 dBi	< 2.4:1	24°	45°	> 11 dB
698 MHz	803 MHz	11.8 dBi	< 2.4:1	22°	35°	> 15 dB
803 MHz	890 MHz	13.1 dBi	< 2.1:1	19°	30°	> 18 dB

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
890 MHz	960 MHz	14.3 dBi	< 2.1:1	18°	29°	> 18 dB
1695 MHz	2200 MHz	20.2 dBi	< 1.6:1	9°	15°	> 24 dB
2300 MHz	2700 MHz	22.5 dBi	< 2.3:1	8°	10°	> 20 dB
3300 MHz	3800 MHz	23.2 dBi	< 1.9:1	9°	8°	> 15 dB
5125 MHz	5875 MHz	20.2 dBi	< 2.8:1	13°	6°	> 4 dB

Polar Patterns

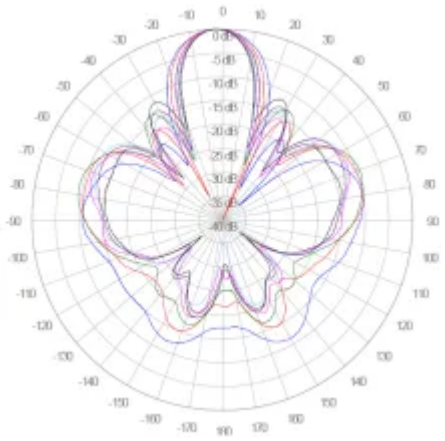
Start Frequency

600 MHz

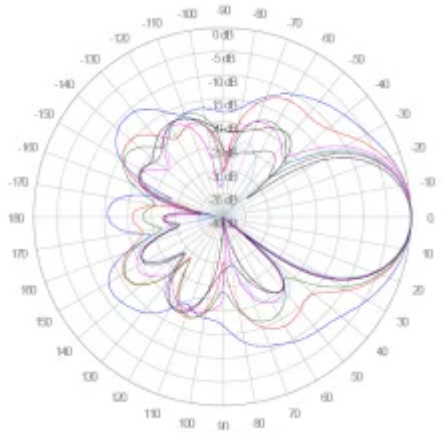
Stop Frequency

960 MHz

Azimuth Polar Plot



Elevation Polar Plot



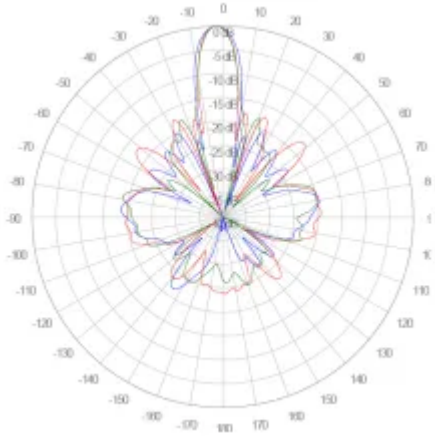
Start Frequency

1695 MHz

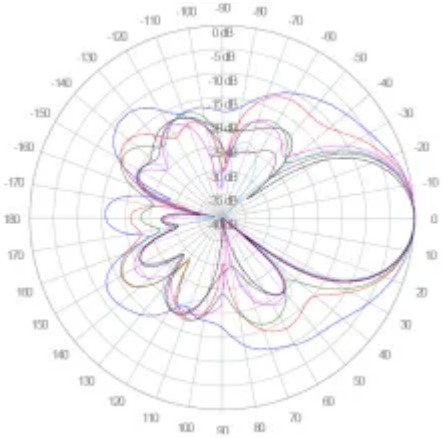
Stop Frequency

2200 MHz

Azimuth Polar Plot



Elevation Polar Plot



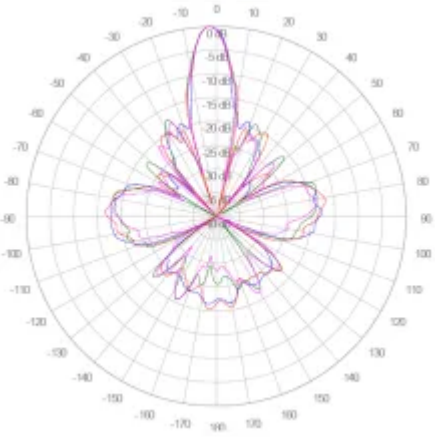
Start Frequency

2300 MHz

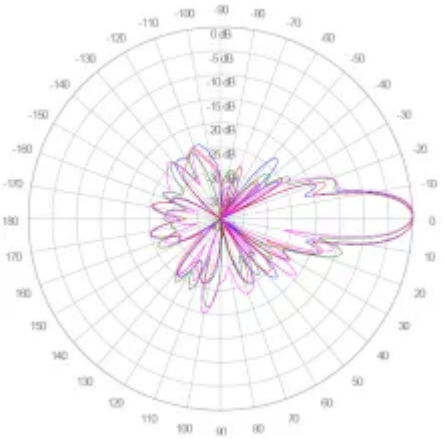
Stop Frequency

2700 MHz

Azimuth Polar Plot



Elevation Polar Plot



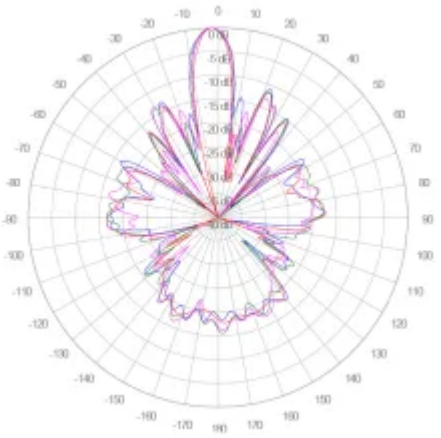
Start Frequency

3300 MHz

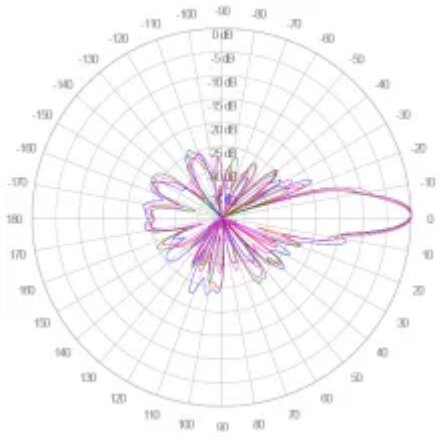
Stop Frequency

3800 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype
Dish / Grid
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
60 °C
Dimensions
990 x 400 x 600
Materials
Aluminium, ASA Plastic
Mounting
Pole Clamp 30 to 63 mm ⌀
Weight
2.4 kg

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