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Powertec 4G Narrowband Yagi Antenna, 703 to 790 MHz, 4.3-10 Female

SKU
ANT-PT-00005
MPN
LYU-7079-13.432
Barcode
9337692002410

Description

Powertec's narrowband 700 MHz Yagi antenna has been optimised specifically for Band 28 700 MHz 4G IoT technologies such as LTE-M and NB-IoT. With B28's tendency to scatter over long ranges the antenna was designed with a 13 dBi gain, which provides a 35° nominal azimuth and elevation beam. This wider beam allows more effective handling of multipath.

Designed solely for operation on the 700 MHz band, this allows the antenna's VSWR to be finely tuned and ensuring maximum conducted power and receive sensitivity.

The antenna has a single 4.3-10 female connector on a short cable tail, providing IP67 weatherproof interconnection to a feeder cable. The included pole mount bracket permits rotating of the antenna boom in vertical, horizontal, and slant polarisations.

This antenna was developed by Powertec to facilitate long range IoT connections over the Telstra 700 MHz NB-IoT and LTE-M (Cat-M1/M2) networks. The model makes for an ideal companion for a range of B28 LTE technologies and can be arranged in 2x2 MIMO by setting up a pair of yagi antennas separated by 600 mm.

The antenna is attached with supplied stainless steel pole jaw-clamps.



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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

703 MHz

Stop Frequency

790 MHz

Max. Input Power

100 W

Polarisation

[Linear](#)

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

703 MHz 725 MHz 12.6 dBi < 1.35:1 37° 36° > 20 dB

725 MHz 746 MHz 12.7 dBi < 1.23:1 37° 35° > 21 dB

746 MHz 768 MHz 13.1 dBi < 1.1:1 36° 35° > 19 dB

768 MHz 790 MHz 12.8 dBi < 1.3:1 38° 33° > 21 dB

Physical Specification

Subtype

[Yagi](#)

Input Ports

1

MIMO

[1x1 SISO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

70 °C

Dimensions

1380 x 210 x 65

Materials

[Aluminium](#)

Mounting

Pole Clamp 25 to 52 mm ø

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