

# Powertec 4G-5G Wideband LPDA Antenna, 698 to 4000 MHz, N Female, PTL-240 Coaxial Cable N Male to SMA Male, 10m

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## Description

Powertec's Mini LPDA is a small antenna that provides good performance with a lightweight, low-cost design. There are plenty of situations where a large, solid metal antenna is necessary, but also plenty where something quick and small can be just as effective. This antenna is great for areas where indoor signal is weak, and a straight-forward antenna on the roof is enough to give a fantastic improvement.

Log Periodic Dipole Arrays (LPDA) are a type of antenna that have a series of metal elements arranged in a triangular pattern, with smaller elements tuned to smaller wavelengths, and larger elements tuned to larger wavelengths. This allows this one antenna to operate across all 4G-5G bands within the 700 to 4000 MHz cellular frequency range.

This style of compact LPDA (440 mm length) is one of the world's most used cellular antenna types. It has been designed with a 9 dBi nominal gain which provides good directionality while still maintaining a broad-enough beam so that alignment to the base station remains easy and installation is simple.



## 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

## Connection 1

|                   |          |                  |        |
|-------------------|----------|------------------|--------|
| Start Frequency:  | 698 MHz  | Polarisation:    | Linear |
| Stop Frequency:   | 4000 MHz | Input Impedance: | 50     |
| Max. Input Power: | 50 W     |                  |        |

## RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|--------|
| 1     | N Female     | Straight   | RG-58        | 300 mm |

## Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Azimuth | Elevation | F/B Ratio |
|-------------|------------|-----------|---------|---------|-----------|-----------|
| 698 MHz     | 960 MHz    | 8.5 dBi   | < 2:1   | 90°     | 66°       | > 15 dB   |
| 1695 MHz    | 2700 MHz   | 9.5 dBi   | < 1.5:1 | 75°     | 58°       | > 15 dB   |
| 3300 MHz    | 4000 MHz   | 9.5 dBi   | < 1.8:1 | 54°     | 42°       | > 15 dB   |

# Physical Specification

|                             |                           |                     |                        |
|-----------------------------|---------------------------|---------------------|------------------------|
| Subtype:                    | Log Periodic Dipole Array | Dimensions:         | 440 x 60 x 205         |
| Input Ports:                | 1                         | Ingress Protection: | IP65                   |
| MIMO:                       | 1x1 SISO                  | Materials:          | ABS Plastic            |
| Min. Operating Temperature: | -40 °C                    | Mounting:           | Pole Clamp 25 to 52 mm |
| Max. Operating Temperature: | 65 °C                     | Weight:             | 1.15 kg                |

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