

Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City Queensland, Australia, 4214 sales@powertec.com.au 1300 769 378

# ZCG LoRa Dipole Stud Antenna, 900 to 930 MHz, 2 dBi, 2m SMA Male

SKU: ACC-ZC-00065 MPN: DLD900-2

#### Description

The ZCG LoRa Dipole Stud Antenna, model DLD900-2, is a high-performance antenna designed for applications within the 900 to 930 MHz frequency range. With a peak gain of 2.1 dBi and a VSWR of 2.0:1, it offers reliable signal transmission for LoRa and other RF communication systems. This vertical polarised antenna features a robust construction of Polyvinyl Chloride (PVC) and is lightweight at just 0.09 kg, making it ideal for various installation environments.

Equipped with a 2m RG-316 cable and an SMA Male connector, the antenna ensures seamless integration into existing systems. Its 360° azimuth beamwidth provides comprehensive coverage, enhancing network performance. The antenna supports up to 20 W of input power and maintains a 50  $\Omega$  impedance, ensuring optimal compatibility with a wide range of devices.

Manufactured by ZCG Scalar, an Australian company renowned for its expertise in RF antenna solutions since 1970, this antenna...

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#### ZCG Scalar

ZCG Scalar™ is a world class radio frequency antenna designer, manufacturer and consulting organisation that offer an integrated approach to identifying RF solutions in partnership with client needs.

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# RF Specification

| Start Frequency:  | 900 MHz | Polarisation:    | Vertical (V) |
|-------------------|---------|------------------|--------------|
| Stop Frequency:   | 930 MHz | Input Impedance: | 50           |
| Max. Input Power: | 20 W    |                  |              |

### **RF Connectors**

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | RG-316       | 2000 mm |

## Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR  | Azimuth |
|-------------|------------|-----------|-------------|-------|---------|
| 900 MHz     | 930 MHz    | 2.1 dBi   | > -12 dB    | < 2:1 | 360°    |

# **Physical Specification**

| Subtype:     | Dipole   | Dimensions: | 230 x null               |
|--------------|----------|-------------|--------------------------|
| Input Ports: | 1        | Materials:  | Polyvinyl Chloride (PVC) |
| MIMO:        | 1x1 SISO | Weight:     | 0.09 kg                  |

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