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

Poynting MIMO-3-15, Ultra-Wideband, 5-in-1 Automotive, 2x2 MIMO 4G-5G + 2x2 MIMO WiFi + GPS antenna, 410 to 3800 MHz

SKU ANT-PY-00037 MPN A-MIMO-0003-V2-15

## **Description**

The Poynting MIMO-3-15 is an advanced 5-in-1 automotive antenna designed for ultra-wideband applications, providing robust connectivity with 2x2 MIMO 4G/5G, 2x2 MIMO WiFi, and GPS capabilities. Covering a frequency range from 410 to 3800 MHz, this antenna ensures reliable performance across diverse environments, making it ideal for automotive, residential, and industrial applications.

Constructed from durable ASA plastic, the MIMO-3-15 is IP68 rated for excellent resistance to dust and water, while its MIL-STD-810 and IEC 60068-2-11 certifications promise superior environmental durability. It operates efficiently in temperatures ranging from -40°C to 80°C, ensuring reliability in extreme conditions.

This antenna features five RF connections, including SMA male interfaces, supporting high-speed data transmission with a peak gain of up to 7.0 dBi and a VSWR of less than 2.5:1. Its linear polarisation and 360° azimuth beamwidth enhance...

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#### **Poynting**

Poynting is a top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...

# **RF Specification**

#### LTE

Start Frequency

410 MHz

Stop Frequency

3800 MHz

Max. Input Power

10 W

Polarisation

Linear

Input Impedance

50 Ω

**RF Connectors** 

## Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight L-195 2000 mm

Frequency Test Data

#### Start Freq. Stop Freq. Peak Gain VSWR Azimuth

410 MHz 470 MHz 1 dBi < 2.5:1 360° 698 MHz 960 MHz 3.5 dBi < 2.5:1 360° 1710 MHz 2700 MHz 5.8 dBi < 2.5:1 360° 3400 MHz 3800 MHz 4 dBi < 2.5:1 360°

#### LTE

Start Frequency

410 MHz

**Stop Frequency** 

3800 MHz

Max. Input Power

10 W

Polarisation

Linear

Input Impedance

50 Ω

**RF Connectors** 

Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight L-195 2000 mm

Frequency Test Data

## Start Freq. Stop Freq. Peak Gain VSWR Azimuth

410 MHz 470 MHz 1 dBi < 2.5:1 360°

698 MHz 960 MHz 3.5 dBi < 2.5:1 360°

1710 MHz 2700 MHz 5.8 dBi < 2.5:1 360°

3400 MHz 3800 MHz 4 dBi < 2.5:1 360°

#### WiFi

Start Frequency

2400 MHz

**Stop Frequency** 

6000 MHz

Max. Input Power

10 W

Polarisation

Linear

Input Impedance

50 Ω

**RF Connectors** 

## Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight A-302 2000 mm

Frequency Test Data

## Start Freq. Stop Freq. Peak Gain VSWR Azimuth

2400 MHz 2500 MHz 5 dBi < 2.5:1 360°

5000 MHz 6000 MHz 7 dBi < 2.5:1 360°

#### WiFi

Start Frequency

2400 MHz

**Stop Frequency** 

6000 MHz

Max. Input Power

10 W

Polarisation

Linear

Input Impedance

**RF Connectors** 

## Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight A-302 2000 mm

Frequency Test Data

## Start Freq. Stop Freq. Peak Gain VSWR Azimuth

2400 MHz 2500 MHz 5 dBi < 2.5:1 360°

5000 MHz 6000 MHz 7 dBi < 2.5:1 360°

## **GPS/GLONASS**

Start Frequency

1575.42 MHz

Stop Frequency

1600 MHz

Input Impedance

50 Ω

Polarisation

Right Hand Circular (RHCP)

#### **Low Noise Amplifier (LNA)**

LNA Gain

21 dBic

Noise Figure

≤ 1.5 dB

**Power Consumption** 

< 15 mW

Min. Operating Voltage

2.7 V

Max. Operating Voltage

3.3 V

#### **RF Connectors**

### Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight A-302 2000 mm

# **Physical Specification**

Subtype

Fin / Stud / Combo

**Input Ports** 

5

**MIMO** 

2x2 MIMO

Min. Operating Temperature

-40 °C

Max. Operating Temperature

80 °C

**Dimensions** 

253 x 128 x 144

**Ingress Protection** 

**IP68** 

Materials

**ASA Plastic** 

Weight

1.36 kg

Compliance/Certifications

CE

,

**RoHS** 

Mechanical Compliance

MIL-STD-810: Environmental Durability

,

IEC 60068-2-11: Salt Mist

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