

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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RF Specification

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 ...

| | | | |
|------------------|---------|---------------|--------|
| Start Frequency: | 410 MHz | Polarisation: | Linear |
|------------------|---------|---------------|--------|

| | | | |
|-----------------|----------|------------------|----|
| Stop Frequency: | 3800 MHz | Input Impedance: | 50 |
|-----------------|----------|------------------|----|

| | |
|-------------------|------|
| Max. Input Power: | 10 W |
|-------------------|------|

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 | Polarisation: | Linear |
|------------------|---------|---------------|--------|

| | | | |
|-----------------|----------|------------------|----|
| Stop Frequency: | 3800 MHz | Input Impedance: | 50 |
|-----------------|----------|------------------|----|

| | |
|-------------------|------|
| Max. Input Power: | 10 W |
|-------------------|------|

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 | Polarisation: | Linear |
|------------------|----------|---------------|--------|

| | | | |
|-----------------|----------|------------------|----|
| Stop Frequency: | 6000 MHz | Input Impedance: | 50 |
|-----------------|----------|------------------|----|

| | |
|-------------------|------|
| Max. Input Power: | 10 W |
|-------------------|------|

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 | Polarisation: | Linear |
| Stop Frequency: | 6000 MHz | Input Impedance: | 50 |
| Max. Input Power: | 10 W | | |

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 | Input Impedance: | 50 |
| Stop Frequency: | 1600 MHz | Polarisation: | Right Hand Circular (RHCP) |

Low Noise Amplifier (LNA)

| | | | |
|--------------------|----------|-------------------------|-------|
| LNA Gain: | 21 dBic | Min. Operating Voltage: | 2.7 V |
| Noise Figure: | ≤ 1.5 dB | Max. Operating Voltage: | 3.3 V |
| Power Consumption: | < 15 mW | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|---------|
| 1 | SMA Male | Straight | A-302 | 2000 mm |

Physical Specification

| | | | |
|-----------------------------|--------------------|----------------------------|---------------------------------------|
| Subtype: | Fin / Stud / Combo | Dimensions: | 253 x 128 x 144 |
| Input Ports: | 5 | Ingress Protection: | IP68 |
| MIMO: | 2x2 MIMO | Materials: | ASA Plastic |
| Min. Operating Temperature: | -40 °C | Weight: | 1.36 kg |
| Max. Operating Temperature: | 80 °C | Compliance/Certifications: | CE |
| | | RoHS | |
| | | Mechanical Compliance: | MIL-STD-810: Environmental Durability |
| | | | IEC 60068-2-11: Salt Mist |

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