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Poynting OMNI-402, Omni-Directional, Marine, 2x2 MIMO 4G antenna; 410 to 3800 MHz

SKU: ANT-PY-00007

MPN: A-OMNI-0402-V2-01 Barcode: 707273470393

Description

The Poynting OMNI-402 is an omni-directional, marine-grade 2x2 MIMO 4G antenna designed for robust performance across a wide frequency range of 410 to 3800 MHz. Engineered with a durable ASA plastic housing, it is IP68-rated for superior protection against dust and water ingress, making it ideal for harsh marine environments. This dipole antenna is equipped with two SMA male RF connections, each supported by a 2 metre L-195 cable, offering reliable connectivity for high-speed data applications like 4G LTE, GSM, and M2M.

The OMNI-402 features linear polarisation and supports up to 10 W of input power, ensuring optimal performance for both residential and commercial applications. It boasts peak gains of up to 6.5 dBi within key frequency bands, maintaining a consistent azimuth beamwidth of 360° for comprehensive signal coverage. Compliant with CE, ISO 9001, RoHS, and MIL-STD-810F standards, this antenna is built to withstand demanding...

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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

Cable 1: 4G-5G

| 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 | 2700 MHz | 6.5 dBi | < 2.5:1 | 360° |
| 3400 MHz | 3800 MHz | 2.5 dBi | < 2.5:1 | 360° |

Cable 2: 4G-5G

| 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 |
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| 410 MHz | 470 MHz | 1 dBi | < 2.5:1 | 360° |
| 698 MHz | 2700 MHz | 6.5 dBi | < 2.5:1 | 360° |
| 3400 MHz | 3800 MHz | 2.5 dBi | < 2.5:1 | 360° |

Physical Specification

| Subtype: | Dipole | Dimensions: | 750 x 27.5 |
|-----------------------------|----------|-----------------------------|---------------------------|
| Input Ports: | 2 | Ingress Protection: | IP68 |
| MIMO: | 2x2 MIMO | Materials: | ASA Plastic |
| Min. Operating Temperature: | -40 °C | Weight: | 0.86 kg |
| Max. Operating Temperature: | 80 °C | Compliance/Certifications: | CE |
| | | ISO 9001 Quality Management | , |
| | | RoHS | |
| | | Mechanical Compliance: | MIL-STD-810: Environmenta |

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