

Poynting OMNI-414, Omni-Directional, Marine, 4x4 MIMO 4G-5G antenna, 617 to 3800 MHz

SKU: ANT-PY-00047

MPN: A-OMNI-0414-V1-01

Description

The Poynting OMNI-414 is a robust omni-directional marine antenna designed for reliable 4x4 MIMO 4G-5G connectivity. Covering a wide frequency range from 617 to 3800 MHz, this antenna is suitable for various high-speed data applications such as residential 4G LTE, GSM, M2M, and DTV.

Constructed from durable ASA plastic, the OMNI-414 is engineered to withstand harsh marine environments with an IP68 ingress protection rating and operational temperature range from -40°C to 80°C. Its compliance with CE, ISO 9001, RoHS, and MIL-STD-810 standards ensures high quality and durability.

The antenna features four RF connections, each with a 50 Ω impedance, supporting up to 10W of input power. Its linear polarisation and 360° azimuth beamwidth provide consistent and reliable signal coverage. Peak gain values range up to 3.5 dBi, ensuring optimal performance across its frequency range.

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RF Specification

Cable 1: 4G-5G

| | | | |
|-------------------|----------|------------------|--------|
| Start Frequency: | 617 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 | 200 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|-------|---------|
| 617 MHz | 960 MHz | 3.5 dBi | < 2:1 | 360° |
| 1427 MHz | 1517 MHz | 3.5 dBi | < 2:1 | 360° |
| 1710 MHz | 2700 MHz | 3.5 dBi | < 2:1 | 360° |
| 3400 MHz | 3800 MHz | 1.8 dBi | < 2:1 | 360° |

Physical Specification

| | | | |
|-----------------------------|----------|-----------------------------|---------------------------------------|
| Subtype: | Dipole | Dimensions: | 750 x 75 |
| Input Ports: | 4 | Ingress Protection: | IP68 |
| MIMO: | 4x4 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: Environmental Durability |
| | | IEC 60068-2-11: Salt Mist | |

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