

# Poynting OMNI-493, Omni-Directional, Marine, 4G-5G antenna, 617 to 3800 MHz

SKU: ANT-PY-00036

MPN: A-OMNI-0493-V1-01

## Description

The Poynting OMNI-493 is a high-performance omni-directional marine antenna designed for seamless 4G and 5G connectivity. Operating across a broad frequency range of 617 to 3800 MHz, this antenna is ideal for various wireless applications, including residential 4G LTE, GSM, M2M, DTV, and customer premises equipment. Built with robust ASA plastic, it is IP68-rated for exceptional durability and weather resistance, functioning reliably in temperatures from -40 °C to 80 °C.

The OMNI-493 features a single N Female RF connection, supporting up to 10 W of input power with a 50 Ω impedance. Its linear polarisation and peak gain of 9.0 dBi ensure optimal signal reception and transmission, while maintaining a VSWR of less than 2.5:1. This whip-type antenna adheres to rigorous CE, RoHS, and MIL-STD-810 standards, attesting to its high-quality construction and environmental durability.

Poynting, a renowned South African brand, has been at the...

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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:  | 617 MHz  | Polarisation:    | Linear |
| Stop Frequency:   | 3800 MHz | Input Impedance: | 50     |
| Max. Input Power: | 10 W     |                  |        |

## RF Connectors

| Ports | RF Interface | Body Shape |
|-------|--------------|------------|
| 1     | N Female     | Straight   |

## Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    |
|-------------|------------|-----------|---------|
| 617 MHz     | 3800 MHz   | 9 dBi     | < 2.5:1 |

# Physical Specification

|                             |          |                            |                                       |
|-----------------------------|----------|----------------------------|---------------------------------------|
| Subtype:                    | Whip     | Dimensions:                | 646 x 75                              |
| Input Ports:                | 1        | Ingress Protection:        | IP68                                  |
| MIMO:                       | 1x1 SISO | Materials:                 | ASA Plastic                           |
| Min. Operating Temperature: | -40 °C   | Compliance/Certifications: | CE                                    |
| Max. Operating Temperature: | 80 °C    | RoHS                       | ,                                     |
|                             |          | Mechanical Compliance:     | MIL-STD-810: Environmental Durability |

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