

ANTENNAS | OMNI-0400

OMNI-400

690-960, 1710-2170, 2300-2700 MHZ MEDIUM GAIN OMNI DIRECTIONAL MARINE ANTENNA





















- Next Generation Marine qualified High Performance Omni Directional Antenna
- Easy mounting with feed through 1 inch marine standard mounts
- Robust and All weather proof
- Various mounting options available*
- UV and Saltwater protected against tempestuous weather conditions.

Product Overview

The OMNI-400 is a unique new design with improved electrical performance and using a standard 1 inch marine mount. The ultra-wide band covers all contemporary LTE operating frequencies with excellent balanced gain across all frequencies. Higher frequencies are not compromised and the antenna design allows Poynting to have superior pattern control over the entire frequency range making the OMNI-400 a true high performance omni-directional antenna. Usable in all parts of the world, the OMNI-400 guarantees signal reception almost everywhere. Poynting Antennas achieves this through new antenna configuration using multiple dipoles and a unique (patented) feed network.

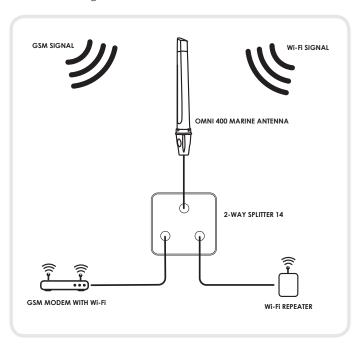
Features

- Medium gain omni-directional antenna
- The antenna is purpose-built for marine and coastal applications.
- Lightweight
- UV and Salt-water resistant
- Robust and weather resistant
- IS (intrinsic safe) version available on request
- 2.4 2.5 Ghz band can be used as WiFi antenna

Application areas

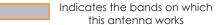
- Marine applications / Yachts/Ferry
- Machine to machine (M2M)
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- Wi-Fi Applications

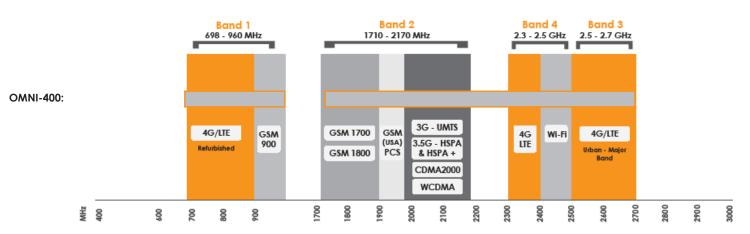
Antenna configuration for Dual GSM / Wi-Fi



^{*} Mounts sold separately. Available soon

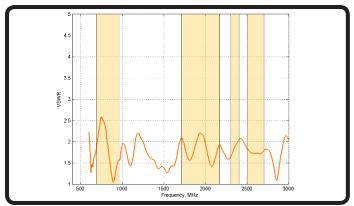
The OMNI-400 is a 690-960, 1710-2170, 2300-2700 MHz Antenna





Antenna Performance Plots

VSWR:

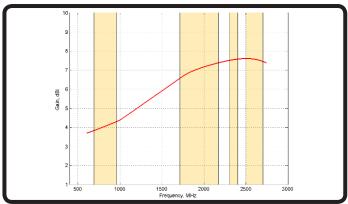


Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 2.5:1.

The $\dot{\text{OMNI-400}}$ delivers superior performance accross all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



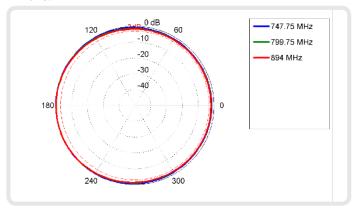
Gain* in dBi

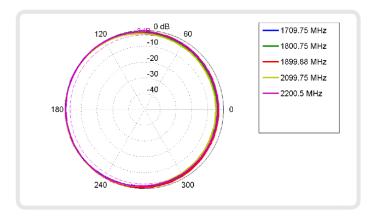
7.5 dBi is the peak gain across all bands from 690 - 2700 MHz

Gain @ different bands: Band 1 5dBi @ 690-960 MHz Gain @ different bands: Band 2,3 & 4 7.5dBi @ 1710-2700MHz

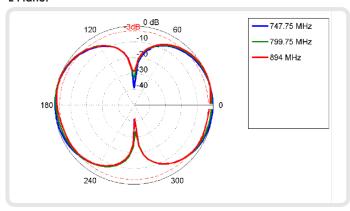
*Antenna gain measured with polarisation aligned standard antenna

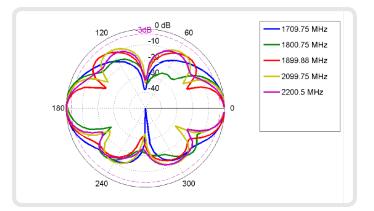
H Plane:





E Plane:





Electrical Specifications

690 - 960MHz Frequency Bands: 1710 - 2170MHz

2300 - 2700MHz

Gain (Max): 7.5dBi < 2.5:1 over 90% of the band VSWR: 10 W Feed Power Handling:

Input impedance: 50 Ohm (nominal) Polarisation: Linear Vertical Optional cable dependant Cable loss:

DC Short:

Mechanical Specifications

Product Dimensions (L x W): 560 x 75mm 580 x 95 x 90mm Packaged Dimensions: Weight: 800 g Packaged Weight: 950 g Radome Material: ABS (Halogen Free) Radome Colour: Pantone - Cool Gray (1C)

Environmental Specifications

<160km/h Wind Survival: Temperature Range (Operating): -40°C to +70°C **Environmental Conditions:** Outdoor/Indoor Operatina Relative Humidity: Up to 98% Storage Humidity: 5% to 95% - non condensing Storage Temperature: -40°C to +70°C

Ordering Information

OMNI -400 Commercial name: Order Product Code: A-OMNI-0400 EAN number: 0707273469434

Additional Accessories Available

Extension Cables: Up to 15m HDF 195

Various connectors available Installation poles and brackets available





Contact Poynting



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For more detailed information and availability in your region,

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Product Box Contents

Antenna:

Mounting Bracket: Mounts to standard 1" -14 T male threads and Universal L-bracket Cable Length: Cable Type: N/A Connector: N-Type Female (Silver/Nickel Plated)

The conntector is factory mounted to the antenna

Certification Approvals and Standards

Flammability rating: UL 94-V1 EN 13823 Water Ingress Protection Ratio/Standard: IP 67 Impact resistance: IK 08 Salt Spray: MIL-STD 810F /ASTM B117 Product Safety: Complies with UL, CE, EN,







CSA and IEC standards



RAL - 7047

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