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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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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
617 MHz
Stop Frequency
3800 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
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
Input Ports
4
MIMO
4x4 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions

750 x 75
Ingress Protection
IP68
Materials
ASA Plastic
Weight
0.86 kg
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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