

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

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## 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  $\Omega$  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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