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Poynting OMNI-280, Omni-Directional, Wideband, 4G-5G antenna, 617 to 3800 MHz

SKU
ANT-PY-00055
MPN
A-OMNI-0280-02-V1

Description

The Poynting OMNI-280 is a versatile omni-directional antenna designed for 4G and 5G networks, covering a wide frequency range from 617 to 3800 MHz. Constructed from durable ABS plastic, this dipole antenna features an IP65 rating, ensuring reliable performance in harsh environments with temperatures ranging from -40 °C to 70 °C.

With a single SMA Male RF connection and a 2000 mm RG-58 cable, the OMNI-280 supports up to 10 W of input power with a 50 Ω impedance. Its linear polarisation ensures consistent performance across various applications, including residential 4G LTE, GSM, M2M, and DTV. This makes it an ideal choice for both consumer and commercial installations.

The antenna delivers a peak gain of 4.0 dBi with a 360° azimuth beamwidth across its operating frequency ranges, maintaining a VSWR of less than 2.0:1. It complies with CE, RoHS, and ISO 9001 standards and has been tested to meet MIL-STD-810 for environmental durability.

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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

Start Frequency
698 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	RG-58	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
698 MHz	960 MHz	4 dBi	< 2:1	360°
1710 MHz	2700 MHz	4 dBi	< 2:1	360°
3400 MHz	3800 MHz	4 dBi	< 2:1	360°

Physical Specification

Subtype
Dipole
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
70 °C
Dimensions
154 x 51
Ingress Protection
IP65
Materials

ABS Plastic
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management
Mechanical Compliance
MIL-STD-810: Environmental Durability

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