

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.

Poy...

[Read More](#)

RF Specification

| | | | |
|--|----------|---|--------------------------------|
|  | | Poynting 698 MHz 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 limited in 2001 established Poynting Antenna Systems. Poynting Antenna Systems provides antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ... | Polarisation: Linear |
| Start Frequency: | 617 MHz | Input Impedance: | 50 Ω |
| Stop Frequency: | 3800 MHz | | |
| Max. Input Power: | 10 W | | |

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 | Dimensions: | 154 x 51 |
| Input Ports: | 1 | Ingress Protection: | IP65 |
| MIMO: | 1x1 SISO | Materials: | ABS Plastic |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | CE |
| Max. Operating Temperature: | 70 °C | RoHS | ' |
| | | ISO 9001 Quality Management | |
| | | Mechanical Compliance: | MIL-STD-810: Environmental Durability |

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

