



ANTENNAS | OMNI-292 SERIES

OMNI-DIRECTIONAL, WIDEBAND LTE ANTENNA

698 - 960 MHz, 1710 - 2700 MHz, 8 dBi





698 - 960 MHz.

1710 - 2170 MHz:

2300 - 2700 MHz

2.4 - 2.5 GHz



8 dBi



x Mb/s

IP 65









Directional Machine

-40°C to +70°C Fire Resistant

Machine to

4G LTE









High performance omni-directional antenna

- Compatible with 4G, 3G and 2G technologies, supports 2.4 GHz Wi-Fi
- Ideal for machine to machine (M2M) applications
- Consistent high gain over a very wide frequency band
- Excellent broadband quality antenna
- Vandal and water-resistant enclosure

Product Overview

The OMNI-292 is a high gain omni-directional antenna that covers all cellular frequencies bands needed for LTE(4G), but also covers the bands for HSDPA, 3G, EDGE, GPRS, voice and 2.4 GHz LTE and Wi-Fi bands. Its configuration makes it suitable for fixed installations of any cellular frequency band. This is one of the few omni-directional antennas in the world that offers consistent high gain over a very wide frequency band with excellent radiation pattern performance. This makes it a very popular choice with installers because of its base station agile. It is also ideal for machine to machine (M2M) applications that are communicating through GSM network (GPRS/ EDGE/ 3G/ HSPA/ LTE).

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Features

- High gain omni-directional antenna
- Lightweight
- Robust and weather resistant
- Operational in the 2.4 2.5 GHz Wi-Fi band
- N-Type female connectors so that any cable type or cable length can be connected

Application Areas

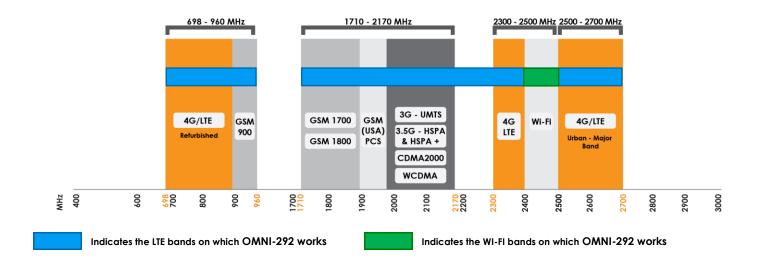
- Machine to machine (M2M)
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increases system transmission reliability
- High-end industrial grade router applications
- Transportation applications: Caravans, RTV's





Frequency Bands

The OMNI-292 is an omni-directional antenna that works from 698 - 960 MHz and 1710 - 2700 MHz



Antenna Overview

Ports	1
SISO / MIMO	SISO
Frequency Bands	698 - 960 MHz 1710 - 2700 MHz
Polarisation	Linear Vertical
Peak Gain	8 dBi
Coax Cable Type	N/A
Coax Cable Length	N/A
Connector Type	N-Type (F)



Electrical Specifications

698 - 960 MHz Frequency bands: 1710 - 2170 MHz

2300-2700 MHz

6 dBi @ 698 - 960 MHz Gain: 7 dBi @ 1710 - 2170 MHz

8 dBi@ 2300- 2700 MHz

VSWR: <2:1

Over 90% of the bands

Feed power handling: 10 W

50 Ohm (nominal) Input impedance:

DC short: Yes

Product Box Contents

Antenna: A-OMNI-0292-V2

Mounting bracket: Pole up to 50mm diameter wall

and Pole mount stainless steel bracket

Ordering Information

Commercial name: OMNI-292-V2

Order product code: A-OMNI-0292-V2

EAN number: 0707273469199

Mechanical Specifications

Product dimensions 646 mm x Ø71 mm

(excl. bracket)

Packaged dimensions: 700 mm x 95 mm x 90 mm

Weight: 0.46 kg

Packaged weight: 1.17 kg

ABS (Halogen Free) Radome material:

Radome colour: Pantone - Cool Gray (1C)

RAL - 7047

Mounting Type: Pole and Wall

Environmental Specifications, Certification & Approvals

Wind Survival: ≤190 km/h

Temperature Range (Operating): -40°C to +70°C

Environmental Conditions: Outdoor/Indoor

Water ingress protection ratio/standard: IP 65

MIL-STD 810G/ASTM B117 Salt Spray:

Operating Relative Humidity: Up to 98%

Storage Humidity: 5% to 95% - non-condensing

Storage Temperature: -40°C to +70°C

Enclosure Flammability Rating: UL 94-HB

Impact resistance: IK 08

Product Safety & Complies with CE and RoHS standards **Environmental:**

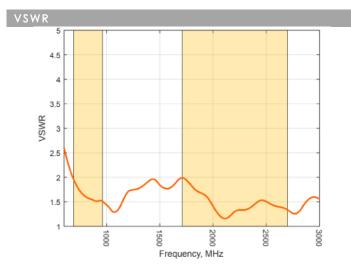








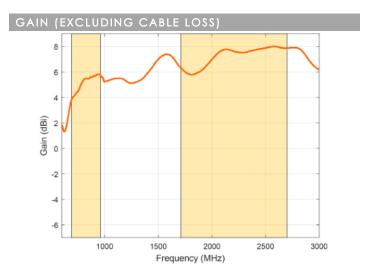
Antenna Performance Plots



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 1:1.

The OMNI-292 delivers superior performance across all bands with a VSWR of 2:1 or better over 90% of the bands.



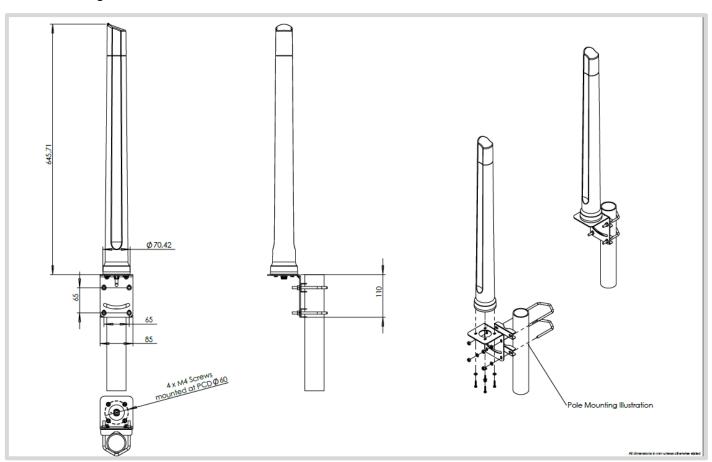
Gain* in dBi

8 dBi is the peak gain across all bands from 698-2700 MHz.

Gain @ 698 - 960 MHz:	6 dBi
Gain @ 1710 - 2170 MHz:	7 dBi
Gain @ 2300- 2700 MHz	8 dBi

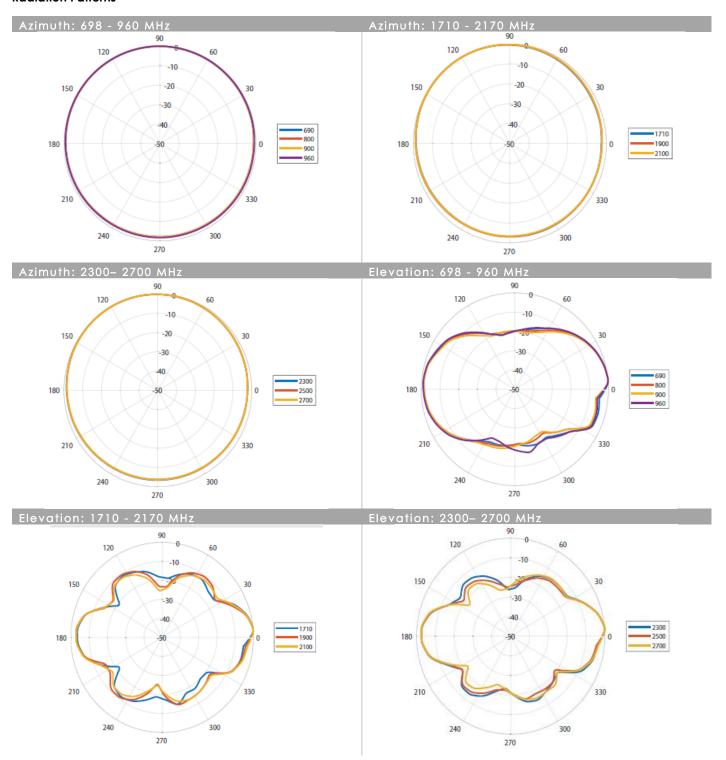
^{*}Antenna gain measured with polarisation aligned standard antenna

Technical Drawings



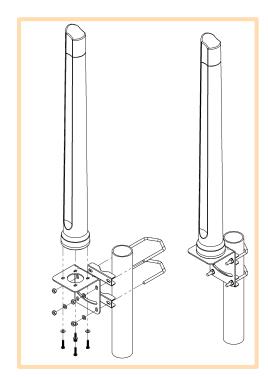


Radiation Patterns



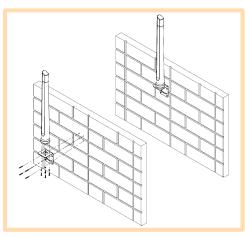


Mounting Options



Pole Mount

L-Bracket 316 Stainless Steel – included (for Ø 30-50mm pole)



Wall Mount

L-Bracket 316 Stainless Steel – included



Additional Accessories

Extension Cables: Up to 15m HDF 195 Various connectors available Installation poles and brackets available

See accessories technical specifications on www.poynting.tech

Contact Poynting

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