

# **ANTENNAS | OMNI-85**

# OMNI-85

## 690 - 2700 MHZ PANEL MOUNT LTE ANTENNA



















- Futureproof wideband LTE antenna
- Backwards compatible with 3G and 2G technologies
- Highly portable
- · Increased connectivity stability
- · Quick and compact setup

#### **Product Overview**

This broadband antenna ensures a strong 2G, 3G or 4G/LTE connection and fast transfer speeds for your broadband modem or router. The antenna is vertically polarized and omni-directional. This antenna can be fitted directly on any equipment that uses an SMA female connector. The knuckle base of the antenna allows multiple angle deployment to accommodate the orientation of the equipment.

#### **Features**

- Consistent performance across all frequency bands.
- This antenna is ground plane independent.
- The knuckle mount allows multiple angle deployment.
- Lightweight

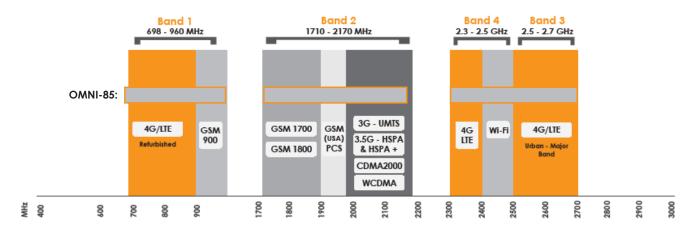
#### **Application areas**

- Urban and rural areas
- On-the-go: Highly Portable
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility as the antennas is wideband, a new antenna is not needed per network operator - works on most networks



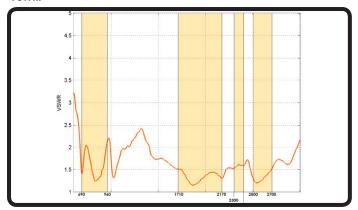
The OMNI-85 is a wide-band antenna that works from 690 - 2700 MHz

Indicates the bands on which this antenna works



## **Antenna Performance Plots**

#### VSWR:

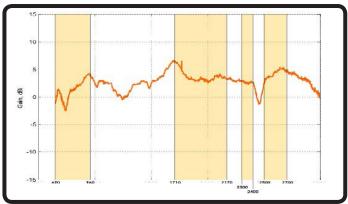


## Voltage Standing Wave Ratio (VSWR)

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 XPOL-10 delivers superior performance accross all bands with a VSWR of 2.5:1 or better.

#### Gain: (excluding cable loss)



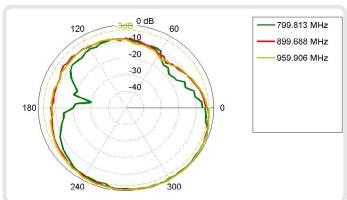
## Gain\* in dBi

6 dBi is the peak gain across all bands from 450 - 1880 MHz

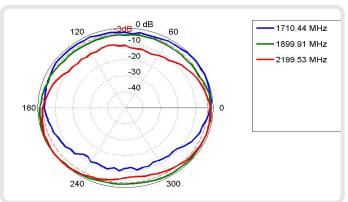
Gain @ 690 - 960 MHz:	4 dBi
Gain @ 1710 - 2170 MHz:	6 dBi
Gain @ 2300 - 2400 MHz:	2.5 dBi
Gain @ 2500 - 2700 MHz:	5 dBi

<sup>\*</sup>Antenna gain measured with polarisation aligned standard antenna

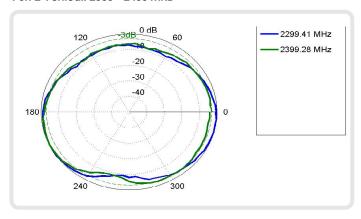
Port 2 Vertical: 800 - 1000 MHz



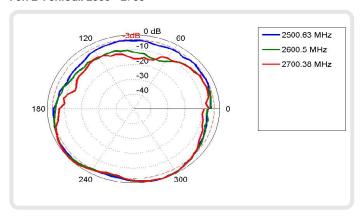
Port 2 Vertical: 1700 - 2200



Port 2 Vertical: 2300 - 2400 MHz



Port 2 Vertical: 2500 - 2700



## **Electrical Specifications**

690 - 960 MHz Frequency Bands:

1710 - 2170 MHz 2300 - 2400 MHz 2500 - 2700 MHz

Gain (Max): 6 dBi VSWR: <2.5:1 Feed Power Handling: 10 W

Input impedance: 50 Ohm (nominal) Polarisation: Linear Vertical DC Short: Yes

## **Mechanical Specifications**

Product Dimensions (L x W x D): 210mm x 20mm x 14mm Packaged Dimensions: 230mm x 40mm x 16mm Weight: 28 g Packaged Weight: 30 g Radome Material: ABS (Halogen Free) Radome Colour: Pantone - Black RAL - Black

#### **Environmental Specifications**

Wind Survival: Indoor Temperature Range (Operating): -20°C to +70°C **Environmental Conditions:** Indoor Operatina Relative Humidity: Up to 98% Storage Humidity: 5% to 95% - non condensing Storage Temperature: -20°C to +70°C

### **Product Box Contents**

A-OMNI-0085-V2 Antenna: Connector: SMA (m) adaptor The conntector is factory mounted to the antenna

#### **Ordering Information**

Commercial name: OMNI-85 Order Product Code: A-OMNI-0085-V2 EAN number: 6009693810198

#### **Additional Accessories Available**

Extension Cables: None

## **Certification Approvals and Standards**

EN 13823 Water Ingress Protection Ratio/Standard: IP 55 (NEMA 4X) Impact resistance: IK 05 Salt Spray: MIL-STD 810F /ASTM B117 Product Safety: Complies with UL, CE, EN,

For more detailed information and availability in your region, visit our web site: www.poynting.tech







CSA and IEC standards



UL 94-V0

## **Contact Poynting**

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Flammability rating:

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