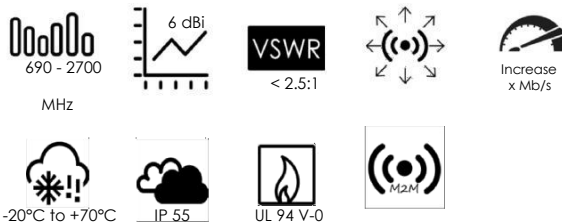


**ANTENNAS | OMNI-85**

# 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

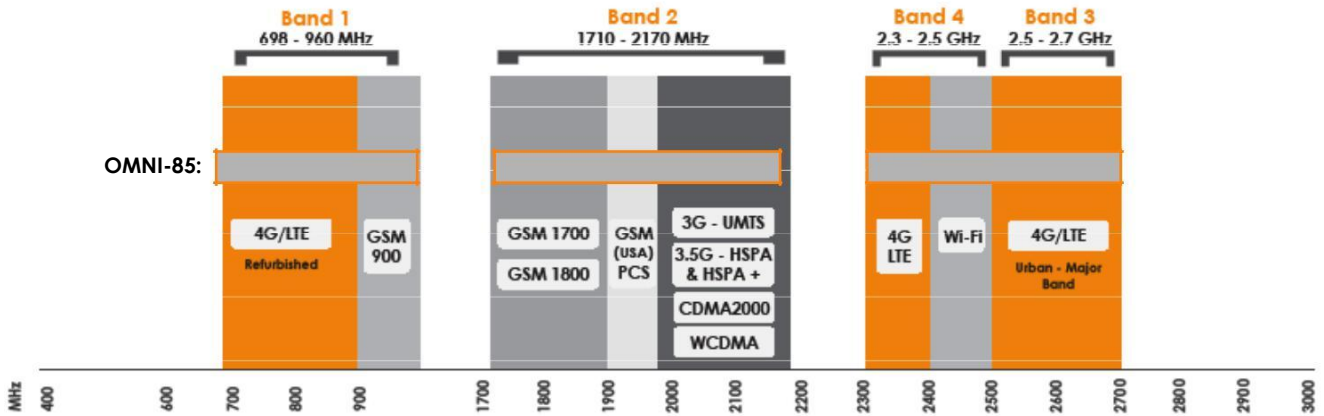
- Urban and rural areas
- On-the-go: Highly Portable
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility -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



## Frequency bands

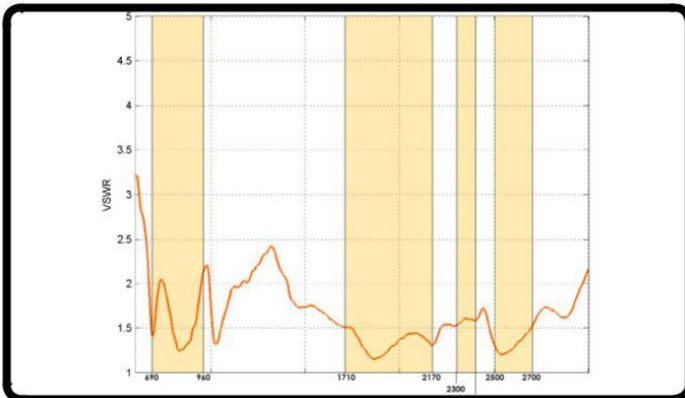
The OMNI-85 is a wide-band antenna that works from 690 - 2700 MHz

 Indicates the bands on which this antenna works



## Antenna Performance Plots

VSZR:

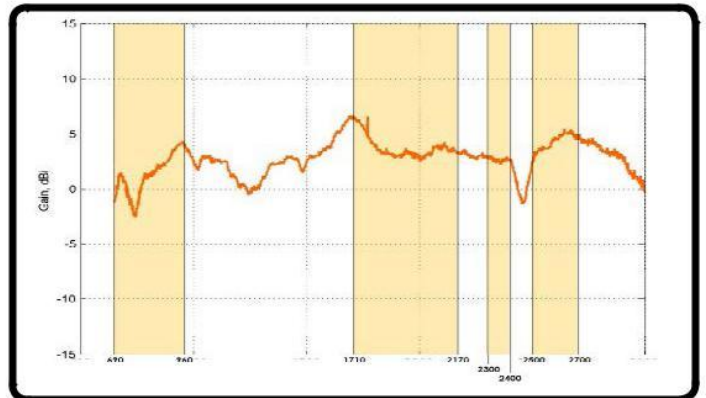


**Voltage Standing Wave Ratio (VSWR)**

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 across all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



**Gain\* in dBi**

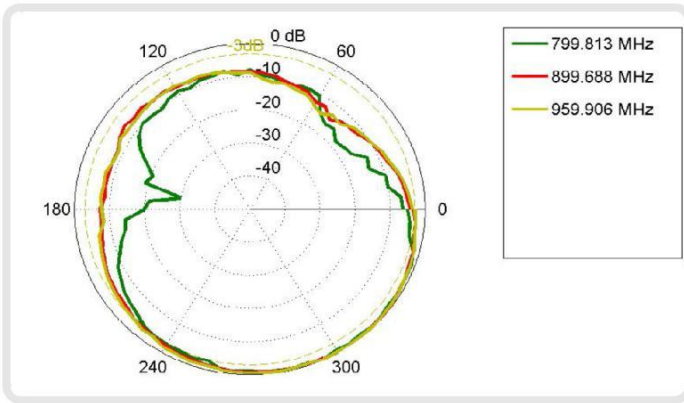
6 dBi is the peak gain across all bands from 450 - 1880 MHz

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

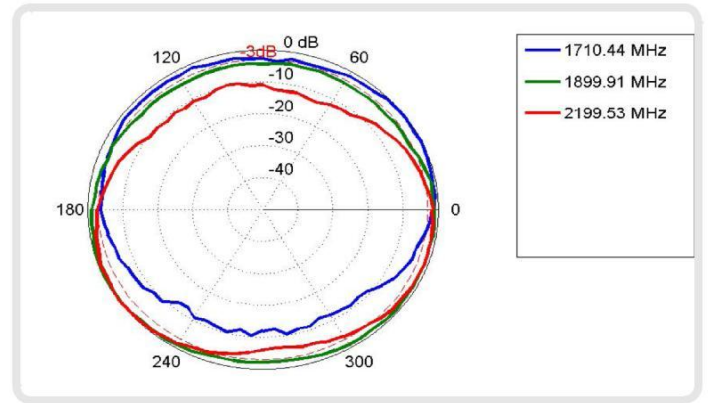
\*Antenna gain measured with polarisation aligned standard antenna

## Radiation Patterns

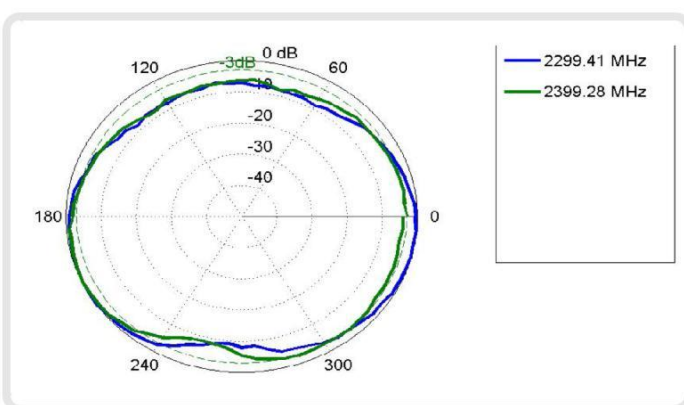
Port 2 Vertical: 800 - 1000 MHz



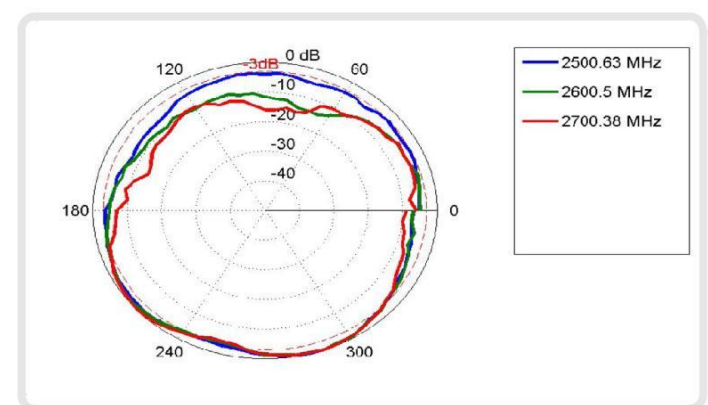
Port 2 Vertical: 1700 - 2200



Port 2 Vertical: 2300 - 2400 MHz



Port 2 Vertical: 2500 - 2700



## Electrical Specifications

Frequency Bands:	690 - 960 MHz 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
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non condensing
Storage Temperature:	-20°C to +70°C

## Product Box Contents

Antenna:	A-OMNI-0085-V2
Connector:	SMA (m) adaptor

*The connector 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
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## Certification Approvals and Standards

Flammability rating:	UL 94-V0 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, CSA and IEC standards

For more detailed information and availability in your region, visit our web site: [www.poynting.tech](http://www.poynting.tech)



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