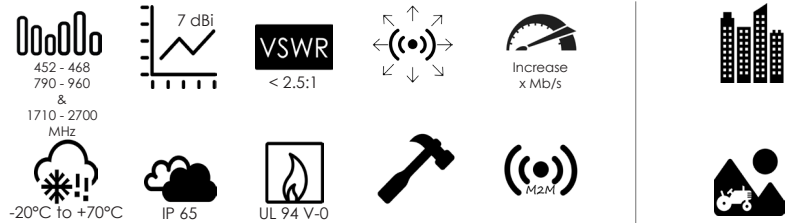


## ANTENNAS | OMNI-0275-V2

# OMNI-275

452 - 468, 790 - 960 & 1710 - 2700 MHZ ALL-BAND LTE/CELLULAR OMNI-DIRECTIONAL ANTENNA



- Includes the new 450 - 470 MHz frequencies
- Compatible with 4G, 3G and 2G technologies, supports WiFi and WiMax
- Ideal for machine to machine applications
- Increased connectivity stability
- Consistent high gain over a very wide frequency band
- Suitable for marine applications

### Product Overview

This antenna covers LTE bands 31, 3 and 30. These bands include HSDPA, 3G EDGE, GPRS and voice. Its configuration makes it suitable for fixed installations of any cellular frequency band. This antenna is ideal as it is backward compatible with legacy cellular technologies.

### Features

- Medium gain omni-directional antenna
- Wall or pole mountable
- Water resistant
- Lightweight
- Aesthetically pleasing


### Application areas

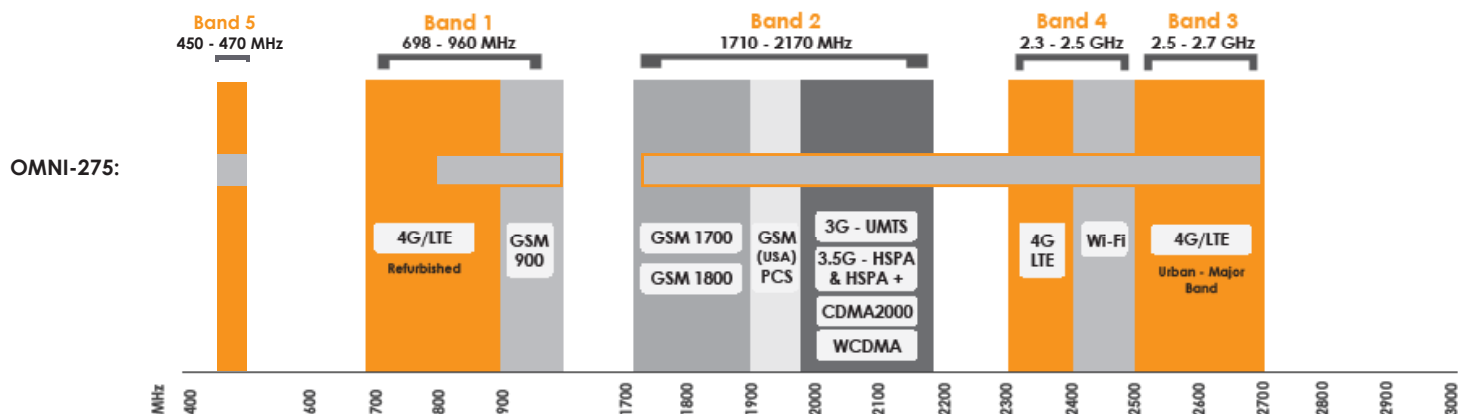
- Marine applications / Yachts
- Machine to machine (M2M)
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- High-end industrial grade router applications Mobile Offices
- Caravans, RTV's



## Frequency bands

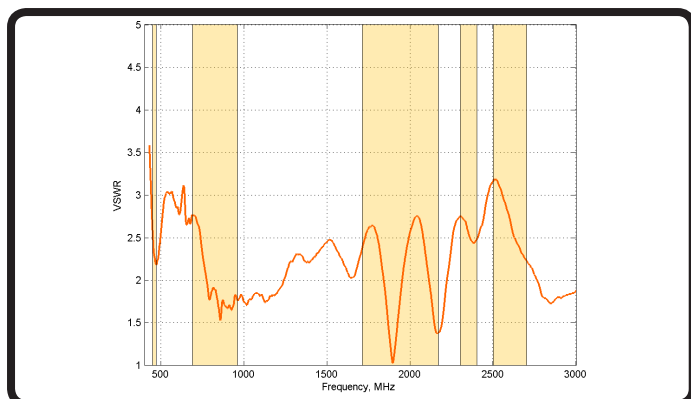
The OMNI - 275 is a 452 - 468, 790 - 960 & 1710 - 2700 MHz LTE Antenna

 Indicates the bands on which this antenna works



## Antenna Performance Plots

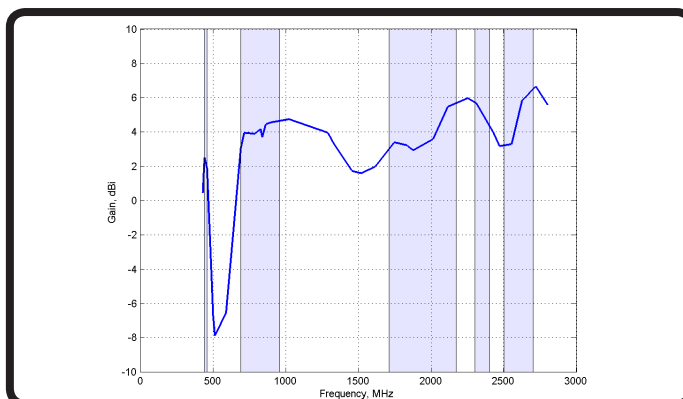
### VSWR:



### 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 2.5:1. The OMNI-275 delivers superior performance across all bands with a VSWR of 2.5:1 or better.

### Gain: (excluding cable loss)



### Gain\* in dBi

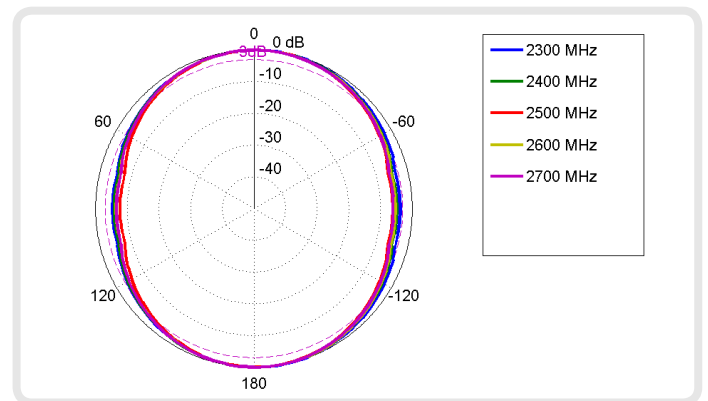
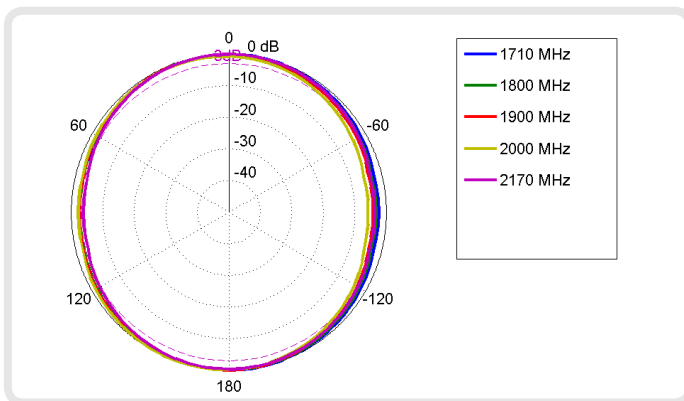
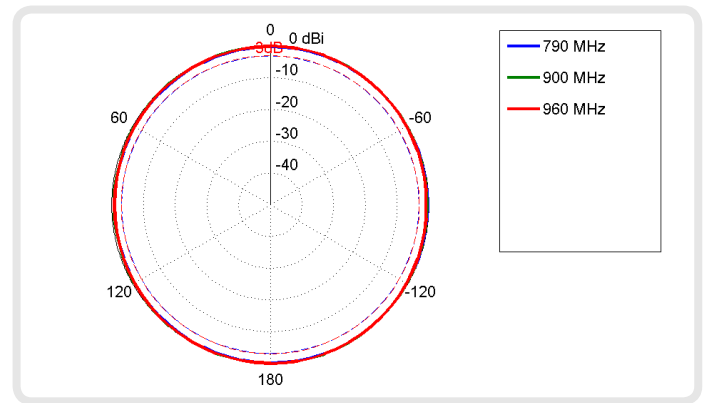
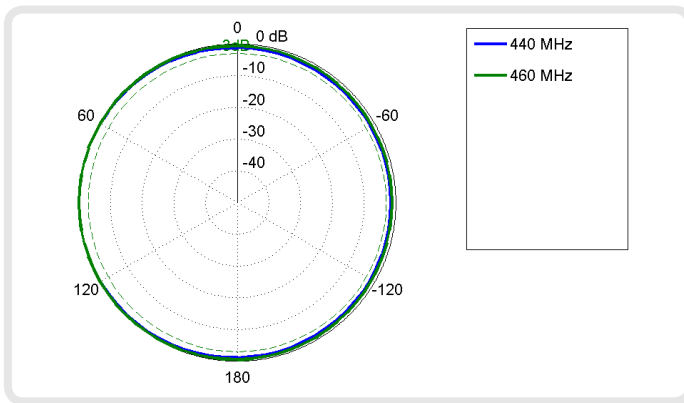
7 dBi is the peak gain across all bands from 452 - 2700 MHz

Gain @ different bands: Band 1      2.5 dBi @ 452-468 MHz  
 Gain @ different bands: Band 2      5dBi @ 790-960 MHz  
 Gain @ different bands: Band 3      7dBi @ 1710-2700MHz

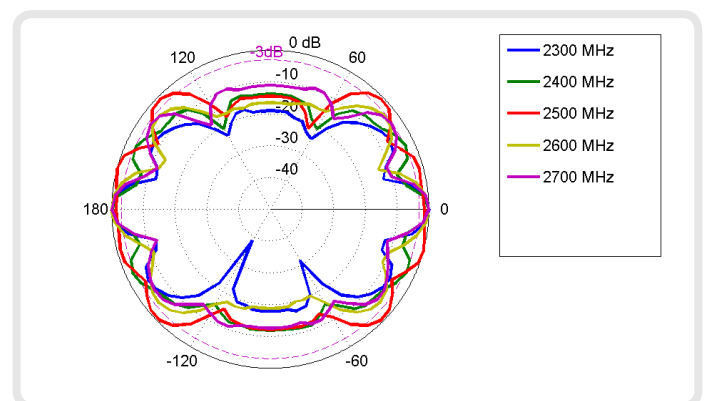
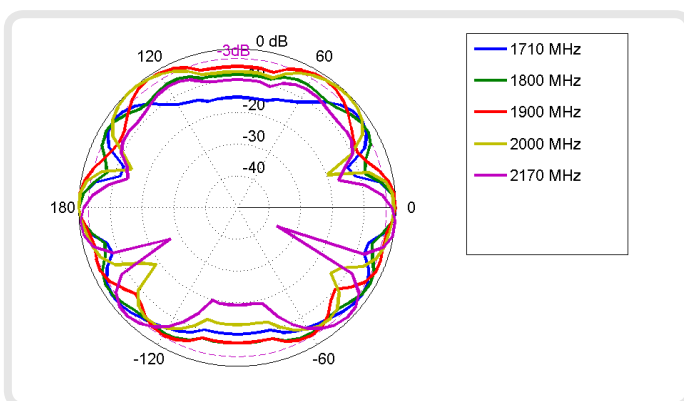
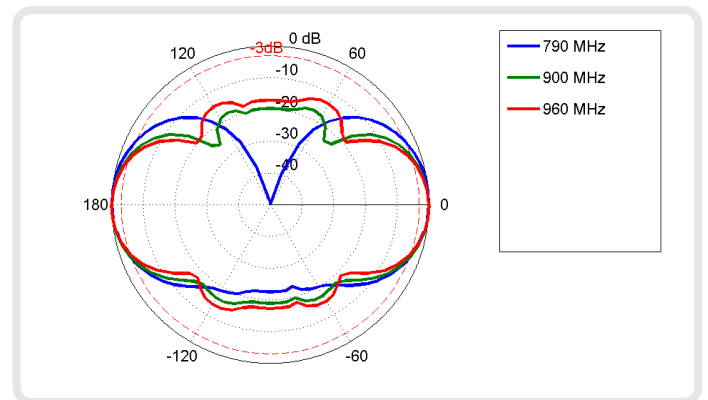
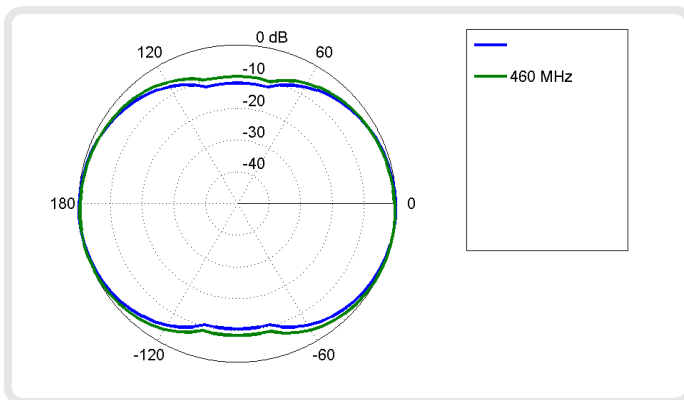
\*Antenna gain measured with polarisation aligned standard antenna

## Radiation Patterns

### H Plane:



### E Plane:



## Electrical Specifications

Frequency Bands:	452 - 468MHz 790 - 960MHz 1710 - 2700 MHz
Gain (Max):	7dBi
VSWR	< 2.5:1 over 90% of the band
Feed Power Handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	Linear Vertical
Cable loss:	Optional cable dependant
DC Short:	Yes

## Mechanical Specifications

Product Dimensions (L x W x D):	485 x 75 x 75mm
Packaged Dimensions:	510 x 95 x 90mm
Weight:	750 g
Packaged Weight:	910 g
Radome Material:	ABS (Halogen Free)
Radome Colour:	Pantone - Cool Gray (1C) RAL - 7047

## Environmental Specifications

Wind Survival:	<160km/h
Temperature Range (Operating):	-20°C to +70°C
Environmental Conditions:	Outdoor/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-0275
Mounting Bracket:	Pole up to 50mm diameter Wall and Pole mount stainless steel bracket
Cable Length:	N/A
Cable Type:	N/A
Connector:	N-Type Female

*The connector is factory mounted to the antenna*



A-OMNI-0275



## Ordering Information

Commercial name:	OMNI -275
Order Product Code:	A-OMNI-0275
EAN number:	6009693810969

## Additional Accessories Available

Extension Cables:	Up to 15m HDF 195
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Various connectors available

Installation poles and brackets available

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

## Certification Approvals and Standards

Flammability rating:	UL 94-V1 EN 13823
Water Ingress Protection Ratio/Standard:	IP 65
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F /ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards

## Contact Poynting

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### OMNI-275

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Product Specifications may change without prior notice  
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