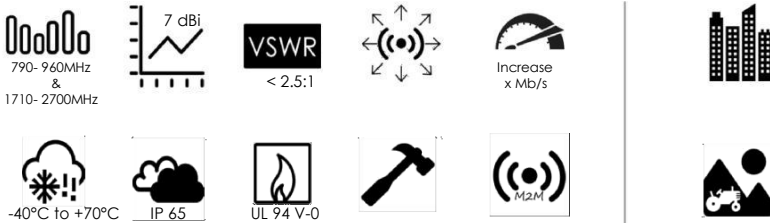


**ANTENNAS | OMNI-69**

# OMNI-69

## ALL-BAND LTE/CELLULAR OMNI-DIRECTIONAL ANTENNA



- 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
- Vandal and water resistant enclosure

### Product Overview

This high gain omni-directional antenna covers all cellular frequencies bands needed for LTE(4G), but also covers the bands for HSDPA, 3G, EDGE, GPRS and voice. 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.

It is also ideal for machine to machine (M2M) applications that are communicating through GSM network (GPRS/ EDGE/ 3G/ HSPA/ LTE). In marine applications it can be connected to low loss extension cable for optimal mounting on to marine vessels.

### Features

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


### Application areas

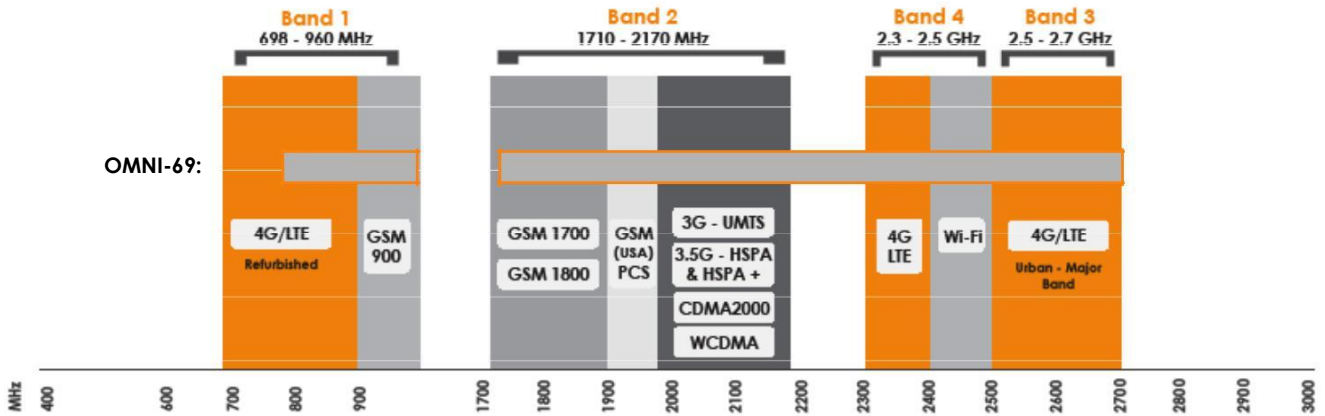
- Marine applications / Yachts
- Machine to machine (M2M)
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- High-end industrial grade router applications Mobile Offices
- Caravans, RTV's



## Frequency bands

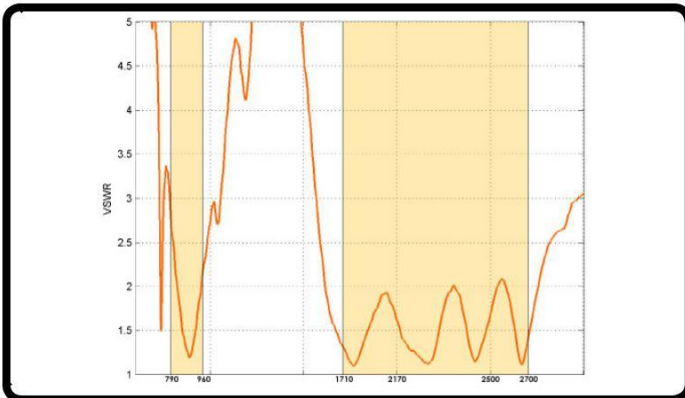
The OMNI-69 works on the 790 - 960 MHz and 1710 - 2700 MHz bands

 Indicates the bands on which this antenna works



## Antenna Performance Plots

VSWR:

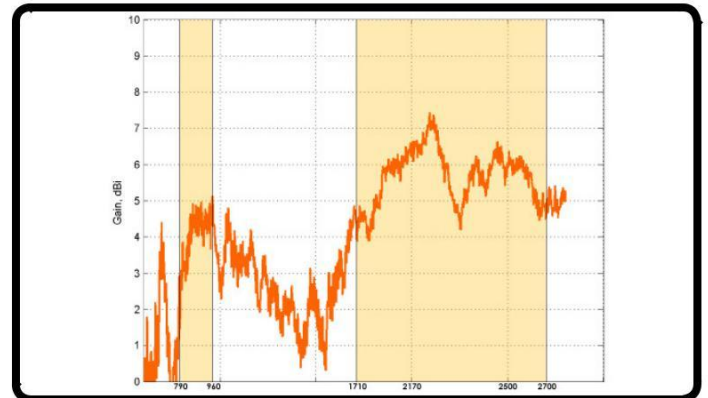


**Voltage Standing Wave Ratio (VSWR)**

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 OMNI-69 delivers superior performance across all bands with a VSWR of 2.6:1 or better.

Gain: (excluding cable loss)



**Gain\* in dBi**

7 dBi is the peak gain across all bands from 790 - 2700 MHz

Gain @ 790 - 960 MHz:

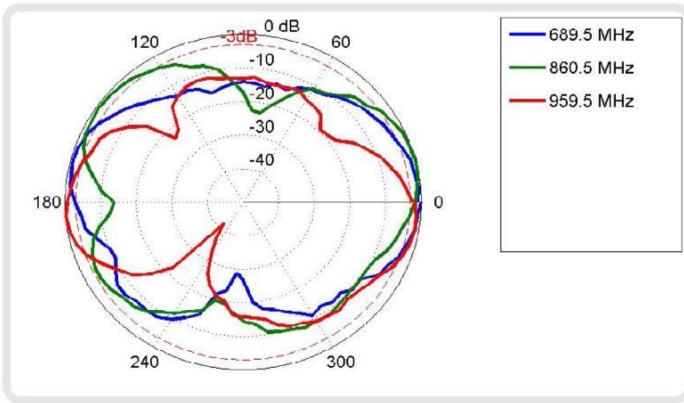
5 dBi

Gain @ 1710 - 2700 MHz:

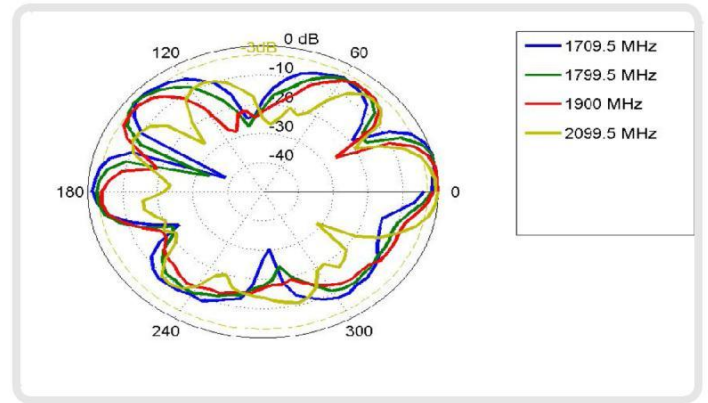
7 dBi

## Radiation Patterns

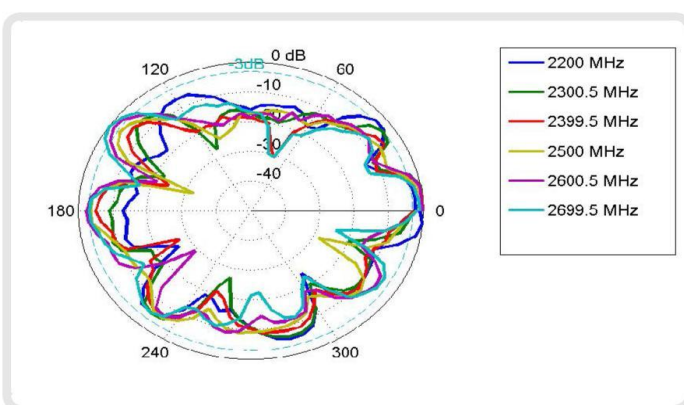
E-Plane: 690 - 960 MHz



E-Plane: 1700 - 2100 MHz



E-Plane: 2200 - 2700 MHz



## Electrical Specifications

Frequency Bands:	790 - 960 MHz 1710 - 2700 MHz
Gain (Max):	7 dBi
VSWR:	<2.6:1
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 mm x 75 mm x 75mm
Packaged Dimensions:	510 mm x 95 mm x 90 mm
Weight:	0.75 kg
Packaged Weight:	0.91 kg
Radome Material:	ABS (Halogen Free)
Radome Colour:	Pantone - Cool Gray (1c) RAL - 7047

## Environmental Specifications

Wind Survival:	160 km/h
Temperature Range (Operating):	-40°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non condensing
Storage Temperature:	-40°C to +70°C

## Product Box Contents

Antenna:	A-OMNI-0069-V3
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-0069-V3



## Ordering Information

Commercial name:	OMNI-69
Order Product Code:	A-OMNI-0069-V3
EAN number:	6009693810594

## 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.poyntingcommercial.com](http://www.poyntingcommercial.com)

## Contact



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03001, Alicante  
Spain

**Phone:** +34 966 10 19 89

**E-mail:** [info@vitriko.com](mailto:info@vitriko.com)

## 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

