

**ANTENNAS | OMNI-232**

# OMNI-232

795 - 960, 1710 - 2170, 2300 - 2400 & 2500 -2700 MHZ WIDEBAND OMNI-DIRECTIONAL PUCK ANTENNA



 795 - 960, 1710 - 2170, 2300 - 2400 & 2500 -2700 MHz	 5 dBi	 <b>VSWR</b> < 2.5:1	 Increase x Mb/s	
 -40°C To +85°C	 IP 65	 UL 94 V-0	 Robust	

- **Futureproof wideband LTE antenna**
- **Backwards compatible with 3G and 2G technologies**
- **Robust antenna**
- **Vandal and water resistant**
- **Increased connectivity stability**
- **Machine-to-machine applications**

### Product Overview

The PUCK antenna is a low gain omni-directional antenna developed for the GSM/3G/UMTS/LTE band and is ideal for a wide range of applications including low profile indoor coverage and capacity enhancement solutions. This antenna is provided with a 0.5m cable terminated in a SMA(m) connector.

### Features

- Medium gain omni-directional antenna
- Wideband - covers wide frequency band
- Ground plane independent
- Easy installation
- Robust


### Application areas

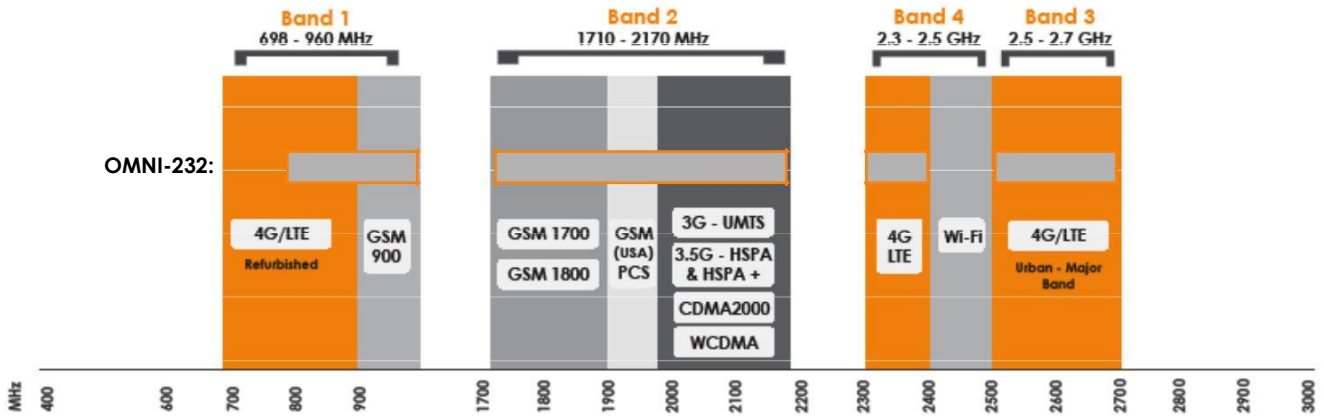
- Urban and rural areas
- Power meters
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- In-building ceiling mount
- Vehicular mounting applications
- Network operator flexibility - as the antennas is wideband, a new antenna is not needed per network operator - works on most networks



## Frequency bands

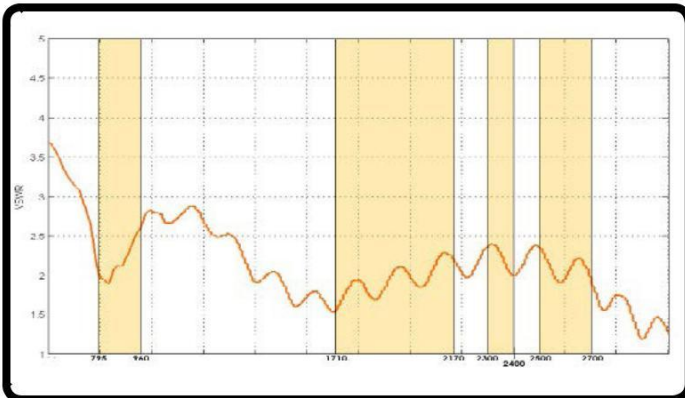
The OMNI-232 is a wide-band antenna that works from 795 - 960, 1710 - 2170, 2300 - 2400 & 2500 - 2700 MHz

 Indicates the bands on which this antenna works



## Antenna Performance Plots

**VSWR:**

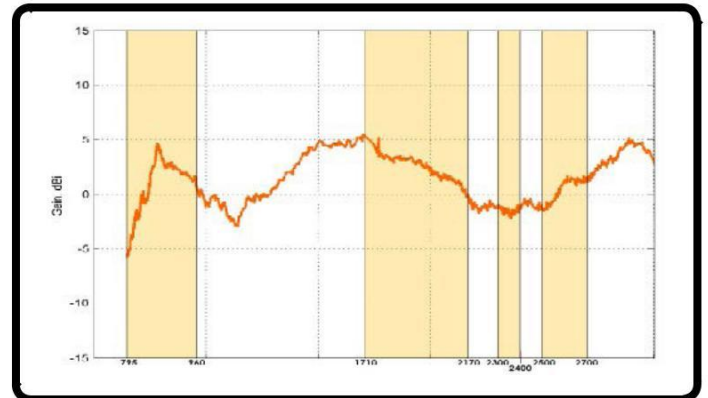


**Voltage Standing Wave Ratio (VSWR)**

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 OMNI-232 delivers superior performance across all bands with a VSWR of 2.5:1 or better.

**Gain:** (excluding cable loss)



**Gain\* in dBi**

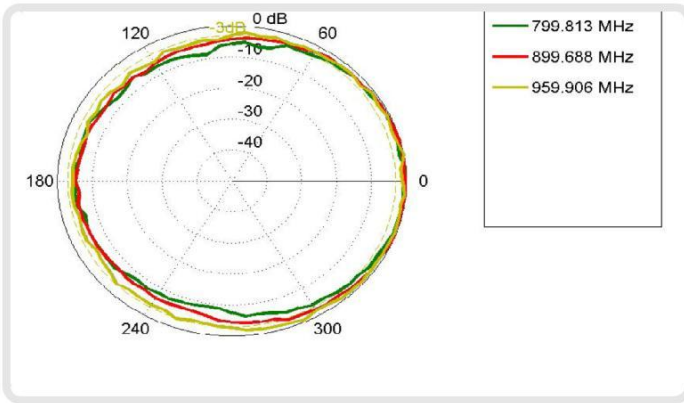
5 dBi is the peak gain across all bands from 795 - 2700 MHz

Gain @ 795 - 960 MHz:	4.8 dBi
Gain @ 1710 - 2170 MHz:	5 dBi
Gain @ 2300 - 2400 MHz:	-2 dBi
Gain @ 2500 - 2700 MHz:	2.5 dBi

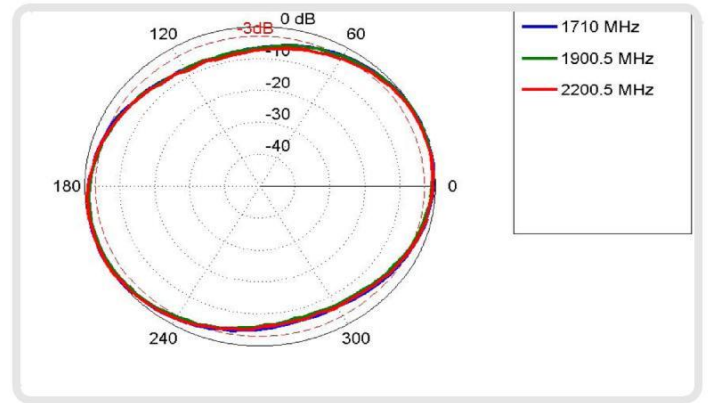
\*Antenna gain measured with polarisation aligned standard antenna

## Radiation Patterns

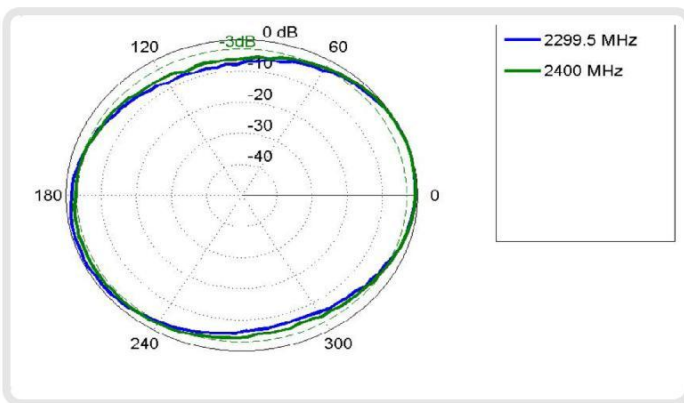
Horizontal - Azimuth: 800 - 1000 MHz



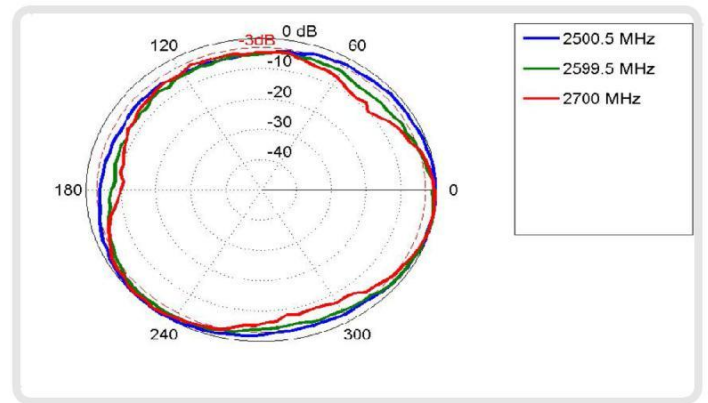
Horizontal - Azimuth: 1700 - 2200



Horizontal - Azimuth: 2300 - 2400 MHz



Horizontal - Azimuth: 2500 - 2700



## Electrical Specifications

Frequency Bands:	795 - 960 MHz 1710 - 2170 MHz 2300 - 2400 MHz 2500 - 2700 MHz
Gain (Max):	5 dBi
VSWR:	< 2.5:1 over 90% of the band
Feed Power Handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	Linear Vertical
Cable loss:	0.85dB/m @ 900 MHz 1.29dB/m @ 2000 MHz 1.45dB/m @ 2500 MHz
DC Short:	Yes

## Mechanical Specifications

Product Dimensions (L x W x D):	102mm x 32mm (circular)
Packaged Dimensions:	200mm x 160mm
Weight:	0.164 kg
Packaged Weight:	0.167 kg
Radome Material:	ABS (Halogen Free)
Radome Colour:	Pantone - Black RAL - Black

## Environmental Specifications

Wind Survival:	160 km/h
Temperature Range (Operating):	-40°C to +85°C
Environmental Conditions:	Outdoor/Indoor
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non condensing
Storage Temperature:	-40°C to +85°C

## Product Box Contents

Antenna:	A-OMNI-0232-V1
Mounting Bracket:	M18 threaded spigot with M18 nut
Cable Length:	0.5m
Cable Type:	RG 174
Connector:	SMA (m)

*The cables and connectors are factory mounted to the antenna*



A-OMNI-232-V1



## Ordering Information

Commercial name:	OMNI-232
Order Product Code:	A-OMNI-0232-V1
EAN number:	6009693810839

## Additional Accessories Available

Extension Cables:	Yes
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Various connectors available

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

## Contact



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## Certification Approvals and Standards

Flammability rating:	UL 94-V0 EN 13823
Water Ingress Protection Ratio/Standard:	IP 65 (NEMA 4X)
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F/ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards

