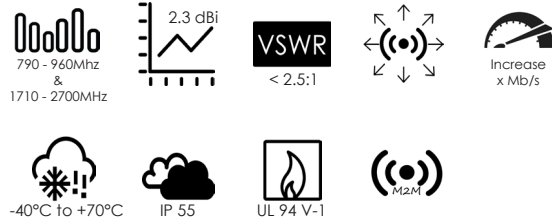


ANTENNAS | OMNI-39

P/N: PY.OMNI 39

CELLULAR BLADE M2M ANTENNA



- Compatible with 4G, 3G and 2G technologies
- Ideal for machine to machine applications
- Increased connectivity stability
- Aesthetically pleasing
- Antenna of choice for Point-of-Sale (POS) terminals and ATM's

Product Overview

This is an aesthetically pleasing all-band cellular antenna for general indoor and outdoor cellular applications. The linear polarised antenna has a compact design and magnet mounting making it suitable for mobile applications as well. It is ideal for machine to machine (M2M) applications that are communicating through the mobile network (GPRS / EDGE / 3G /HSPA/LTE). This antenna exceeds the performance of a standard monopole for the following reasons: It is ground plane independent, it uses high quality low-loss cable, it is a dipole, not a monopole.

Features

- Low gain omni-directional antenna
- Ground-plane independent
- Comes with high quality low-loss cable
- Dipole antenna
- Lightweight
- Aesthetically pleasing
- Covers most international GSM and LTE bands (for LTE 2 antennas are required)
- Magnet mount


Application areas

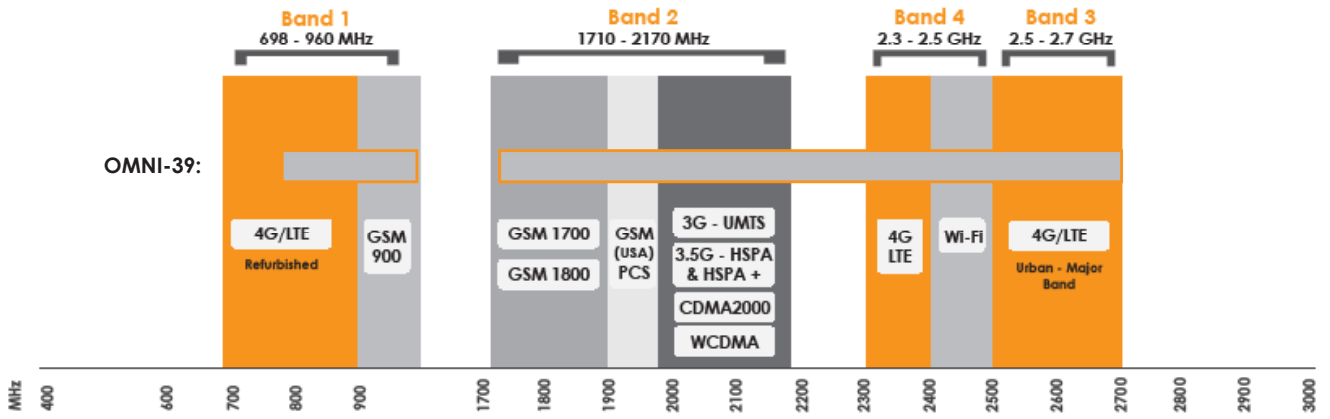
- Urban areas
- Point of Sale (POS) terminals
- ATM's
- Telemetry
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability



Frequency bands

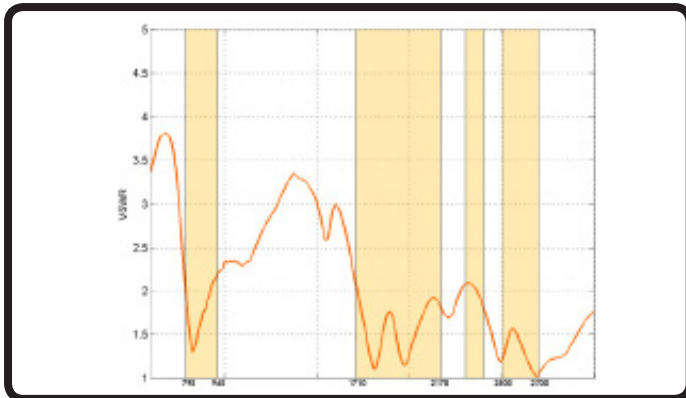
The OMNI-39 works on the 790 - 960 MHz and 1710 - 2700 MHz bands

 Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

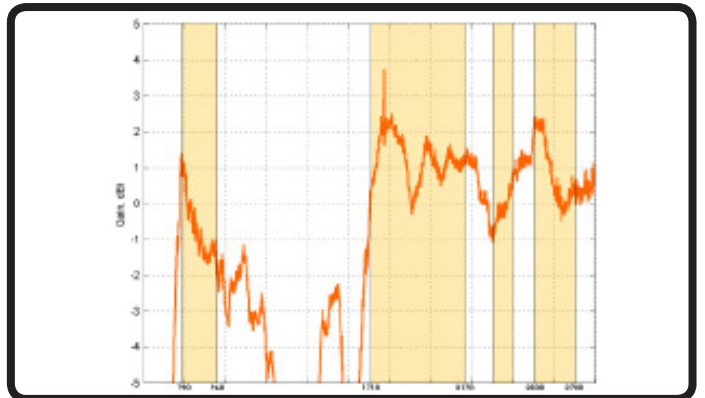


Voltage Standing Wave Ratio (VSWR)

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-39 delivers superior performance across all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

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

Gain @ 790 - 960 MHz:

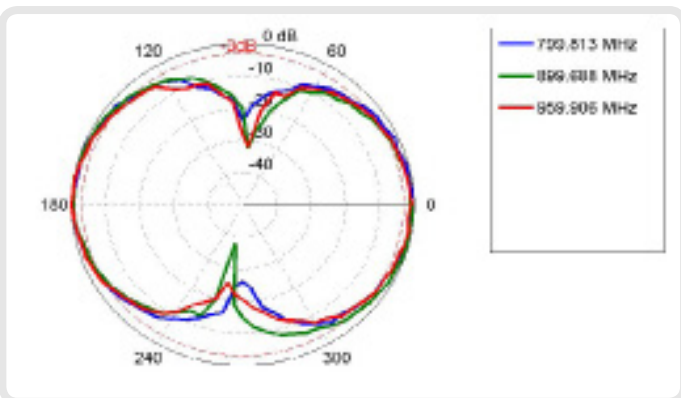
1.5 dBi

Gain @ 1710 - 2700 MHz:

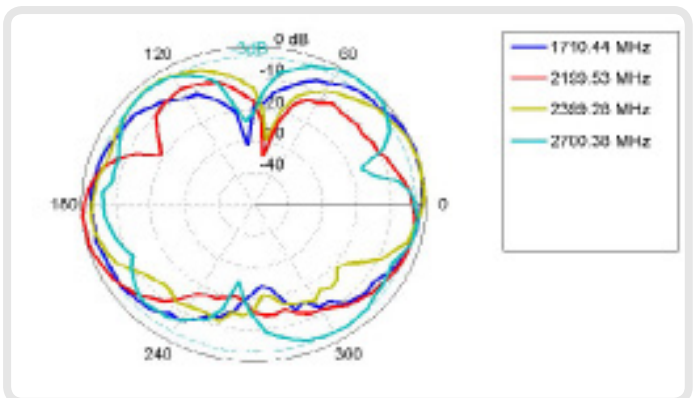
2.3 dBi

Radiation Patterns

E-Plane: 690 - 960 MHz



E-Plane: 1700 - 2100 MHz



Electrical Specifications

Frequency Bands:	790 - 960 MHz 1710 - 2700 MHz
Gain (Max):	2.3 dBi
VSWR:	<2.5:1
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):	150 mm x 60 mm x 40mm
Packaged Dimensions:	155 mm x 95 mm x 45 mm
Weight:	110 g
Packaged Weight:	140 g
Radome Material:	ABS (Halogen Free)
Radome Colour:	Black Black RAL

Environmental Specifications

Wind Survival:	Magnetic Mount. Not for vehicle use
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-0039-V3
Mounting Bracket:	Magnetic mount. Not for vehicle use
Cable Length:	2m
Cable Type:	RG58
Connector:	SMA (m)

The connector is factory mounted to the antenna



A-OMNI-0039-V3

Ordering Information

Commercial name:	OMNI-39
Order Product Code:	A-OMNI-0039-05-V3
EAN number:	6009693810822

Additional Accessories Available

Extension Cables:	N/A
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Various connectors available

Certification Approvals and Standards

Flammability rating:	UL 94-V1 EN 13823
Water Ingress Protection Ratio/Standard:	IP 55
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F/ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards



per l'Italia



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