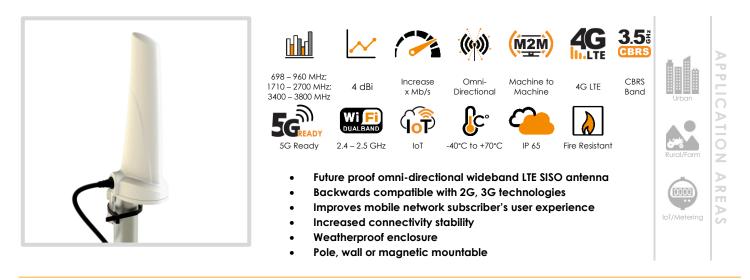


MATLOG OMNI-280



ANTENNAS | OMNI-280 SERIES OMNI-DIRECTIONAL, WIDEBAND, LTE/5G READY ANTENNA 698 - 3800 MHz; 4 dBi



Product Overview

The OMNI-280 antenna provides an innovative solution for the signal enhancement of 4G/3G and 2G networks. It is a unique magnetic, wall- or pole-mountable, single polarised, full LTE band antenna that incorporates an ultra-wideband element in a single housing. This antenna is a cost-effective solution for enhancing signal reception and throughput. The OMNI-280-01 antenna increases signal reliability, ensures higher data throughput for users and provides a stable, high quality connection. This improves user experience and secures client retention. It is ideal for any application using the GSM network (LTE/HSPA/3G/EDGE/ GPRS).

Features

- Wideband frequency ranges from 698 to 3800 MHz
- Medium gain across frequency range
- Omni-directional radiation pattern for optimum coverage
- Magnetic, wall or pole mountable
- Lightweight
- Increase system transmission reliability

Application Areas

- M2M applications where machines and measurement devices need to be connected for real time monitoring and information transfer. (Telematics)
- Utilities for power and water metering.
- Security industry where cameras and other security equipment needs to be monitored.
- Retail point of sale equipment.
- Areas with poor data signal reception (indoor and outdoor).

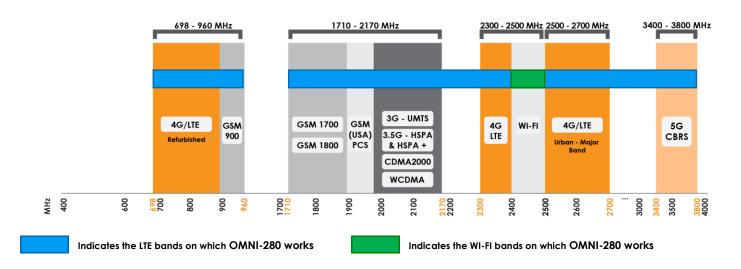


OMNI-280



Frequency Bands

The OMNI-280 is a wide-band antenna that works from 698 – 960 MHz | 1710 – 2700 MHz | 3400 – 3800 MHz



Antenna Derivatives

Product Order Code (SKU)	OMNI-0280-01-V1	OMNI-0280-02-V1	OMNI-0280-08-V1
Ports	1	1	1
SISO / MIMO	SISO	SISO	SISO
Coax Cable Type	RG 58	RG 58	RG 58
Coax Cable Length	1 m	2 m	2 m
Connector Type	SMA (M)	SMA (M)	RA -SMA (M)
Product Weight	0.153kg	0.175kg	0.177kg
Packaged Weight	0.158kg	0.180kg	0.182kg
EAN	0707273470027	0707273469939	0707273470041

*The coax cables & connectors are factory mounted to the antenna



Image: Prequency bands: 1710 - 2700 MHz 1710 - 2700 MHz 3400 - 3800 MHz I dBi @ 698-960 MHz 1 dBi @ 698-960 MHz 3.5 dBi @ 1710-2700 MHz 4 dBi @ 3400-3800 MHz VSWR: <3:1 across 90% of the bands Feed power handling: 10 W Input impedance: 50 Ohm (nominal) Polarisation: Linear Vertical 0.535 dB/m @ 900 MHz 0.79 dB/m @ 1800 MHz 0.79 dB/m @ 1800 MHz 0.79 dB/m @ 2400 MHz 1.1 dB/m @ 3000 MHz 1.1 dB/m @ 3000 MHz DC short: Yes Product Box Contents A-OMNI-0280 Mounting bracket: Pole/Wall and Desk (Magnetic			
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Mounting bracket: Pole/Wall and Desk (Magnetic	Product Box Contents		
	Antenna:	A-OMNI-0280	
	Mounting bracket:		

Mechanical Specifications

Product dimensions	157 mm x 61 mm x 44 mm
Packaged dimensions:	250 mm x 150 mm x 50 mm
Radome material:	ABS (Halogen Free)
Radome colour:	Pantone Cool Gray 1C
Mounting Type:	Pole/Wall and Magnetic/Velcro adhesive

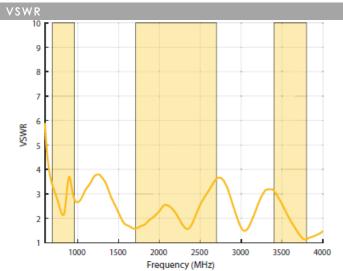
Environmental Specifications, Certification & Approvals

Wind Survival:	<120 km/h
Temperature Range (Operating):	-40°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Water ingress protection ratio/star	idard: IP 65
Salt Spray:	MIL-STD 810F/ASTM B117
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non-condensing
Storage Temperature:	-40°C to +70°C
Enclosure Flammability Rating:	UL 94-HB
Impact resistance:	IK 08
Product Safety & Con Environmental:	nplies with CE and RoHS standards





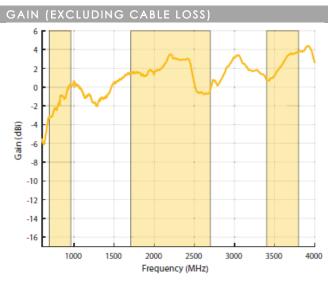
Antenna Performance Plots



Frequency (MHz) 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-280 delivers superior performance across all bands with a VSWR of 3:1 or better across 90% of the bands.



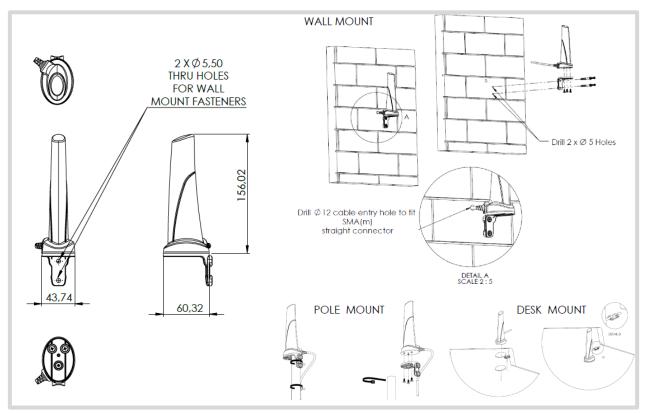
Gain* in dBi

4 dBi is the peak gain across all bands from 698 – 3800 MHz

Gain @ 698 – 960 MHz:	1 dBi
Gain @ 1710 – 2700 MHz:	3.5 dBi
Gain @ 3400 – 3800 MHz:	4 dBi

*Antenna gain measured with polarisation aligned standard antenna

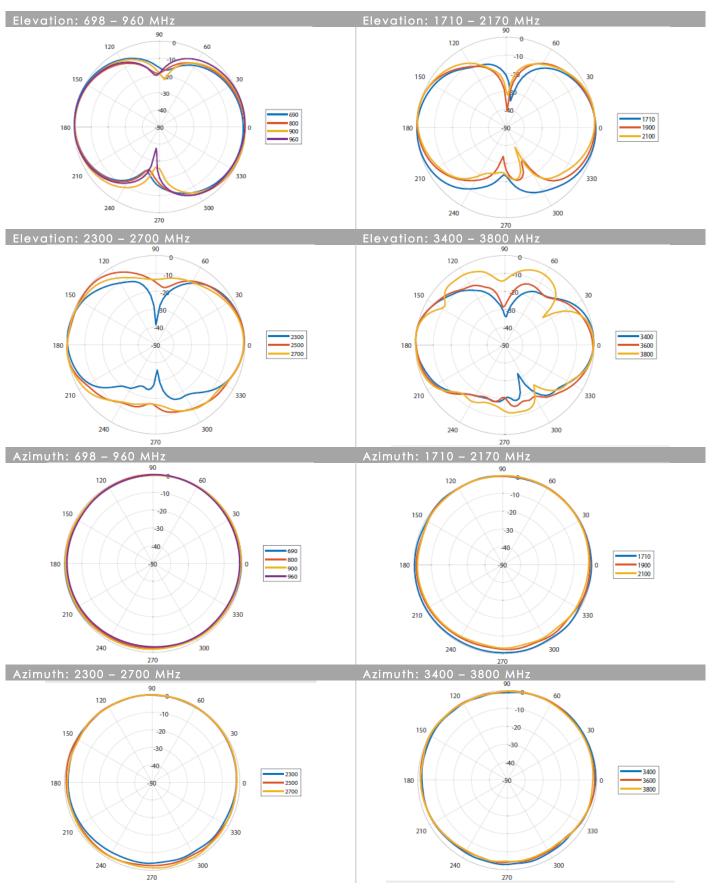
Technical Drawings



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Radiation Patterns





Mounting Options



Wall Mount

Pole/Wall Mounting bracket (included)



Desk/Surface Mount

Magnetic Base, Adhesive and Velcro(included) For temporary and low mobility installations.



Pole Mount

Pole/Wall Mounting bracket (included)



Additional Accessories

Various connectors available

See accessories technical specifications on <u>www.poynting.tech</u>

Contact Poynting

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