

ANTENNAS | XPOL-1

XPOL-1

790 - 960 & 1710 - 2700 MHZ MEDIUM GAIN LTE MIMO ANTENNA



Product overview

The antenna provides an innovative solution for the signal enhancement of 4G / 3G and 2G networks. It is a unique window, wallor pole-mountable, dual polarised, full LTE band antenna. Incorporating two separately fed ultra wideband elements in a single housing, the antenna is equipped to provide client-side MiMo and diversity support for the networks of today and tomorrow. This is a cost effective solution for enhancing signal reception and throughput. The XPOL-1 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/

This improves user experience and secures client retention. It is ideal for any application using the GSM network (LTE/HSPA/3G/EDGE/ GPRS).

Features

- Medium gain directional antenna
- Wideband covers wide frequency band
- Window, wall or pole mountable
- Lightweight
- Waterproof
- Two antennas in one enclosure

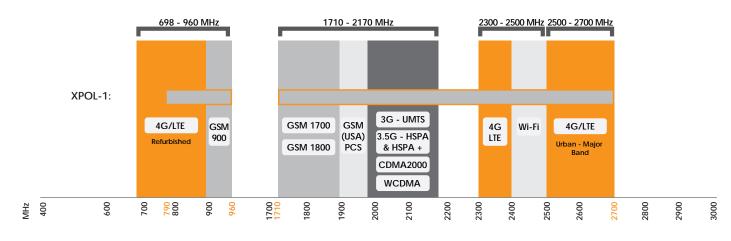
Application areas

- Urban and rural areas
- Residential and Small & Medium Business
- Small offices in semi underground areas
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility as the antennas is wideband, a new antenna is not needed per network operator - works on most networks

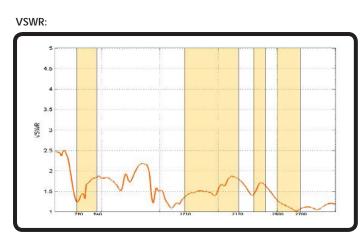


The XPOL-1 is a wide-band antenna that works from 790 - 960 MHz & 1710 - 2700MHz

Indicates the bands on which this antenna works



Antenna performance plots

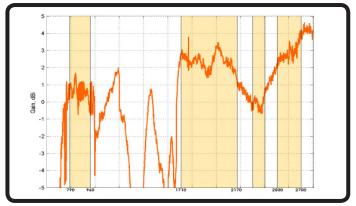


Voltage Standing Wave Ratio (VSWR)

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 XPOL-1 delivers superior performance across all bands with a VSWR of 2:1 or better.





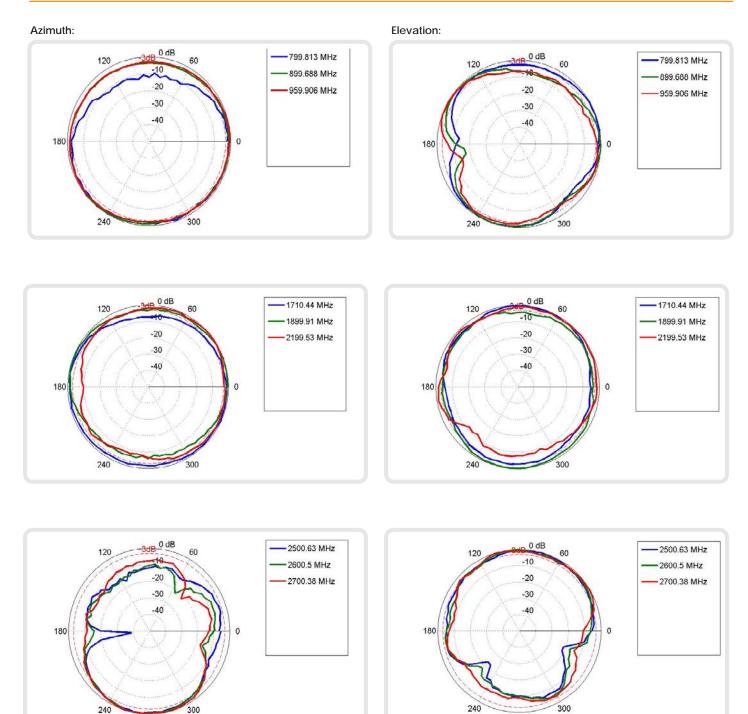
Gain* in dBi

4dBi is the peak gain across all bands from 790 - 2700 MHz

Gain @ 790 - 960 MHz:	1.6 dBi
Gain @ 1710 - 2700 MHz:	4 dBi

*Antenna gain measured with polarisation aligned standard antenna

Radiation patterns



240

300

Electrical specifications

Frequency bands:	790 - 960 MHz
	1710 - 2700 MHz
Gain (max):	4 dBi
VSWR:	<2:1
Feed power handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	+ 45° and -45°
Port to port isolation:	>15dBDC
MIMO decorrelation:	< 0.3
Cable loss:	0.35Db/m @900 MHz
	0.53Db/m @ 2000 MHz
	0.6Db/m @2500 MHz
DC short:	Yes
Cable length:	5m ±5%
Cable type:	HDF 195
Connector:	2 x SMA(m)

Mechanical specifications

Product dimensions (L x W x D): Packaged dimensions: Weight: Packaged weight: Radome material: Radome colour: 215 mm x 135 mm x 85 mm 260 mm x 150 mm x 95 mm 0.62 kg 0.85 kg ABS (Halogen Free) Pantone - Cool Gray (1C) RAL - 7047

Product box contents

Antenna: Mounting bracket:

A-XPOI -0001

A-XPOL-0001 Pole, wall and window suckers included

The connector is factory mounted to the antenna

Environmental specifications

Wind survival:	<120 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

Ordering information

Commercial name: Order product code: EAN number: XPOL-1 A-XPOL-0001 6009693810754

Additional accessories available

Various connectors available Installation poles and brackets available

For more detailed information and availability in your region, visit our web site: www.poynting.tech

Contact Poynting

Poynting Antennas (Pty) Ltd - Head Office

Unit 4, N1 Industrial Park Landmarks Avenue, Samrand, 0157 South Africa

Phone: +27 (0) 12 657 0050 E-mail: sales@poynting.co.za

Certification approvals and standards

Flammability rating:	UL 94-V0
	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



Poynting Europe

Regus Business Center Neue Messe Riem Kronstadter Straße 4 81677 München Germany

Phone: +49 89 208026538 E-mail: sales-europe@poynting.tech

XPOL-1 ©2015 Poynting Antennas (Pty) Ltd. All rights reserved. Product Specifications may change without prior notice Revised: June 2017