

ANTENNAS | XPOL-13

# XPOL-13

## 3400 - 3800 MHZ HIGH GAIN XPOL CPE LTE/WIMAX ANTENNA



- Two antennas in one enclosure for optimal 3.4 - 3.8 GHz LTE/WiMax performance
- Improves mobile network subscriber's user experience
- Increased connectivity stability
- Weatherproof enclosure
- Pole, wall or window mountable

### Product Overview

The antenna provides an innovative solution for the signal enhancement of 4G/WiMax / 3.4 - 3.8 GHz networks. It is a unique window, wall- or 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-13 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 3.4 - 3.8 GHz LTE/WiMax network.

### Features

- High gain directional antenna
- Wideband - covers wide frequency band
- Window, wall or pole mountable
- Lightweight
- Water resistant
- 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
- 3.4 - 3.8 GHz LTE/WiMax fringe areas (close to an LTE area, but just out of reach)

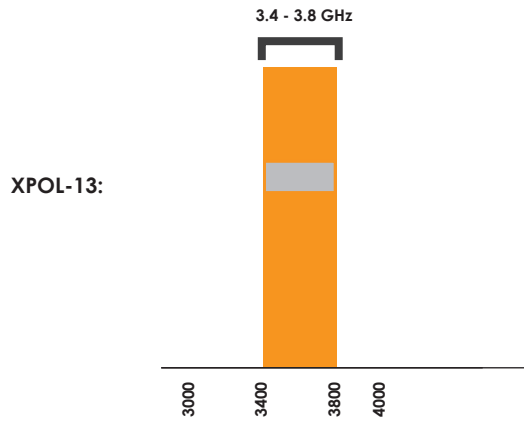


## Frequency bands

The XPOL-13 is a wide-band antenna that works from 3400 - 3800 MHz

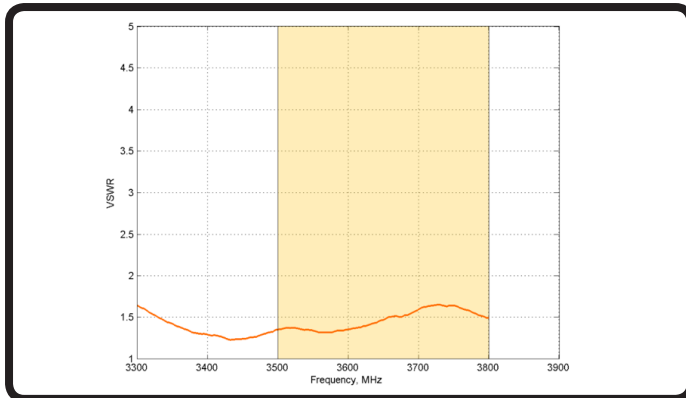


Indicates the bands on which this antenna works

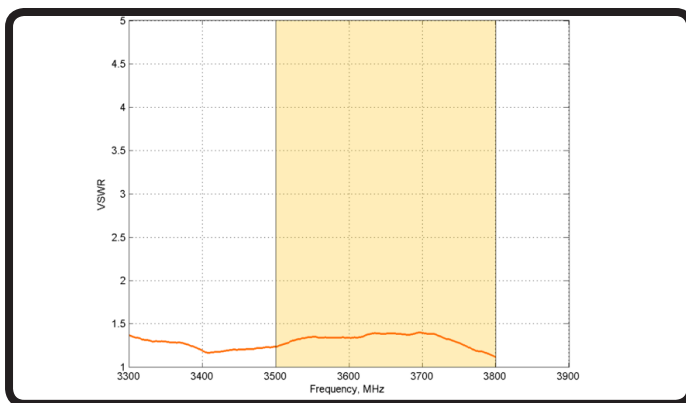


## Antenna Performance Plots

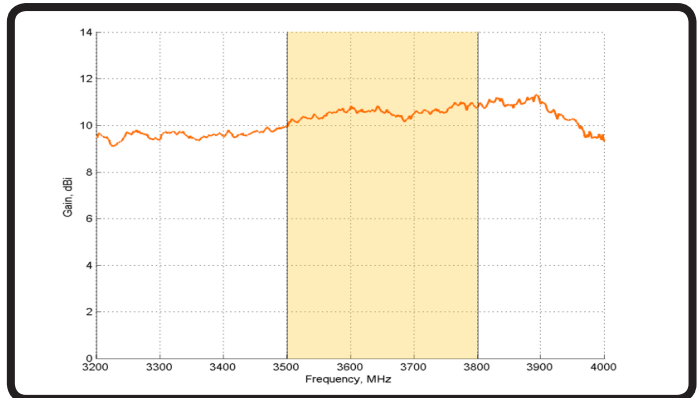
VSWR: (Port 1)



VSWR: (Port 2)



Gain: (Port 1 & 2 - excluding cable loss)



Gain\* in dBi

10.5dBi is the peak gain across all bands from 3500 - 3800 MHz

\*Antenna gain measured with polarisation aligned standard antenna

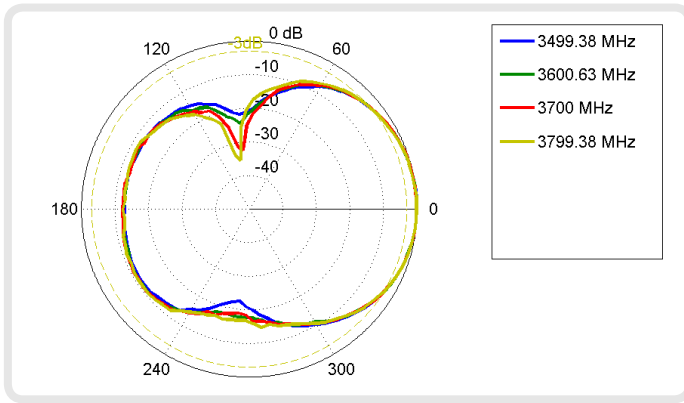
## Voltage Standing Wave Ratio (VSWR)

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-13 delivers superior performance across all bands with a VSWR of 2:1 or better.

## Radiation Patterns

H-Plane:



## Electrical Specifications

Frequency Bands:	3400 - 3800 MHz
Gain (Max):	10.5 dBi
VSWR Port 1:	<2.0:1
VSWR Port 2:	<2.0:1
Feed Power Handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	+ 90° and -90°
Cable loss:	0.75dB/m @3500 MHz 0.78dB/m @3800 MHz
DC Short:	Yes

## Mechanical Specifications

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

## 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

## Product Box Contents

Antenna:	A-XPOL-0013
Mounting Bracket:	Pole, wall and window suckers included
Cable Length:	2 cables x 5m
Cable Type:	HDF 195
Connector:	2 x SMA(m)

*The connector is factory mounted to the antenna*



A-XPOL-0013



## Ordering Information

Commercial name:	XPOL-13
Order Product Code:	A-XPOL-0013
EAN number:	0707273469298

## Additional Accessories Available

Various connectors available  
Installation poles and brackets available

## 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

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