

ANTENNAS | XPOL-16

XPOL-16

450 - 470, 790 - 860,1710 - 2170 MHZ HIGH GAIN CROSS POLARISED LTE MIMO ANTENNA



























- Includes the new 450 470 MHz frequencies
- Futureproof wideband LTE antenna
- Backwards compatible with 3G and 2G technologies
- Two antennas in one enclosure for optimal LTE performance
- Improves mobile network subscriber's user experience
- · Increased connectivity stability
- Weather- and vandal resistant enclosure

Product Overview

The antenna provides a unique frequency range from 450 – 470, 790 – 860, 1710 – 2170 MHz bands and is an innovative solution to boost reception of 4G, 3G and 2G network signals. It is a wall- or pole-mountable, dual polarised, full LTE band antenna. Incorporating two separately fed ultra wideband antenna 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-16 antenna increases signal reliability, ensures higher data throughput for users and provides a stable, high quality connection.

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

Features

- High gain directional antenna
- Wideband covers wide frequency band
- Wall or pole mountable
- Lightweight
- Two antennas in one enclosure

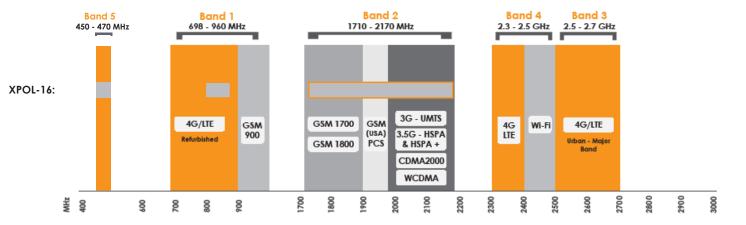
Application areas

- Machine-to-machine (M2M)
- Urban and rural 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
- Regulatory



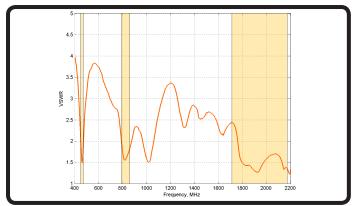
The XPOL-16 is a wide-band antenna that works from 450 - 470, 790 - 860,1710 - 2170 MHz

Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

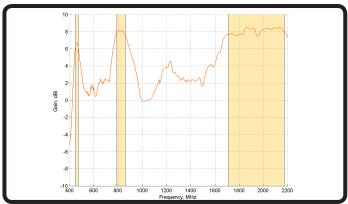


Voltage Standing Wave Ratio (VSWR)

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 XPOL-16 delivers superior performance accross all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



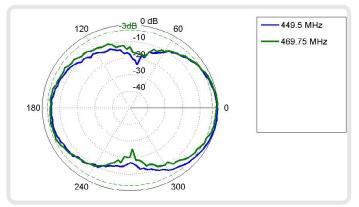
Gain* in dBi

8 dBi is the peak gain across all bands from 450 - 1880 MHz

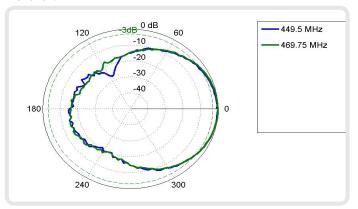
Gain @ 450 - 470 MHz:	6.5 dBi
Gain @ 790 - 860 MHz:	8 dBi
Gain @ 1710 - 2170 MHz:	8 dBi

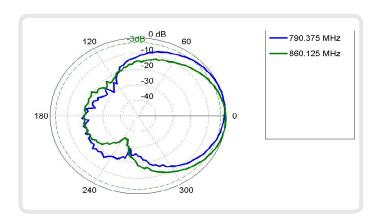
^{*}Antenna gain measured with polarisation aligned standard antenna

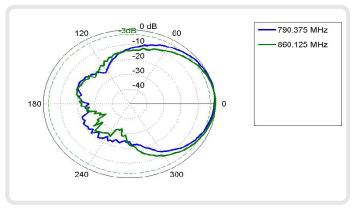
Azimuth:

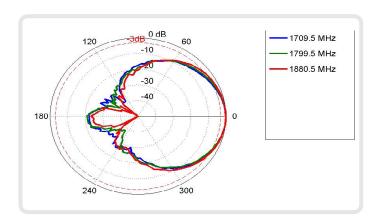


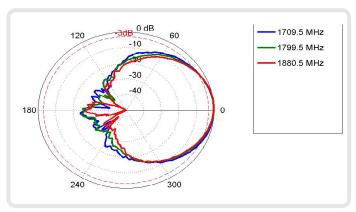
Elevation:











Electrical Specifications

450 - 470 MHz Frequency Bands:

790 - 860 MHz

1710 - 2170 MHz 8 dBi

10 W

Gain (Max): VSWR: <2.5:1 Feed Power Handling:

Input impedance: 50 Ohm (nominal)

Polarisation: + 45° and - 45°

Port to Port Isolation: >15dB MIMO decorrelation: < 0.3

0.3 dB/m @ 450 MHz Cable loss:

0.35dB/m @ 900 MHz

0.53dB/m @ 2000 MHz

DC Short: Yes

Mechanical Specifications

Product Dimensions (L x W x D): 350x350x90mm Packaged Dimensions: 360x360x98mm Weight: 1.98 kg Packaged Weight: 2.38 kg Radome Material: ABS (Halogen Free) Radome Colour: Pantone - Cool Gray (1C) RAL - 7047

Environmental Specifications

<120km/h Wind Survival: Temperature Range (Operating): -40°C to +70°C **Environmental Conditions:** Outdoor/Indoor Operatina Relative Humidity: Up to 98% Storage Humidity: 5% to 95% - non condensing Storage Temperature: -40°C to +70°C

Product Box Contents

A-XPOL-0016 Antenna: Mounting Bracket: 1 x Z-shaped mounting bracket suitable for wall or pole mount Cable Length: Twin siamese HDF 195 Cable Type:

Connector: 2 x Gold Plated SMA(m)

The conntector is factory mounted to the antenna







Ordering Information

Commercial name: XPOL-16 Order Product Code: A-XPOL-0016 EAN number: 6009693810143

Additional Accessories Available

Extension Cables: Up to 10m HDF 195

Various connectors available Installation poles and brackets available

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

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









Contact Poynting

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