

ANTENNAS | XPOL-2

XPOL-2

698 - 2700 MHZ HIGH GAIN CROSS POLARISED LTE MIMO ANTENNA

























- Futureproof wideband LTE antenna and Wi-Fi operational frequencies.
- Backwards compatible with 3G, 2G technologies.
- Two cross polarised 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 an innovative solution for 4G / 3G and 2G networks including Wi-Fi. It is a unique 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-2 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
- Broadband covering multiple operational frequencies
- Wall or pole mountable
- Lightweight
- Waterproof
- Two cross polarized antennas in one enclosure

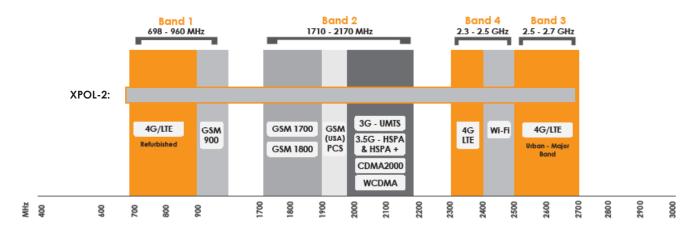
Application areas

- Urban and rural areas
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection areas
- 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



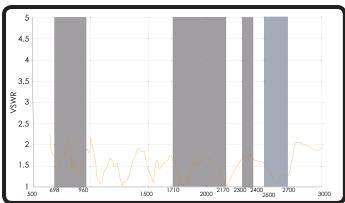
The XPOL-2 is a wide-band antenna that works from 698 - 2700 MHz

Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

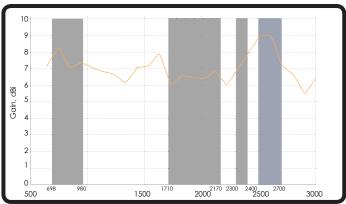


Voltage Standing Wave Ratio (VSWR)

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-2 delivers superior performance accross all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

9dBi is the peak gain across all bands from 698 - 2700 MHz Gain @ 698 - 960 MHz: 8 dBi

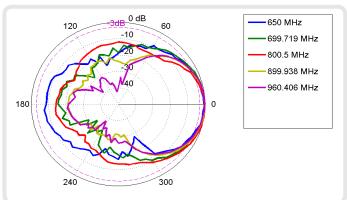
Gain @ 1710 - 2170 MHz: 6.5 dBi

Gain @ 2300 - 2400 MHz: 7 dBi

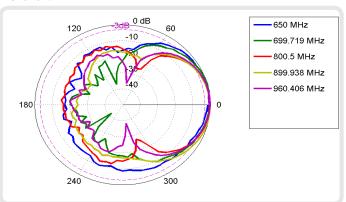
Gain @ 2500 - 2700 MHz: 9 dBi

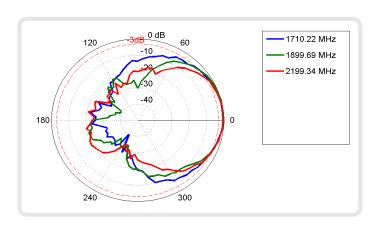
^{*}Antenna gain measured with polarisation aligned standard antenna

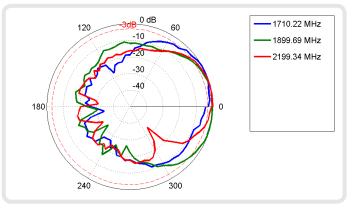
Azimuth:

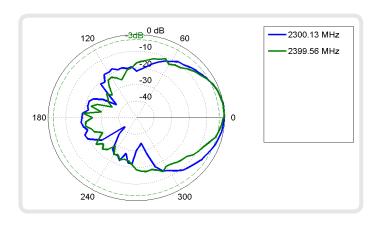


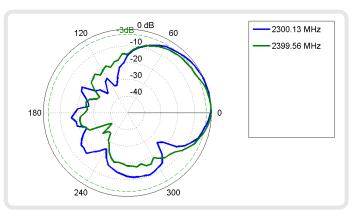
Elevation:

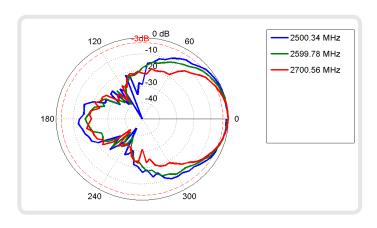


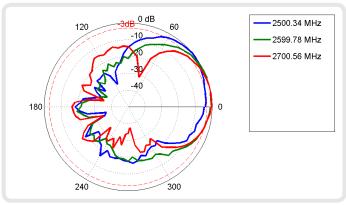












Electrical Specifications

698 - 960 MHz Frequency Bands:

1710 - 2170 MHz 2300 - 2400 MHz 2500 - 2700 MHz

Gain (Max): 9 dBi VSWR: < 2.5:1

Feed Power Handling: 10 W

Input impedance: 50 Ohm (nominal) Polarisation: 0° and 90° Port to Port Isolation: >15dB MIMO decorrelation: < 0.3

0.35dB/m @900 MHz Cable loss: 0.53dB/m @ 2000 MHz 0.6dB/m @2500 MHz

DC Short: Yes

Mechanical Specifications

Product Dimensions (L x W x D): 255 mm x 250 mm x 80 mm Packaged Dimensions: 290 mm x 267 mm x 98 mm Weight: 1,55 kg Packaged Weight: 1,98 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-0002-V2 Antenna: Mounting Bracket: 1 x Z-shaped mounting bracket suitable for wall or pole mount

Cable Length: Black twin siamese HDF 195 Cable Type: Connector: 2X SMA (M)Gold plated)

The cables and connectors are factory mounted to the antenna







Ordering Information

Commercial name: XPOL-2 Order Product Code: A-XPOL-0002-V2 EAN number: 6009693810051

Additional Accessories Available

Extension Cables: Up to 10m HDF 195

Various connectors available

visit our web site: www.poynting.tech

Installation poles and brackets available

For more detailed information and availability in your region,

XPOL-0002-V2 **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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