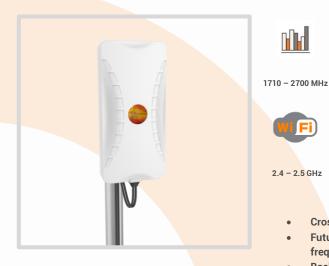




ANTENNAS | XPOL-6 SERIES

X-POLARISED, HIGH GAIN, DIRECTIONAL LTE ANTENNA

1710 - 2700 MHz, 11 dBi









X Mb/s



Uni-Directional



Machine







Machine to 4G LTE







AREAS

2.4 - 2.5 GHz

2x2 MIMO

Fire Resistant

-40°C to +80°C

- Cross-polarised with high-gain for LTE applications
- Futureproof wideband LTE antenna and Wi-Fi operational
- Backwards compatible with 2G and 3G technologies
- Two antennas in one enclosure for optimal LTE performance
- 2X2 MIMO LTE/4G antenna
- Increased connectivity stability

Product Overview

The XPOL-6 is a unique antenna, which provides a unique solution with a constant high gain for 4G, 3G and 2G networks. The XPOL-6 is a dualpolarised full LTE band antenna and is wall- or pole-mountable. The antenna is equipped to provide client-side MIMO and diversity support for the networks of today and tomorrow. This is done by incorporating two separately fed ultra-wideband elements in a single housing, which is a costeffective solution for enhancing signal reception. The XPOL-6 antenna increases signal reliability, ensures higher data throughput for users and provides a stable, high-quality connection. This improves subscriber's user experience and secures client retention. It is ideal for any application using the GSM network (LTE/ HSPA/3G/EDGE/GPRS).

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Features

- High gain antenna for LTE applications
- Uni-directional radiates in one direction
- Wideband frequency ranges from 1710 2700 MHz
- Also covers Wi-Fi for 2400 2500 MHz
- Two antennas in one enclosure; offering MIMO capability
- Wall or pole mountable
- Lightweight

Application Areas

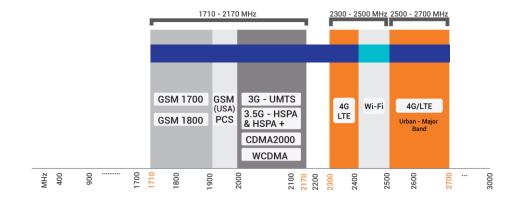
- Urban and rural areas
- Poor data signal reception (Indoor or outdoor)
- Slow data transmission connectivity
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility as the antennas are wideband, a new antenna is not needed per network operator - works on most networks





Frequency Bands

The XPOL-6 is a directional antenna that works from | 1710 - 2700 MHz |



Indicates the LTE bands on which XPOL-6 works



Indicates the WI-FI bands on which XPOL-6 works

Antenna Overview

	LTE
Ports	2
SISO / MIMO	2x2 MIMO
Frequency Bands	1710 - 2700 MHz
Polarisation	+ 45° and - 45°
Peak Gain	11 dBi
Coax Cable Type	Twin HDF 195
Coax Cable Length	10m
Connector Type	SMA (M)

^{*}The coax cable & connector are factory mounted to the antenna



Electrical Specifications

Frequency Bands: 1710 - 2700 MHz Gain (Max): 11 dBi

VSWR: < 2:1

10 W Feed Power Handling:

50 Ohm (nominal) Input Impedance:

Polarisation: + 45° and - 45°

Coax Cable Loss: 0.565 dB/m @ 1800 MHz 0.666 dB/m @ 2400 MHz

Path to Ground:

Product Box Contents

A-XPOL-0006-10M Antenna:

Pole or wall mounting **Mounting Bracket:** bracket

Ordering Information

Commercial name: XPOL-6-10M

Order product code: A-XPOL-0006-10M

EAN number: 6009693810129 **Mechanical Specifications**

Product Dimensions 301 mm x 144 mm x 56 mm

Packaged Dimensions: 360 mm x 160 mm x 115 mm

Weight: 1.35 kg

Packaged Weight: 1.60 kg

Radome Material: ABS (Halogen Free)

Pantone – Cool Gray (1C) Radome Colour:

RAL 7047

Mounting Type: Wall and Pole Mount

Environmental Specifications, Certification & Approvals

Antenna Wind Survival: <120 km/h

-40°C to +80°C **Temperature Range (Operating):**

Environmental Conditions: Outdoor/Indoor

IP 65 **Ingress Protection:**

Salt Spray: MIL-STD 810G/ASTM B117

Operating Relative Humidity: Up to 98%

5% to 95% - non-condensing Storage Humidity:

-40°C to +80°C Storage Temperature:

Enclosure Flammability Rating:

Impact Resistance: IK 08

Complies with CE and RoHS **Product Safety & Environmental:**

standards

UL 94-HB



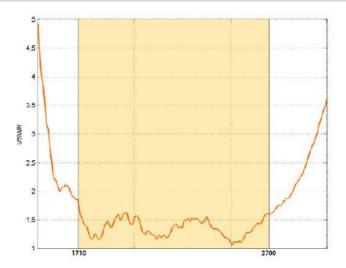






Antenna Performance Plots

VSWR



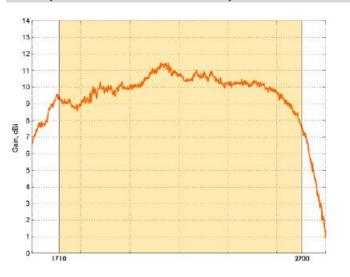
Voltage Standing Wave Ratio (VSWR)*

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-6 delivers superior performance across all bands with a VSWR of <2:1.

*VSWR measured with a 10m low loss cable.

GAIN (EXCLUDING CABLE LOSS)



Gain⁺ in dBi

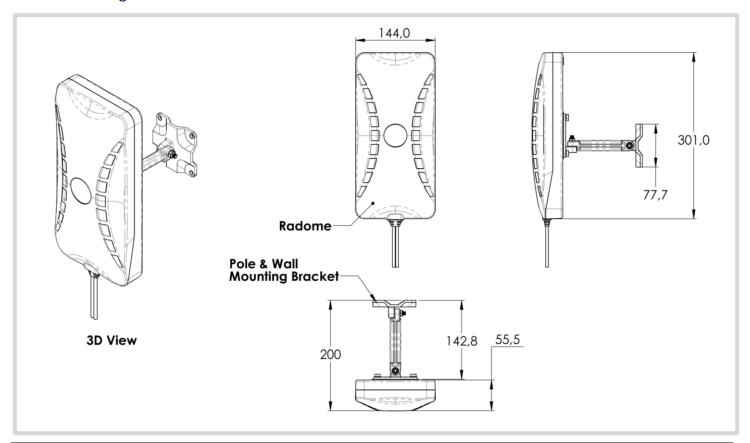
11 dBi is the peak gain across all bands from 1710 - 2700 MHz

Gain @ 1710 - 2700 MHz:

11 dBi

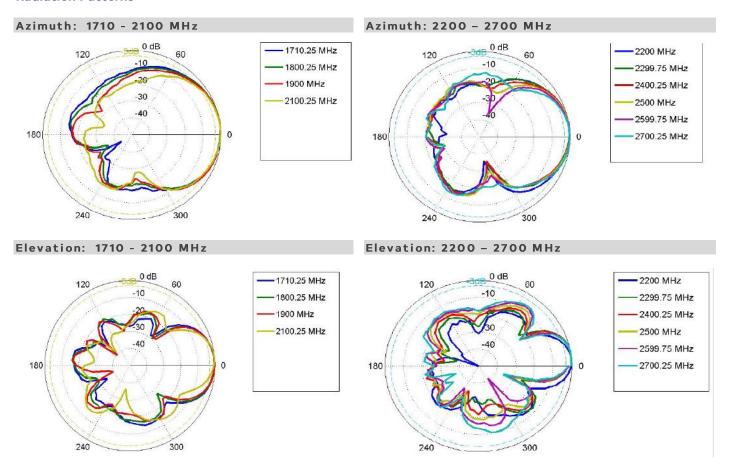
*Antenna gain measured with polarisation aligned standard antenna

Technical Drawings





Radiation Patterns





Mounting Options



Pole Mount

Pole/Wall mounting bracket (included)

Wall Mount

Pole/Wall mounting bracket (included)



Additional Accessories

Extension Cables: Up to 10m HDF 195

Various connectors available

Installation poles and brackets available

See accessories technical specifications on www.poynting.tech

Contact USAT to Order



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