PY-P-PS200-09W-16





ANTENNAS | XPOL-2 SERIES

X-POLARISED, HIGH GAIN, DIRECTIONAL LTE ANTENNA

LTE 2X2 MIMO; 698 - 2700 MHz, 9 dBi

















Machine to

4G LTE



2.4 - 2.5 GHz



9 dBi



x Mb/s



Uni-Directional



Machine





- 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 (IP 65)





Product Overview

The XPOL-2 provides an innovative solution for 4G/3G and 2G networks, including Wi-Fi. The XPOL-2 is a dual-polarised 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 by incorporating two separately fed ultra-wideband elements in a single housing. 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'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

- Wideband frequency ranges from 698 2700 MHz
- Also covers Wi-Fi for 2400 2500 MHz
- High gain directional antenna
- Two cross-polarised 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

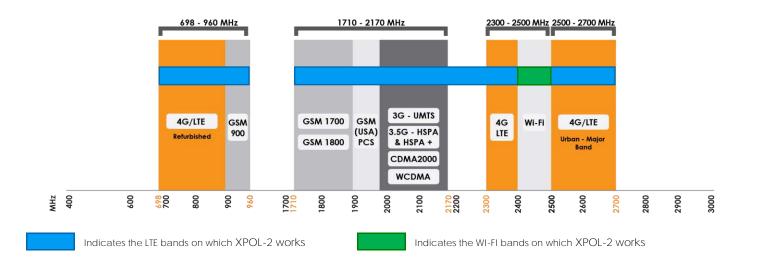






Frequency Bands

The XPOL-2 is a directional antenna that works from 698 – 960 MHz | 1710 – 2170 MHz | 2300 – 2700 MHz



Antenna Overview

	(PLIE
Ports	2
SISO / MIMO	2x2 MIMO
Frequency Bands	698 – 2700 MHz
Polarisation	0° and 90°
Peak Gain	9 dBi
Coax Cable Type	Twin HDF 195
Coax Cable Length	5m
Connector Type	SMA (M)

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





Electrical Specifications

698 - 960 MHz Frequency bands: 1710 - 2170 MHz

2300 – 2700 MHz

8 dBi @ 698-960 MHz Gain (max): 6.5 dBi @ 1710-2170 MHz

9 dBi @ 2300-2700 MHz

VSWR: ≤ 2:1 over 90% of the band

Feed power handling:

Input impedance: 50 Ohm (nominal)

0° and 90°

0.385 dB/m @ 900 MHz Coax cable loss: 0.565 dB/m @ 1800 MHz

0.666 dB/m @ 2400 MHz

Yes

Product Box Contents

Antenna: A-XPOL-0002-V2

Mounting bracket: 1x Z-shaped mounting bracket

suitable for wall or pole mount

Ordering Information

XPOL-2

Order product code: PY-P-PS200-09W-16

EAN number: 6009693810051 Mechanical Specifications

Product dimensions 290 mm x 265 mm x 155 mm

Packaged dimensions: 375 mm x 270 mm x 100 mm

1.55 kg Weight:

Packaged weight: 1.98 kg

Radome material: ABS (Halogen Free)

Pantone - Cool Gray (1C) Radome colour:

RAL 7047

Mounting Type: Wall and pole mount

Environmental Specifications, Certification & Approvals

Wind Survival: <120 km/h

Temperature Range (Operating): -40°C to +70°C

Outdoor/Indoor

Water ingress protection ratio/standard: IP 65 (NEMA 4X)

Salt Spray: MIL-STD 810F/ASTM B117

Operating Relative Humidity: Up to 98%

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

-40°C to +70°C Storage Temperature:

UL 94-HB Enclosure Flammability Rating:

Impact resistance: IK 08

Product Safety & Complies with CE and RoHS standards







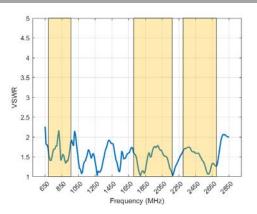
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Antenna Performance Plots

VSWR

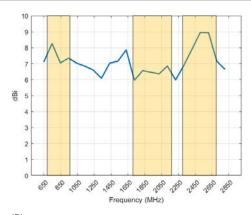


Voltage Standing Wave Ratio (VSWR)

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 across all bands with a VSWR of < 2:1 or better across 90% of the bands.

GAIN (EXCLUDING CABLE LOSS



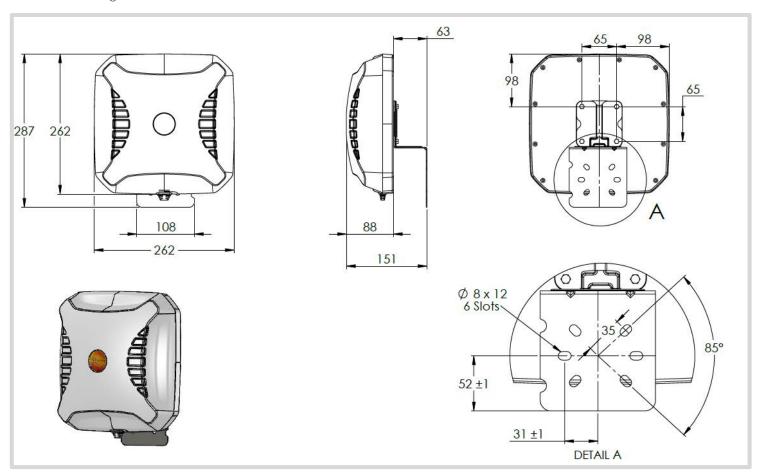
Gain* in dBi

8 dBi 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 – 2700 MHz: 9 dBi

*Antenna gain measured with polarisation aligned standard antenna

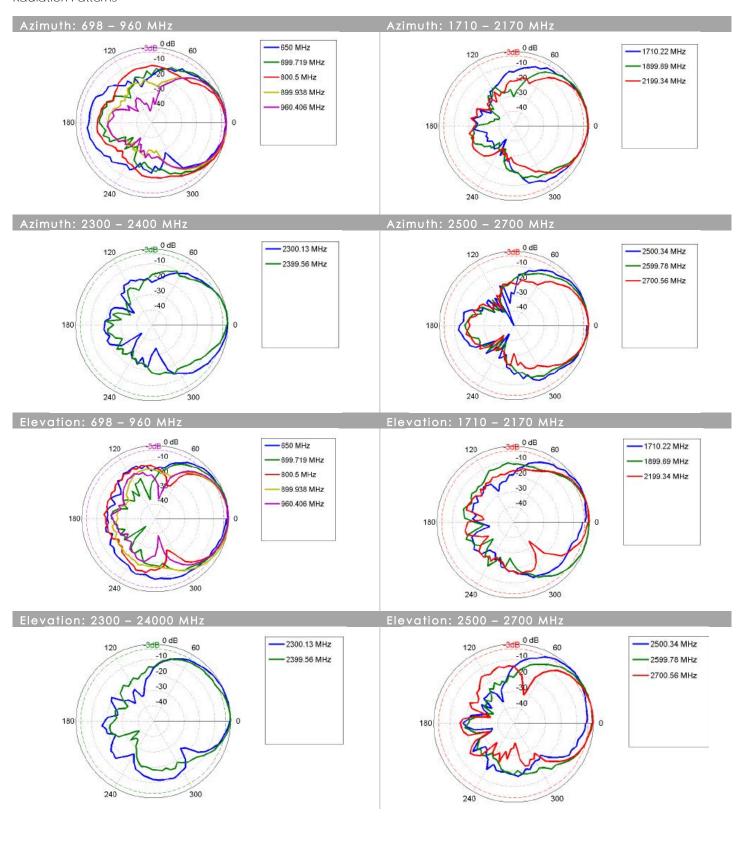
Technical Drawings







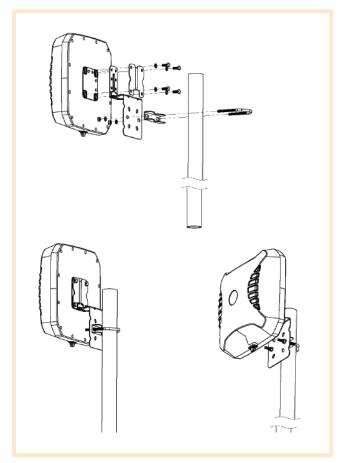
Radiation Patterns





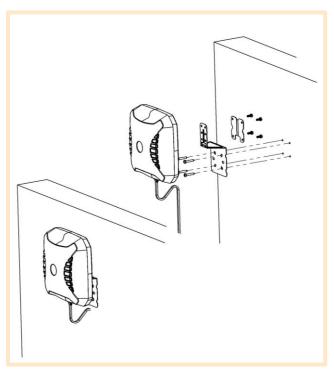


Mounting Options



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

https://usatcorp.com/poynting/

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