



ANTENNAS | XPOL-1

XPOL-1

790 - 960 & 1710 - 2700 MHZ MEDIUM GAIN LTE MIMO ANTENNA























- · Future-proof omni-directional wideband LTE antenna
- Backwards compatible with 3G, 2G technologies
- Two antennas in one enclosure for optimal LTE performance
- Improves mobile network subscriber's user experience
- Increased connectivity stability
- · Weather- and vandal proof enclosure
- Pole, wall or window mountable

Product overview

The antenna provides an innovative solution for the signal enhancement of 4G / 3G and 2G 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-1 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 GSM network (LTE/HSPA/3G/EDGE/GPRS).

Features

- · Medium gain directional antenna
- Wideband covers wide frequency band
- Window, wall or pole mountable
- Lightweight
- Waterproof
- Two antennas in one enclosure

Application areas

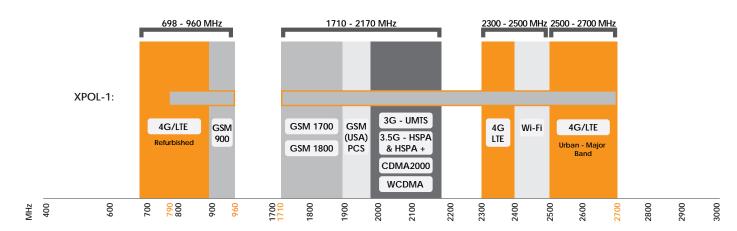
- Urban and rural areas
- Residential and Small & Medium Business
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)

new antenna is not needed per network operator - works on most networks



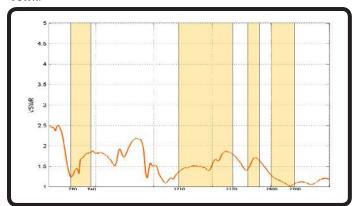
The XPOL-1 is a wide-band antenna that works from 790 - 960 MHz & 1710 - 2700MHz

Indicates the bands on which this antenna works



Antenna performance plots

VSWR:

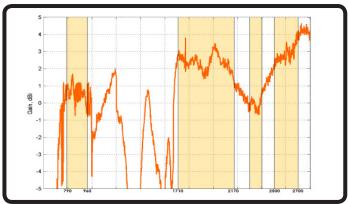


Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how 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 $\dot{\text{XPOL-1}}$ delivers superior performance across all bands with a VSWR of 2:1 or better.

Gain: (excluding cable loss)



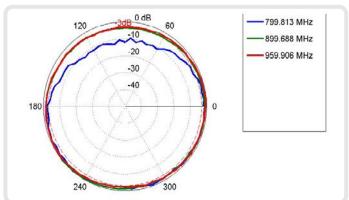
Gain* in dBi

4dBi is the peak gain across all bands from 790 - 2700 MHz

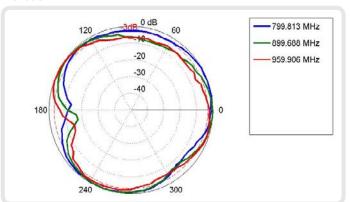
Gain @ 790 - 960 MHz: 1.6 dBi Gain @ 1710 - 2700 MHz: 4 dBi

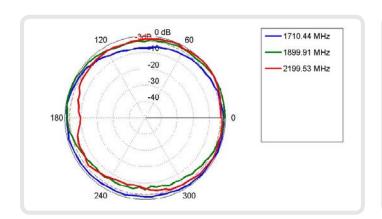
*Antenna gain measured with polarisation aligned standard antenna

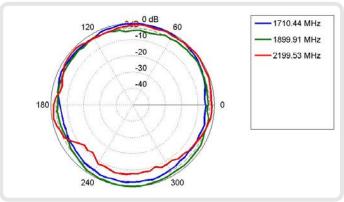
Azimuth:

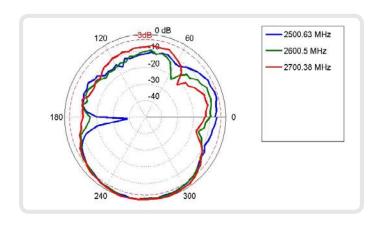


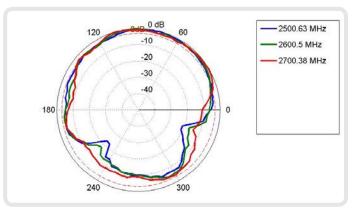
Elevation:











Electrical specifications

790 - 960 MHz Frequency bands: 1710 - 2700 MHz

Gain (max): 4 dBi VSWR: <2:1 Feed power handling: 10 W 50 Ohm (nominal) Input impedance:

Polarisation: + 45° and -45° Port to port isolation:

>15dBDC MIMO decorrelation:

Cable loss: 0.35Db/m @900 MHz

0.53Db/m @ 2000 MHz 0.6Db/m @2500 MHz

< 0.3

DC short: Cable length: 5m ±5% Cable type: HDF 195 Connector: 2 x SMA(m)

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 0.62 kg Weight: Packaged weight: 0.85 kg Radome material: ABS (Halogen Free) Radome colour: Pantone - Cool Gray (1C) RAL - 7047

Product box contents

A-XPOL-0001 Antenna: Mounting bracket: Pole, wall and window suckers

The connector is factory mounted to the antenna

Environmental specifications

<120 km/h Wind survival: -40°C to +70°C Temperature range (Operating): Environmental conditions: Outdoor/Indoor Operating relative humidity: Up to 98%

Storage humidity: 5% to 95% - non condensing Storage temperature: -40°C to +70°C







included

Ordering information

XPOL-1 Commercial name: Order product code: PY-Y-WS200-04G-15 EAN number: 6009693810754

Additional accessories available

Various connectors available Installation poles and brackets available

Certification approvals and standards

UL 94-V0 Flammability rating:

EN 13823 Water ingress protection ratio/standard: IP 67 Impact resistance: IK 08 Salt spray: MIL-STD 810F/ASTM B117 Complies with UL, CE, EN, Product safety:

CSA and IEC standards

For more detailed information and availability in your region, visit our web site: usatcorp.com/poynting









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