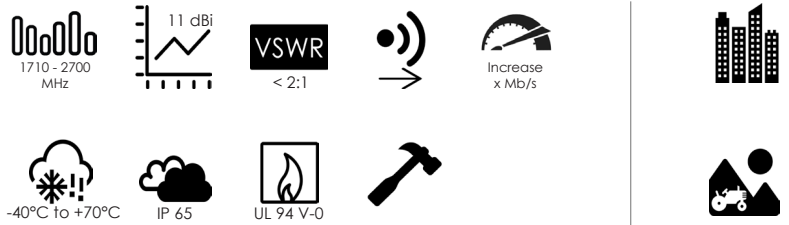


ANTENNAS | XPOL-6-10M

XPOL-6-10M

1710 - 2700 MHZ LTE MIMO ANTENNA



- Very high constant gain
- Futureproof wideband LTE antenna and Wi-Fi operational frequencies
- Backwards compatible with 3G and 2G technologies
- Two antennas in one enclosure for optimal LTE performance
- Increased connectivity stability

Product Overview

This unique antenna provides a unique solution with a constant level of very high gain for 4G, 3G and 2G networks. 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. The XPOL-6-10M 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

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


Application areas

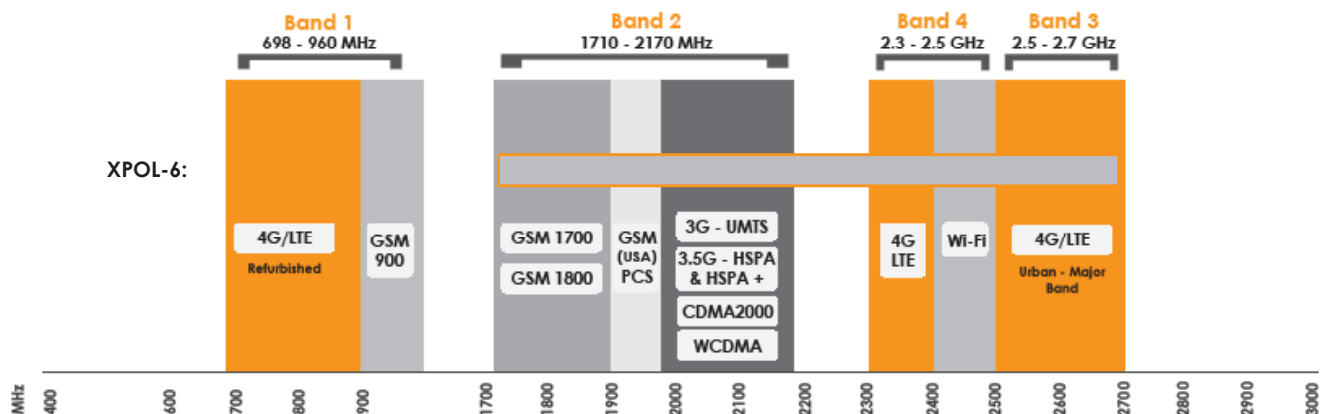
- Urban and rural areas
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility - as the antenna is wideband, a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



Frequency bands

The XPOL-6-10M is a wide-band antenna that works from 1710 - 2700 MHz

 Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

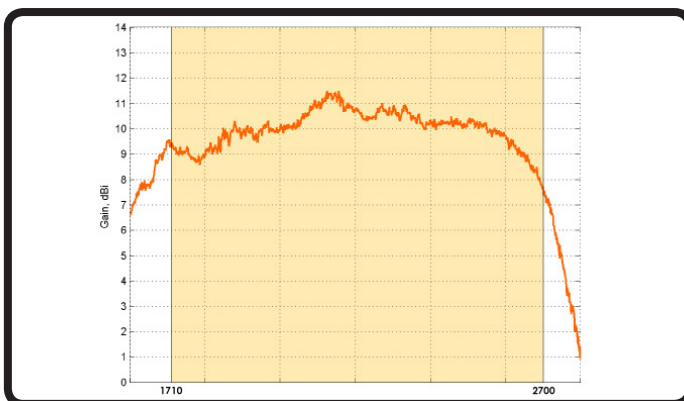


Voltage Standing Wave Ratio (VSWR)

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-6-10M delivers superior performance across all bands with a VSWR of 2:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

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

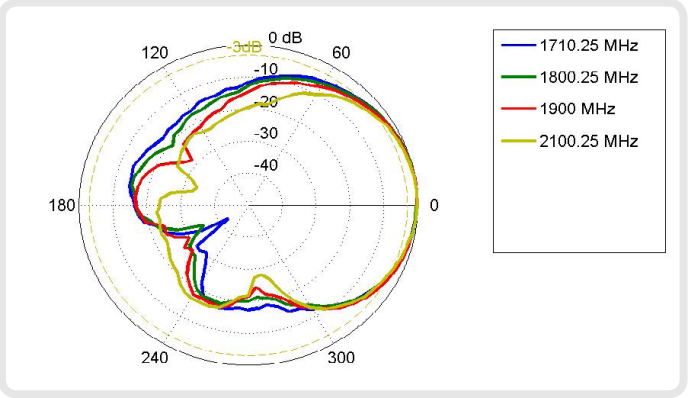
Gain @ 1710 - 2700 MHz:

11 dBi

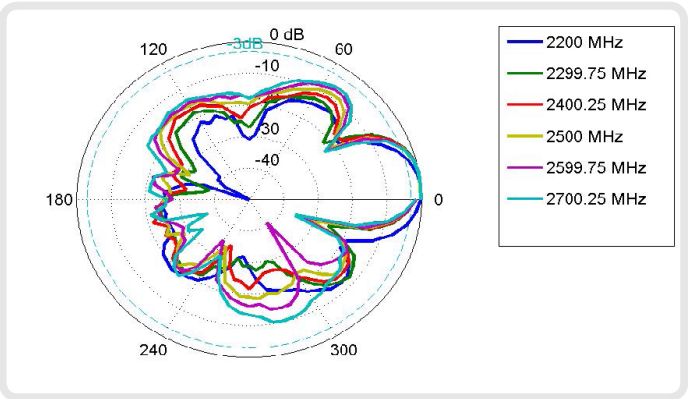
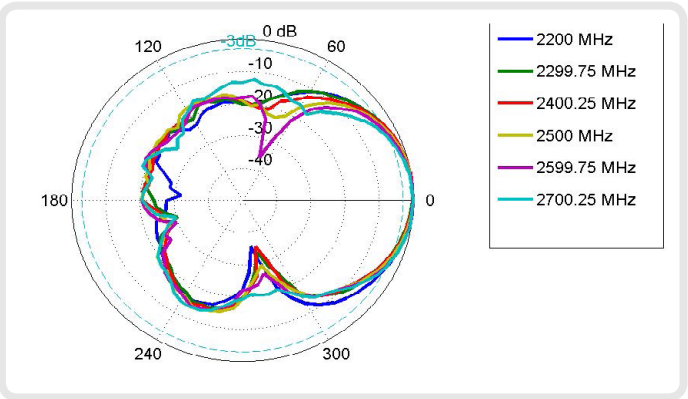
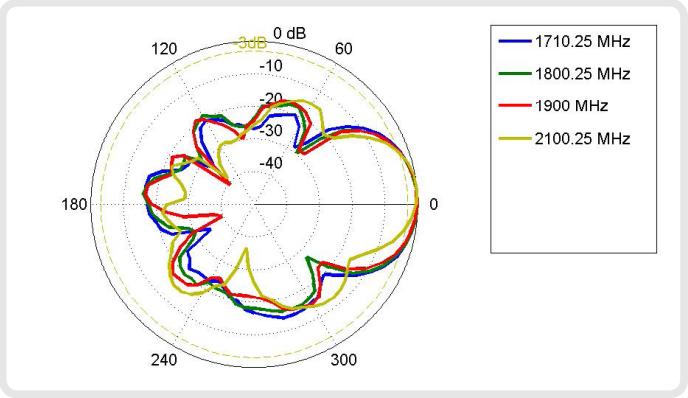
*Antenna gain measured with polarisation aligned standard antenna

Radiation Patterns

Azimuth:



Elevation:



Electrical Specifications

| | |
|-------------------------|---|
| Frequency Bands: | 1710 - 2700 MHz |
| Gain (Max): | 11 dBi |
| VSWR: | < 2:1 |
| Feed Power Handling: | 10 W |
| Input impedance: | 50 Ohm (nominal) |
| Polarisation: | + 45° and - 45° |
| Port to Port Isolation: | >15dB |
| MIMO decorrelation: | < 0.3 |
| Cable loss: | 0.35dB/m @900 MHz 0.53dB/m @ 2000 MHz 0.6dB/m @2500 MHz |
| DC Short: | Yes |

Mechanical Specifications

| | |
|---------------------------------|--------------------------------------|
| Product Dimensions (L x W x D): | 300 mm x 145 mm x 57 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) |
| Radome Colour: | Pantone - Cool Gray (1C) RAL 7047 |

Environmental Specifications

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

Product Box Contents

| | |
|---|-------------------------|
| Antenna: | A-XPOL-0006-10M |
| Mounting Bracket: | Wall or pole mount |
| Cable Length: | 10m ±5% |
| Cable Type: | Twin siamese HDF 195 |
| Connector: | 2X SMA (M) Gold plated) |
| <i>The cables and connectors are factory mounted to the antenna</i> | |



A-XPOL-0006-10M



Ordering Information

| | |
|---------------------|-----------------|
| Commercial name: | XPOL-6-10M |
| Order Product Code: | A-XPOL-0006-10M |
| EAN number: | 6009693810129 |

Additional Accessories Available

| | |
|---|-------------------|
| Extension Cables: | Up to 10m HDF 195 |
| Various connectors available | |
| Installation poles and brackets available | |

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 |

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



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XPOL-6-10M

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