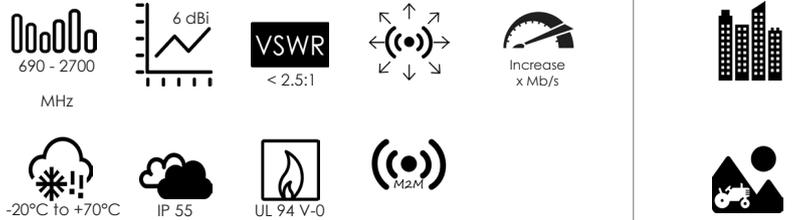


ANTENNAS | XPOL-10

XPOL-10

690 - 2700 MHZ CROSS POLARISED LTE DESKTOP ANTENNA



- Futureproof wideband LTE antenna
- Backwards compatible with 3G and 2G technologies
- Two antennas in one enclosure for optimal LTE performance
- Highly portable
- Increased connectivity stability
- Quick and compact setup

Product Overview

Poynting's LTE desktop antenna is an aesthetically pleasing, svelte unit that gives the punch of much bigger chunky antennas. This mobile broadband antenna ensures a strong 2G, 3G or 4G/LTE connection and fast transfer speeds for your mobile broadband modem or router. This cross polarised antenna enables MiMo connectivity across a huge frequency range and is ideal for use at a single location, or to provide connectivity on the move. It incorporates two separately fed ultra wideband elements in a single housing that is highly portable. Use the incorporated stand to put in your desk, hang it on to your laptop screen or stick it onto a window. If your wireless broadband speed is slow or dropping out, this desk antenna is the ideal solution for a quick and compact setup. Pop it in

Features

- Medium gain omni-directional antenna
- Wideband - covers wide frequency band
- Window, laptop and desktop mounting
- Portable desktop antenna
- Lightweight
- Two antennas in one enclosure

Application areas

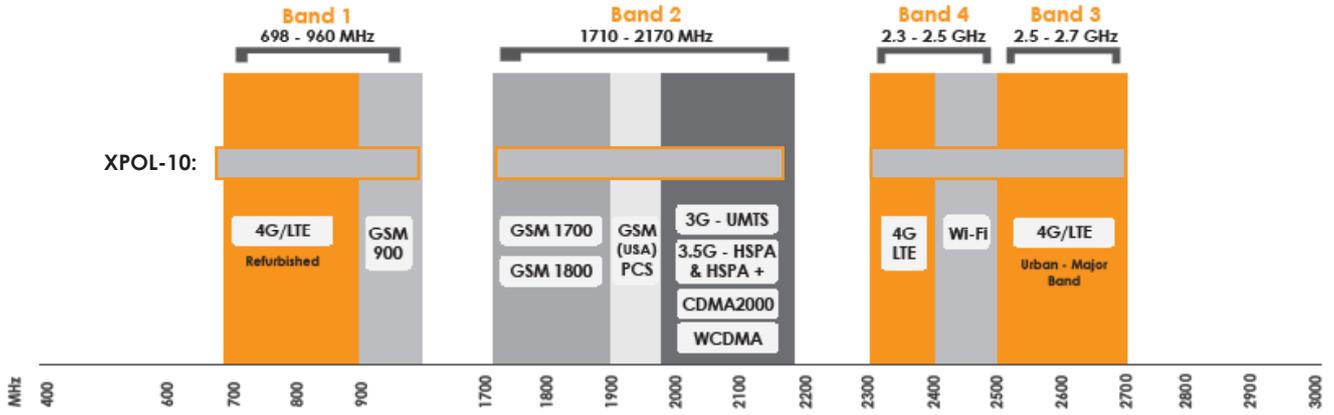
- Urban and rural areas
- On-the-go: Highly Portable
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility -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



Frequency bands

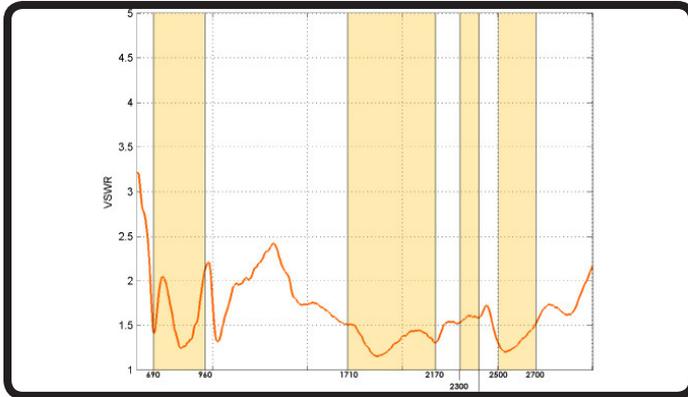
The XPOL-10 is a wide-band antenna that works from 690 - 2700 MHz

 Indicates the bands on which this antenna works



Antenna Performance Plots

VSWR:

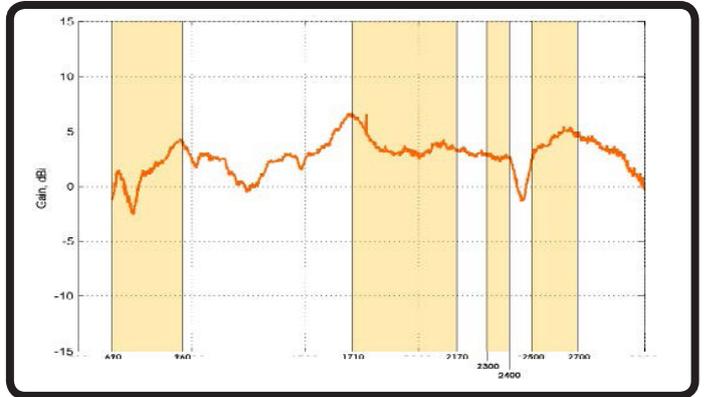


Voltage Standing Wave Ratio (VSWR)

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-10 delivers superior performance across all bands with a VSWR of 2.5:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

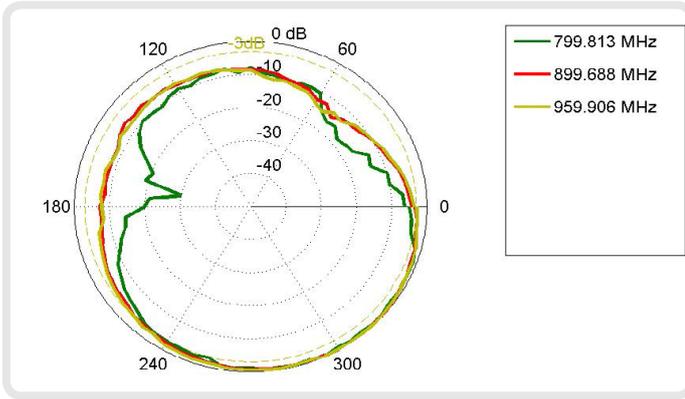
6 dBi is the peak gain across all bands from 450 - 1880 MHz

| | |
|-------------------------|---------|
| Gain @ 690 - 960 MHz: | 4 dBi |
| Gain @ 1710 - 2170 MHz: | 6 dBi |
| Gain @ 2300 - 2400 MHz: | 2.5 dBi |
| Gain @ 2500 - 2700 MHz: | 5 dBi |

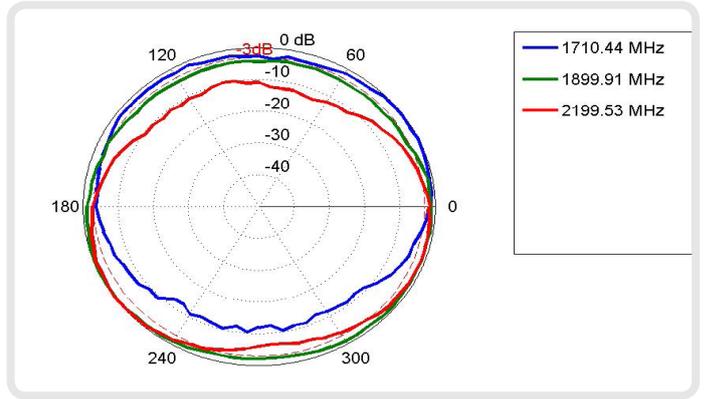
*Antenna gain measured with polarisation aligned standard antenna

Radiation Patterns

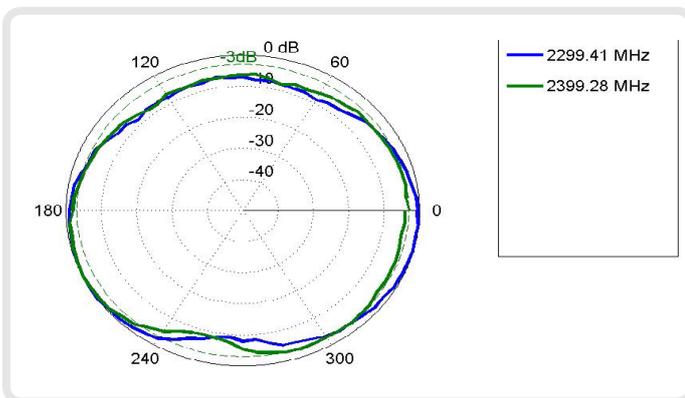
Port 2 Vertical: 800 - 1000 MHz



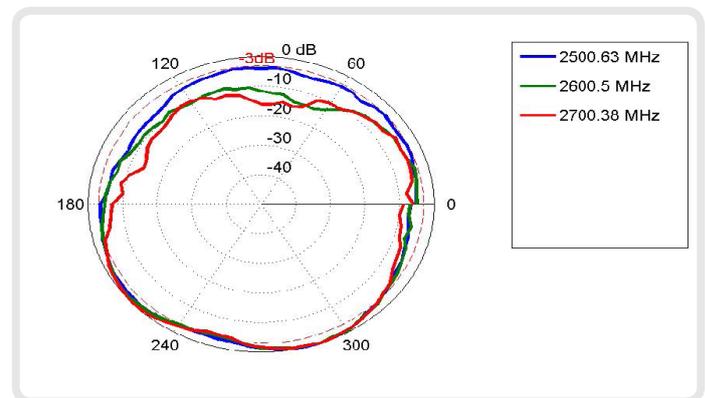
Port 2 Vertical: 1700 - 2200



Port 2 Vertical: 2300 - 2400 MHz



Port 2 Vertical: 2500 - 2700



Electrical Specifications

| | |
|-------------------------|--|
| Frequency Bands: | 690 - 960 MHz 1710 - 2170 MHz 2300 - 2400 MHz 2500 - 2700 MHz |
| Gain (Max): | 6 dBi |
| VSWR: | <2.5:1 |
| 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: | 0.85dB/m @ 900 MHz 1.29dB/m @ 2000 MHz 1.45dB/m @ 2500 MHz |
| DC Short: | Yes |

Environmental Specifications

| | |
|--------------------------------|----------------------------|
| Wind Survival: | Indoor |
| Temperature Range (Operating): | -20°C to +70°C |
| Environmental Conditions: | Indoor |
| Operating Relative Humidity: | Up to 98% |
| Storage Humidity: | 5% to 95% - non condensing |
| Storage Temperature: | -20°C to +70°C |

Ordering Information

| | |
|---------------------|---------------|
| Commercial name: | XPOL-10 |
| Order Product Code: | A-XPOL-0010 |
| EAN number: | 6009693810921 |

Additional Accessories Available

| | |
|-------------------------------|-------------------------------------|
| Extension Cables: | None |
| Various connectors available: | SMA (m) connector CRC9 connector |

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

Contact Poynting

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Samrand, 0157
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Phone: +27 (0) 12 657 0050

E-mail: sales@poynting.co.za

Mechanical Specifications

| | |
|---------------------------------|--------------------------------|
| Product Dimensions (L x W x D): | 150 x 150 x 15mm |
| Packaged Dimensions: | 155 x 155 x 45mm |
| Weight: | 0.18 kg |
| Packaged Weight: | 0.26 kg |
| Radome Material: | ABS (Halogen Free) |
| Radome Colour: | Pantone - Black RAL - Black |

Product Box Contents

| | |
|-------------------|------------------------------|
| Antenna: | A-XPOL-0010 |
| Mounting Bracket: | Window, Laptop & Desktop |
| Cable Length: | 2m |
| Cable Type: | Twin RG 174 |
| Connector: | TS9 (m) with SMA (m) adaptor |

The connector is factory mounted to the antenna



Desktop-stand



Window-mount



Laptop-mount

Certification Approvals and Standards

| | |
|--|--|
| Flammability rating: | UL 94-V0 EN 13823 |
| Water Ingress Protection Ratio/Standard: | IP 55 (NEMA 4X) |
| Impact resistance: | IK 08 |
| Salt Spray: | MIL-STD 810F /ASTM B117 |
| Product Safety: | Complies with UL, CE, EN, CSA and IEC standards |



XPOL-10

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Product Specifications may change without prior notice
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Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2008
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