

ANTENNAS | XPOL-6 SERIES

X-POLARISED, HIGH GAIN, DIRECTIONAL LTE ANTENNA

1710 – 2700 MHz, 11 dBi



APPLICATION AREAS

- Cross-polarised with high-gain for LTE applications
- Futureproof wideband LTE antenna and Wi-Fi operational frequencies
- 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 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. This is done by incorporating two separately fed ultra-wideband elements in a single housing, which is a cost-effective 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).

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

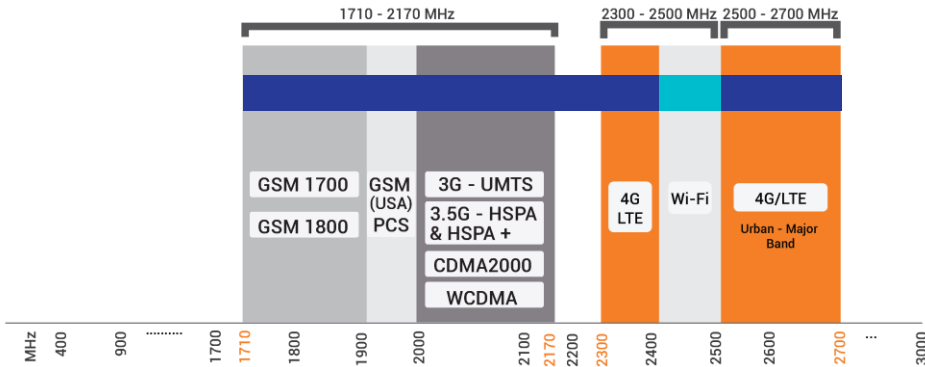
Application Areas

- 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

	
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
Feed Power Handling:	10 W
Input Impedance:	50 Ohm (nominal)
Polarisation:	+ 45° and - 45°
Coax Cable Loss:	0.565 dB/m @ 1800 MHz 0.666 dB/m @ 2400 MHz
Path to Ground:	Yes

Product Box Contents

Antenna:	A-XPOL-0006-10M
Mounting Bracket:	Pole or wall mounting 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)
Radome Colour:	Pantone – Cool Gray (1C) RAL 7047
Mounting Type:	Wall and Pole Mount

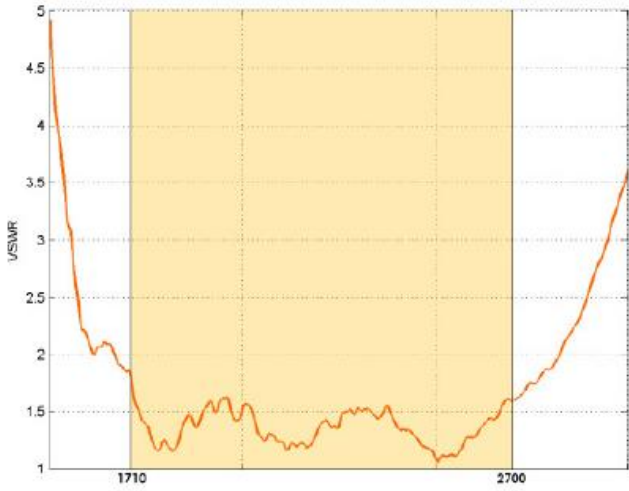
Environmental Specifications, Certification & Approvals

Antenna Wind Survival:	<120 km/h
Temperature Range (Operating):	-40°C to +80°C
Environmental Conditions:	Outdoor/Indoor
Ingress Protection:	IP 65
Salt Spray:	MIL-STD 810G/ASTM B117
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non-condensing
Storage Temperature:	-40°C to +80°C
Enclosure Flammability Rating:	UL 94-HB
Impact Resistance:	IK 08
Product Safety & Environmental:	Complies with CE and RoHS standards



Antenna Performance Plots

VSWR



GAIN (EXCLUDING CABLE LOSS)



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.

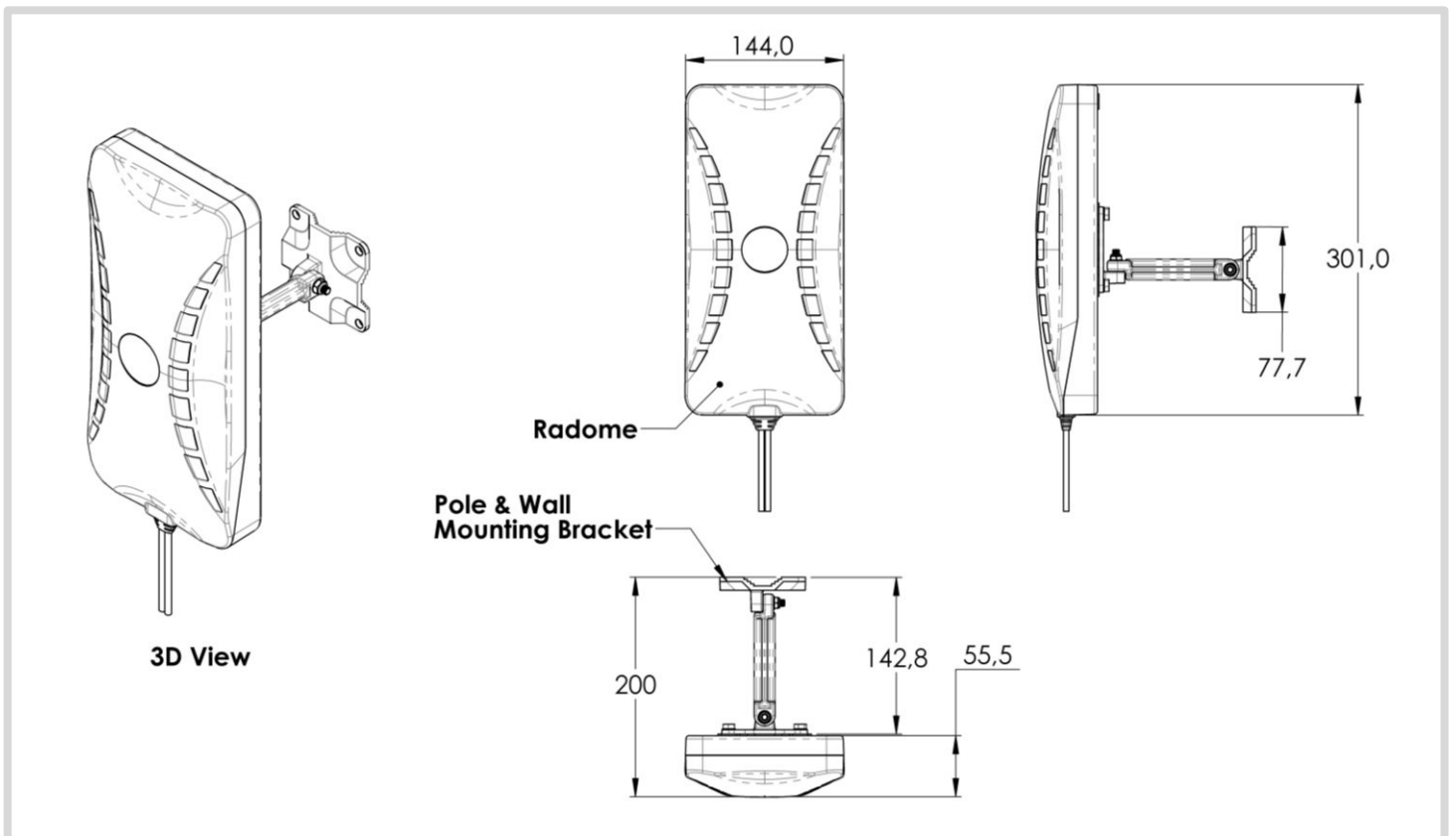
Gain* in dBi

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

Gain @ 1710 – 2700 MHz: 11 dBi

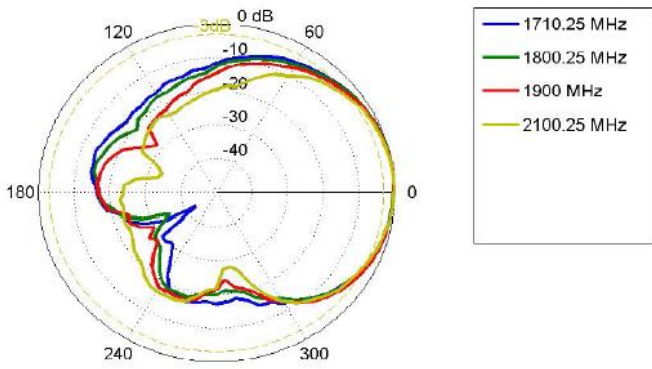
*Antenna gain measured with polarisation aligned standard antenna

Technical Drawings

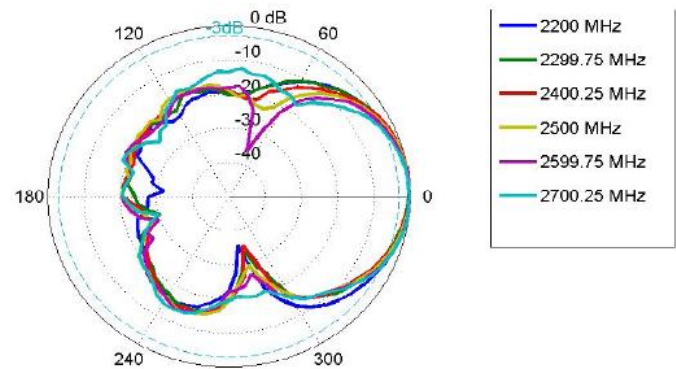


Radiation Patterns

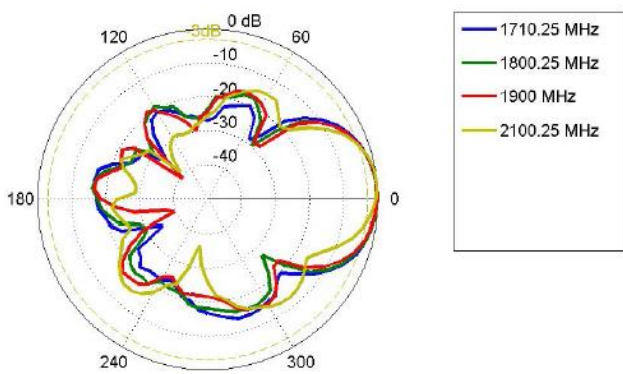
Azimuth: 1710 - 2100 MHz



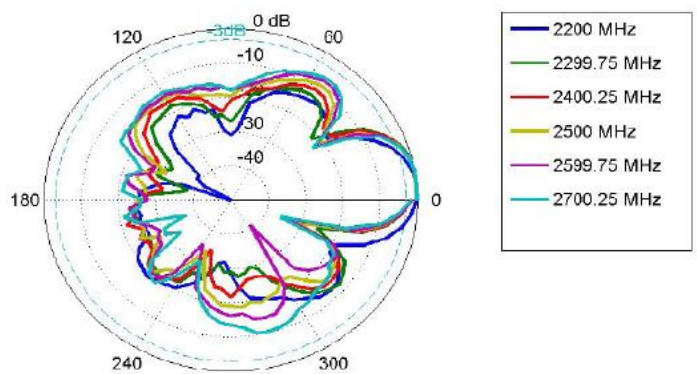
Azimuth: 2200 - 2700 MHz



Elevation: 1710 - 2100 MHz



Elevation: 2200 - 2700 MHz



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

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