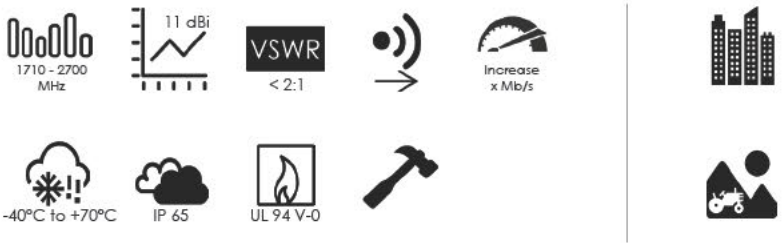
ANTENNAS | XPOL-6-10M

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 solotion 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 freqeuncy band
- Wall or pole mountable
- Lightweight
- Two antennas in one enclosure

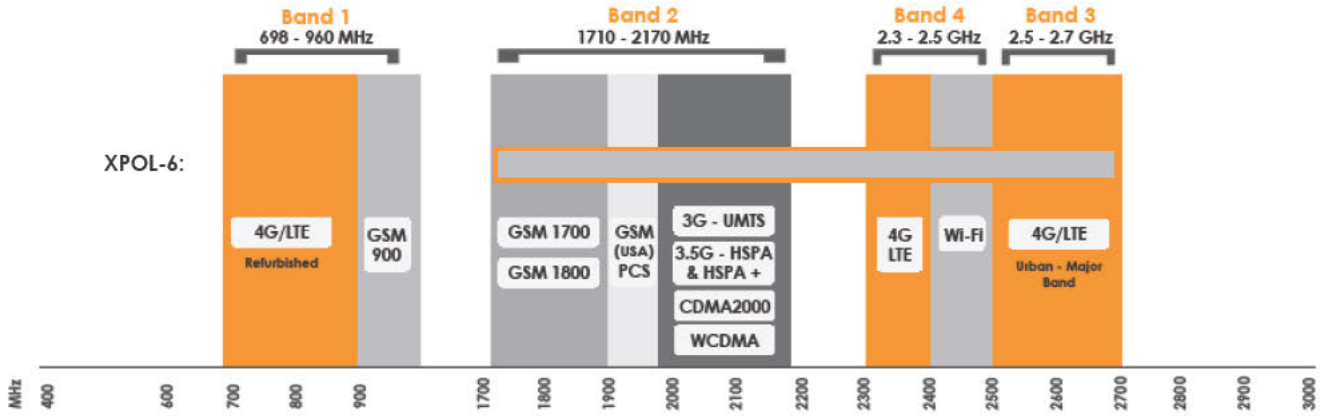
Application areas

- 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 antennas is wideband, a new antenna is not needed per network operator - works on most networks

Frequency bands

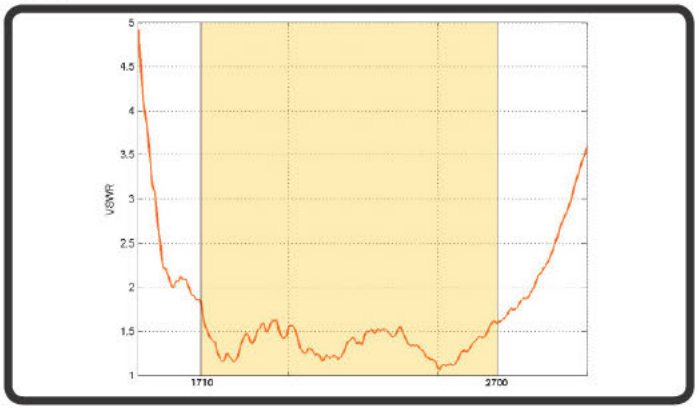
The XPOL-6-10M is a wide-band antenna that works from 1710 - 2700 MHz

Indicates the bands on which this antenna works



Antenna Performance Plots

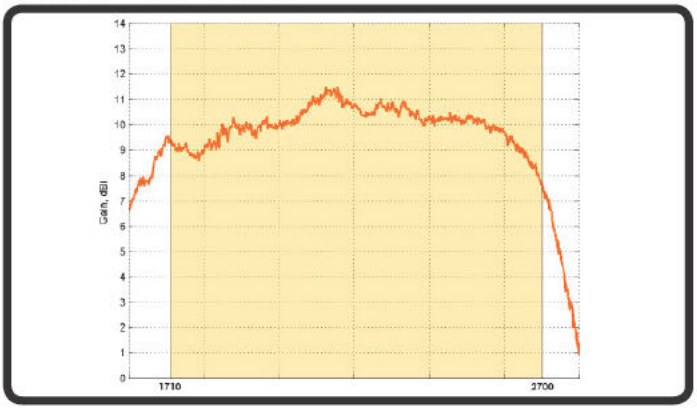
VSWR:



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 accross all bands with a VSWR of 2:1 or better.

Gain: (excluding cable loss)



Gain* in dBi

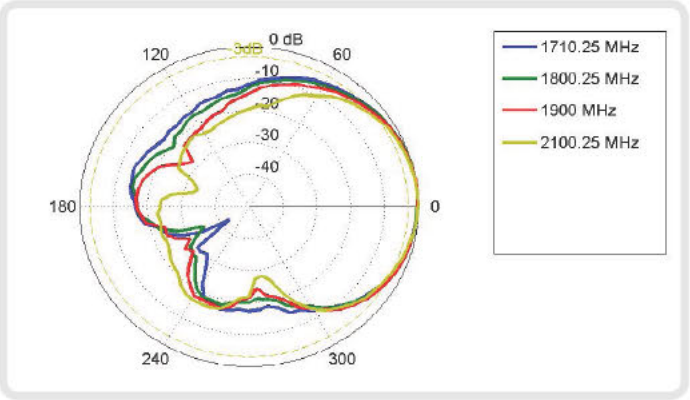
11dBi is the peak gain across all bands from 1710 - 2700 MHz

Gain @ 1710 - 2700 MHz: 11 dBi

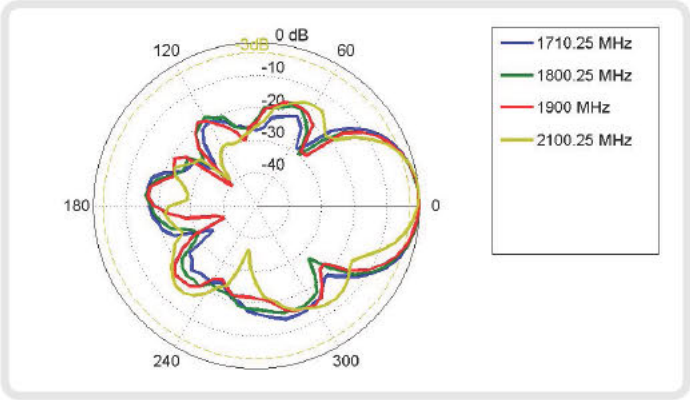
*Antenna gain measured with polarisation aligned standard antenna

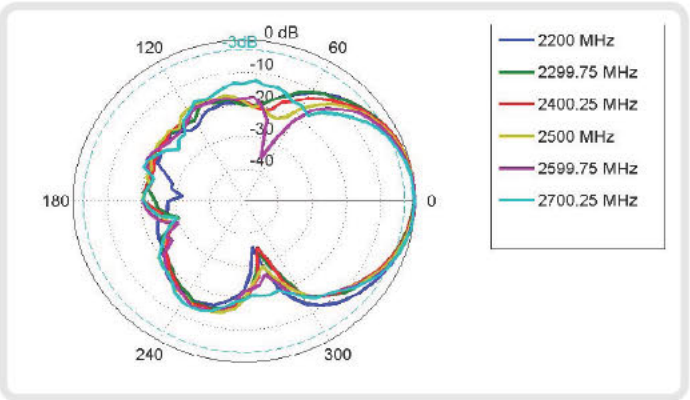
Radiation Patterns

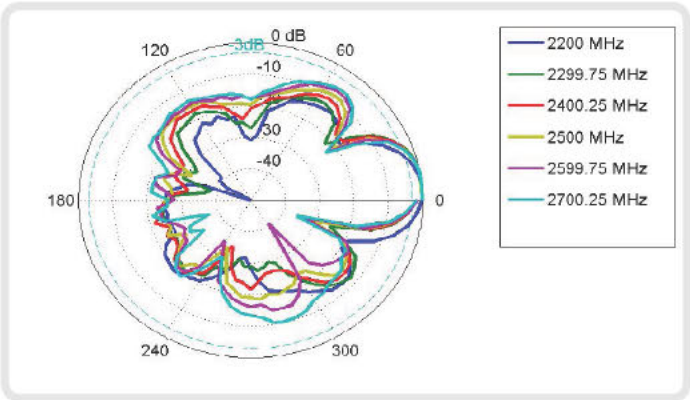
Azimuth:



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
Cable Type:	Twin siamese HDF 195
Connector:	2X SMA (M)Gold plated)

The cables and connectors are factory mounted to the antenna

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

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