

ANTENNAS | XPOL-13 SERIES

X-POLARISED, UNI-DIRECTIONAL 5G/CBRS ANTENNA

3400 – 3800 MHz, 10.5 dBi



- 2x2 MIMO for optimal performance in 3.4 – 3.8 GHz CBRS Band
- Improves mobile network subscriber's user experience
- Increased connectivity stability
- Rugged enclosure design
- Weather, dust, and vandal resistant enclosure (IP65)



Product Overview

The XPOL-13 antenna provides an innovative solution for the signal enhancement of LTE/WiMAX/CBRS networks. The XPOL-13 is a cross-polarised, uni-directional high-performance antenna that can be window, wall- or pole-mounted. The antenna is equipped to provide to provide client-side MIMO and diversity support for the network of today and tomorrow, by incorporating two separately fed elements within a single housing. The 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.

Features

- High gain, uni-directional antenna
- New 3400 to 3800MHz for CBRS band
- X-Polarised for 2x2 MIMO and improved performance
- Window, wall, or pole mountable
- Lightweight & Rugged design
- Weatherproof (IP65)

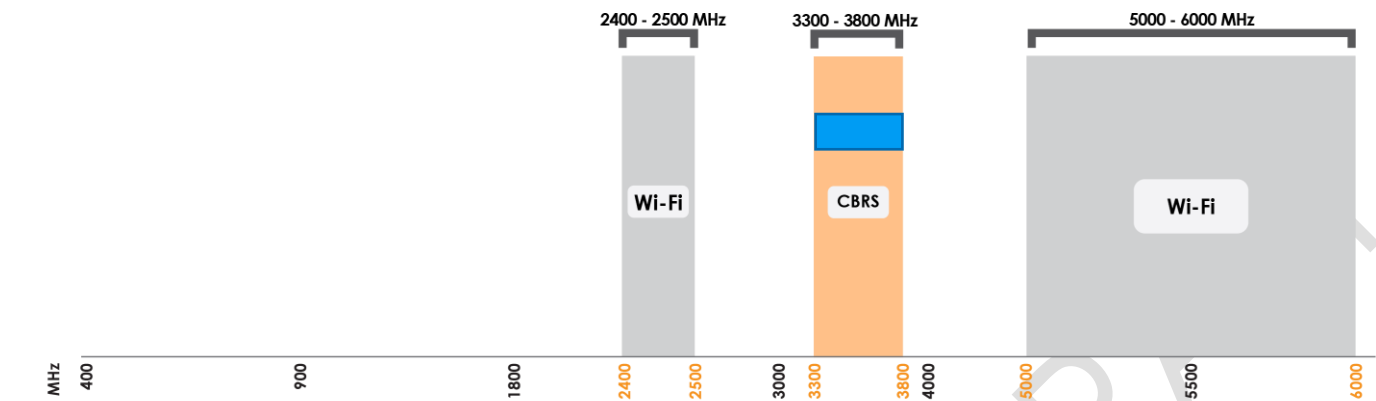
Application Areas

- Outdoor antenna for Fixed Wireless Access (FWA)
- Residential and Small to Medium Business
- Small offices in semi underground areas
- Urban household reception enhancement
- Increase system transmission reliability
- Municipal & Government systems




Frequency Bands

The XPOL-13 is a uni-directional antenna that works from 3400 – 3800 MHz



 Indicates the LTE/5G bands on which XPOL-13 works

Antenna Overview

	
Ports	2
SISO / MIMO	2x2 MIMO
Frequency Bands	3400 – 3800 MHz
Polarisation	+ 90° and - 90°
Peak Gain	10.5 dBi
Coax Cable Type	HDF-195
Coax Cable Length	5m
Connector Type	SMA (M)

Electrical Specifications

Frequency band:	3400 – 3800 MHz
Gain (max):	10.5 dBi
VSWR:	<1.5:1
Feed power handling:	10 W
Input impedance:	50 Ohm (nominal)
Polarisation:	+ 90° and – 90°
Coax cable loss:	0.75dB/m @ 3500 MHz 0.78dB/m @ 3800 MHz
DC short:	Yes

Coax Cable & Connector Type

Cable length:	5m
Coax cable type:	Twin HDF 195
Connector type:	SMA (Male)

**The coax cable & connector is factory mounted to the antenna*

Product Box Contents

Antenna:	A-XPOL-0013-V2-01
Mounting bracket:	Pole/Wall mounting bracket and window suckers included

Ordering Information

Commercial name:	XPOL-13
Order product code:	A-XPOL-0013-V2-01
EAN number:	6009710923528

Mechanical Specifications

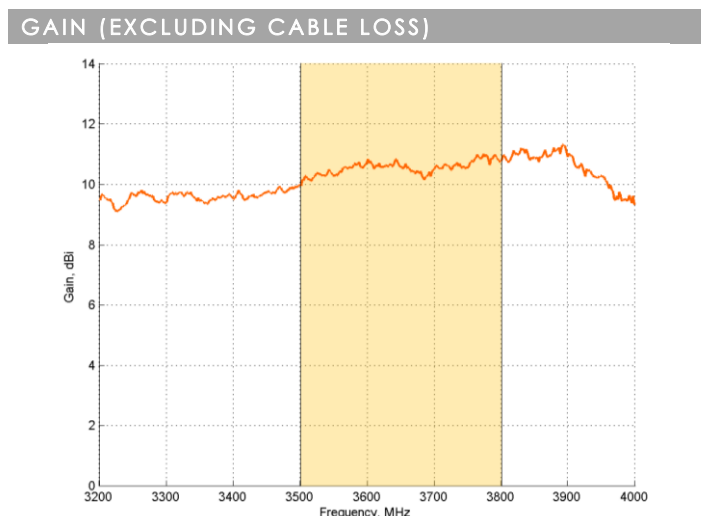
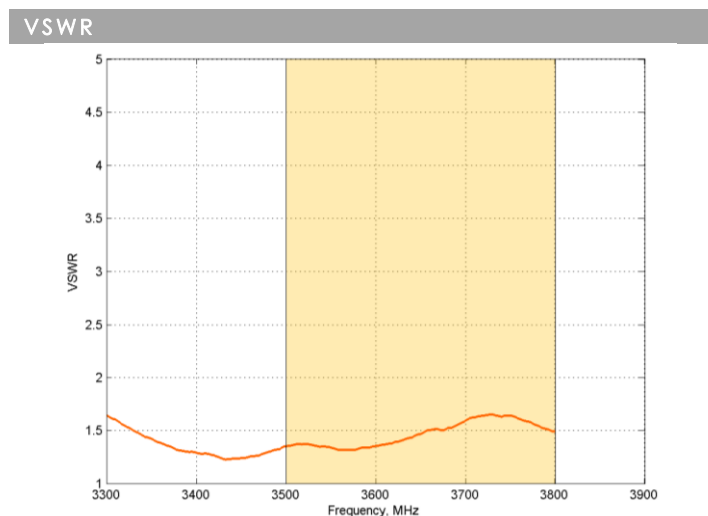
Product dimensions	247 mm x 157 mm x 88 mm
Packaged dimensions:	270 mm x 190 mm x 100 mm
Radome material:	UV Stable ASA
Radome colour:	Brilliant White Pantone P 179-1 C
Mounting Type:	Wall, pole, and window mount

Environmental Specifications, Certification & Approvals

Wind Survival:	≤250 km/h
Temperature Range (Operating):	-40°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Water ingress protection ratio/standard:	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 +70°C
Enclosure Flammability Rating:	UL 94-HB
Impact resistance:	IK 10
Product Safety & Environmental:	Complies with CE and RoHS standards



Antenna Performance Plots



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-13 delivers superior performance across all bands with a VSWR of 2:1 or better across 90% of the bands.

*VSWR measured with a 5m low loss cable.

Gain* in dBi

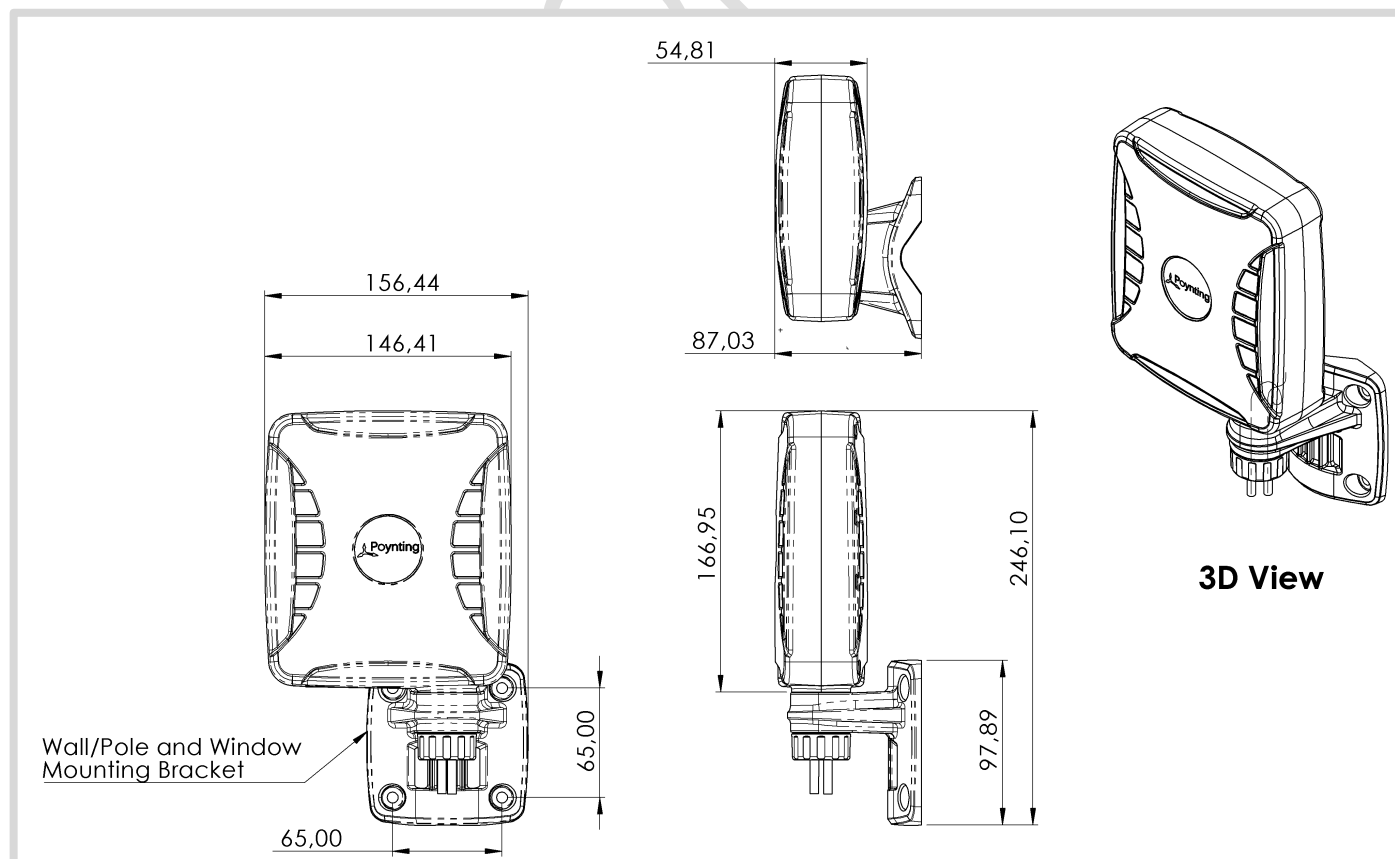
10.5 dBi is the peak gain across all bands from [ANTENNA BANDS]

Gain @ 3400 – 3800 MHz:

10.5 dBi

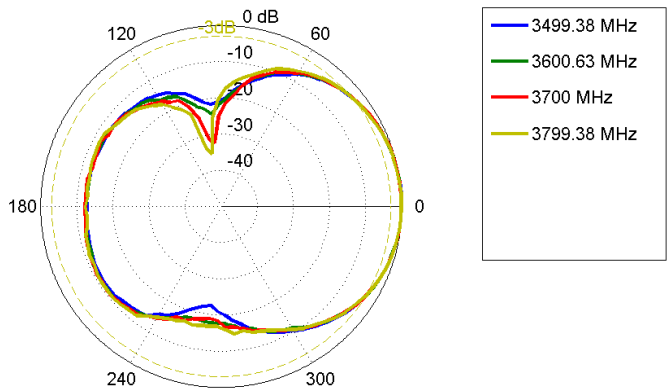
*Antenna gain measured with polarisation aligned standard antenna

Technical Drawings

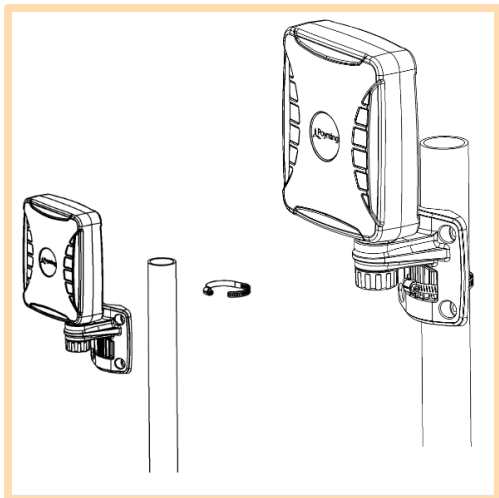


Radiation Patterns

Azimuth: 3400 – 3800 MHz

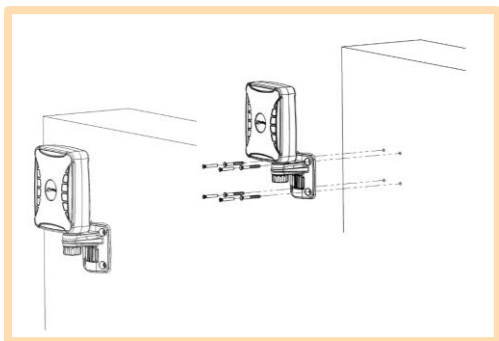


Mounting Options



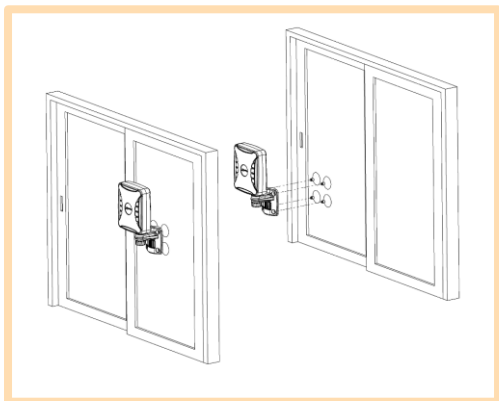
Pole Mount

Pole/Wall mounting bracket used with pipe clamp (included)



Wall Mount

Pole/Wall mounting bracket used with pipe clamp (included)



Desk Mount

Pole/Wall mounting bracket used with pipe clamp (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

Contact Poynting

Poynting Antennas (Pty) Ltd - Head Office

Unit 4, N1 Industrial Park
Landmarks Avenue,
Samrand, 0157
South Africa

Phone: +27 (0) 12 657 0050

E-mail: sales@poynting.co.za

Poynting Europe

Regus Business Center Neue Messe Riem
Kronstadter Straße 4
81677 München
Germany

Phone: +49 89 208026538

E-mail: sales-europe@poynting.tech