













# USL-1007320 5G OMNI DIRECTIONAL 2x2 ANTENNA

X-POLARISED, OMNI-DIRECTIONAL, LTE MIMO ANTENNA

698 - 3800 MHz, 3 dBi



						
698 - 960 MHz; 1710 - 2700 MHz; 3400 - 3800 MHz	3 dBi	Increase x Mb/s	Omn - Directional	Machine to Machine	4G LTE	5G Ready
						
Chemical Protection	IP 65	-40°C to +80°C	Fire Resistant	2X2 MIMO or 4X4 MIMO		

APPLICATION AREAS

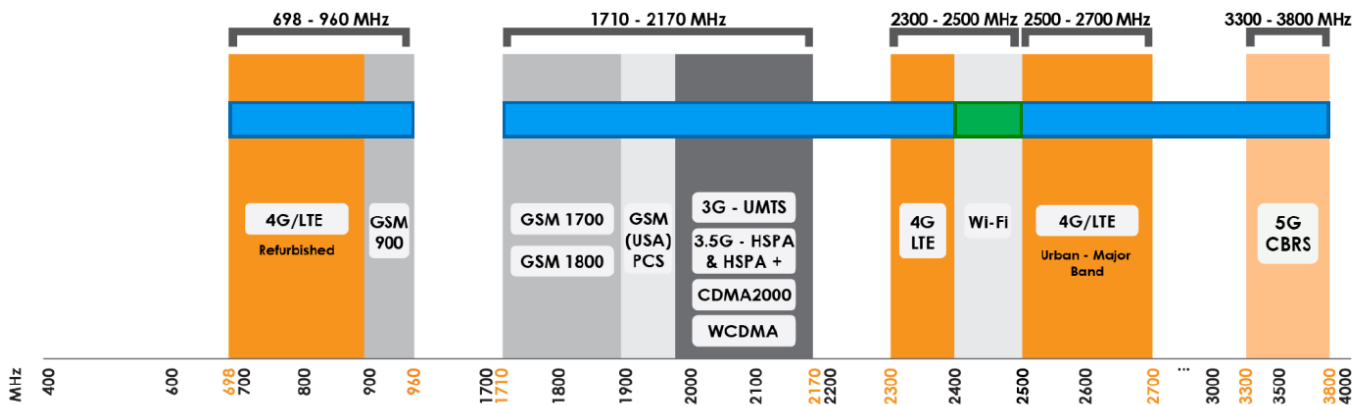


Urban



Rural/Farm

- Exceptional performance over the main 4G/5G bands
- High gain for the antenna size
- Wideband 2X2 or 4X4 MIMO 4G/5G antenna
- Backwards compatible 2G/3G/4G/LTE antenna (5G Ready)
- Weather, dust and vandal resistant enclosure (IP 65)



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## Electrical Specifications

Frequency bands:	698 – 960 MHz 1710 -2700 MHz 3400-3800 MHz
Gain (max):	3 dBi
VSWR:	≤2.5:1
Feed power handling:	20 W
Input impedance:	50 Ohm (nominal)
Polarisation:	Cross Polarised
Coax cable loss:	0.385 dB/m @ 900 MHz 0.565 dB/m @ 1800 MHz 0.666 dB/m @ 2400 MHz 0.788 dB/m @ 3000 MHz
DC short:	Yes, path to ground

## Product Box Contents

Antenna:	A-XPOL-0001-V2
Mounting bracket:	Pole and wall mount

## 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

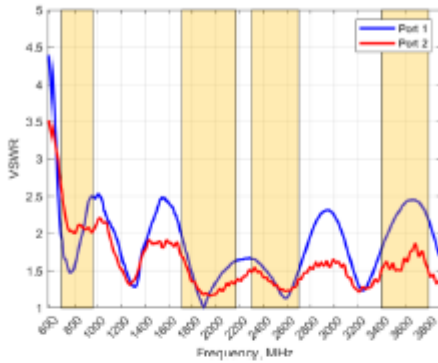
Wind Survival:	≤250 km/h <small>*except for window mount configuration</small>
Temperature Range (Operating):	-40°C to +70°C
Environmental Conditions:	Outdoor/Indoor
Water ingress protection ratio/standard:	IP 65
Salt Spray:	MIL-STD 810G/ASTM B117
Operating Relative Humidity:	Up to 98%
Storage Humidity:	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



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## Antenna Performance Plots

VSWR

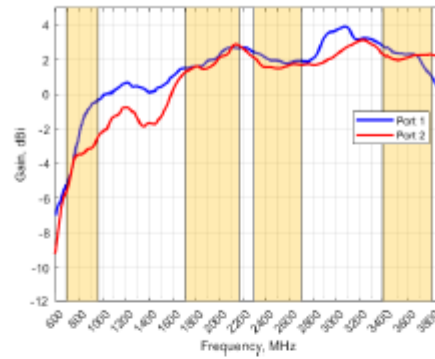


### Voltage Standing Wave Ratio (VSWR)

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-1-5G delivers superior performance across all bands with a VSWR of  $\leq 2.5:1$ .

GAIN (EXCLUDING CABLE LOSS)

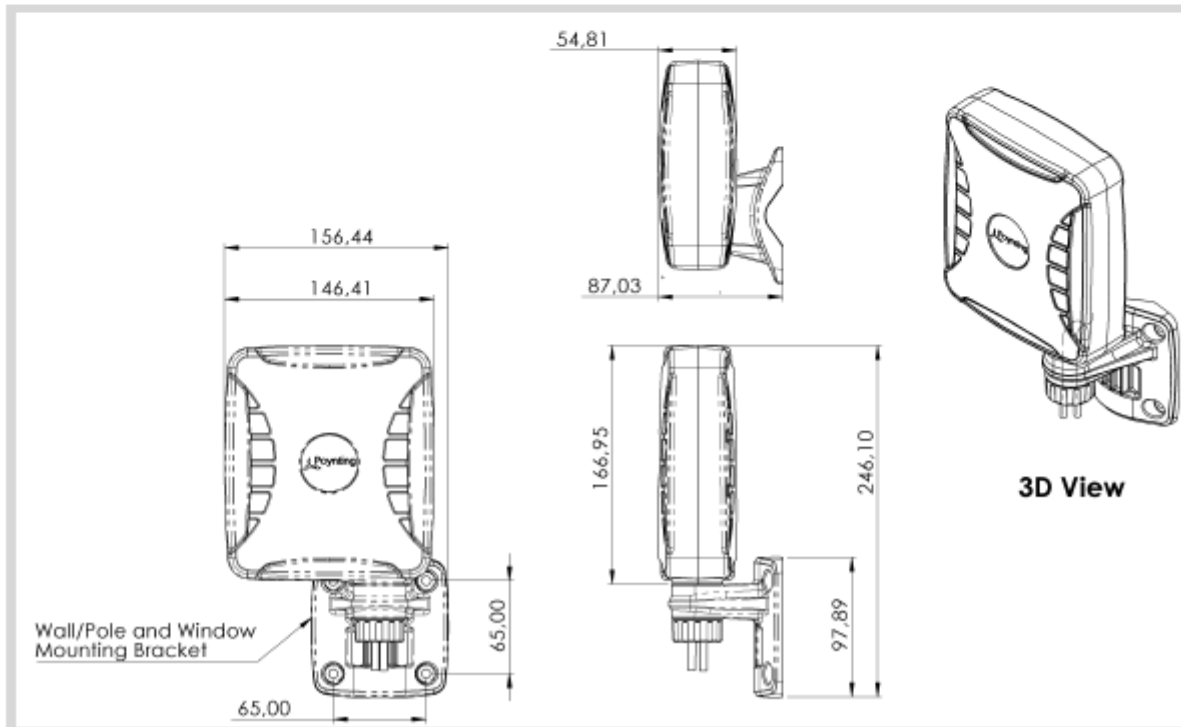


### Gain\* in dBi

3 dBi is the peak gain across all bands from 698 – 3800 MHz

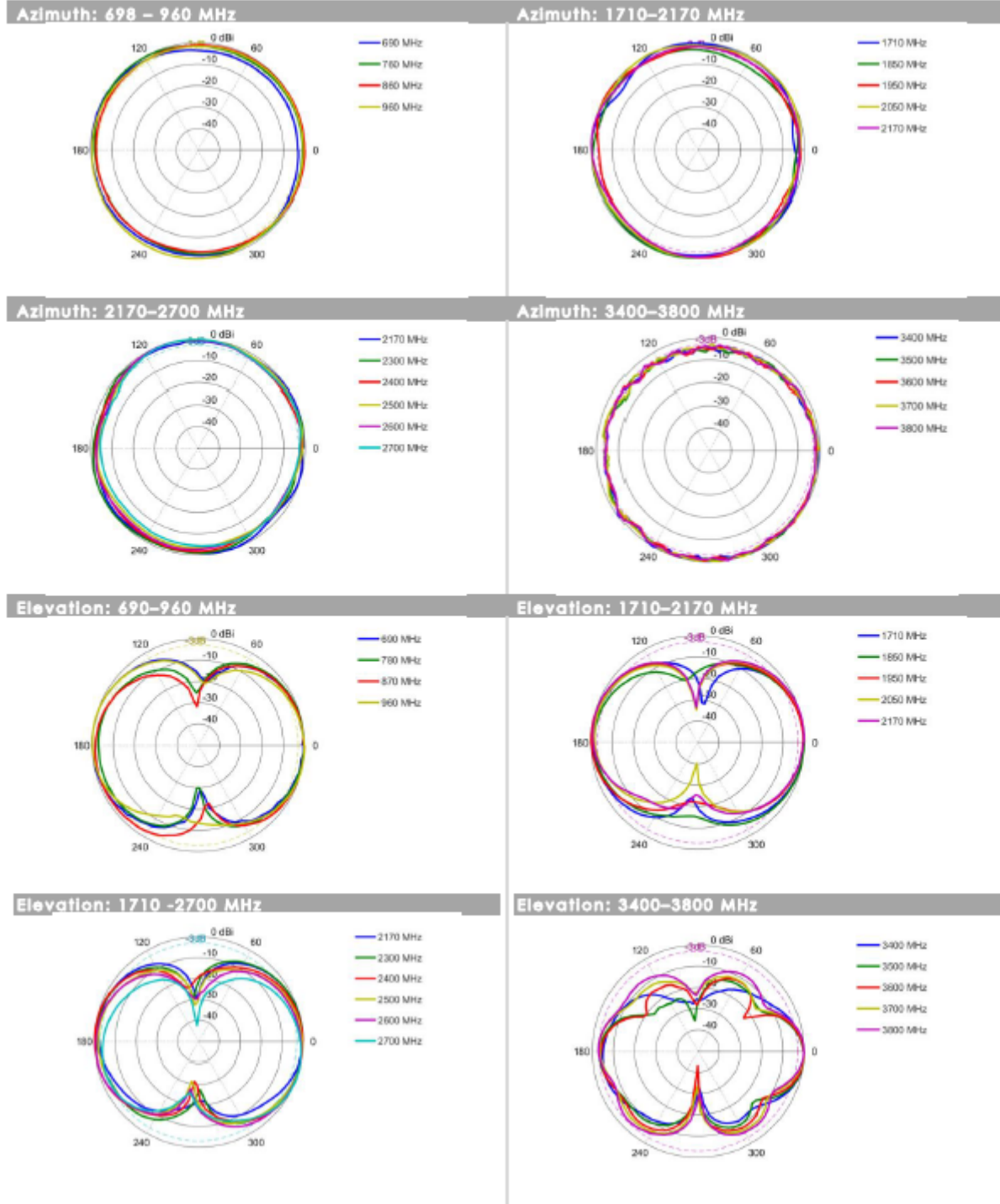
\*Antenna gain measured with polarisation aligned standard antenna

## Technical Drawings



# USL-1007320 5G OMNI DIRECTIONAL 2x2 ANTENNA

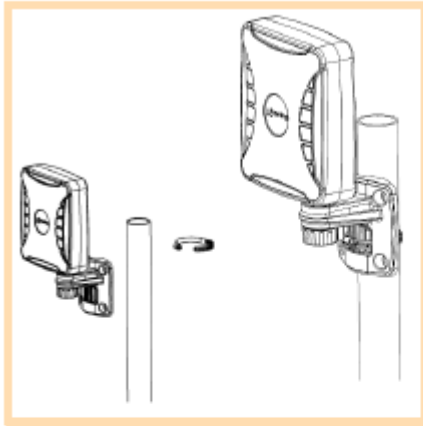
## Radiation Patterns



# USL-1007320 5G OMNI DIRECTIONAL 2x2 ANTENNA

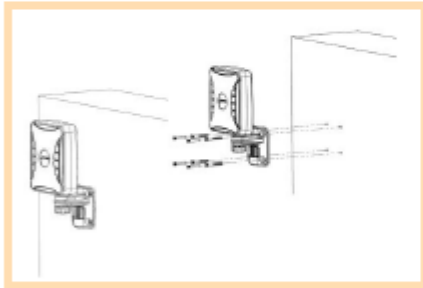
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## Mounting Options



### Pole Mount

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



### Wall Mount

Pole/Wall mounting bracket using knock-in screws (included)



### Window Mount

Pole/Wall mounting bracket used with window suckers (included)