

5G LTE MIMO Panel Antenna

LTE-XPOL-002-5G



The LTE-XPOL-002-5G is the third generation of this very popular Cross Polarised (LTE-XPOL-002-V2), cellular band, 2x2 MIMO antenna. The antenna enclosure effectively looks the same as the second generation "V2" but has been completely redesigned on the inside. We have used advanced metamaterial technology, making use of Artificial Magnetic Conductors (AMC) and new registered/patent pending radiator configuration, which is proving to yield exceptional improvements in bandwidth and gain. Radiation patterns of this antenna are exceptionally well controlled, further adding to the performance of the antenna.

The LTE-XPOL-002-5G antenna includes the newer 3400 - 3800 MHz bands, which were not previously covered by our V2 and is suitable for 2G, 3G, 4G & 5G. This antenna performs exceptionally well in the following frequency bands: 698 – 960MHz, 1700 – 2170MHz, 2300 – 2700MHz & 3400 – 3800MHz. In addition to the new bands, the gain in the 1700MHz and 2.7GHz is around 3dB higher than the "V2" over the same frequency bands!

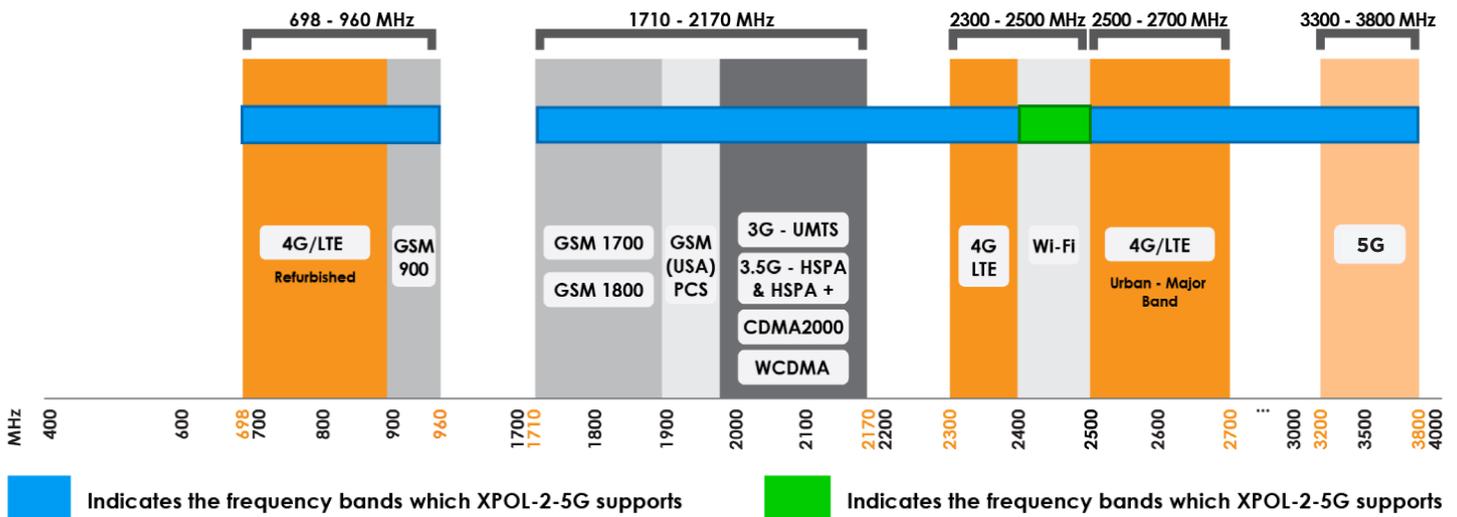


Features:

- 2-3dB higher gain over all the bands compared to "V2"
- New 3400MHz-3800MHz, 5G band with 11dBi gain
- Consistent broadband performance
- X-Polarised 2x2 MIMO antenna
- Wall or pole mountable
- Lightweight & rugged
- Weatherproof & waterproof (IP65)
- High pattern consistency across bands for 4G/5G carrier aggregation

Frequency Bands - Cellular & Wi-Fi:

The XPOL-2-5G is suitable for the following Cellular frequency bands, 698-960MHz, 1710-2170MHz, 2300-2500MHz, 2500-2700MHz, 3400-3800MHz and the following Wi-Fi frequency bands, 2400-2500MHz.



Electrical

Model	LTE-XPOL-002-5G		
	Band 1	Band 2	Band 3
Frequency MHz	698-960	1710-2700	3400-3800
Gain (peak) dBi	9	10	11
VSWR	<1.5:1 (over 95% of the band)		
Impedance Ω	50		
Polarisation	±45°		

Electrical

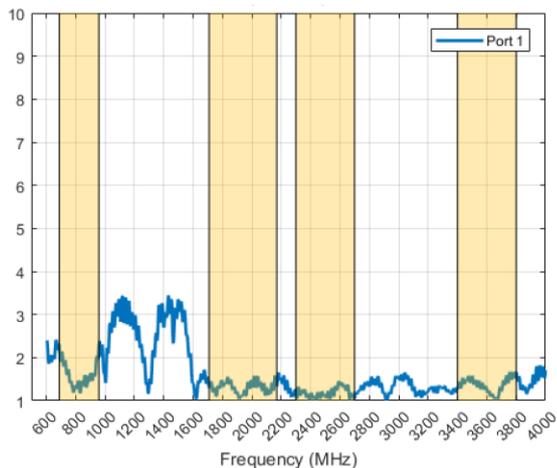
Model	LTE-XPOL-002-5G	
Dimensions mm	255 x 255 x 80	
Weight kg	1.55	
Radome Material	UV Stable SAN Marine ASA	
Radome Colour	Brilliant White (Pantone P 179-11 C)	
Mounting	Wall or Pole Mountable (Z-shape mounting bracket included)	
Pole Mounting Dia. mm	20-50	
Cable / Connector	10m Twin HDF-195 terminated with SMA male connectors	

Environmental

Model	LTE-XPOL-002-5G	
Wind Survival	Antenna wind survival: <250 km/h Included Z-bracket wind survival: <160 km/h Optional bracket BRKT-030* is required for wind speeds of <250 km/h	
Temperature Range °C	-40 to +80	
Water Ingress	IP65	
Salt Spray	MIL-STD 810F / ASTM B117	
Humidity	Up to 98%	
Flammability Rating	UL 94-HB, ECE-R118.02 Certified Cables	
Impact Resistance	IK08	

*BRKT-030 is an optional accessory which is required for high wind areas of up to 250 km/h. The BRKT-030 required 4 x M⁶ x 20mm bolts for installation (not included).

Typical VSWR



Typical Gain

