

## HybridLine Panel Antenna with Dual band LTE450 and LTE700/800/850 | X-Pol | 72° | 12 dBi / 14 dBi | Remote Electrical Tilt

### DESCRIPTION

This new dual band antenna is a part of our new "HybridLine" cross polarized panel antennas series covering LTE450 and LTE700/800/850. The antenna has been designed to offer a very stable radiation pattern over two separate bands of operation. This approach enables the use of the antenna for multi carrier operation, and for use where site sharing is also a requirement. The antenna features carefully selected high quality components throughout including the main housing of the antenna being made from corrosion resistant marine grade aluminium and sustainable glass fiber shroud. The antennas compact design gives very low wind loading characteristics, and combined with the low weight of the antenna, aids in the reduction of structural loading. The horizontal beamwidth of the antenna has been carefully chosen to suit tri-sector installation in combined or multi-sector configurations.

- Dual band Panel Antenna for LTE450 and LTE700/800/850.
- 2 ports on LTE450 and 4 ports on LTE700/800/850.
- AISG Remote electrical tilt (RET) on both bands.
- Horizontal Beamwidth optimised for tri-sector configuration.
- Fully enclosed / extruded glass fiber shroud for improved weather protection.
- Patented internal RET actuator adds no additional length to the antenna.

### SPECIFICATIONS

Electrical		
Model	XPA U2-L4-2.0	
Frequency	380 - 470 MHz (R1)	698 - 960 MHz (R2, R3)
Max. Input Power	400 W	300 W
Connectors Per Band	2	4
Polarisation	±45°	±45°
Electrical Tilt	0 - 10°, RET AISG	2 - 12°, RET AISG
Impedance	50 Ω	
Inter-band Isolation	> 27 dB	> 27 dB
Intra-band Isolation	> 25 dB	> 25 dB
VSWR	< 1.5:1	< 1.5:1
Cross Polar Discrimination	> 26 dB	> 26 dB
Passive Intermodulation	IM3 (2 x 20 W carrier) : < -153 dBc	

Electrical Specifications, R1			
Frequency	380 - 430 MHz	430 - 450 MHz	450 - 470 MHz
Gain	12.8 ±0.6 dBi	12.8 ±0.4 dBi	13.1 ±0.2 dBi
Azimuth Beamwidth	77.7° ±2.9	77.1° ±4.4	70.6° ±4.9
Elevation Beamwidth	22.0° ±3.3	19.3° ±2.0	18.7° ±2.6
Front-To-Back Ratio	>20 dB		

Electrical Specifications, R2, R3			
Frequency	698 - 806 MHz	790 - 862 MHz	880 - 960 MHz
Gain	13.7 dBi ±1.6	14.3 dBi ±1.0	14.8 dBi ±0.9
Azimuth Beamwidth	78.7° ±14.2	73.9° ±10.8	76.1° ±7.5
Elevation Beamwidth	12.9° ±1.9	11.3° ±1.5	10.4° ±1.1
Front-To-Back Ratio	>20 dB	>25 dB	>25 dB
Upper Sidelobe Suppression, peak to 20°	>14.5 dB		



Mechanical	
Connection(s)	6 x 4.3/10(f) in antenna base
Radome Material / Colour	GRP Extrusion RAL 7035 Light Grey
Dimensions	1998 x 549 x 220 mm / 78.66 x 21.61 x 8.66 in.
Weight	36 kg / 79.32 lbs
Environmental	
Operating temperature range	-40 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP56
Wind Load (150 km/hr)	Frontal:705N Lateral: 307N Rearside: 741N Maximum 1270N @ 110/250°
RET System	
RET Connections	2 x 8 Pin Circle Connector According To IEC 60130-9 And AISG. Daisy Chain In : (m) Daisy Chain Out : (f) Pin 3 : RS485+ Pin 5 : RS485- Pin 6 : 10~30V Pin 7 : GND connector (f) : 8 PINS connector (m) : 5 PINS
Power Consumption	< 2 W (standby) < 10 W (motor actived)
Supply Voltage, RET	10 - 30 V DC
Adjustment Time (Full Range)	≤ 90 s (typical, depending on Antenna type)
Angular Accuracy for shaft turn	Angular Accuracy ≤ 0.5 °
Protocols	Compliant With AISGV2.0 And 3GPP
Remote control	Can management from OMC, BTS/Node B
Daisy chaining method	Ready for daisy-chaining
Hardware Interface	RS485 and Power
Lifetime/Adjustment Cycles	> 20000

### ORDERING

Model	Product No.
XPA U2-L4-2.0	Contact for availability

