

U2L2PX309.10P-V2-2C



XXXX Pol Panel Antenna 2×698–960/2×1710–2690MHz 65° /65° 17/17.5dBi 2° -12° /2° -12°
Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y2)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Gain (dBi):	15.3±0.5	15.8±0.5	16.3±0.5	16.0±0.5	17.0±0.5	16.8±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	69	64	60	69	62	58
Vertical 3dB Beamwidth(°):	8.5	7.0	6.5	7.5	6.0	5.3
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable					
1 st Upper Sidelobe Suppression (dB):	15	15	15	15	15	15
Front to Back Ratio (dB):	22	23	24	25	25	25
Cross Polar Ratio 0°(dB):	15	15	15	15	15	15
Intraband Isolation (dB):	>25					
Interband Isolation (dB):	>25					
Average power tolerance (W):	250			200		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)					
Impedance (ohm):	50					
Lightning Protection:	DC Grounded					
Connector Type:	8×4.3-10 Female					

BASTA Electrical Specification

Frequency Range(MHz):		698-960(R1)			698-960(R2)			1710-2690(Y1)			1710-2690(Y2)		
		698-806	806-880	880-960	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):		15.0	15.6	16.1	14.9	15.6	16.0	16.7	16.8	17.0	16.6	16.7	16.9
Gain by all Beam Tilts Tolerance(dB):		±0.3	±0.4	±0.3	±0.4	±0.4	±0.5	±0.4	±0.5	±0.5	±0.3	±0.4	±0.5
Average Gain by Beam Tilt (dBi):	2°	15.0	15.6	16.2	14.9	15.5	16.1	16.8	17.2	17.0	16.7	17.0	16.8
	7°	15.1	15.7	16.3	15.0	15.7	16.2	16.8	17.0	17.4	16.8	16.9	17.0
	12°	14.8	15.4	15.7	14.7	15.3	15.6	16.5	16.6	16.7	16.4	16.5	16.5
Horizontal Beamwidth Tolerance(°):		±5.0	±2.1	±5.9	±4.8	±2.3	±6.0	±5.6	±4.4	±5.8	±5.4	±4.9	±5.7
Vertical Beamwidth Tolerance(°):		±0.4	±0.5	±0.7	±0.5	±0.5	±0.7	±0.5	±0.4	±0.4	±0.4	±0.5	±0.4
USLS to 20° above beampeak(dB):		16.8	19.2	18.0	16.9	18.8	17.6	15.3	15.5	15.9	15.6	16.0	15.5
Front to back Ratio at 180° ± 30°(dB)		23.5	24.1	25.6	23.3	24.9	24.4	26.3	25.5	26.4	26.1	26.2	25.8
CPR at Boresight(dB):		27.0	26.5	21.7	20.5	25.5	21.4	19.5	16.1	17.0	18.2	16.4	16.6

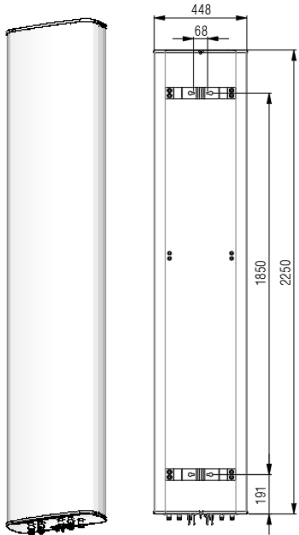
Product Data Sheet

U2L2PX309.10P-V2-2C



Mechanical Data

Antenna Dimensions (mm):	2250×448×185
Packing Dimensions (mm):	2520×535×280
Antenna Net Weight/bracket (kg):	32.5 / 5.9
Antenna Gross Weight (kg):	44.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069291, Adjustable Downtilt 0°-8°



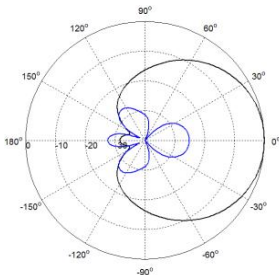
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 978 / 244 / 1160
Max. Wind velocity(km/h):	200

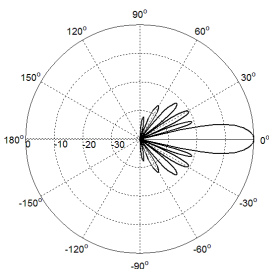
Internal RET Specifications

RET type:	Replaceable RET
RET protocol:	AISG 2.0 /3 GPP
Input voltage range(V):	10-30 DC
Power consumption(W):	< 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
Adjustment time (full range) (s):	< 120 (typically, depending on antenna type)
RET connector:	1 pair of AISG 5 pin male & female
Pin assignment according AISG:	8 pin circular connector conforming to IEC 60130-9 - Ed. 3.0
Lightning protection (kA):	5 (8/20 μs Differential mode), 8 (8/20 μs Common mode)

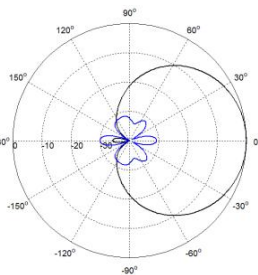
Typical Patterns



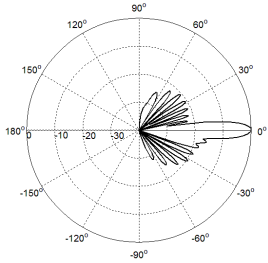
Azimuth(Low Band)



Elevation(Low Band)



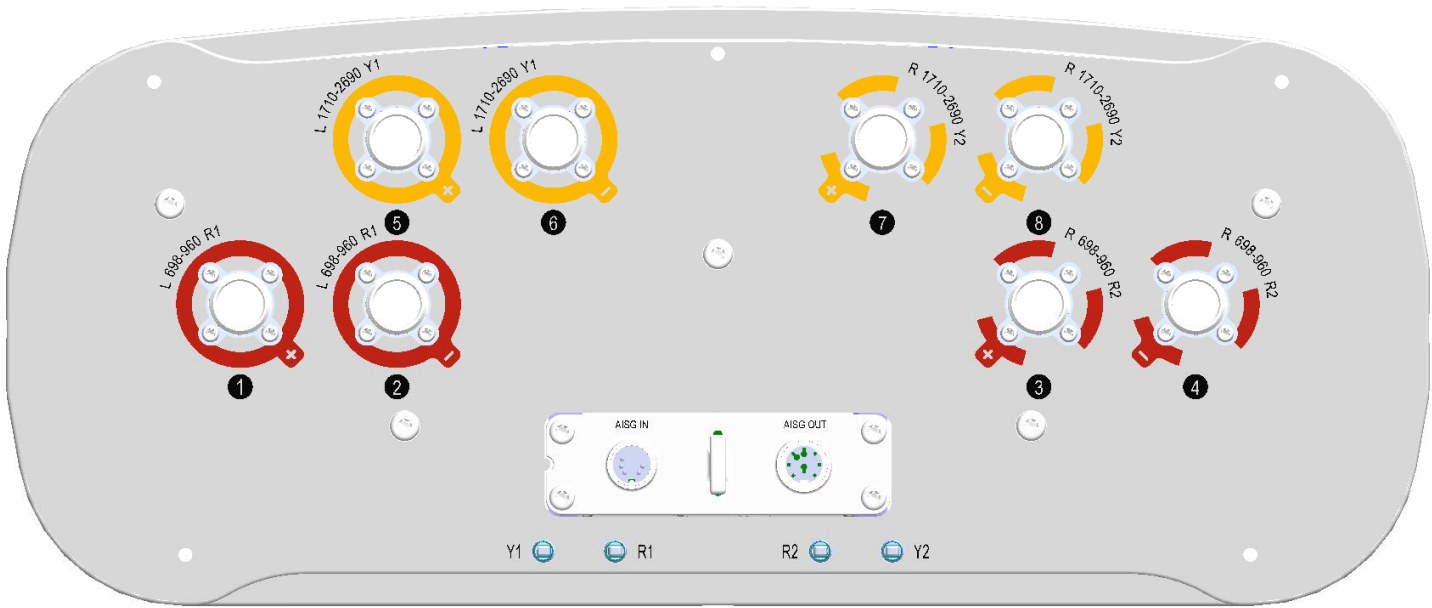
Azimuth(High Band)



Elevation(High Band)



Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
698– 960MHz	R1	1-2	BRxxx.....1R1
698– 960MHz	R2	3-4	BRxxx.....2R2
1710–2690MHz	Y1	5-6	BRxxx.....3Y1
1710–2690MHz	Y2	7-8	BRxxx.....4Y2

