

## Product Data Sheet

**UL2PX309.12P-V1-C****XXX Pol Panel Antenna 698-960/2×1710-2690MHz 65°/65° 17/18dBi 0°-10°Replaceable RET****Electrical Specifications**

Frequency Range (MHz):	698-960(R1)			2×1710-2690 (Y1,Y2)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Gain (dBi):	15.7±0.5	16.2±0.5	16.5±0.5	16.8±0.5	17.5±0.5	17.8±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	70±5	68±5	66±5	68±5	62±5	58±5
Vertical 3dB Beamwidth (°):	9.0	8.0	7.0	6.5	5.0	4.5
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable			0-10 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable					
1 <sup>st</sup> 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):	>26			>28		
Interband Isolation (dB):	>28					
Max. Power Per Port (W):	250			200		
Intermodulation IM3 (dBc):	<-150(2×43 dBm)					
Impedance (ohm):	50					
Lightning Protection:	DC Grounded					
Connector Type:	6×4.3-10 Female					

**BASTA Electrical Specification**

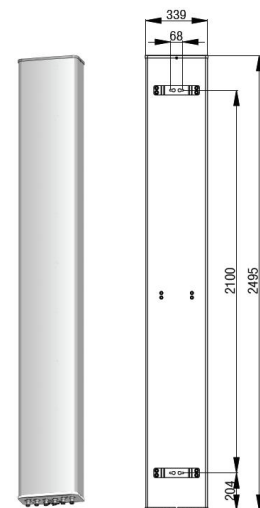
Frequency Range(MHz):	698-960(R1)			1710-2690(Y1,Y2)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	15.4	15.9	16.2	16.9	17.4	17.5
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.4	±0.4	±0.6	±0.6	±0.5
Average Gain by Beam Tilt (dBi):	0°   15.4	0°   15.9	0°   16.2	0°   16.9	0°   17.4	0°   17.6
	5°   15.5	5°   16.1	5°   16.5	5°   17.2	5°   17.6	5°   17.8
	10°   15.3	10°   15.6	10°   15.8	10°   16.7	10°   17.2	10°   17.3
Horizontal Beamwidth Tolerance(°):	±2.6	±1.6	±1.3	±6.1	±5.1	±5.3
Vertical Beamwidth Tolerance(°):	±0.7	±0.6	±0.5	±0.6	±0.5	±0.4
USLS to 20° above beampeak(dB):	15.8	15.2	15.9	16.4	16.2	15.3
Front to back Ratio at 180° ± 30°(dB)	24.4	25.6	25.3	26.4	26.3	26.3
CPR at Boresight(dB):	21.2	20.4	21.1	19.2	18.6	18.3

**Mechanical Data**

Antenna Dimensions (mm):	2495×339×169
Packing Dimensions (mm):	2755×420×255
Antenna Net Weight/Bracket (kg):	27.2/5.9
Antenna Gross Weight (kg):	38.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069091, Adjustable Downtilt 0°-10°

**Environmental Ratings**

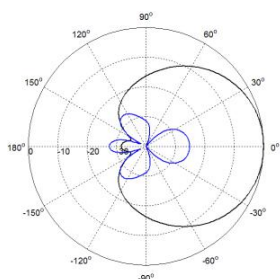
Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/: 1099/382/1338
Max. Wind velocity(km/h):	200



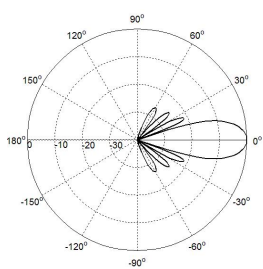
## Internal RET Specifications

RET Type:	Replaceable RET
RET protocol:	AISG2.0 /3GPP
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 $\mu$ s Differential mode), 8 (8/20 $\mu$ s Common mode)

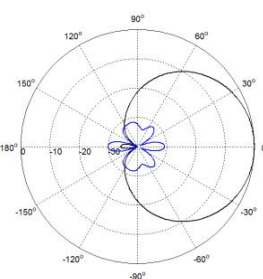
## Typical Patterns



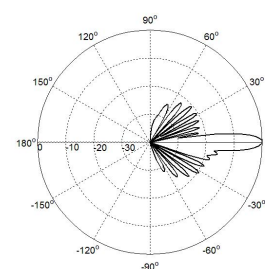
Azimuth(Low Band)



Elevation(Low Band)

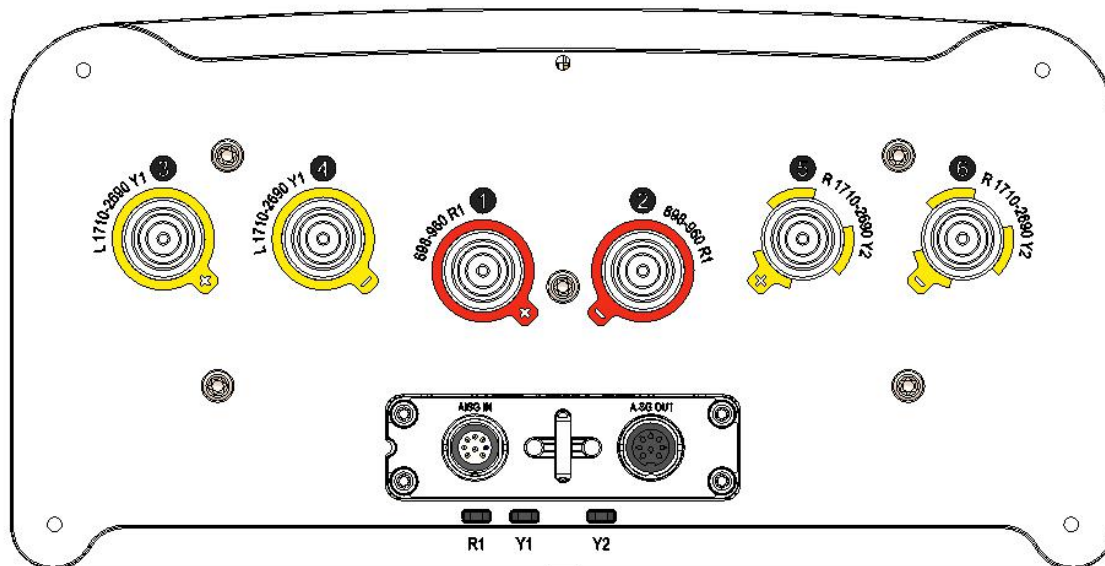


Azimuth(High Band)



Elevation(High Band)

## Bottom View



## Correlation Table

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

