

U2L2PX307.10P-DHH-C

XXXXXX Pol Panel Antenna 2×698-960/2×1710-2170/2×2490-2690MHz 65°/65°/65° 15.5/16/16.5dBi
0°-10°/0°-10°/0°-10° Replaceable RET 4.3-10 Connector

Electrical Specifications

Frequency Range (MHz):	698-960(R1,R2)			1710-2170(B1,B2)			2490-2690 (Y1,Y2)
	698-806	806-880	880-960	1710-1880	1880-2025	2025-2170	
Gain (dBi):	14.3±0.5	14.8±0.5	15.3±0.5	15.5±0.5	15.7±0.5	16.0±0.5	16.3±0.5
Return Loss (dB):	>14 (VSWR<1.5)						
Polarization:	±45°						
Horizontal 3dB Beamwidth (°):	70	65	56	68	65	63	58
Vertical 3dB Beamwidth(°):	11.5	10.5	9	7	6	5.5	4.5
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable						
1 st Upper Sidelobe Suppression (dB):	15	15	15	15	15	15	15
Front to Back Ratio (dB):	25	25	25	25	25	25	25
Cross Polar Ratio 0°(dB):	15	15	15	15	15	15	15
Intraband Isolation (dB):	>25						
Interband Isolation (dB):	>28						
Average power tolerance (W):	250			200			
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)						
Impedance (ohm):	50						
Lightning Protection:	DC Grounded						
Connector Type:	12×4.3-10 Female						

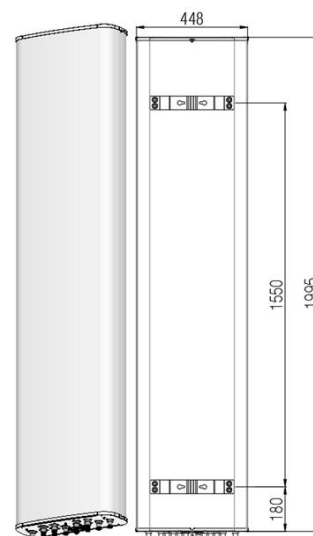
BASTA Electrical Specification

Frequency Range(MHz):	698-960(R1)			698-960(R2)			1710-2170(B1)			1710-2170(B2)			
	698-806	806-880	880-960	698-806	806-880	880-960	1710-1880	1880-2025	2025-2170	1710-1880	1880-2025	2025-2170	
Average Gain by all Beam Tilts (dBi):	14.1	14.7	15.2	14.2	14.8	15.3	15.3	15.5	15.7	15.4	15.5	15.6	
Gain by all Beam Tilts Tolerance(dB):	±0.3	±0.4	±0.4	±0.4	±0.4	±0.5	±0.6	±0.5	±0.9	±0.5	±0.4	±0.7	
Average Gain by Beam Tilt (dBi):	0°	14.2	14.8	15.2	14.2	14.8	15.2	15.3	15.4	15.8	15.4	15.5	15.6
	5°	14.4	15.0	15.5	14.4	15.1	15.5	15.5	15.7	15.9	15.6	15.7	15.8
	10°	13.6	14.2	14.6	13.7	14.5	15.0	15.2	15.6	15.6	15.3	15.3	15.5
Horizontal Beamwidth Tolerance(°):	±5.9	±2.2	±7.0	±4.8	±2.8	±6.4	±7.8	±5.4	±8.2	±6.4	±6.2	±7.9	
Vertical Beamwidth Tolerance(°):	±0.7	±0.8	±1.0	±0.5	±0.7	±1.1	±0.4	±0.7	±0.5	±0.5	±0.8	±0.6	
USLS to 20° above beampeak(dB):	15.2	15.6	16.1	15.3	16.2	16.4	16.5	16.4	16.2	15.8	16.2	15.7	
Front to back Ratio at 180° ± 30°(dB)	25.2	24.2	21.5	24.5	24.3	22.1	26.3	25.5	27.4	27.2	26.1	26.7	
CPR at Boresight(dB):	19.0	18.5	18.7	16.5	17.5	18.4	17.5	16.1	16.4	17.8	16.4	17.5	

Frequency Range(MHz):	2490-2690(Y1)			2490-2690(Y2)		
Average Gain by all Beam Tilts (dBi):	15.5	15.7	16.0	15.4	15.7	15.9
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.5	±0.4	±0.5	±0.7	±0.6
Average Gain by Beam Tilt (dBi):	0°	15.4	15.6	15.9	15.3	15.8
	5°	15.7	15.9	16.2	15.6	16.2
	10°	15.4	15.6	16.0	15.5	15.8
Horizontal Beamwidth Tolerance(°):	±4.7	±3.1	±6.2	±5.2	±3.7	±5.7
Vertical Beamwidth Tolerance(°):	±0.5	±0.6	±0.9	±0.8	±0.7	±1.2
USLS to 20° above beampeak(dB):	15.7	16.4	15.8	15.9	16.4	15.4
Front to back Ratio at 180° ± 30°(dB)	26.5	27.2	28.4	27.5	26.7	29.1
CPR at Boresight(dB):	17.4	18.7	17.2	17.2	18.9	18.5

Mechanical Data

Antenna Dimensions (mm):	1995×448×185
Packing Dimensions (mm):	2265×535×280
Antenna Net Weight/bracket (kg):	33/5.9
Antenna Gross Weight (kg):	44
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069121, Adjustable Downtilt 0°-14°



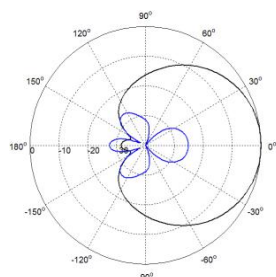
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 863 / 212/ 1024
Max. Wind velocity(km/h):	200

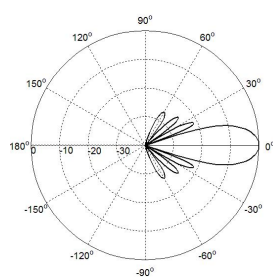
Internal RET Specifications

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:	8pin 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)

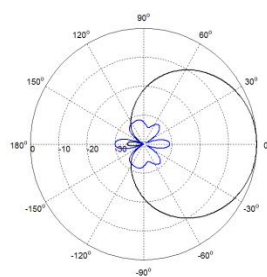
Typical Patterns



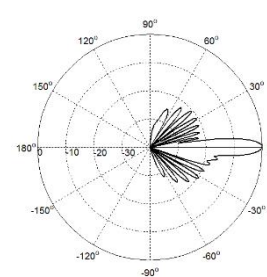
Azimuth(Low Band)



Elevation(Low Band)



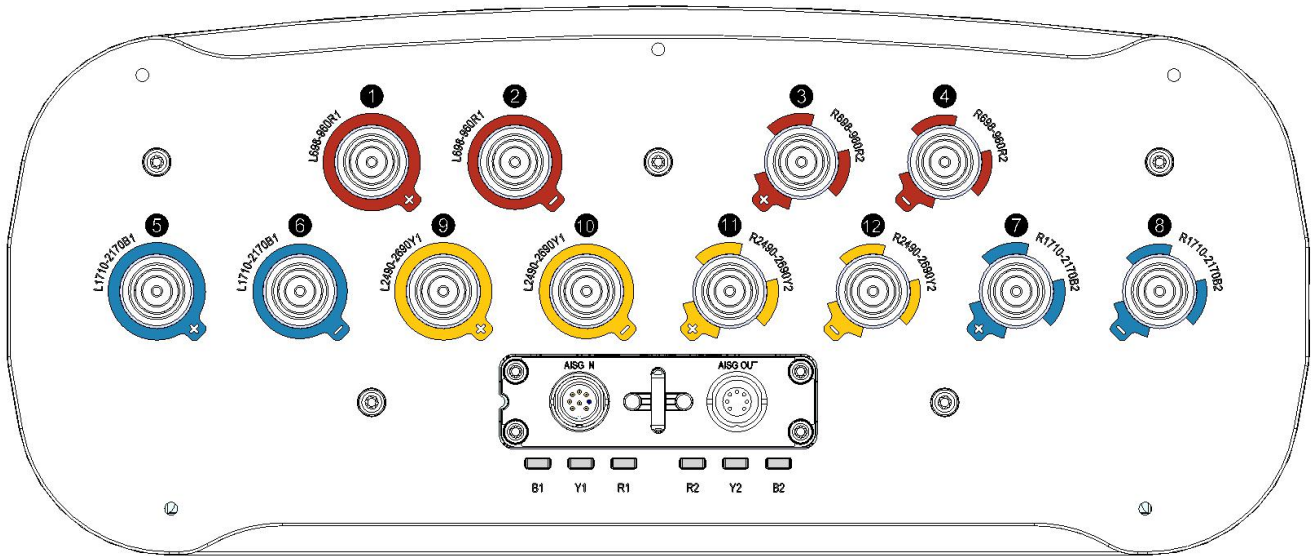
Azimuth(High Band)



Elevation(High Band)

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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
1710–2170MHz	B1	5-6	BRxxx.....3B1
1710–2170MHz	B2	7-8	BRxxx.....4B2
2490–2690MHz	Y1	9-10	BRxxx.....5Y1
2490–2690MHz	Y2	11-12	BRxxx.....6Y2

