

U2L4PX306.11P2-DH2-V1-2C

XXXXXXXXX Po1 Panel Antenna 2×694–960/2×1710–2170/2×2490–2690/2×1710–2690MHz

65° /65° /65° /65° 14/17/17.5/18dBi 2° -16° /2° -12° /2° -12° /2° -12° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	694-960(R1,R2)			1710-2690(Y1,Y4)		
	694-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Gain (dBi):	12.6±0.5	13.4±0.5	13.8±0.5	16.5±0.5	17.2±0.5	17.5±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	69	66	65	68	65	58
Vertical 3dB Beamwidth(°):	14.5	13.0	12.0	6.5	5.5	5.0
Electrical Downtilt (°):	2-16 Independently Continuously Adjustable			2-12 Independently Continuously Adjustable		
1 st Upper Sidelobe Suppression (dB):	14	14	14	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					

Frequency Range (MHz):	1710-2170(B1,B2)			2490-2690(Y2,Y3)	
	1710-1880	1880-2025	2025-2170	2490-2690	
Gain (dBi):	15.8±0.5	16.2±0.5	16.5±0.5	17.0±0.5	
Return Loss (dB):	>14 (VSWR<1.5)				
Polarization:	±45°				
Horizontal 3dB Beamwidth (°):	70	69	68	60	
Vertical 3dB Beamwidth(°):	7.0	6.5	6.0	5.0	
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable				
1 st Upper Sidelobe Suppression (dB):	15	15	15	15	
Front to Back Ratio (dB):	25	25	25	25	
Cross Polar Ratio 0°(dB):	15	15	15	15	
Intraband Isolation (dB):	25				
Interband Isolation (dB):	25				
Average power tolerance (W):	200				
Intermodulation IM3 (dBc):	<-150(2×43 dBm)				
Impedance (ohm):	50				
Lightning Protection:	DC Grounded				
Connector Type:	16×4.3-10 Female				

BASTA Electrical Specification

Frequency Range(MHz):	694-960(R1)			694-960(R1)			1710-2170(B1)	1710-2170(B2)	
	694-806	806-862	880-960	694-806	806-862	880-960	1710-2170	1710-2170	
Average Gain by all Beam Tilts (dBi):	12.6	13.3	13.8	12.7	13.4	13.8	16.3	16.2	
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.3	±0.4	±0.4	±0.5	±0.4	±0.6	±0.8	
Average Gain by Beam Tilt (dBi):	2°	12.6	13.4	13.8	12.7	13.5	13.8	16.3	16.2
	7°	12.8	13.7	14.2	12.9	13.6	14.0	16.5	16.6
	12°	12.4	13.0	13.6	12.4	13.2	13.6	16.1	16.0

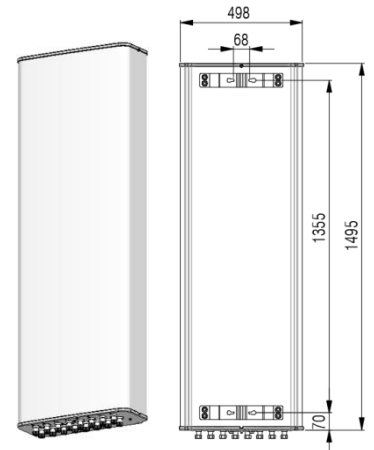
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Horizontal Beamwidth Tolerance(°):	±6.2	±4.7	±5.2	±5.7	±4.8	±5.3	±7.3	±6.4
Vertical Beamwidth Tolerance(°):	±0.6	±0.5	±0.4	±0.5	±0.6	±0.5	±1.2	±1.1
USLS to 20° above beampeak(dB):	16.2	16.8	15.7	16.4	15.6	16.3	15.5	16.2
Front to back Ratio at 180° ± 30°(dB)	24.4	25.2	25.3	26.2	25.8	25.7	26.4	25.2
CPR at Boresight(dB):	17.9	16.2	18.3	16.7	16.5	17.4	17.2	16.8

Frequency Range(MHz):	2490-2690(Y2)	2490-2690(Y3)	1710-2690(Y1)			1710-2690(Y4)		
	2490-2690	2490-2690	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	17.0	17.1	16.5	17.2	17.4	16.6	17.3	17.4
Gain by all Beam Tilts Tolerance(dB):	±0.8	±0.7	±0.4	±0.5	±0.6	±0.5	±0.4	±0.5
Average Gain by Beam Tilt (dBi):	2°	17.1	17.1	16.5	17.2	17.6	16.6	17.3
	7°	17.4	17.5	16.7	17.5	17.8	16.8	17.6
	12°	16.7	16.6	16.2	16.8	17.0	16.3	16.9
Horizontal Beamwidth Tolerance(°):	±7.5	±7.9	±7.9	±6.2	±7.8	±8.2	±6.7	±7.5
Vertical Beamwidth Tolerance(°):	±0.4	±0.5	±1.2	±0.8	±0.4	±1.1	±0.7	±0.4
USLS to 20° above beampeak(dB):	15.7	15.7	15.8	15.9	16.4	15.7	15.4	16.2
Front to back Ratio at 180° ± 30°(dB)	24.3	25.5	25.6	25.2	25.4	25.3	26.1	26.2
CPR at Boresight(dB):	16.4	18.2	16.4	16.8	12.2	15.6	15.5	16.8

Mechanical Data

Antenna Dimensions (mm):	1495×498×197
Packing Dimensions (mm):	1760×580×285
Antenna Net Weight/bracket (kg):	30.5/ 5.9
Antenna Gross Weight (kg):	41
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069111, Adjustable Downtilt 0-13°

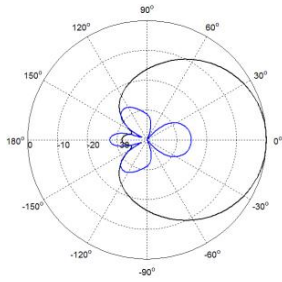
**Environmental Ratings**

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:954/170/967
Max. Wind velocity(km/h):	200

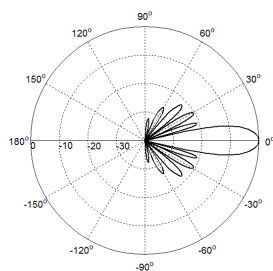
Internal RET Specifications

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:	2 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)

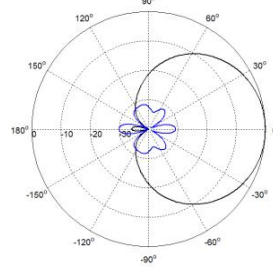
Typical Patterns



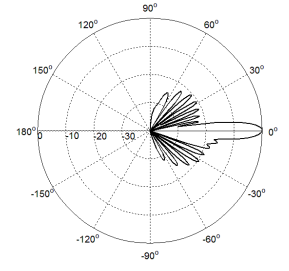
Azimuth(Low Band)



Elevation(Low Band)

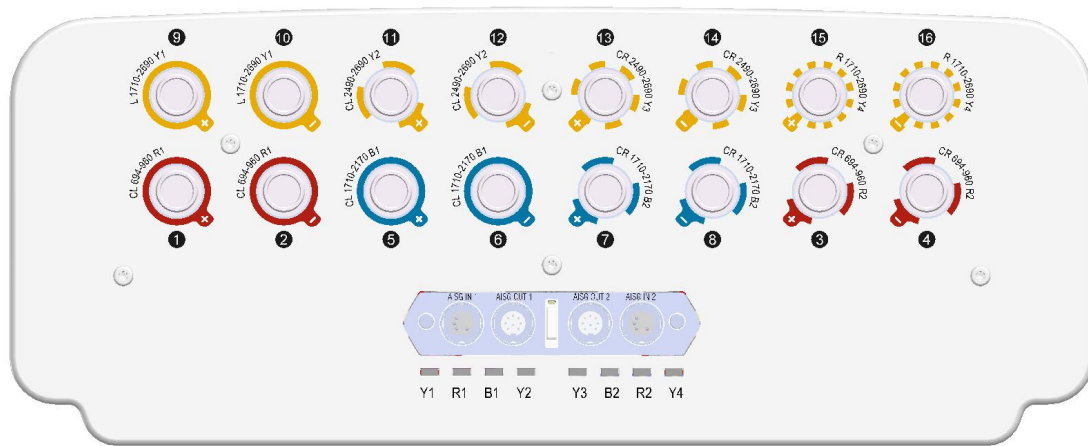


Azimuth(High Band)



Elevation(High Band)

Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
694– 960 MHz	R1	1-2	BRxxx.....R1
694– 960 MHz	R2	3-4	BRxxx.....R2
1710–2170 MHz	B1	5-6	BRxxx.....B1
1710–2170 MHz	B2	7-8	BRxxx.....B2
1710–2690 MHz	Y1	9-10	BRxxx.....Y1
1710–2690 MHz	Y4	15-16	BRxxx.....Y4
2490–2690 MHz	Y2	11-12	BRxxx.....Y2
2490–2690 MHz	Y3	13-14	BRxxx.....Y3

