Product Data Sheet

U2L4PX307.10P-V1-2C

XXXXXX Pol Panel Antenna 2×698-960/4×1710-2690MHz 65° /65° 15.5/18dBi 2-12° /2-12° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Gain (dBi):	14.5 ±0.5	15.1 ±0.5	15.1 ±0.5	16.5 ±0.5	17.0 ±0.5	16.7 ±0.5	16.2 ±0.5	16.9 ±0.5	16.6 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization :	±45								
Horizontal 3dB Beamwidth (°):	64	58	55	68	64	62	69	65	63
Vertical 3dB Beamwidth (°):	11.0	9.8	8.9	7.5	5.9	5.4	7.4	5.9	5.4
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable								
RET Type:	Cascade SRET, AISG 2.0,Upgradeable								
1st Upper Sidelobe Suppression (dB):	15	15	14	16	16	15	16	16	15
Intraband Isolation (dB):	>25								
Interband Isolation (dB):	>25								
Max. Power Per Port (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 Specifications

Frequency Range(MHz):	698-960(R1,R2)		
	698-806	806-880	880-960
Average Gain by Beam Tilts (dBi):	14.4	14.9	15.0
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.5	±0.6
Average Gain by Beam Tilts (dBi):	2°|14.3 7°|14.5 12°|14.4	2°|14.8 7°|15.1 12°|14.9	2°|14.7 7°|15.1 12°|15.0
Horizontal Beamwidth Tolerance(°):	±6.5	±7.5	±5.5
Vertical Beamwidth Tolerance(°):	±0.9	±0.9	±0.7
Upper Side Lobe Suppression, Peak to 20°(dB):	14.8	14.5	13.0
Front to back Total Power at 180° ± 30°(dB)	20.0	22.1	22.0
CPR at Boresight(dB):	19.8	19.4	19.0

BASTA Electrical Specifications

Frequency Range(MHz):	1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by Beam Tilts (dBi):	16.3	16.8	16.6	16.1	16.7	16.5
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.6	±0.9	±0.5	±0.6	±0.6
Average Gain by Beam Tilts (dBi):	2°|16.3 7°|16.5 12°|16.1	2°|16.9 7°|17.0 12°|16.4	2°|16.7 7°|16.7 12°|16.2	2°|16.0 7°|16.2 12°|16.0	2°|16.7 7°|16.9 12°|16.5	2°|16.6 7°|16.5 12°|16.2
Horizontal Beamwidth Tolerance(°):	±6.4	±5.4	±6.4	±5.6	±5.8	±8.8
Vertical Beamwidth Tolerance(°):	±0.8	±0.4	±0.4	±0.6	±0.3	±0.4
Upper Side Lobe Suppression, Peak to 20°(dB):	15.7	15.5	15.0	14.3	14.6	14.4
Front to back Total Power at 180° ± 30°(dB)	25.5	29.6	24.1	25.6	28.7	25.7

Our products are compliant to the EU Directive RoHS as well as to other environmentally relevant regulations.

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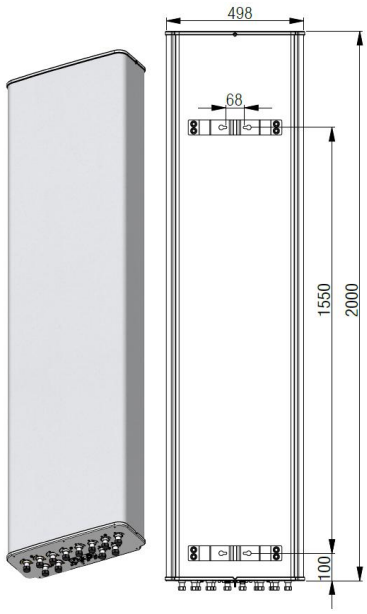
CPR at Boresight(dB):	19.0	19.0	19.1	19.6	19.1	15.1

Mechanical Data

Antenna Dimensions (mm):	2000×498×197
Packing Dimensions (mm):	2270×585×290
Antenna Net Weight/Bracket (kg):	33.5/5.9
Antenna Gross Weight (kg):	46
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069121, Adjustable Downtilt 0-14°



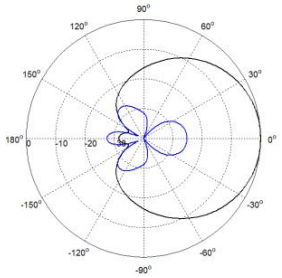
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/: 1292/229/1310
Max.Wind velocity(km/h):	200

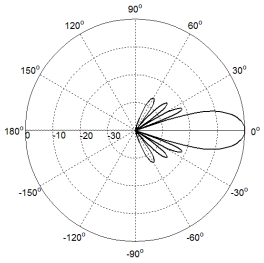
Internal RET Specifications

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 μs Differential mode), 8 (8/20 μs Common mode)

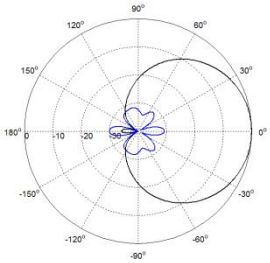
Typical Patterns



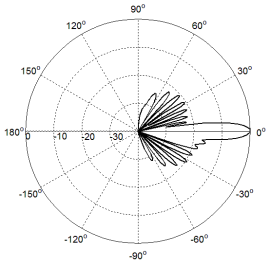
Azimuth(Low band)



Elevation(Low band)



Azimuth(High band)



Elevation(High band)

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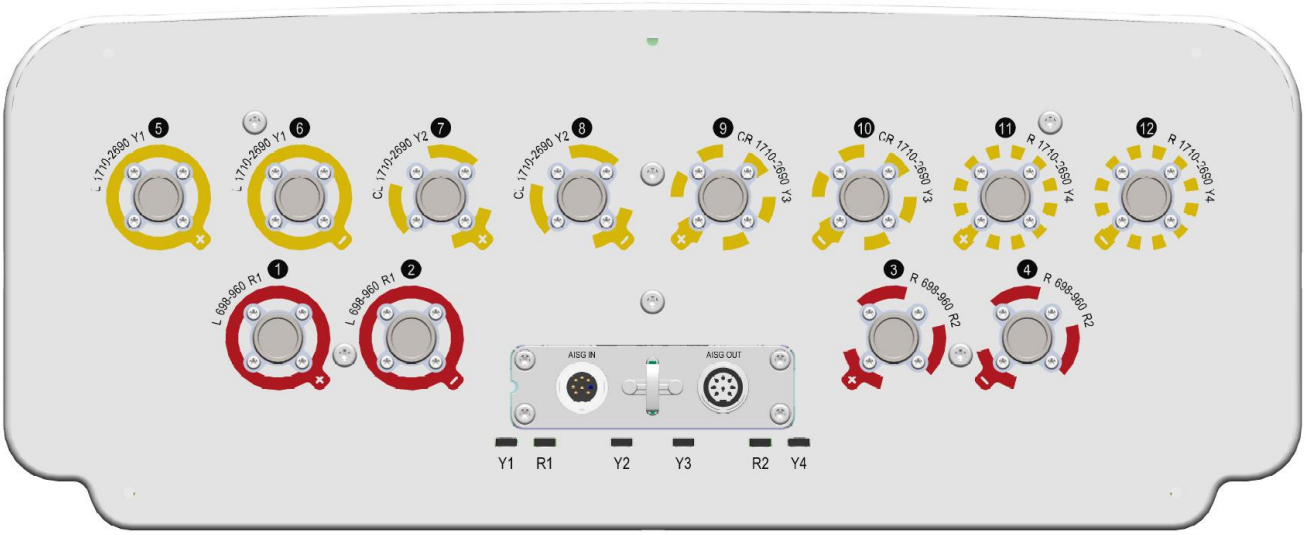
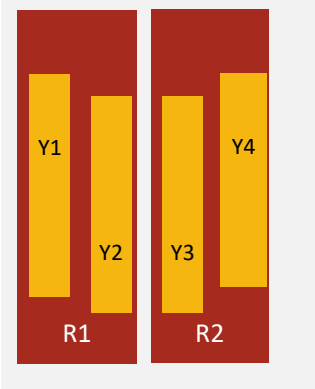
Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
698– 960 MHz	R1	1-2	BRxxx…….1R1
698– 960 MHz	R2	3-4	BRxxx…….2R2
1710–2690 MHz	Y1	5-6	BRxxx…….3Y1
1710–2690 MHz	Y2	7-8	BRxxx…….4Y2
1710–2690 MHz	Y3	9-10	BRxxx…….5Y3
1710–2690 MHz	Y4	11-12	BRxxx…….6Y4



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