Product Data Sheet

U2L4PX305.10P-DHH-2C

XXXXXXXX Pol Panel Antenna 2×694-960/2×1710-2170/2×2490-2690/2×1710-2690MHz 65°/65°/65°/65° 13/16.5/17/16.5dBi 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):	12.2±0.5	12.9±0.5	12.9±0.5	16.3±0.5	16.6±0.5	16.7±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	66	63	64	68	66	61
Vertical 3dB Beamwidth (°):	18.7	16.7	15.4	7.7	6.4	5.5
Electrical Downtilt (°):	2-16 Independently Continuously Adjustable			2-12 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable					
1st Upper Sidelobe Suppression (dB):	13	13	13	15	15	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					

Electrical Specifications

Frequency Range (MHz):	1710-2170(B1,B2)			2490-2690(Y2,Y3)
	1710-1880	1880-2025	2025-2170	2490-2690
Gain (dBi):	15.5±0.5	15.6±0.5	15.6±0.5	15.7±0.5
Return Loss (dB):	>14 (VSWR<1.5)			
Polarization:	±45°			
Horizontal 3dB Beamwidth (°):	69	68	66	65
Vertical 3dB Beamwidth (°):	8.0	7.5	7.0	5.5
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable			
RET Type:	Cascade SRET, AISG2.0, Upgradeable			
1st Upper Sidelobe Suppression (dB):	14	15	14	15
Intraband Isolation (dB):	>25			
Interband Isolation (dB):	>25			
Max. Power Per Port (W):	200			200
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)			
Impedance (ohm):	50			
Lightning Protection:	DC Grounded			

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BASTA Electrical Specification

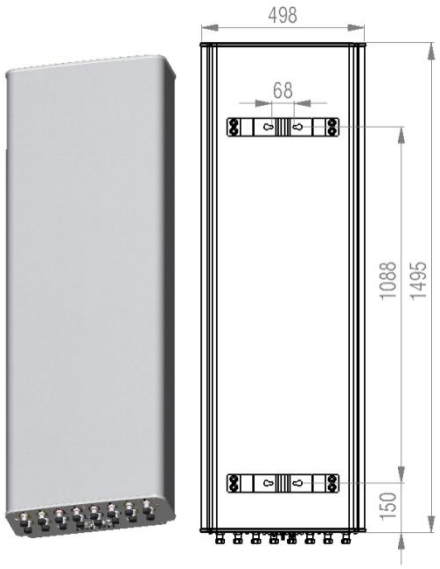
Frequency Range(MHz):	694-960(R1,R2)			1710-2690(Y1,Y4)		
	694-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Average Gain by Beam Tilts (dBi):	12.1	12.8	12.7	16.1	16.3	16.2
Gain by all Beam Tilts Tolerance(dB):	±0.8	±0.7	±0.6	±0.5	±0.7	±0.7
Average Gain by Beam Tilts (dBi):	2°|12.2 9°|12.0 16°|12.0	2°|12.9 9°|12.8 16°|12.5	2°|12.9 9°|12.9 16°|12.3	2°|16.2 7°|16.3 12°|15.9	2°|16.5 7°|16.6 12°|15.9	2°|16.3 7°|16.7 12°|15.9
Horizontal Beamwidth Tolerance(°):	±10.0	±13.1	±10.8	±4.0	±6.4	±4.2
Vertical Beamwidth Tolerance(°):	±1.9	±1.2	±1.6	±0.8	±0.5	±0.4
Upper Side Lobe Suppression, Peak to 20°(dB):	13	13	13	15	15	14
Front to back Total Power at 180° ± 30°(dB)	20	21	21	25	25	25
CPR at Boresight(dB):	14	14	13	15	16	15

BASTA Electrical Specifications

Frequency Range(MHz):	1710-2170(B1,B2)			2490-2690(Y2,Y3)
	1710-1880	1880-2025	2025-2170	2490-2690
Average Gain by Beam Tilts (dBi):	15.3	15.5	15.4	15.4
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.5	±0.5	±1.0
Average Gain by Beam Tilts (dBi):	2°|15.5 7°|15.5 12°|15.0	2°|15.5 7°|15.6 12°|15.4	2°|15.2 7|15.6 12°|15.5	2°|15.7 7°|15.6 12°|14.9
Horizontal Beamwidth Tolerance(°):	±8.7	±4.5	±5.4	±7.7
Vertical Beamwidth Tolerance(°):	±0.4	±0.4	±0.4	±0.4
Upper Side Lobe Suppression, Peak to 20°(dB):	14	15	14	15
Front to back Total Power at 180° ± 30°(dB)	25	25	25	25
CPR at Boresight(dB):	13	15	14	13

Mechanical Data

Antenna Dimensions (mm):	1495×498×197
Packing Dimensions (mm):	1805×580×290
Antenna Net Weight/Bracket (kg):	31/5.9
Antenna Gross Weight (kg):	42.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-114
Mounting Kits (Included):	BA.K.04.00069131, Adjustable Downtilt 0°-16°
Connector Type:	16×4.3-10 Female



Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 1291/255/1361
Max.Wind velocity(km/h):	200

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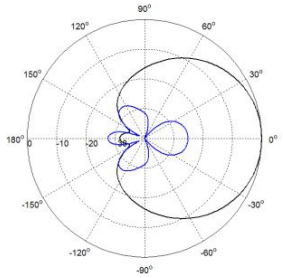
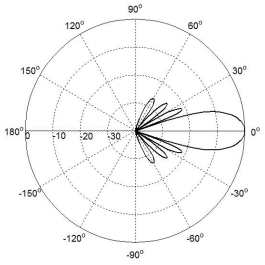
Internal RET Specifications

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)

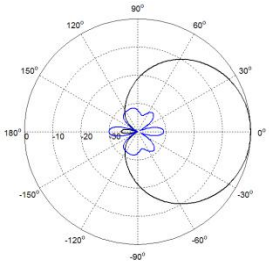
Typical Patterns



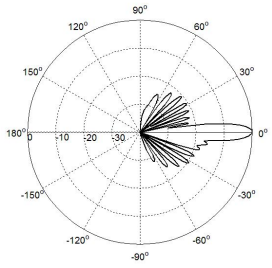
Azimuth(Low band)



Elevation(Low band)



Azimuth(High band)

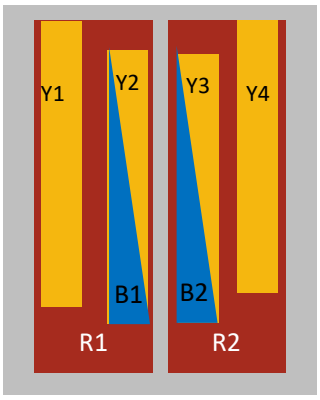


Elevation(High band)

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
2490–2690 MHz	Y2	11-12	BRxxx……Y2
2490–2690 MHz	Y3	13-14	BRxxx……Y3
1710–2690 MHz	Y4	15-16	BRxxx……Y4



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