Product Data Sheet

ULLLPX305.10P-C

XXXX Pol Panel Antenna 698-960/3x1710-2690MHz 65°/65°15/17.5dBi 0°-14°/0°-10° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1)			1710-2690(Y1,Y3)			1710-2690(Y2)		
	698-806	806-880	880-960	1710 -2170	2300 -2490	2490 -2690	1710 -2170	2300 -2490	2490 -2690
Gain (dBi):	13.5 ±0.5	13.7 ±0.5	14.2 ±0.5	16.6 ±0.5	17.2 ±0.5	17.7 ±0.5	15.8 ±0.5	16.4 ±0.5	16.8 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	65	64	68	63	58	55	74	57	58
Vertical 3dB Beamwidth (°):	18	16	14	7.5	6.0	5.5	7.0	5.7	5.3
Electrical Downtilt (°):	0-14 Independently Continuously Adjustable			0-10 Independently Continuously Adjustable					
RET Type:	Cascade SRET, AISG 2.0, Upgradeable								
1st Upper Sidelobe Suppression(dB):	14	16	15	15	16	14	15	16	14
Intraband Isolation (dB):	>26								
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:	8×4.3-10 Female								

BASTA Electrical Specifications

Frequency Range(MHz):	698-960(R1)		
	698-806	806-880	880-960
Average Gain by all Beam Tilts(dBi):	13.5	13.8	13.9
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.4	±0.4
Average Gain by Beam Tilts (dBi):	0°|13.6 7°|13.4 14°|13.4	0°|13.8 7°|13.9 14|13.7	0°|14.1 7°|14.0 14°|13.6
Horizontal Beamwidth Tolerance(°):	±2.2	±1.7	±3.5
Vertical Beamwidth Tolerance(°):	±1.5	±0.9	±0.8
Upper Side Lobe Suppression, Peak to 20°(dB):	14.0	15.5	14.9
Front to back Total Power at 180° ± 30°(dB)	21.4	25.6	26.5
CPR at Boresight(dB):	22.9	22.4	21.0
CPR at Sector(dB):	9.2	10.5	8.0

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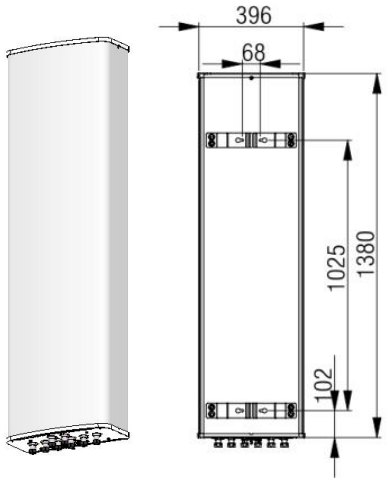
BASTA Electrical Specifications

Frequency Range(MHz):	1710-2690(Y1,Y3)			1710-2690(Y2)		
	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts(dBi):	16.5	17.1	17.4	15.8	16.2	16.4
Gain by all Beam Tilts Tolerance(dB):	±0.8	±0.5	±0.8	±0.3	±0.6	±0.4
Average Gain by Beam Tilts (dBi):	0°|16.8 5°|16.7 10°|16.0	0°|17.0 5°|17.5 10|16.9	0°|17.6 5°|17.7 10°|16.7	0°|15.9 5°|16.0 10°|15.6	0°|16.6 5°|16.3 10|15.6	0°|16.6 5°|16.7 10°|16.0
Horizontal Beamwidth Tolerance(°):	±5.5	±3.8	±2.0	±7.7	±5.6	±4.9
Vertical Beamwidth Tolerance(°):	±0.9	±0.6	±0.4	±0.9	±0.5	±0.4
Upper Side Lobe Suppression, Peak to 20°(dB):	14.0	15.8	14.0	14.0	15.5	14.0
Front to back Total Power at 180° ± 30°(dB)	25.7	27.1	26.1	25.7	27.0	28.0
CPR at Boresight(dB):	17.7	16.9	16.7	16.6	17.7	17.5
CPR at Sector(dB):	8.8	5.0	3.5	6.1	5.5	7.2

Mechanical Data

Antenna Dimensions (mm):	1380×396×190
Packing Dimensions (mm):	1650×485×285
Antenna Net Weight/Bracket (kg):	22/5.9
Antenna Gross Weight (kg):	32
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069141, Adjustable Downtilt 0°-18°



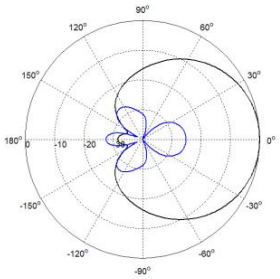
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/: 607/172/798
Max. Wind velocity(km/h):	200

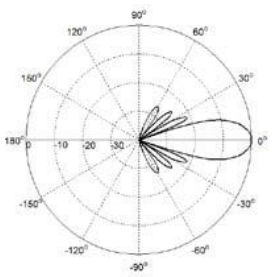
Internal RET Specifications

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)

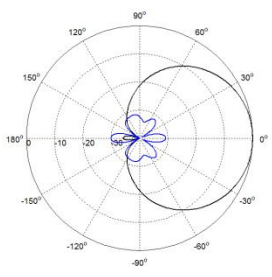
Typical Patterns



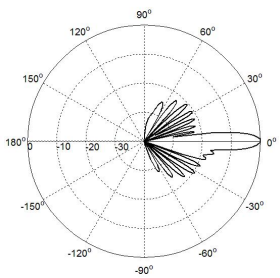
Azimuth(Low band)



Elevation(Low band)



Azimuth(High band)



Elevation(High band)

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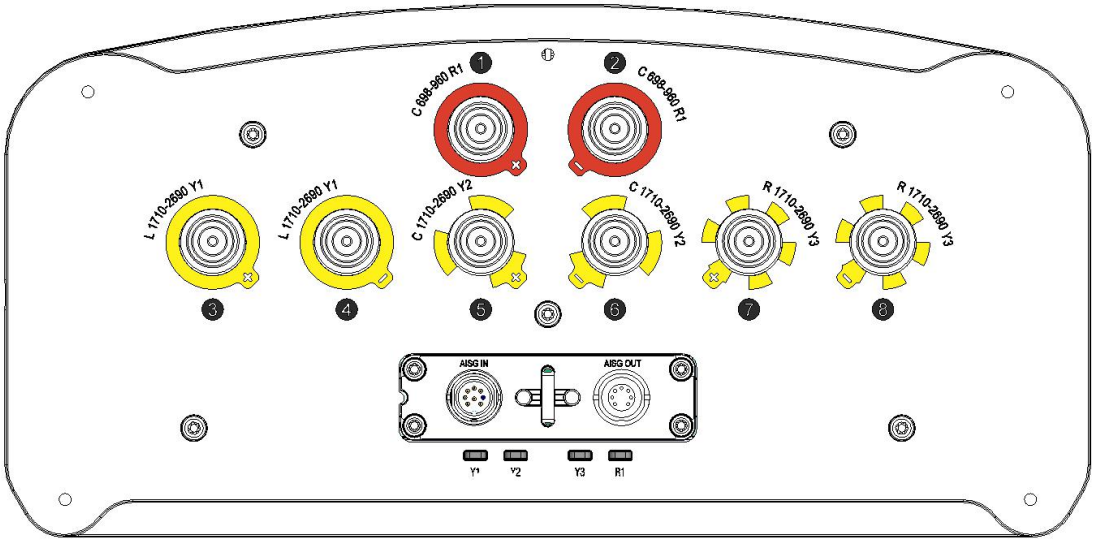
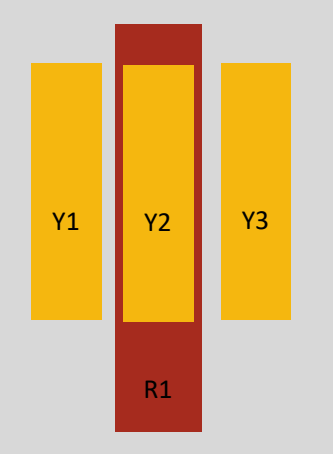
Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
698-960 MHz	R1	1-2	BRxxx·····1R1
1710–2690 MHz	Y1	3-4	BRxxx·····2Y1
1710–2690 MHz	Y2	5-6	BRxxx·····3Y2
1710–2690 MHz	Y3	7-8	BRxxx·····4Y3



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