

ULLLPX307.10P-DLH-E2-C

XXXXXX Pol Panel Antenna 694-862/880-960/1710-2170/2490-2690/2×1710-2690MHz 65°/65°/65°/65°/65° 15.5/16/16/16.5/17.5dBi 2°-12°/2°-12°/2°-10°/2°-10°/2°-10° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	694-862(R1)		880-960(R2)
	694-806	806-862	880-960
Gain (dBi):	15.0±0.5	15.5±0.5	15.8±0.5
Return Loss (dB):	>14(VSWR<1.5)		
Polarization:	±45°		
Horizontal 3dB Beamwidth (°):	69	65	62
Vertical 3dB Beamwidth (°):	11.0	9.5	8.5
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable		
1 st Upper Sidelobe Suppression (dB):	16	16	16
Front to Back Ratio(dB):	22	23	24
Cross Polar Ratio 0° (dB):	15	15	15
Intraband Isolation (dB):	2°-3°: >26 ; 4°-12°: >28		>28
Interband Isolation (dB):	>28		
Max. Power Per Port (W):	250		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		

Frequency Range (MHz):	1710-2170(B1)			2490-2690(Y1)
	1710-1880	1880-2025	2025-2170	2490-2690
Gain (dBi):	15.0±0.5	15.5±0.5	15.8±0.5	16.5±0.5
Return Loss (dB):	>14 (VSWR<1.5)			
Polarization:	±45°			
Horizontal 3dB Beamwidth (°):	65	62	60	58
Vertical 3dB Beamwidth (°):	7.5	7.0	6.3	5.3
Electrical Downtilt (°):	2-10 Independently Continuously Adjustable			
RET Type:	Cascade SRET, AISG 2.0, Upgradeable			
1 st Upper Sidelobe Suppression (dB):	16	16	16	16
Front to Back Ratio(dB):	25	25	25	25
Cross Polar Ratio 0° (dB):	15	15	15	15
Intraband Isolation (dB):	>26			
Interband Isolation (dB):	>28			
Max. Power Per Port (W):	200			
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)			
Impedance (ohm):	50			
Lightning Protection:	DC Grounded			

Frequency Range (MHz):	2×1710-2690(Y2,Y3)		
	1710-2170	2300-2490	2490-2690
Gain (dBi):	16.7±0.5	17.2±0.5	17.5±0.5
Return Loss (dB):	>14(VSWR<1.5)		
Polarization:	±45°		
Horizontal 3dB Beamwidth (°):	69	65	58
Vertical 3dB Beamwidth (°):	7.0	6.0	5.0
Electrical Downtilt (°):	2-10 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable		
1 st Upper Sidelobe Suppression (dB):	16	16	16
Front to Back Ratio(dB):	25	25	25
Cross Polar Ratio 0° (dB):	15	15	15
Intraband Isolation (dB):	>28		
Interband Isolation (dB):	>28		
Max. Power Per Port (W):	200		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		

BASTA Electrical Specification

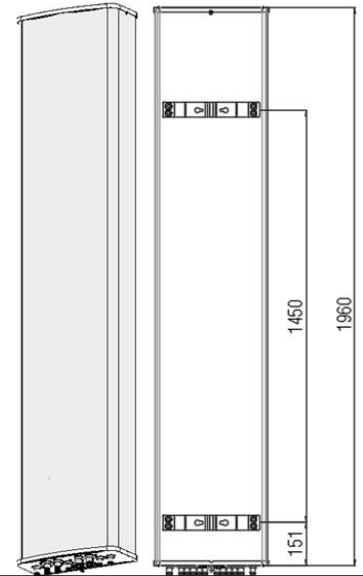
Frequency Range(MHz):	694-862(R1)		880-960(R2)	2×1710-2690(Y2,Y3)		
	694-806	806-862	880-960	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	14.8	15.3	15.6	16.5	17.0	17.3
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.5	±0.5	±0.5	±0.5	±0.5
Average Gain by Beam Tilt (dBi):	2° 14.8	2° 15.0	2° 15.5	2° 16.3	2° 17.0	2° 17.3
	7° 15.0	7° 15.5	7° 15.8	6° 16.6	6° 17.2	6° 17.5
	12° 14.7	12° 15.0	12° 15.3	10° 16.1	10° 16.6	10° 17.1
Horizontal Beamwidth Tolerance(°):	±4	±3	±3	±3.5	±2.8	±2.5
Vertical Beamwidth Tolerance(°):	±2.0	±1.8	±1.5	±1.5	±1.3	±1.2
USLS to 20° above beampeak(dB):	16.4	16.7	16.8	16.2	16.0	16.9
Front to back Ratio at 180° ± 30°(dB)	23.8	25.2	25.8	25.3	25.6	26.5
CPR at Boresight(dB):	15.8	16.2	15.6	16.2	16.5	15.8

BASTA Electrical Specification

Frequency Range(MHz):	1710-2170(B1)			2490-2690(Y1)
	1710-1880	1880-2025	2025-2170	2490-2690
Average Gain by all Beam Tilts (dBi):	14.8	15.3	15.5	16.3
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.5	±0.5	±0.5
Average Gain by Beam Tilt (dBi):	2° 14.8	2° 15.3	2° 15.5	2° 16.3
	6° 15.0	6° 15.5	6° 15.8	6° 16.5
	10° 14.7	10° 15.2	10° 15.3	10° 16.1
Horizontal Beamwidth Tolerance(°):	±3.5	±2.8	±2.5	±2.5
Vertical Beamwidth Tolerance(°):	±1.5	±1.3	±1.2	±1.2
USLS to 20° above beampeak(dB):	16.8	16.5	16.7	16.2
Front to back Ratio at 180° ± 30°(dB)	25.3	25.6	26.5	26.7
CPR at Boresight(dB):	16.2	16.5	16.8	17.0

Mechanical Data

Antenna Dimensions(mm):	1960×396×190
Packing Dimensions (mm):	2250×485×295
Antenna Net Weight/Bracket(kg):	33.5/5.9
Antenna Gross Weight(kg):	45.5
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00069101, Adjustable Downtilt 0°-12°
Connector Type:	12×4.3-10 Female



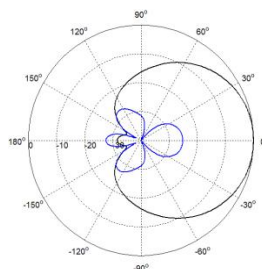
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:1047/325/1382
Max. Wind velocity(km/h):	200

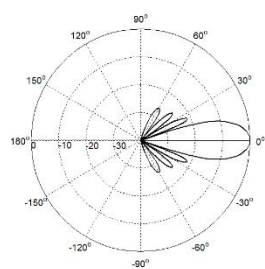
RET Specifications

RET Type:	Replaceable RET
RET protocol:	AISG 2.0 /3 GPP
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)

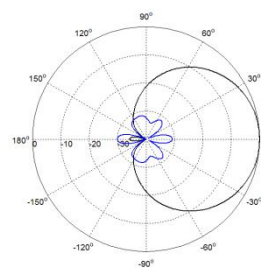
Typical Patterns



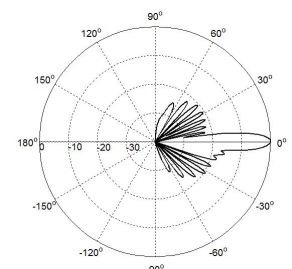
Azimuth(694-960MHz)



Elevation(694-960MHz)

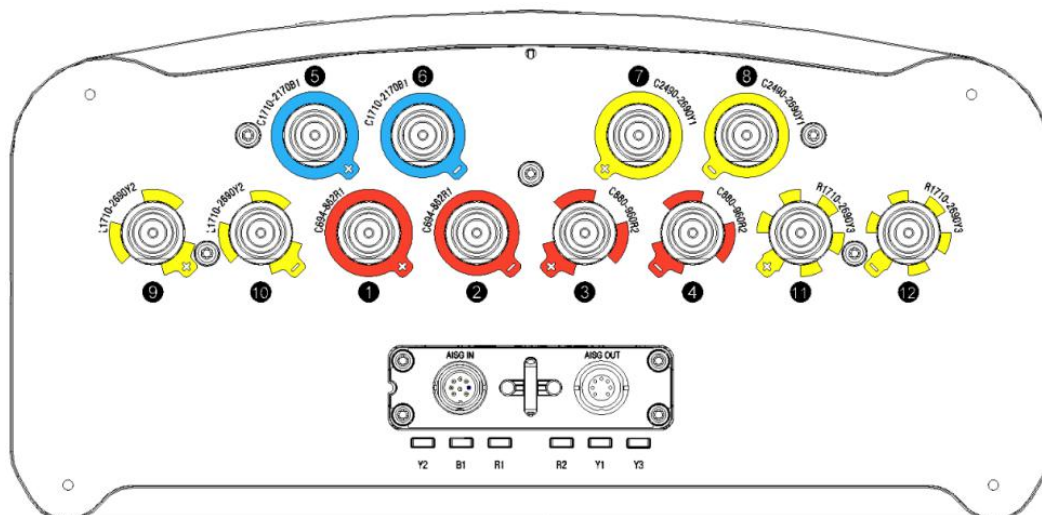


Azimuth(1710-2690MHz)



Elevation(1710-2690MHz)

Bottom View



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Correlation Table

Frequency range	Array	Connector	RET S/N
694-862 MHz	R1	1-2	BRxxx.....1R1
880-960 MHz	R2	3-4	BRxxx.....1R2
1710-2170 MHz	B1	5-6	BRxxx.....1B1
2490-2690 MHz	Y1	7-8	BRxxx.....1Y1
1710-2690 MHz	Y2	9-10	BRxxx.....1Y2
1710-2690 MHz	Y3	11-12	BRxxx.....1Y3

