

**XXXX Pol Panel Antenna 698-960/3x1710-2690MHz 65°/65° 16/17.5dBi 0°-10°/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):	14.4 ±0.5	15.2 ±0.5	15.1 ±0.5	16.6 ±0.5	17.1 ±0.5	17.7 ±0.5	15.9 ±0.5	16.0 ±0.5	16.3 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	69	65	60	69	65	58	69	65	58
Vertical 3dB Beamwidth (°):	11.0	9.5	8.5	7.5	6.5	5.2	7.0	5.7	5.3
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable			0-10 Independently Continuously Adjustable					
RET Type:	Cascade SRET, AISG 2.0, Upgradeable								
1 <sup>st</sup> Upper Sidelobe Suppression(dB):	15	16	15	15	16	15	15	16	14
Intraband Isolation (dB):	>26								
Interband Isolation (dB):	>28								
Max. Power Per Port (W):	250			200					
Intermodulation IM3 (dBc):	<-150 (2x43 dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								
Connector Type:	8x4.3-10 Female								

**BASTA Electrical Specifications**

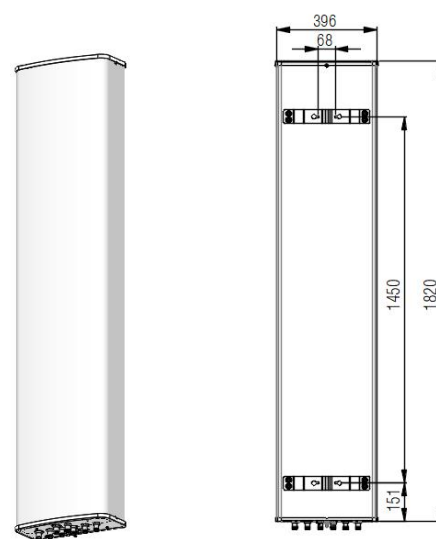
Frequency Range(MHz):	698-960(R1)		
	698-806	806-880	880-960
Average Gain by Beam Tilts (dBi):	14.2	15.0	14.9
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.5	±0.7
Average Gain by Beam Tilts (dBi):	0° 14.4 5° 14.2 10° 13.9	0° 15.1 5° 15.2 10° 14.6	0° 15.0 5° 15.1 10° 14.4
Horizontal BeamwidthTolerance(°):	±3.1	±1.3	±2.4
Vertical Beamwidth Tolerance(°):	±1.2	±0.5	±0.7
Upper Side Lobe Suppression, Peak to 20°(dB):	14.2	15.3	14.4
Front to back Total Power at 180° ± 30°(dB)	24.7	28.0	28.9
CPR at Boresight(dB):	16.4	17.1	17.4

## 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 Beam Tilts (dBi):	16.4	16.9	17.4	15.8	15.7	15.8
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.5	±0.5	±0.8	±0.7	±0.8
Average Gain by Beam Tilts (dBi):	0° 16.3	0° 16.6	0° 17.4	0° 15.8	0° 16.0	0° 16.3
	5° 16.6	5° 17.1	5° 17.7	5° 15.9	5° 15.9	5° 16.1
	10° 16.3	10° 16.8	10° 17.3	10° 15.7	10° 15.8	10° 16.0
Horizontal BeamwidthTolerance(°):	±2.9	±3.8	±2.5	±5.2	±3.8	±4.5
Vertical Beamwidth Tolerance(°):	±1.0	±0.7	±0.6	±0.9	±0.6	±0.6
Upper Side Lobe Suppression, Peak to 20°(dB):	14.3	15.1	14.4	14.4	15.7	13.7
Front to back Total Power at 180° ± 30°(dB)	26.6	27.5	27.7	26.5	27.4	27.5
CPR at Boresight(dB):	17.5	16.7	17.2	16.6	17.7	17.5

## Mechanical Data

Antenna Dimensions (mm):	1820×396×190
Packing Dimensions (mm):	2090×485×285
Antenna Net Weight/Bracket (kg):	27.5/5.9
Antenna Gross Weight (kg):	38.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069101, Adjustable Downtilt 0°-12°



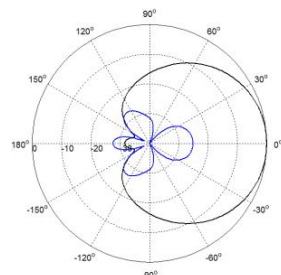
## Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/: 810/230/1065
Max.Wind velocity(km/h):	200

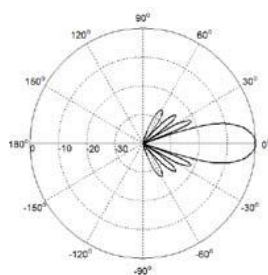
## Internal RET Specifications

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)

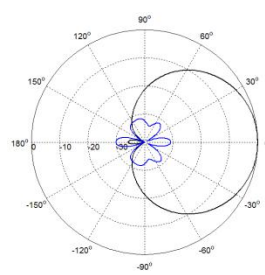
## Typical Patterns



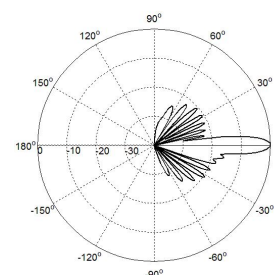
Azimuth(Low band)



Elevation(Low band)

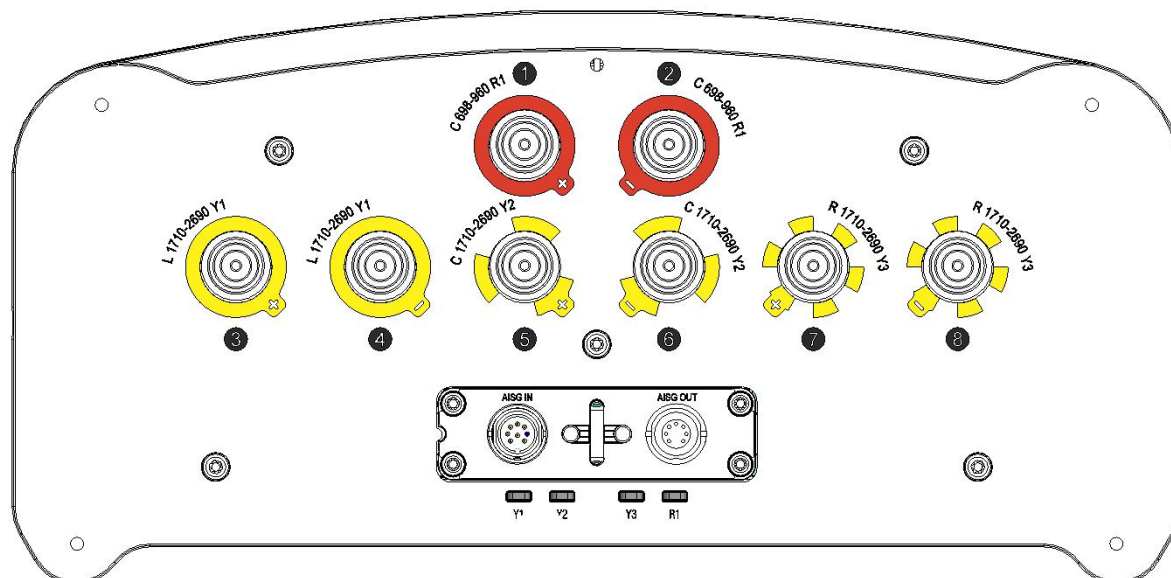


Azimuth(High band)



Elevation(High band)

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

