

**XXXXX Pol Panel Antenna 694-960/2×1710-2690/2×1710-2690MHz 65°/65°/65° 15/15.5/16dBi  
0°-10°/0°-10°/0°-10° Replaceable RET****Electrical Specifications**

Frequency Range (MHz):	694-960(R1)			1710-2690(Y1,Y3)			1710-2690(Y2,Y4)		
	694-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Gain (dBi):	14.3 ±0.5	15.0 ±0.5	15.2 ±0.5	15.3 ±0.5	15.6 ±0.5	16.0 ±0.5	15.0 ±0.5	15.3 ±0.5	15.6 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	72	68	65	68	65	57	66	62	57
Vertical 3dB Beamwidth (°):	15	13.5	11.2	10	8	7	10	8	7
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	15	15	15	15	15	15	15	15
Front to Back Ratio (dB):	22	24	24	25	25	25	25	25	25
Cross Polar Ratio 0°(dB):	15	15	15	15	15	15	15	15	15
Intraband Isolation (dB):	>26								
Interband Isolation (dB):	>28								
Max. Power Per Port (W):	250			200					
Intermodulation IM3 (dBc):	<-150(2×43dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								
Connector Type:	10×4.3-10 Female								

**BASTA Electrical Specification**

Frequency Range(MHz):	694-960(R1)			1710-2690(Y1,Y3)		
	694-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	14.5	14.9	15.2	15	15.9	16
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.5	±0.4	±0.8	±0.4	±0.5
Average Gain by Beam Tilt (dBi):	0°   14.5	0°   14.8	0°   15.2	0°   15	0°   15.8	0°   16
	5°   14.8	5°   15.2	5°   15.4	5°   15.2	5°   16.1	5°   16.2
	10°   14.2	10°   14.6	10°   14.9	10°   14.7	10°   15.7	10°   15.8
Horizontal Beamwidth Tolerance(°):	±2.4	±2	±1.5	±7.1	±5.7	±5.2
Vertical Beamwidth Tolerance(°):	±1.1	±0.8	±0.5	±1.5	±0.5	±0.4
USLS to 20° above beampeak(dB):	15.3	13.7	13.8	15	15.5	15.6
Front to back Ratio at 180° ± 30°(dB)	24.8	25	23.8	26.7	28.1	28.6
CPR at Boresight(dB):	16	18.4	18	20.2	19.8	20.8

**BASTA Electrical Specification**

Frequency Range(MHz):	1710-2690(Y2,Y4)		
	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	14.6	15.4	15.6
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.5	±0.5
Average Gain by Beam Tilt (dBi):	0°   14.6	0°   15.5	0°   15.7
	5°   14.7	5°   15.7	5°   15.8
	10°   14.4	10°   15.2	10°   15.4
Horizontal Beamwidth Tolerance(°):	±6.0	±5.0	±4.7

Vertical Beamwidth Tolerance(°):	±1.1	±0.5	±0.4
USLS to 20° above beampeak(dB):	16.4	16.8	16.5
Front to back Ratio at 180° ± 30°(dB)	25.8	28	27.3
CPR at Boresight(dB):	17.2	17.7	19.9

**Mechanical Data**

Antenna Dimensions(mm):	1650×339×169
Packing Dimensions (mm):	1990×425×260
Antenna Net Weight/Bracket(kg):	23/5.7
Antenna Gross Weight(kg):	32
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00069101, Adjustable Downtilt 0°-12°
Connector Type:	10×4.3-10 Female



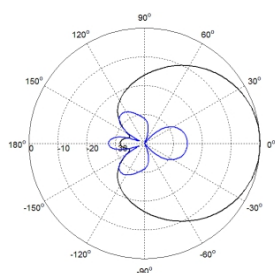
**Environmental Ratings**

Humidity:	95%RH@+30℃
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:714/238/870
Max. Wind velocity(km/h):	200

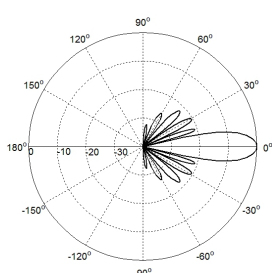
**Internal RET Specifications**

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)

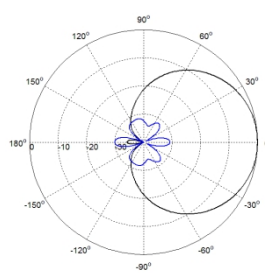
**Typical Patterns**



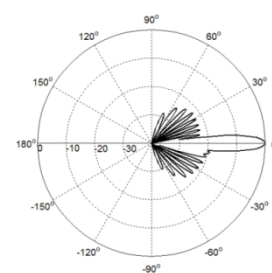
Azimuth(Low Band)



Elevation(Low Band)



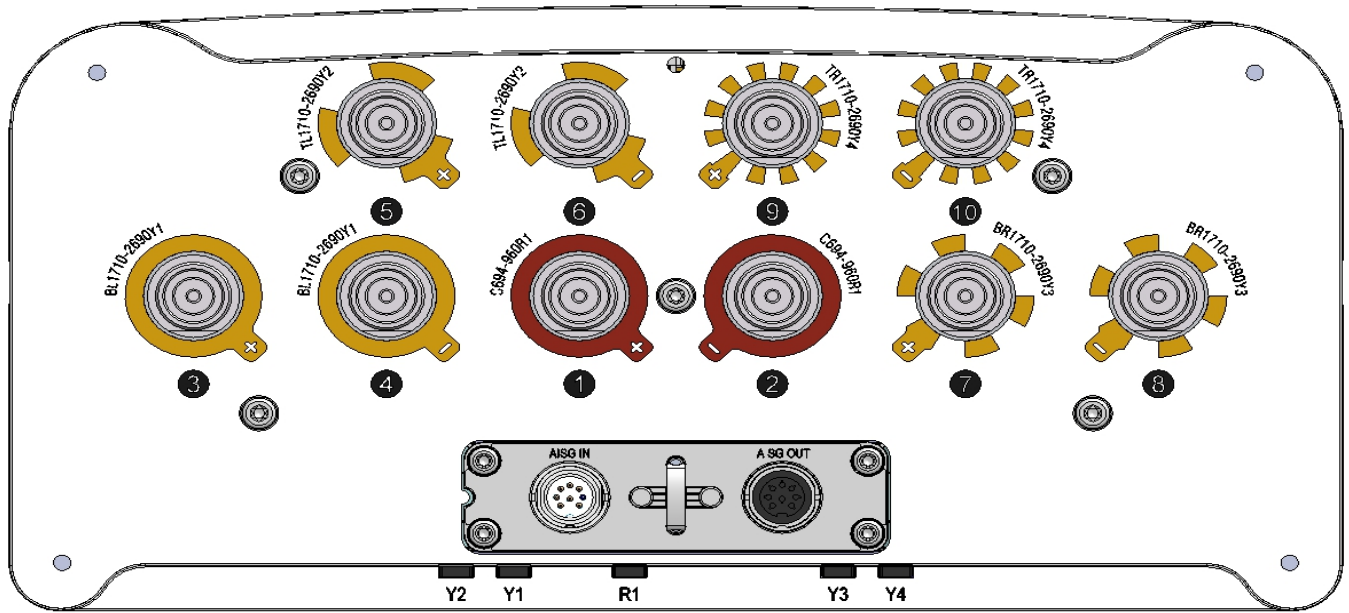
Azimuth(High Band)



Elevation(High Band)



Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
694-960 MHz	R1	1-2	BRxxx.....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
1710-2690 MHz	Y4	9-10	BRxxx.....5Y4

