

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

Frequency Range (MHz):	694-960(R1)			1710-2690(Y1,Y3)			1710-2690(Y2)		
	694-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Gain (dBi):	14.0 ±0.5	14.8 ±0.5	15.0 ±0.5	15.3 ±0.5	15.7 ±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 (°):	69	65	62	68	62	57	68	62	57
Vertical 3dB Beamwidth (°):	14	12.5	11.0	11.0	9.0	8.0	11.0	9.0	8.0
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable			0-10 Independently Continuously Adjustable					
RET Type:	Cascade SRET, AISG 2.0, Upgradeable								
1 st 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			>26			>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:	8×4.3-10 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):	14.1	14.6	14.8	14.8	15.4	15.8
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.5	±0.4	±0.3	±0.7	±0.6
Average Gain by Beam Tilt (dBi):	0° 14.3	0° 14.6	0° 14.9	0° 15.1	0° 15.6	0° 16.1
	5° 14.2	5° 14.8	5° 15.1	5° 14.8	5° 15.4	5° 15.9
	10° 13.8	10° 14.3	10° 14.5	10° 14.5	10° 15.1	10° 15.5
Horizontal Beamwidth Tolerance(°):	±3.5	±2.8	±2.5	±4.0	±3.6	±4.3
Vertical Beamwidth Tolerance(°):	±1.2	±0.8	±0.6	±1.2	±0.8	±0.6
USLS to 20° above beampeak(dB):	16.6	16.4	15.1	17.1	15.6	15.2
Front to back Ratio at 180° ± 30°(dB)	23.2	25.5	24.1	25.9	25.9	26.3
CPR at Boresight(dB):	17.4	17.7	16.8	18.8	16.2	19.2

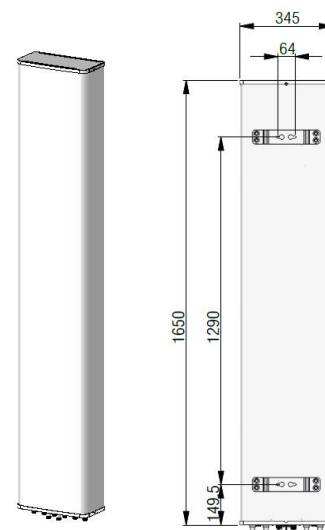
BASTA Electrical Specification

Frequency Range(MHz):	1710-2690(Y2)		
	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	14.6	15.0	15.3
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.5	±0.5
Average Gain by Beam Tilt (dBi):	0° 14.8	0° 15.2	0° 15.5
	5° 14.7	5° 15.0	5° 15.3
	10° 14.3	10° 14.7	10° 15.0
Horizontal BeamwidthTolerance(°):	±4.9	±4.1	±4.0

Vertical Beamwidth Tolerance(°):	±1.3	±0.8	±0.5
USLS to 20° above beampeak(dB):	15.6	15.8	15.7
Front to back Ratio at 180° ± 30°(dB)	25.9	27.2	26.5
CPR at Boresight(dB):	17.2	17.3	17.1

Mechanical Data

Antenna Dimensions(mm):	1650×339×169
Packing Dimensions (mm):	1940×425×260
Antenna Net Weight/Bracket(kg):	21/5.9
Antenna Gross Weight(kg):	31
Radome Material:	Fiberglass
Pipe OD (mm):	50-114
Mounting Kits (Included):	BA.K.04.00069141, Adjustable Downtilt 0°-18°



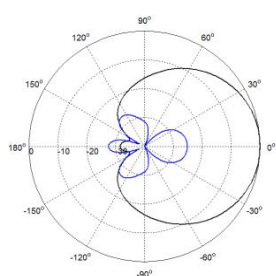
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:978/288/1142
Max. Wind velocity(km/h):	200

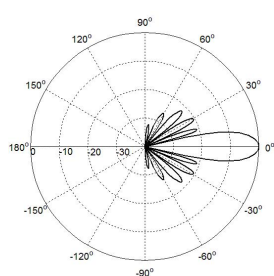
Internal RET Specifications

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:	8pin 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)

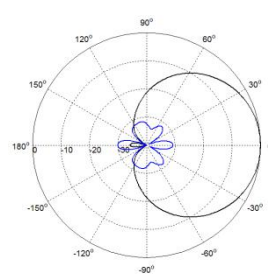
Typical Patterns



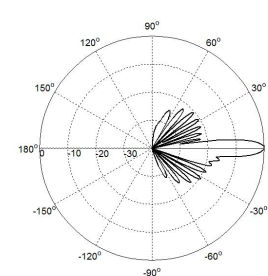
Azimuth(Low Band)



Elevation(Low Band)

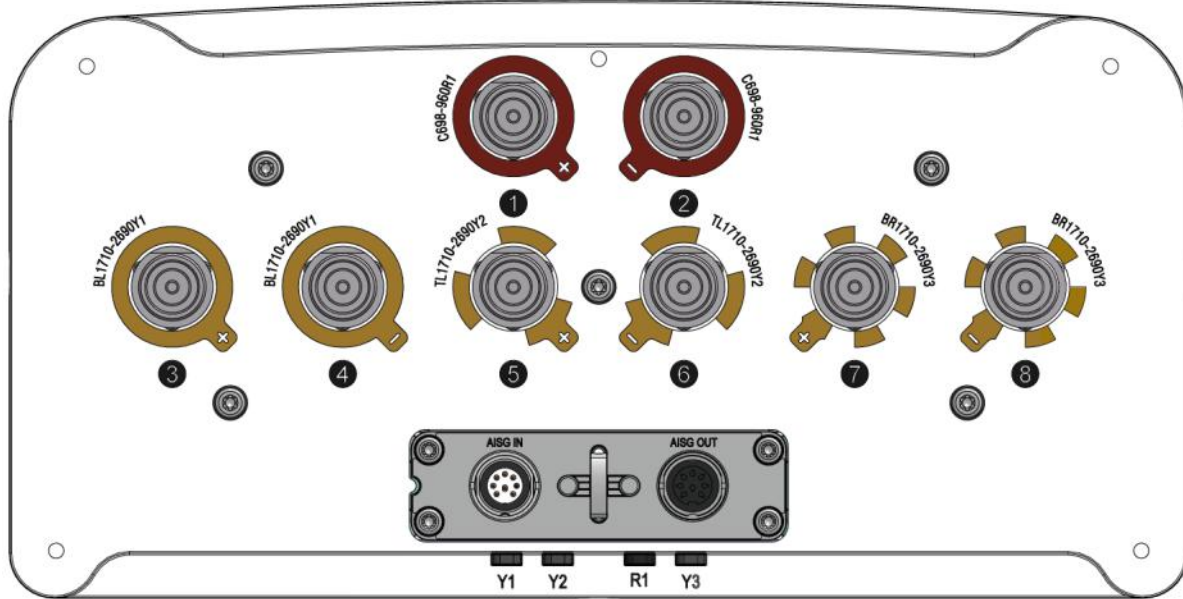


Azimuth(High Band)



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

