

XXXXX Pol Panel Antenna 694-960/2×1710-2690/2×1710-2690MHz 65°/65°/65° 16/16.5/16dBi
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):	14.7 ±0.5	15.4 ±0.5	15.7 ±0.5	15.5 ±0.5	16.3 ±0.5	16.5 ±0.5	15.1 ±0.5	15.8 ±0.5	16.0 ±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 (°):	13	11.5	10.2	9	8	7	9	8	7
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):	Tilt 0°-2°: >26 Tilt 3°-10°: >28			>28			>28		
Interband Isolation (dB):	>28								
Max. Power Per Port (W):	250			200					
Intermodulation IM3 (dBc):	<-150(2×43dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								

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):	14.9	15.2	15.5	15.4	16.1	16.4
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.6	±0.5	±0.7	±0.4	±0.5
Average Gain by Beam Tilt (dBi):	0° 14.8	0° 15.1	0° 15.4	0° 15.2	0° 16.0	0° 16.3
	5° 15.1	5° 15.4	5° 15.7	5° 15.5	5° 16.2	5° 16.6
	10° 14.6	10° 14.9	10° 15.2	10° 15.0	10° 15.7	10° 16.0
Horizontal Beamwidth Tolerance(°):	±3.2	±2.1	±1.8	±7.3	±4.9	±4.7
Vertical Beamwidth Tolerance(°):	±0.7	±0.6	±0.4	±1.3	±0.8	±0.6
USLS to 20° above beampeak(dB):	15.8	15.1	14.7	15.3	15.1	15.9
Front to back Ratio at 180° ± 30°(dB)	26.1	27.6	27.8	25.9	29.1	30.2
CPR at Boresight(dB):	16.9	19.3	18.2	17.8	19.8	20.1

BASTA Electrical Specification

Frequency Range(MHz):	1710-2690(Y2,Y4)		
	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	15.4	15.9	16.1
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.7	±0.7
Average Gain by Beam Tilt (dBi):	0° 15.2	0° 15.8	0° 16.1
	5° 15.6	5° 16.2	5° 16.3
	10° 15.0	10° 15.6	10° 15.7
Horizontal Beamwidth Tolerance(°):	±5.5	±4.0	±3.5

Vertical Beamwidth Tolerance(°):	±1.3	±0.4	±0.7
USLS to 20° above beampeak(dB):	15.5	15.4	16.1
Front to back Ratio at 180° ± 30°(dB)	26.7	28.2	29.3
CPR at Boresight(dB):	17.1	19.4	21.2

Mechanical Data

Antenna Dimensions(mm):	1960×339×169
Packing Dimensions (mm):	2300×425×260
Antenna Net Weight/Bracket(kg):	29/5.7
Antenna Gross Weight(kg):	38
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



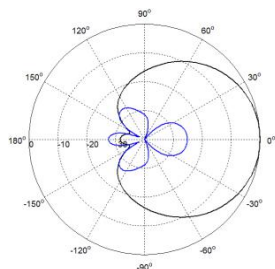
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 1206/358/1408
Max.Wind velocity(km/h):	200

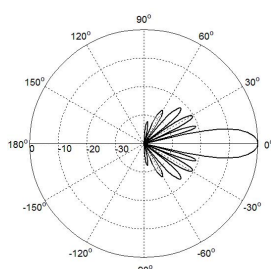
Internal RET Specifications

RET type:	Replaceable RET
RET protocol:	AISG2.0 /3GPP
Input voltagerange(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:	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)

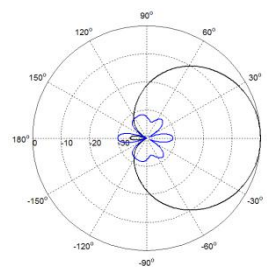
Typical Patterns



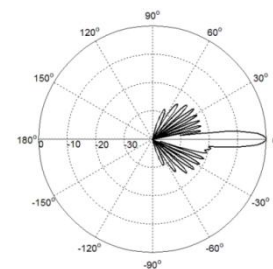
Azimuth(Low Band)



Elevation(Low Band)



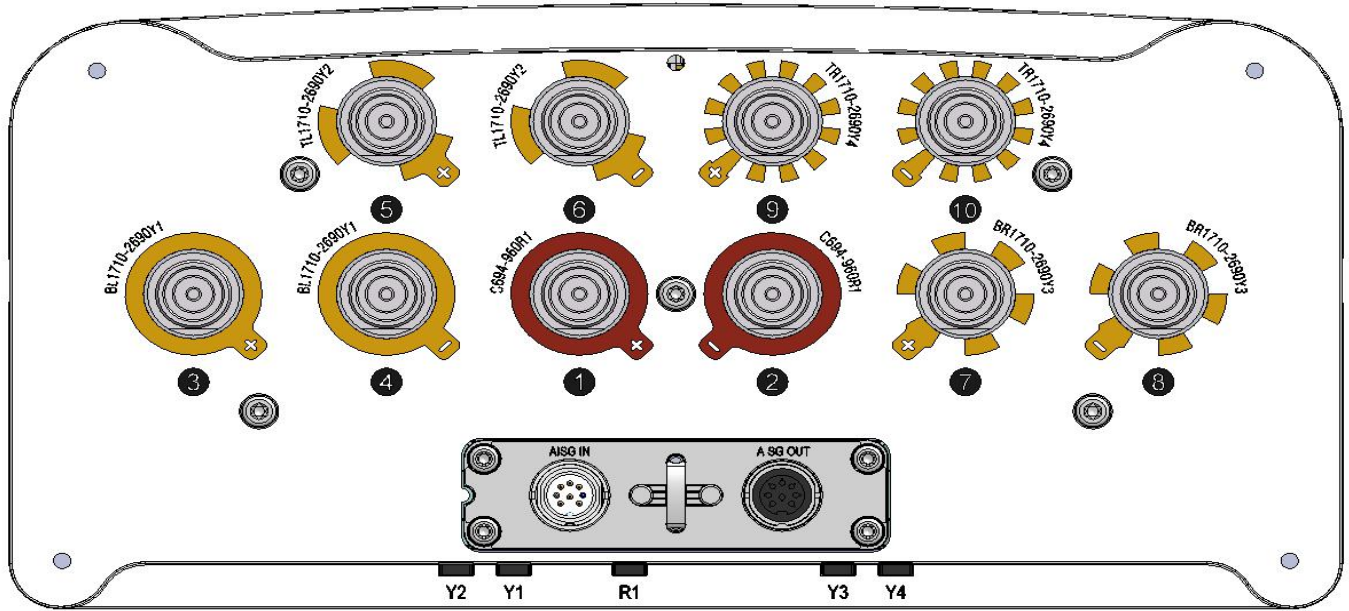
Azimuth(High Band)



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
1710-2690 MHz	Y4	9-10	BRxxx.....5Y4

