

XXXX Pol Panel Antenna 698-960/2×1710-2690/1710-2690MHz 65°/65°/65° 17/17.5/17dBi
0°-10°/0°-10°/0°-10° Replaceable RET

Electrical Specifications

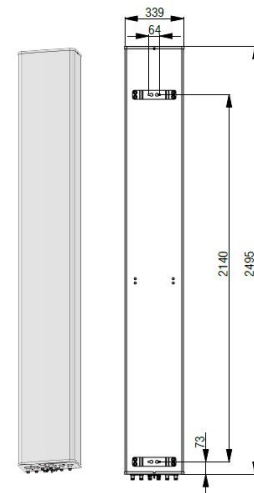
Frequency Range (MHz):	698-960(R1)			1710-2690(Y1,Y3)			1710-2690(Y2)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Gain (dBi):	15.7 ±0.5	16.2 ±0.5	16.7 ±0.5	16.0 ±0.5	16.6 ±0.5	17.3 ±0.5	15.5 ±0.5	16.1 ±0.5	16.7 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	68	65	62	68	62	57	68	62	57
Vertical 3dB Beamwidth(°):	9.5	8.2	7.2	6.8	5.8	5.3	6.8	5.8	5.3
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable								
1 st Upper Sidelobe Suppression (dB):	15	15	15	16	16	15	16	16	15
Front to Back Ratio (dB):	23	23	23	25	25	25	25	25	25
Cross Polar Ratio 0°(dB):	15	15	15	15	15	15	15	15	15
Intraband Isolation (dB):	>26			>28			>28		
Interband Isolation (dB):	>28								
Average power tolerance (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):	698-960(R1)			1710-2690(Y1)			1710-2690(Y2)			1710-2690(Y3)			
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690	
Average Gain by all Beam Tilts (dBi):	15.5	16.0	16.2	15.8	16.6	17.2	15.3	16.1	16.7	15.7	16.5	17.0	
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.4	±0.3	±0.6	±0.7	±0.6	±0.7	±0.6	±0.5	±0.6	±0.5	±0.6	
Average Gain by Beam Tilt (dBi):	0°	15.6	16.2	16.4	16.0	16.9	17.4	15.5	16.4	16.9	15.9	16.7	17.1
	5°	15.5	16.0	16.2	15.9	16.6	17.0	15.4	16.1	16.5	15.8	16.5	17.1
	10°	15.4	15.8	16.0	15.7	16.4	16.9	15.2	15.9	16.4	15.6	16.2	16.7
Horizontal Beamwidth Tolerance(°):	±1.4	±3.3	±1.6	±6.7	±3.8	±5.6	±4.2	±5.9	±4.2	±6.5	±5.3	±4.3	
Vertical Beamwidth Tolerance(°):	±0.8	±0.8	±0.5	±0.9	±0.7	±0.5	±1.1	±0.9	±0.4	±0.9	±0.6	±0.4	
USLS to 20° above beampeak(dB):	17.0	15.4	15.6	21.6	22.0	19.1	17.3	21.0	17.6	20.5	22.3	18.7	
Front to back Ratio at 180° ± 30°(dB)	27.0	28.3	29.0	29.7	31.7	31.6	28.5	31.5	30.3	28.6	31.0	31.2	
CPR at Boresight(dB):	23.0	24.0	21.8	24.5	22.1	25.5	24.2	20.5	24.1	22.5	23.5	26.8	

Mechanical Data

Antenna Dimensions (mm):	2495×339×169
Packing Dimensions (mm):	2785×425×260
Antenna Net Weight/bracket (kg):	28.1/5.9
Antenna Gross Weight (kg):	38.3
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00069091, Adjustable Downtilt0°-10°



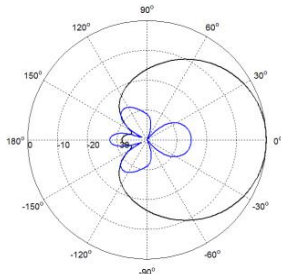
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:1568/464/1830
Max. Wind velocity(km/h):	200

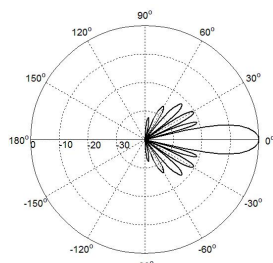
Internal RET Specifications

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)

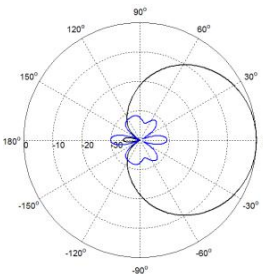
Typical Patterns



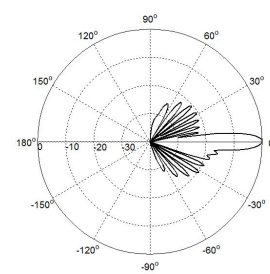
Azimuth(Low Band)



Elevation(Low Band)

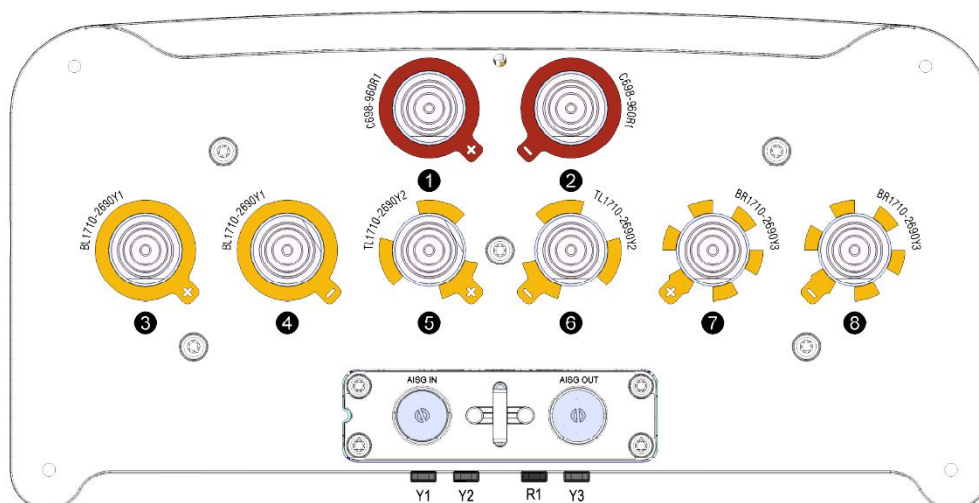


Azimuth(High Band)



Elevation(High Band)

Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
698–960MHz	R1	1-2	BRxxx.....1R1
1710–2690MHz	Y1	3-4	BRxxx.....2Y1
1710–2690MHz	Y2	5-6	BRxxx.....3Y2
1710–2690MHz	Y3	7-8	BRxxx.....4Y3

