

XXXXXX Pol Panel Antenna 2×698-960/4×1710-2690MHz 65°/65° 15.5/18dBi 2-12°/2-12°

Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Gain (dBi):	14.2 ±0.5	14.9 ±0.5	14.7 ±0.5	16.4 ±0.5	16.9 ±0.5	16.8 ±0.5	16.2 ±0.5	17.0 ±0.5	16.7 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	64	59	61	68	64	61	68	63	62
Vertical 3dB Beamwidth (°):	11.7	10.2	9.3	7.3	6.2	5.6	7.3	6.2	5.5
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable								
RET Type:	Cascade SRET, AISG 2.0, Upgradeable								
1 st Upper Sidelobe Suppression (dB):	15	15	14	16	15	15	16	15	15
Intraband Isolation (dB):	>25								
Interband Isolation (dB):	>25								
Max. Power Per Port (W):	250			200					
Intermodulation IM3 (dBc):	<-150(2×43 dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								
Connector Type:	12×4.3-10 Female								

BASTA Electrical Specifications

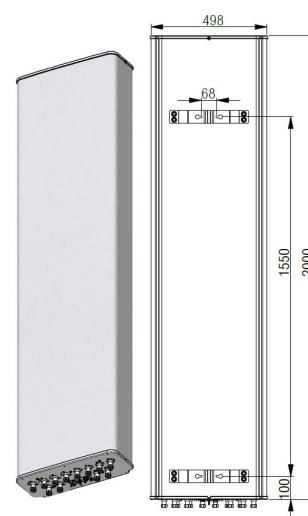
Frequency Range(MHz):	698-960(R1,R2)		
	698-806	806-880	880-960
Average Gain by Beam Tilts (dBi):	14.1	14.7	14.6
Gain by all Beam Tilts Tolerance(dB):	±0.9	±0.5	±0.5
Average Gain by Beam Tilts (dBi):	2° 14.1 7° 14.2 12° 13.8	2° 14.6 7° 14.9 12° 14.6	2° 14.5 7° 14.7 12° 14.6
Horizontal Beamwidth Tolerance(°):	±7.9	±5.3	±5.0
Vertical Beamwidth Tolerance(°):	±0.9	±0.5	±0.6
Upper Side Lobe Suppression, Peak to 20°(dB):	13.8	13.5	13.0
Front to back Total Power at 180° ± 30°(dB)	20.0	22.1	22.0
CPR at Boresight(dB):	19.8	19.4	19.0

BASTA Electrical Specifications

Frequency Range(MHz):	1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by Beam Tilts (dBi):	16.2	16.6	16.4	16.1	16.9	16.5
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.6	±0.9	±0.5	±0.6	±0.6
Average Gain by Beam Tilts (dBi):	2° 16.4	2° 16.9	2° 16.8	2° 16.0	2° 17.2	2° 16.6
	7° 16.2	7° 16.6	7° 16.4	7° 16.2	7° 17.0	7° 16.7
	12° 16.1	12° 16.2	12° 15.9	12° 16.0	12° 16.4	12° 16.0
Horizontal Beamwidth Tolerance(°):	±5.2	±2.8	±4.9	±5.6	±4.8	±9.8
Vertical Beamwidth Tolerance(°):	±0.8	±0.3	±0.4	±0.6	±0.3	±0.4
Upper Side Lobe Suppression, Peak to 20°(dB):	14.7	14.5	14.6	14.3	14.6	14.4
Front to back Total Power at 180° ± 30°(dB)	25.5	29.6	24.1	25.6	28.7	25.7
CPR at Boresight(dB):	19.0	19.0	19.1	19.6	19.1	15.1

Mechanical Data

Antenna Dimensions (mm):	2000×498×197
Packing Dimensions (mm):	2270×585×290
Antenna Net Weight/Bracket (kg):	34/5.9
Antenna Gross Weight (kg):	46
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069121, Adjustable Downtilt 0-14°



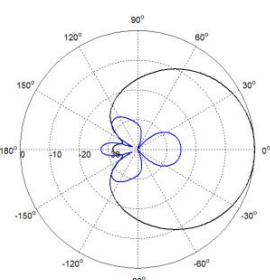
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/: 1292/229/1310
Max.Wind velocity(km/h):	200

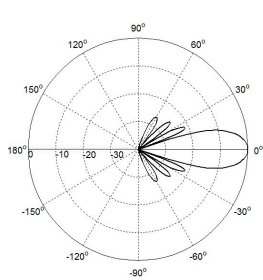
Internal RET Specifications

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)

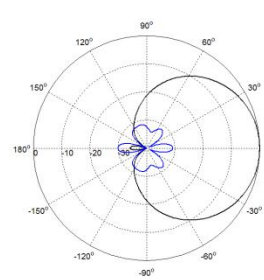
Typical Patterns



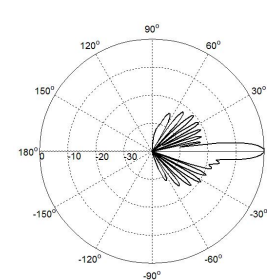
Azimuth(Low band)



Elevation(Low band)

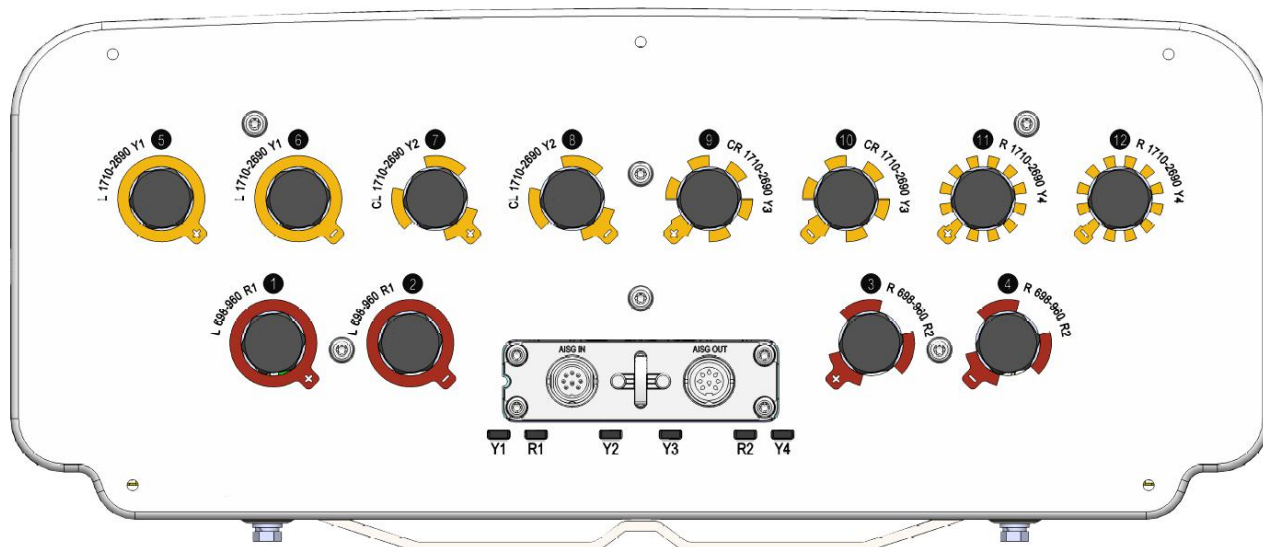


Azimuth(High band)



Elevation(High band)

Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
698–960 MHz	R1	1-2	BRxxx.....1R1
698–960 MHz	R2	3-4	BRxxx.....2R2
1710–2690 MHz	Y1	5-6	BRxxx.....3Y1
1710–2690 MHz	Y2	7-8	BRxxx.....4Y2
1710–2690 MHz	Y3	9-10	BRxxx.....5Y3
1710–2690 MHz	Y4	11-12	BRxxx.....6Y4

