

XXXXXX Pol Panel Antenna 2×698-960/4×1710-2690MHz 65°/65° 14/18dBi 0-14°/0-10° Replaceable RET
Electrical Specifications

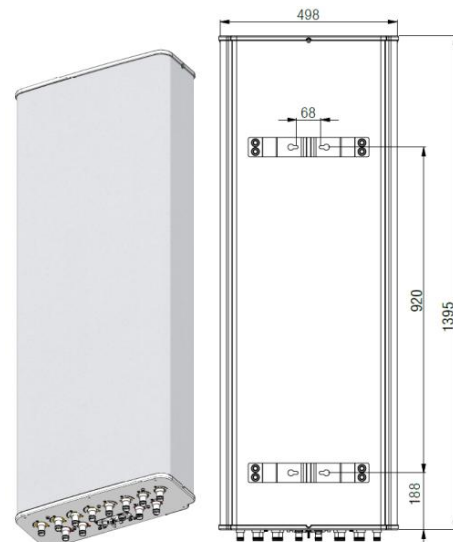
Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	698 -806	806 -880	880 -960	1710 -2170	2300 -2490	2490 -2690	1710 -2170	2300 -2490	2490 -2690
Gain (dBi):	12.9 ±0.5	13.7 ±0.5	13.8 ±0.5	17.0 ±0.5	17.9 ±0.5	18.3 ±0.5	16.8 ±0.5	17.9 ±0.5	18.2 ±0.5
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB Beamwidth (°):	69	65	65	67	65	60	66	64	61
Vertical 3dB Beamwidth (°):	17	15	13.5	6.7	5.4	4.9	6.7	5.4	4.9
Electrical Downtilt (°):	0-14 Independently Continuously Adjustable			0-10 Independently Continuously Adjustable					
1 st Upper Sidelobe Suppression (dB):	15	15	15	15	15	15	15	15	15
Intraband Isolation (dB):	>25								
Interband Isolation (dB):	>25								
Power Rating (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 Specification

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
Average Gain by all Beam Tilts(dBi):	12.9	13.6	13.7	16.8	17.7	18.0	16.6	17.6	17.9
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.5	±0.6	±0.6	±0.5	±0.7	±0.6	±0.6	±0.7
Average Gain by Beam Tilt (dBi):	0° 129	0° 13.6	0° 13.7	0° 16.9	0° 17.7	0° 18.2	0° 16.6	0° 17.6	0° 18.2
	7° 129	7° 13.7	7° 13.8	5° 17.0	5° 17.9	5° 18.3	5° 16.8	5° 17.9	5° 18.2
	14° 129	14° 13.6	14° 13.6	10° 16.7	10° 17.5	10° 17.6	10° 16.4	10° 17.4	10° 17.4
3dB Horizontal Beamwidth Tolerance(°):	±7.0	±7.0	±9.0	±7.0	±5.0	±8.0	±8.0	±5.0	±6.0
3dB Vertical Beamwidth Tolerance(°):	±1.5	±1.4	±1.2	±0.9	±0.6	±0.6	±0.9	±0.5	±0.6
Upper Side Lobe Suppression, Peak to 20°(dB):	14	14	14	14	14	14	14	14	14
Front to back Total Power at 180° ± 30°(dB):	20	21	21	25	25	25	25	25	25
CPR at Boresight(dB):	18	18	18	18	18	18	18	18	18

Mechanical Data

Antenna Dimensions (mm):	1395×498×197
Packing Dimensions (mm):	1655×580×285
Antenna Net Weight /Bracket (kg):	28/5.9
Antenna Gross Weight (kg):	38.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069371, Adjustable Downtilt 0°-20°



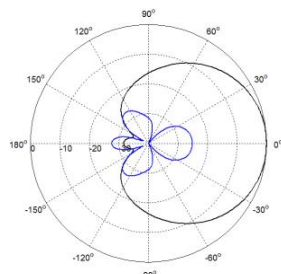
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:887/158/900
Max. Wind velocity(km/h):	200

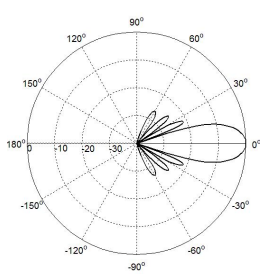
Internal RET Specifications

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:	one 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)

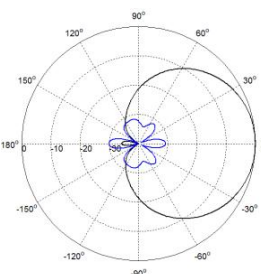
Typical Patterns



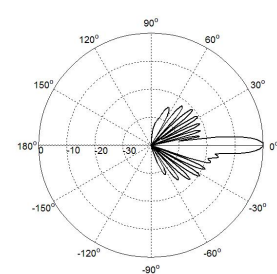
Azimuth(Low band)



Elevation(Low band)

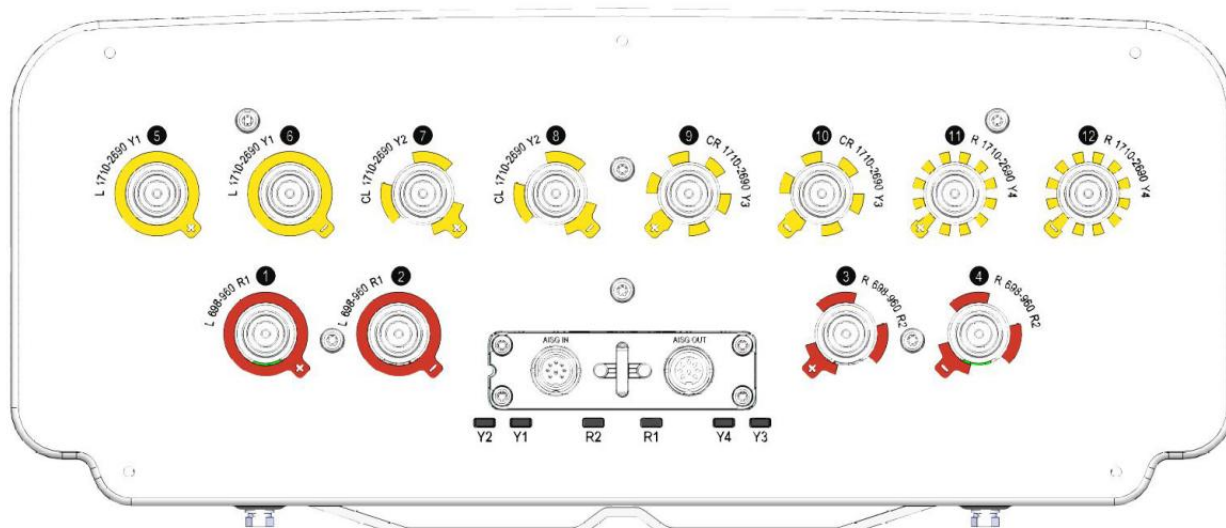


Azimuth(High band)



Elevation(High band)

Bottom View



Typical Patterns

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

