

XXX Pol Panel Triple Beam Antenna 3×698-960MHz 22° 18dBi 4-12° RET with manual override**Electrical Specifications**

Frequency Range (MHz):	Beam 2 (Port 3/4, Middle)		
	698-960(R2)		
	698-790	790-880	880-960
Gain (dBi):	17±0.5	17.5±0.5	18.1±0.5
Horizontal 3dB beamwidth (°):	22	19.5	18
Horizontal Beam Pointing (°):	0	0	0
Vertical 3dB beamwidth (°):	17	16	14

Frequency Range (MHz):	Beam 1 (Port 1/2, Left)/ Beam 3 (Port 5/6, Right)					
	698-960(R1,R3)					
	698-790		790-880		880-960	
	B1	B3	B1	B3	B1	B3
Gain (dBi):	16.3±0.5	16.1±0.5	16.6±0.5	16.6±0.5	17.7±0.5	17.7±0.5
Horizontal 3dB beamwidth (°):	26	26	22	22	20	20
Horizontal Beam Pointing (°):	41	-40	36	-36	34	-33
Vertical 3dB beamwidth (°):	22	22	20	20	18	18

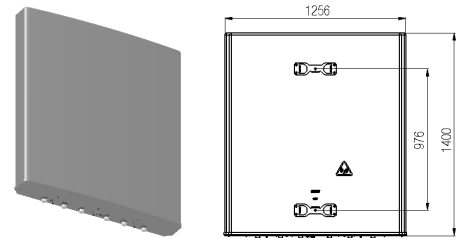
Frequency Range (MHz):	All Beams (Port 1 to 6)		
	698-790	790-880	880-960
Return Loss (dB):	>14 (VSWR<1.5)		
Polarization (°):	±45		
Electrical Downtilt (°):	4-12		
Upper Sidelobe Suppression (dB):	18	18	18
Front to Back Ratio @180±30°(dB):	25	28	30
Isolation Between Polarizations (dB):	25		
Max. Power Per Port (W):	250		
Total Power for the Antenna (W):	800		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		
Connector Type:	6×7/16 DIN Female		

BASTA Electrical Specifications

Frequency Range (MHz):	698-790	790-880	880-960
Average Gain by all Beam Tilts (dBi):	15.8	16.5	17.1
Gain by all Beam Tilts Tolerance(dB):	±1.1	±0.7	±0.8
Average Gain by Beam Tilt (dBi):	15.9 4°	16.6 4°	17.4 4°
	15.9 8°	16.5 8°	17.1 8°
	15.7 12°	16.3 12°	16.7 12°
Horizontal Beamwidth Tolerance(°):	±3.6	±3.2	±2.4
Vertical Beamwidth Tolerance(°):	±3.5	±3.4	±3.1
USLS beampeak to 20° above beampeak(dB):	18.3	19.1	18.2
Front to back Total Power at 180° ± 30°(dB):	26.2	28.2	29.9
CPR at Boresight(dB):	17.0	18.0	17.4

Mechanical Data

Antenna Dimensions (mm):	1400×1256×210
Packing Dimensions (mm):	1561×1377×301
Antenna Net Weight/Bracket (kg):	61.5/6.1
Antenna Gross Weight (kg):	82
Radome Material:	Fiberglass
Pipe OD (mm):	90-114
Mounting Kits (Included):	BA.K.04.00005, Adjustable Downtilt 0-12°(0-12°in 2°steps)



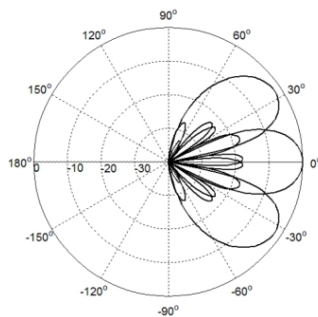
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 2987/185/2608
Max.Wind velocity(km/h):	150

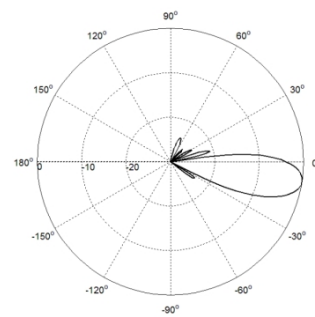
Internal RET Specifications

RET type:	Integrated 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 8 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

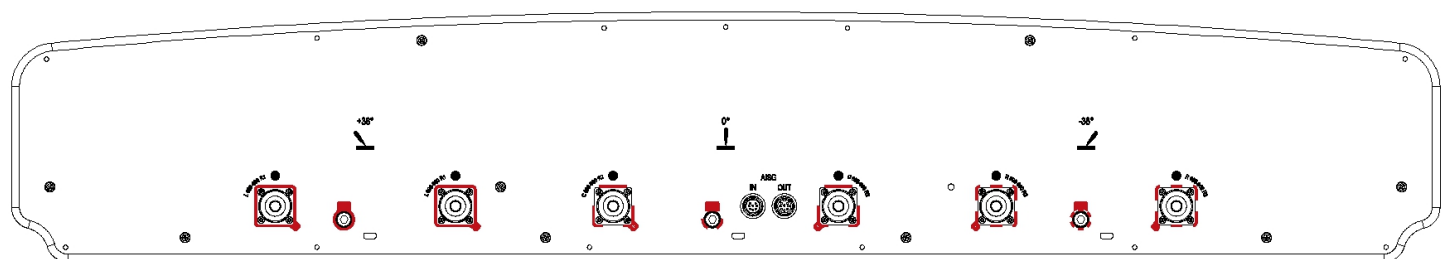


Azimuth



Elevation

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
698-960 MHz	R3	5-6	BRxxx.....3R3

