

3XXX Pol Tube Antenna 3×698-960/6×1710-2690MHz 65°/65° 14/17dBi 0°-10°/0°-10° RET**Electrical Specifications**

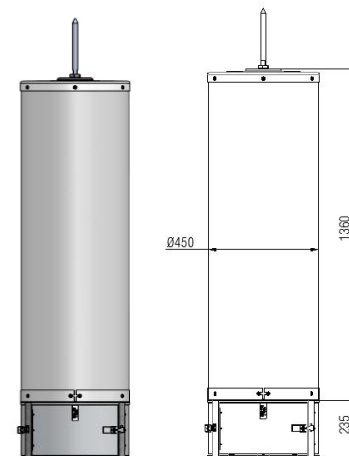
Frequency Range (MHz):	3×698-960(R1)				6×1710-2690 (Y1,Y2)			
	698-803	790-862	824-894	880-960	1710 -1990	1920 -2200	2200 -2490	2490 -2690
Gain (dBi),	13.0±0.5	13.3±0.5	13.6±0.5	14.0±0.5	16.0±0.5	16.5±0.5	16.7±0.5	17.0±0.5
Return Loss (dB):	>14 (VSWR<1.5)							
Polarization:	±45°							
Horizontal 3dB Beamwidth (°):	73±7	67±6	66±6	65±5	68±6	65±6	62±5	60±5
Vertical 3dB Beamwidth (°),	19.2±1.8	17.2±1.7	16.5±1.6	15.0±1.5	8.5±0.6	7.5±0.6	7.0±0.6	6.5±0.6
Electrical Downtilt (°):	0-10				0-10			
RET Type:	RET Cascade SRET, AISG 2.0, Upgradeable							
1 st Upper Sidelobe Suppression (dB):	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15
Front to Back Ratio 180±30°(dB):	≥23	≥23	≥24	≥25	≥25	≥25	≥25	≥25
Cross Polar Ratio 0° (dB)	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15
Cross Polar Ratio ±60°(dB):	10	9	9	8	8	8	7	5
Intraband Isolation (dB):	≥25				≥26			
Interband Isolation (dB):	≥28							
Max. Power Per Port (W):	250				200			
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)							
Impedance (ohm):	50							
Lightning Protection:	DC Grounded							
Connector Type:	18×4.3-10 Female							

BASTA Electrical Specification

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	698-803	790-862	824-894	880-960	1710 -1990	1920 -2200	2200 -2490	2490 -2690
Average Gain by all Beam Tilts (dBi):	12.7	13.2	13.4	13.7	16.1	16.4	16.7	17.0
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.4	±0.3	±0.3	±0.4	±0.4	±0.5	±0.5
Average Gain by Beam Tilt (dBi):	0° 12.9 5° 12.7 10° 12.5	0° 13.3 5° 13.2 10° 13.0	0° 13.5 5° 13.4 10° 13.2	0° 13.8 5° 13.7 10° 13.5	0° 16.2 5° 16.1 10° 16.0	0° 16.6 5° 16.3 10° 16.2	0° 16.8 5° 16.7 10° 16.5	0° 17.2 5° 17.0 10° 16.8
Horizontal Beamwidth Tolerance(°):	±5.1	±4.3	±3.6	±3.1	±3.9	±5.1	±4.5	±3.3
Vertical Beamwidth Tolerance(°):	±1.8	±1.2	±1.4	±1.4	±0.9	±0.5	±0.4	±0.3
USLS to 20° above beampeak(dB):	17.0	19.5	18.5	19.0	16.6	17.8	17.4	16.1
Front to back Ratio at 180° ± 30°(dB)	25.8	25.8	25.5	24.8	28.3	32.3	32.5	33.9
CPR at Boresight(dB):	17.8	17.3	16.9	17.9	22.8	19.5	19.2	23.7
CPR at Sector(dB):	10.1	9.2	9.1	8.2	11.0	10.3	8.5	5.9

Mechanical Data

Antenna Dimensions (mm):	Φ450(Diameter)×1360(Length, mounting base excluded)
Packing Dimensions (mm):	1830(Length)×605(Width)×730(Height)
Antenna Net Weight (kg):	84
Antenna Gross Weight (kg):	125
Radome Material:	Fiberglass
Mounting Kits (Included):	Flange Mounted



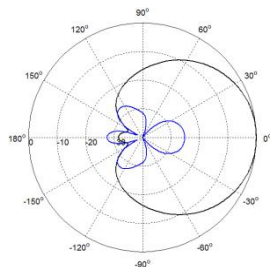
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40~+70
Wind Load @150 km/h (N):	573
Max.Wind velocity(km/h):	200

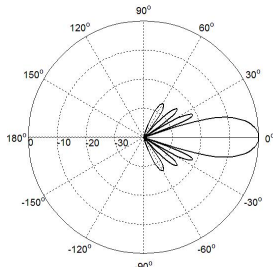
Internal RET Specifications

RET type:	Integrated 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 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)

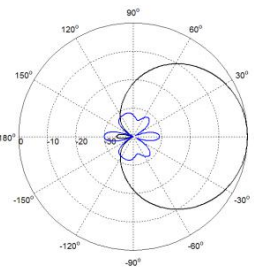
Typical Patterns



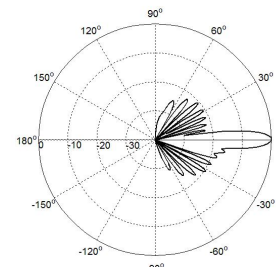
Azimuth(Low band)



Elevation(Low band)



Azimuth(High band)



Elevation(High band)

Bottom View

