

**3XXX Pol Tube Antenna 3×4×1710-2690MHz 65°14.5dBi 2°-12° RET****Electrical Specifications**

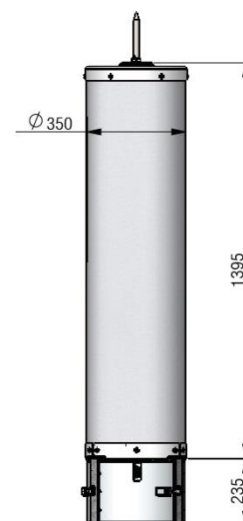
Frequency Range (MHz):		3×4×1710-2690(Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9,Y10,Y11,Y12)		
		1710-2170	2300-2490	2490-2690
Gain (dBi):	Top	13.2±0.5	13.7±0.5	14.0±0.5
	Bottom	13.4±0.5	14.0±0.5	14.4±0.5
Return Loss (dB):		>14 (VSWR<1.5)		
Polarization:		±45°		
Horizontal 3dB Beamwidth(°):		68±6	65±6	60±6
Vertical 3dB Beamwidth (°):		16	13	12
Electrical Downtilt (°):		2-12 Independently Continuously Adjustable Two Systems in one Sector Controlled by the Same Motor		
1 <sup>st</sup> Upper Sidelobe Suppression (dB):		15		
Front to Back Ratio (dB):		>23		
Cross Polar Ratio 0° (dB):		>15		
Isolation Port to Port (dB):		>25		
Max. Power Per Port (W):		150		
Intermodulation IM3 (dBC):		<-145 (2×43 dBm)		
Impedance (ohm):		50		
Lightning Protection:		DC Grounded		
Connector Type:		6×MQ4		

**BASTA Electrical Specifications**

Frequency Range(MHz):		1710-2690(Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9,Y10,Y11,Y12)		
		1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):		13.25	13.94	14.17
Gain by all Beam Tilts Tolerance(dB):		±0.44	±0.27	±0.36
Average Gain by Beam Tilt (dBi):	2°   13.4	2°   14.0	2°   14.3	
	7°   13.2	7°   13.9	7°   14.2	
	12°   12.9	12°   13.8	12°   14.0	
Horizontal Beamwidth Tolerance(°):		±5.23	±3.55	±4.06
Vertical Beamwidth Tolerance(°):		±1.40	±0.77	±0.60
USLS beampeak to 20° above beampeak(dB):		15.23	15.55	15.18
Front to back Total Power at 180° ± 30°(dB):		22.98	26.1	27.0
CPR at Boresight(dB):		16.12	16.96	15.11

**Mechanical Data**

Antenna Dimensions (mm):	Φ350(Diameter)×1395 (Length, mounting base excluded )
Packing Dimensions (mm):	1835(Length)×465(Width)×590(Height)
Antenna Net Weight (kg):	48.5
Antenna Gross Weight (kg):	81
Radome Material:	Fiberglass
Mounting Kits (Included):	Flange Mounted

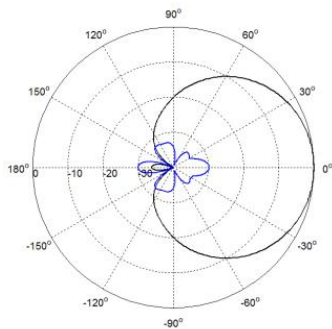
**Environmental Ratings**

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	498
Max. Wind velocity (km/h):	200

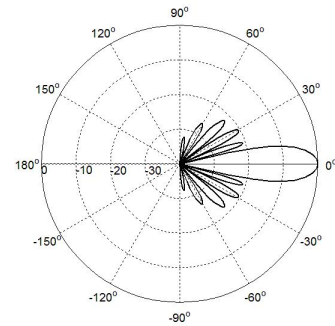
## Internal RET Specifications

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:	2 pair of AISG 8 pin male & female per sector
Pin assignment according AISG:	8pin 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

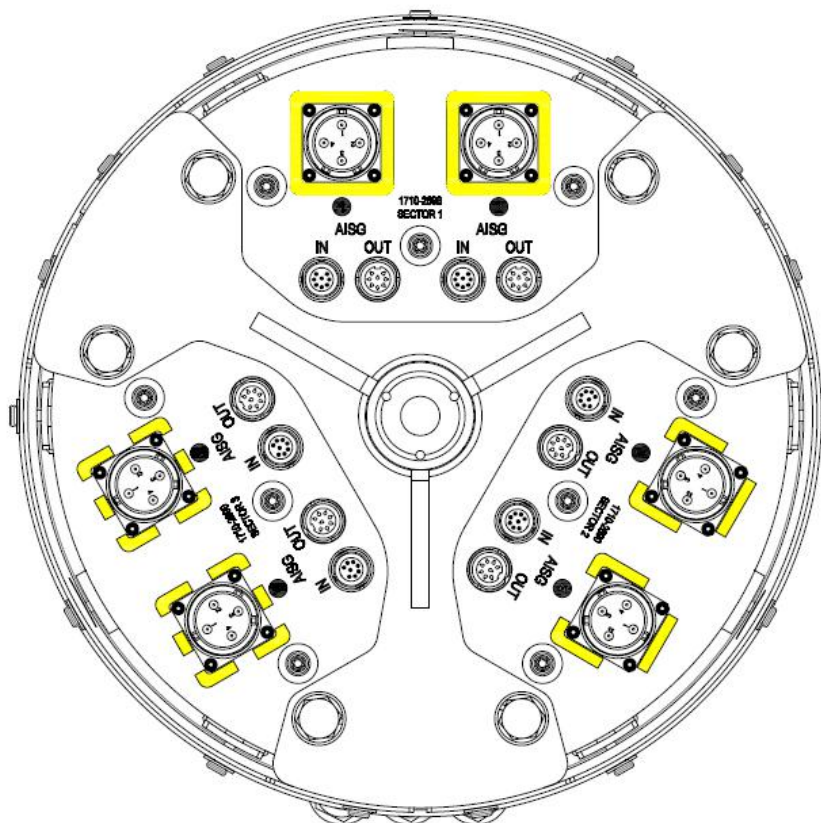


Azimuth



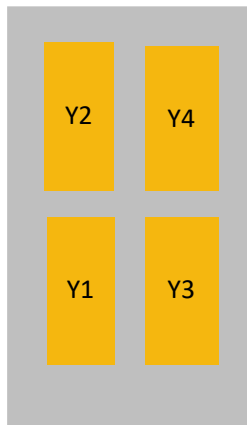
Elevation

## Bottom View

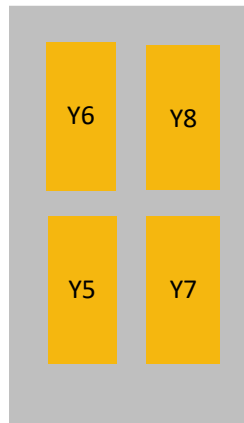


**Correlation Table**

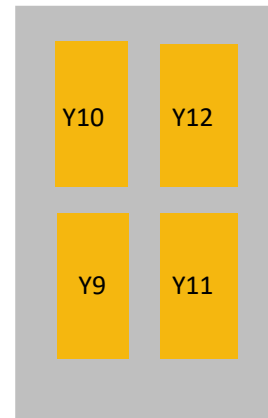
Frequency range	Array	Sector	MQ4 Connector	RET S/N
1710–2690MHz	Y1/Y2	1	1	BRxxx.....Y1Y2
1710–2690MHz	Y3/Y4	1	2	BRxxx.....Y3Y4
1710–2690MHz	Y5/Y6	2	3	BRxxx.....Y5Y6
1710–2690MHz	Y7/Y8	2	4	BRxxx.....Y7Y8
1710–2690MHz	Y9/Y10	3	5	BRxxx.....Y9Y10
1710–2690MHz	Y11/Y12	3	6	BRxxx.....Y11Y12



Sector1



Sector2



Sector3