

X Pol Panel TD Antenna 2300-2690MHz 65° 17dBi 2°-12° Replaceable RET

General Electrical Properties			
General Parameters	Frequency Range (MHz)	2300-2400(Y1)	2500-2690(Y1)
	Polarization	±45	
	Electrical Downtilt (°)	2-12, continuously adjustable	
	Lightning Grounding	DC Grounded	
Calibration and Electrical Parameters	Coupling Factor between calibration port and each antenna port (dB)	-26±2	
	Max Amp/Phase Deviation:	≤1.2/12°	
	VSWR:	≤1.5	
	Co- polarization Isolation between ports (dB):	≥20@2T-6T, ≥25@7T-12T	
	Cross-polarization Isolation Between Ports (dB):	≥25	
Avg. power per input(W)	≥150		

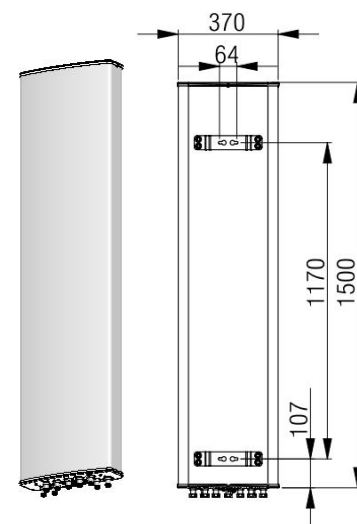
Beamforming Electrical Properties				
Radiation parameters	Frequency Range (MHz)		2300-2400(Y1)	2500-2690(Y1)
	Single Column	Horizontal 3dB Beamwidth (°):	70±10	65±15
		Gain(dBi):	16.2±0.8	16.5±0.8
		Vertical 3dB Beamwidth (°):	6.8	6.0
		Cross Polar Ratio 0° (dB):	≥15	≥15
		Front to Back Ratio (dB):	≥24	≥24
		First upper Side lobe suppression (dB)	≥15	≥15
	Broadcast Beam	Gain(dBi):	16.2±0.8	16.5±0.8
		±32.5° SPR(%)	72±10	72±10
		±60° SPR(%)	≥90	≥90
		±60° Gain roll-off at sector edge (dB)	12±6	12±6
		Vertical 3dB Beamwidth (°):	6.8	6.0
		Front to Back Ratio (dB):	≥25	≥25
	Service Beam @ 0deg	First upper Side lobe suppression (dB)	≥15	≥15
		Gain(dB):	21.0±0.8	21.5±0.8
		Horizontal 3dB Beamwidth (°):	18	17
		Horizontal sidelobe level (°):	≤-12	≤-12
		Cross Polar Ratio 0° (dB):	≥18	≥18
	Service Beam@ ±60deg	Front to Back Ratio (dB):	≥26	≥26
		Gain(dB):	18.0±0.5	18.5±0.5
Horizontal 3dB Beamwidth (°):		22	20	
	Horizontal sidelobe level (°):	≤0	≤0	

BASTA Electrical Specifications

	2300-2400(Y1)	2500-2690(Y1)
Average Gain by all Beam Tilts (dBi):	16.2	16.4
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.5
Average Gain by Beam Tilt (dBi):	2° 16.2 7° 16.4 12° 16.0	2° 16.3 7° 16.6 12° 16.2
Horizontal Beamwidth Tolerance(°):	±5.7	±6.8
Vertical Beamwidth Tolerance(°):	±0.3	±0.4
1st Upper Sidelobe Suppression (dB) :	15.5	15.1
Front to back Total Power at 180° ± 30°(dB):	30.1	29.6
CPR at Boresight(dB):	23.3	22.7

Mechanical Data

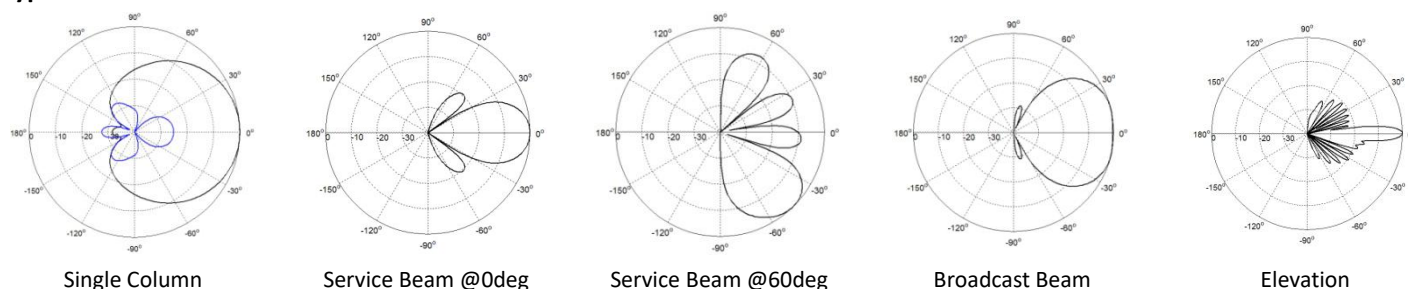
Mechanical Data	
Antenna Dimensions (mm):	1500×370×124
Packing Dimensions (mm):	1820×455×220
Antenna Net Weight/Bracket (kg):	18.6/5.9
Antenna Gross Weight (kg):	28
Connector Type:	8+1(Cal)4.3-10 female
Radome Material:	Fiberglass
Pipe OD (mm):	50-114
Mounting Kits (Included):	BA.K.04.00069141, Adjustable Downtilt 0°-18°
Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:797/98/650
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:	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



Bottom View



Correlation Table

Frequency Range	Array	Connector	RET
2300-2690MHz	Y1	1-8	BRxxx.....Y1

