Cylindrical antenna (3 sector)

Model: EHST103A

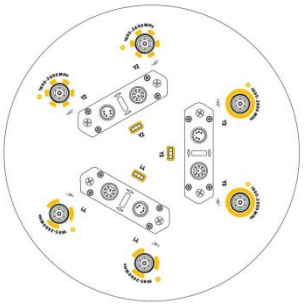
EAHiSON

ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	Y1/Y2/Y3 (1695-2690)			
	1695-1990	1920-2180	2300-2400	2490-2690
Polarization	±45°			
Gain over all tilts (dBi)	13±0.5	13.2±0.5	13.5±0.5	14±0.5
Horizontal 3dB beam width(°)	65±6	65±6	65±6	65±6
Vertical 3dB beam width(°)	13.5±0.8	12.5±0.8	11.8±0.8	11.0±0.8
Front to back ratio(dB)	≥24	≥24	≥25	≥25
Cross polar ratio(0°)(dB)	≥12	≥13	≥13	≥13
Upper side lobe suppression (dB)	≥15	≥16	≥16	≥15
Electrical Downtilt (°)	2-12			
Electrical Downtilt accuracy (°)	±1			
Ports VSWR	≤1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25			
Intermodulation IM3 (2×43dBm)	≤-150dBc			
Impedance (Ω)	50			
Max Input Power (W)	150			

MECHANICAL SPECIFICATIONS

Connector(s)	6×4.3-10 female
Connector position	Bottom
Antenna Dimensions (mm)	1000×Φ280
Packing Dimensions (mm)	1800×400×400
Mechanical Downtilt kits (°)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤50
Packing weight (kg)	≤60
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	233/233/233N
Operating temperature (℃)	-40 ~ +60
Maximum Wind Speed(km/h)	200
Mounting Pipe Diameter (mm)	Φ50~Φ115
RET type	Replaceable Integrated RET



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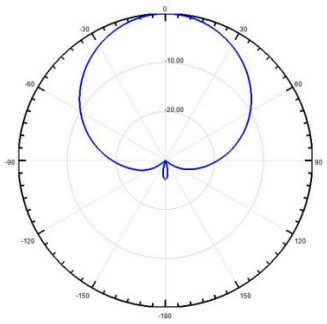
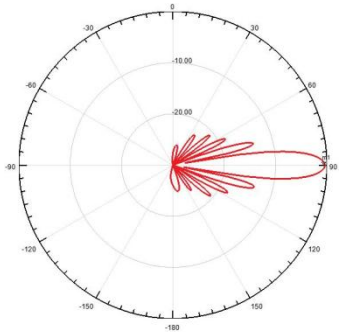
Integrated RET Properties

RET type	Replaceable Integrated RET
RET protocol	AISG 2.0/3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6(Idle,12V),≤6(in Motion,12V)
Adjustment time (Full Range)	≤4Mins
Adjustment cycles	> 50,000
Temperature range(℃)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5& Pin3; 5KA(8/20μs) @ Pin1/ Pin6& Pin7
Connectors	2 x 8 Pin circle connector according To IEC 60130- 9 And AISG.Daisy chain in:Male,Daisychain out :Female Pin1:12V;Pin3:RS485B;Pin5:RS485A;Pin6:10- 30V; Pin7:GND; Pin2 &Pin4 & Pin8:N/C

Pattern



H Pattern



E Pattern