

Narrow beam width 1

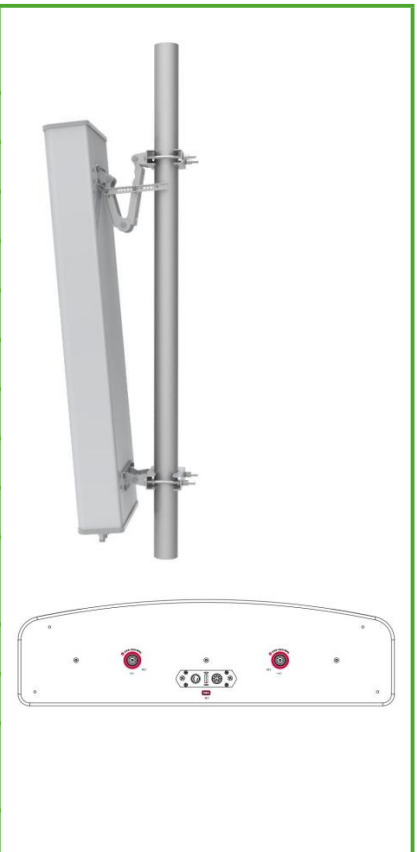
Model : EHST301A

ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	R (698-960)		
	698-824	791-894	880-960
Polarization	±45°	±45°	±45°
Gain over all tilts (dBi)	18.0±0.9	18.3±0.9	18.6±0.8
Horizontal 3dB beam width(°)	37±9	33±8	29±7
Vertical 3dB beam width(°)	11.0±1.8	10.3±1.0	9.5±1.0
Front to back ratio(dB)	≥24	≥26	≥24
Cross polar ratio(0°)(dB)	≥15	≥16	≥15
Upper side lobe suppression (dB)	≥15	≥15	≥15
Electrical Downtilt (°)	2-12		
Electrical Downtilt accuracy (°)	±2		
Ports VSWR	≤1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	≥25		
Intermodulation IM3 (2×43dBm)	≤-153dBc		
Impedance (Ω)	50		
Max Input Power (W)	1500		

MECHANICAL SPECIFICATIONS

Connector(s)	2×4.3-10 female
Connector position	Bottom
Antenna Dimensions (mm)	2350×499×199
Packing Dimensions (mm)	/
Mechanical Downtilt kits (°)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤43
Packing weight (kg)	≤53
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	2142/293/2320 N
Operating temperature (°C)	-40 ~ +60
Maximum Wind Speed(km/h)	200
Mounting Pipe Diameter (mm)	Φ50~Φ115
RET type	Replaceable Integrated RET



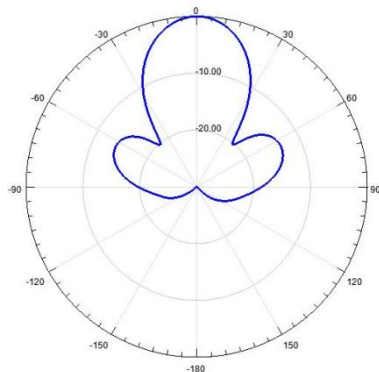
Narrow beam width 1

Model : EHST301A

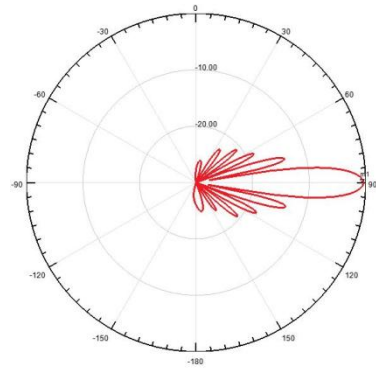
Integrated RET Properties

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)	≤ 4 Mins
Adjustment cycles	> 50,000
Temperature range(°C)	-40~65
Lightning protection	3KA(8/20 μ s) @ Pin5& Pin3; 5KA(8/20 μ s) @ Pin1/ Pin6& Pin7
Connectors	2 x 8 Pin circle connector according To IEC 60130- 9 And AISG.Daisy chain in: Male,Daisychainout :FemalePin1:12V;Pin3:RS485B;Pin5:RS485A;Pin6:10- 30V;Pin7:GN D; Pin2 &Pin4 & Pin8:N/C

Pattern



H Pattern



E Pattern

R