

Hybrid antenna FDD+TDD

Model : EHST101A



ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	R1/R2 (698-960)			Y1/Y2/Y3/Y4 (1695-2690)			
	698-824	791-894	880-960	1695-1990	1920-2180	2300-2400	2490-2690
Polarization							
Gain over all tilts (dBi)	14.8±0.8	15.2±0.8	15.7±0.8	17.5±0.9	17.8±0.8	18.3±0.8	18.6±0.9
Horizontal 3dB beam width(°)	67±6	64±7	59±7	37±6	34±6	32±6	29±6
Vertical 3dB beam width(°)	11.0±1.0	10.2±0.9	9.1±1.0	9.2±0.9	7.9±0.8	7.1±0.8	6.5±0.8
Front to back ratio(dB)	≥22	≥23	≥25	≥24	≥24	≥25	≥25
Cross polar ratio(0°)(dB)	≥15	≥15	≥15	≥15	≥15	≥15	≥15
Upper side lobe suppression (dB)	≥15	≥16	≥15	≥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)	≤ -153dBc						
Impedance (Ω)	50						
Max Input Power (W)	1000						

MECHANICAL SPECIFICATIONS

Connector(s)	12×4.3-10 female
Connector position	Bottom
Antenna Dimensions (mm)	2190×500×158
Packing Dimensions (mm)	2480×560×200
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



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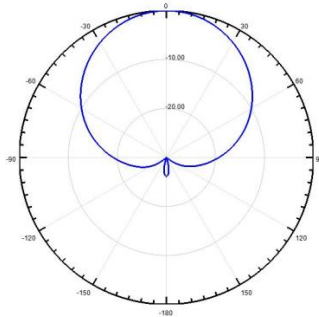
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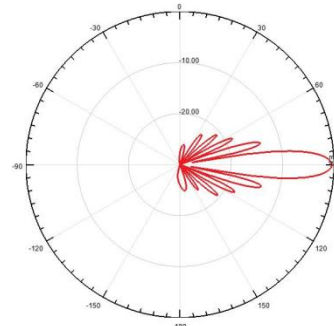
Integrated RET Properties

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)	≤ 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,Daisychain out :Female Pin1:12V;Pin3:RS485B;Pin5:RS485A;Pin6:10- 30V;Pin7: GND; Pin2 &Pin4 & Pin8:N/C

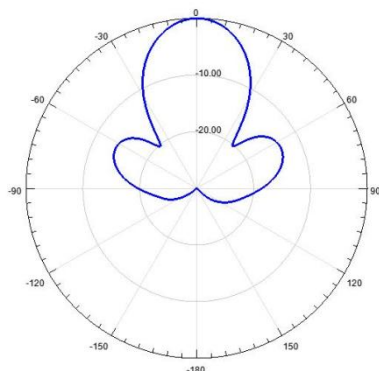
Pattern



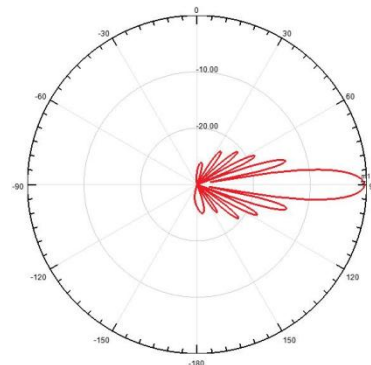
690-960 H Pattern



690-960 E Pattern



690-960 H Pattern



690-960 E Pattern

