

TDD antenna

Model : EHST201A



ELECTRICAL SPECIFICATIONS

General Parameters	Frequency Range (MHz)		Y(2490-2690)
			2490-2690
	Polarization		$\pm 45^\circ$
	Electrical Downtilt ($^\circ$)		2-12
Calibration and Electrical Parameters	Electrical Downtilt accuracy ($^\circ$)		± 1
	Coupling factor between calibration port and each antenna port(dB)		-26 $\pm$ 2
	Max.amplitude tolerance from calibration port to input ports(dB)		≤ 1.0
	Max.phase tolerance from calibration port to input ports($^\circ$)		≤ 8
	Ports VSWR		≤ 1.5
	Impedance (Ω)		50
	Max Input Power (W)		300
	Co-polarization isolation between ports(dB)		≥ 25
Radiation Parameters	Single Column Beam	Horizontal 3dB beam width($^\circ$)	65 $\pm$ 5
		Gain (dBi)	≥ 16
		Vertical 3dB beam width($^\circ$)	5 $\pm$ 2
		Cross polar ratio(0 $^\circ$)(dB)	≥ 15
		Cross polar ratio($\pm 60^\circ$)(dB)	≥ 8
		Front to back ratio(dB)	≥ 26
		Upper side lobe suppression (dB)	≤ -15
	Broadcast beam	Gain (dBi)	≥ 16
		SPR($\pm 32.5^\circ$)(%)	70 $\pm$ 15
		SPR($\pm 60^\circ$)(%)	≥ 85
		Vertical 3dB beam width($^\circ$)	5 $\pm$ 2
		Front to back ratio(dB)	≥ 26
		Upper side lobe suppression (dB)	≤ -15
	Service beam	0 $^\circ$ direct beam gain(dBi)	≥ 21
		0 $^\circ$ direct beam horizontal 3dB beam width($^\circ$)	≤ 30
		0 $^\circ$ direct beam sidelobe suppression(dB)	≤ -15
		0 $^\circ$ direct beam cross polar ratio(axial)(dB)	≥ 17
		0 $^\circ$ direct beam front to back ratio(dB)	≥ 26
		$\pm 30^\circ$ direct beam gain(dBi)	≥ 19

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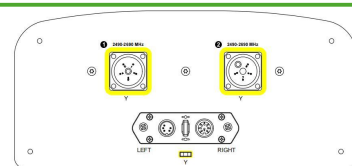
MECHANICAL SPECIFICATIONS

Connector(s)	2×(MQ4+MQ5)Connector-Male
Connector position	Bottom
Antenna Dimensions (mm)	1400×320×140
Packing Dimensions (mm)	1645×415×240
Mechanical Downtilt kits (°)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤19
Packing weight (kg)	≤29
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	796/163/921N
Operating temperature (°C)	-40 ~ +60
Maximum Wind Speed(km/h)	200
Mounting Pipe Diameter (mm)	Φ50~Φ115

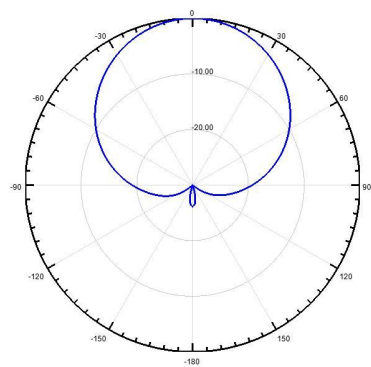


Integrated RET Properties

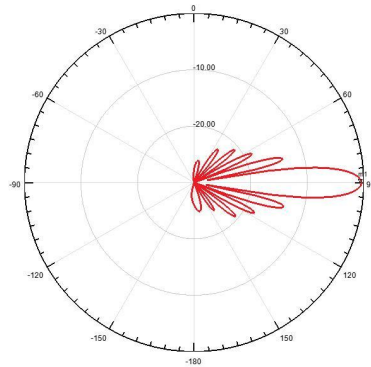
RET type	Replaceable Integrated RET
RET protocol	AISG 2.0/3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6(Idle,12V), ≤6(in Motion,12V)
Adjustment time (Full Range)	≤4Mins
Adjustment cycles	> 50,000
Temperature range(°C)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5& Pin3; 5KA(8/20μs) @ Pin1/ 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:GN D; Pin2 &Pin4 & Pin8:N/C



Pattern



H Pattern



E Pattern

