

Starwin 0.8m Ku/Ka Band Maritime Antenna Datasheet



Features:

- Quick and Easy Ku- to Ka-band Conversion.
- Adopting motor direct drive and three-axis stabilization system for high reliability.
- Utilizing hat-shaped feed design for higher efficiency and better side lobe characteristics.
- Fast initial pointing time to satellite: GPS/BD module cold start positioning time to satellite <80s, hot start (or manual input) <60s.
- High tracking accuracy: tracking error <0.5dB (RMS) without occlusion.
- Excellent Tracking Stability: The azimuth adopts a closed-loop stability algorithm, which can accurately track the satellite even during rapid turning or "S" move.
- Fast occlusion recovery time: Occlusion time <5min, recovery time <3s; Occlusion time <20min, recovery time <5s.
- Rapid satellite switching: switching time between different satellites <8s.
- Easy to operate: It can achieve dynamic satellite alignment, dynamic satellite switching, and other functions during move.
- Standardized modular components: system modular design, simple interface specification, convenient fault diagnosis and maintenance.

China Starwin Science&Technology Co., Ltd.

Tel: +8629-88664381, E-mail: sales@starwincom.com, <http://www.starwincom.com>

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Specifications:

Ku/Ka Band Maritime Antenna Datasheet					
Overall Specifications					
Model		SW080	Type		SMC, circularly symmetrical reflector and hat-shaped feed
Working Frequency, Ku Band	Tx	13.75 ~ 14.5 GHz	Antenna Gain, dBi Ku Band	Tx	≥39.3+20lg(f/14.0)
	Rx	10.7 ~ 12.75 GHz		Rx	≥38.1+20lg(f/12.25)
Working Frequency Ka Band	Tx	27.5 ~ 31.0 GHz	Antenna Gain, dBi Ka Band	Tx	≥45.5+20lg(f/29.4)
	Rx	17.7 ~ 21.2 GHz		Rx	≥42.2+20lg(f/19.6)
EIRP	Ku	≥ 50.5 dBW @ 16W BUC	G/T	Ku	≥17.8 dB/K (Typ.)
	Ka	≥ 53.5 dBW @ 8W BUC		Ka	≥18.7 dB/K (Typ.)
Polarization Mode	Ku	Linear Polarization	XPD, Ku Band		35 dB, on axis
	Ka	Circular Polarization	Axis Ratio, Ka Band		1.5 dB
VSWR Ka/Ku Band	Tx	1.3:1	Tx – Rx Isolation		85 dB
	Rx	1.5:1	Rx – Tx Isolation		30 dB
GPS		Built In	WiFi		Built In, IEEE 802.11b/g/n
IF Specifications					
Input Power (Modem Output)			-35 ~ 0dBm		
IF Input (Modem Output) ¹			0.95 GHz ~ 1.7 GHz		
IF Output (Modem Input) ²			0.95 GHz ~ 2.15 GHz		
Internal Modem	Select small-size Modems according to customer requirements, such as IQ200, UHP210/220, etc.		External Modem		Customized
Tracking Specifications					
Tracking Mode	Combining inertial measurement with signal tracking		Tracking Rate	Az	90°/s
Tracking Receive Type	Integrated tracking system, DVB-S2, DVB-S2X			EI	90°/s
Capture Time of First Boot	<120s			Roll	90°/s
Repeat Boot	<30s				

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Recapture Time After loss		≤5s (Occlusion 20min)	
Pointing Accuracy		≤ 0.2° (R.M.S)	
Stable Mode of Base		Three-axis stabilization, four-axis tracking	
Mechanical Specifications			
Rotation Range	Az	N×360°, unlimited	
	EI	-20°~ 120°	
	Roll	±35°	
	Pol	±120°	
Interface			
Power Interface		Waterproof Quick Plug	
Physical Dimensions and Electrical Specifications			
Radome Height	1120 mm (Exclude mounting bracket)	Radome Dimension	1100×1120mm
Weight	65 Kg (Include mounting plate)	Power Input (With Adapter)	AC100~230V/ 50Hz-60Hz
Power Consumption	≤ 220 W (not include BUC and Modem)		
Environmental Specifications			
Operating Temperature	-30°C~+55°C	Ingress Protection	IP67
Storage Temperature	-40°C~+60°C	Operating Wind	60 m/s in any direction
Relative Humidity	0%~98%		

Note: 1. Dependent on Modem;
2. Dependent on Modem.