

Starwin V9-OTM45 Maritime Terminal Datasheet (8W)



Terminal Photo

Introduction:

Starwin V9-OTM45 maritime terminal adopts high-efficiency flat panel antenna and intelligent stable tracking structure, ensuring that the antenna always accurately tracks the satellite under harsh sea conditions, enabling the terminal to have satellite communication capabilities in motion and meet the uninterrupted network access under dynamic conditions, such as video conferencing, voice calling, fax, file transmission, and other high-bandwidth multimedia data transmission needs. The terminal adopts an ultra-low profile design to adapt to vessels space and meet modification needs.

China Starwin Science & Technology Co., Ltd.

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

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Key Features:

- Innovative design: High gain flat array antenna, unique heat dissipation design;
- Lightweight: The terminal has a small volume and can meet the needs of small space vessels;
- Integration: The terminal integrates all satellite communication components into the radome, with only one waterproof interface connected to the onboard network and power supply system, making it convenient for vessels modification.
- Low energy consumption: Peak power consumption less than 150W, reducing vessels power supply load;
- High speed rate: It meets the requirements of high-throughput satellite network access and can provide high-speed rate Satellite Network.

Specifications:

V9-OTM45 Maritime Terminal				
Overall Specifications of Terminal				
Model		V9 OTM45	Type	Flat Panel Horn Array Antenna
Working Frequency	Tx	13.75 ~ 14.5 GHz	Antenna Gain	≥33dBi @14.50 GHz
	Rx	13.75 ~ 14.5 GHz		≥32dBi @12.75 GHz
EIRP		≥ 42dBW@ 8W BUC	G/T	≥ 11dB/K
Polarization		LP/CP (Can be changed by software)	GPS	Built In
Rx LO.		10.6/9.75 GHz (Switching through commands)	WiFi	Built In, IEEE 802.11b/g/n
Tx LO.		12.8 GHz	Colour	White (More than 500 units can be customized according to user needs)
IF Specifications				
Input Power (Modem Output)		-35 ~ 0dBm		
IF Input (Modem Output)		0.95 GHz ~ 1.7 GHz		
IF Output (Modem Input)		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 ≥100°/s

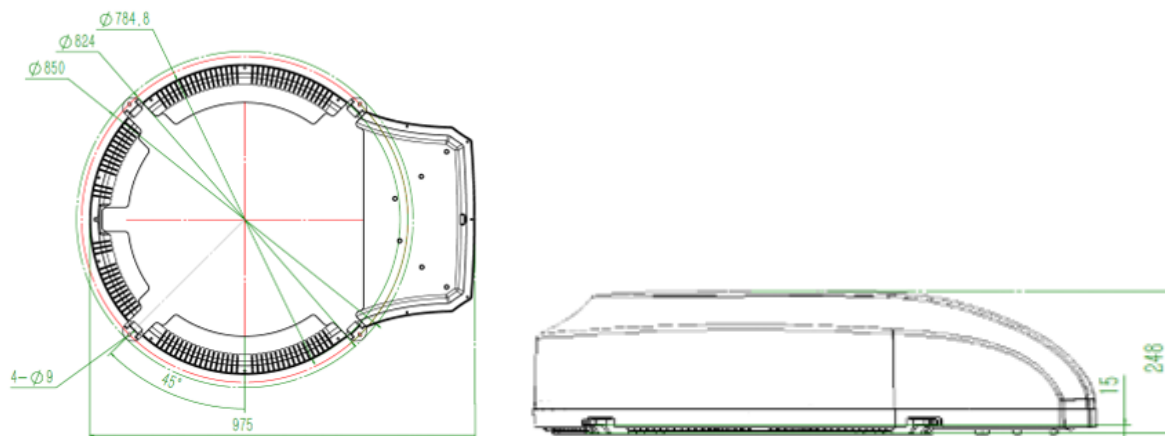
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Tracking Receive Type		Integrated tracking system, DVB-S2, DVB-S2X		EI	≥80°/s
Capture Time of First Boot		<120s		Pol	≥80°/s
Repeat Boot		<30s	Max Angular Acceleration	Az	200°/s²
Recapture Time After loss		Instantaneous capture (Less than 2S)		EI	200°/s²
Tracking Accuracy		≤ 0.3°	Stable Mode of Base		Stability of two axes
Mechanical Specifications					
Rotation Range	Az	N×360°Unlimited, continuous			
	EI	0~90°			
	Pol	0~270° (The polarization is controlled by software)			
Interface					
Power Interface		Waterproof Quick Plug			
Physical Dimensions and Electrical Specifications					
Radome Height		248 mm (Exclude mounting bracket)	Radome Dimension		975×785mm
Weight		26Kg (Include mounting plate)	Power Input (With Adapter)		AC100~240V/50Hz
Power Consumption		≤ 150 W			
Environmental Specifications					
Operating Temperature		-40℃~+50℃	Ingress Protection		IP67
Storage Temperature		-40℃~+80℃	Radome Survival Ice load		13mm
Relative Humidity		0%~98%			

Structural Dimensions:



The outline dimension(L×W×H): 975 × 785 × 248mm

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