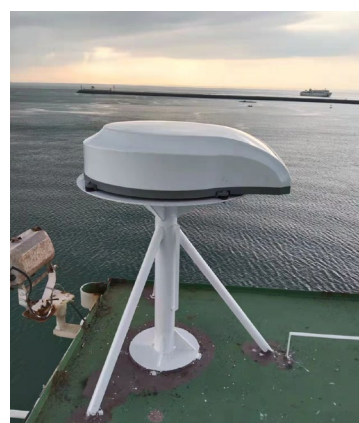


Starwin V9-OTM45 On The Move Terminal Datasheet (8W)



Terminal Photo



Starwin V9-OTM45 On The Move Terminal has are different installation configurations, adapted to different carries of land and maritime mobility, such as car, SUV, train, cruise, yacht and commercial vessels. The figure above refer to the installation on a SUV and ferry.



Front Panel

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Rear Panel
Antenna Controller

Introduction:

Starwin V9-OTM45 0.45m Ku band On-The-Move terminal integrated the advanced high gain flat panel antenna and high precision tracking mechanism. It can maintain accurate and automatic tracking of satellites when carriers move and establish a continuous and reliable satellite communication connection.

Starwin V9-OTM45 terminal is widely applied in different sector for On The Move data, voice and video transmission. It can be easily installed on the SUV, RV, Cruise and Yacht, working across variety of domains such as public security, defense, fire control, first response, traffic monitoring and media broadcasting.

Key Features:

- Innovative design: High gain flat array antenna, unique heat dissipation design;
- Super performance: High tracking accuracy, to ensure that the antenna always points to the satellite accurately, even under bumpy condition;
- Strong adaptability for all kinds of mobile platforms: Low profile and streamline shape design;
- Rapid deployment: Light weight, integrated single cable connection (power supply, RF, IF) between antenna and controller;
- Baseband extension: Suitable for all Modems on the market.

Technical Specifications:

System Parameter	Tx	Rx
Working Frequency	13.75~14.5 GHz	10.70~12.75 GHz
Antenna Gain	≥33dBi @14.50 GHz	≥32dBi @12.75 GHz
G/T	11dB/K	

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EIRP	42 dBW with 8W BUC	
Antenna Type	Flat panel horn array antenna	
Polarization	LP/CP (Can be changed by software)	
Tx/Rx Polarization	According to Modem information, change through software	
Tx Power	8W	
Rx LO.	10.6/9.75GHz (Switching through 22K)	
Tracking Accuracy	≤0.3°	
GPS	Built In	
WiFi	Built In, IEEE 802.11n	
5G/LTE Module (optional)	Integrated multi-WAN with global 5G & LTE capabilities	
Colour	White (More than 500 units can be customized according to user needs)	
Protection Level	IP66	
Stable Mode of Base	Stability of two axes	
Weight	26Kg (Include mounting plate)	
Radome Height	248 mm (Exclude mounting bracket)	
Radome Dimension	975×785mm	
Tracking Performance		
Tracking Mode		Combining inertial measurement with signal tracking
Tracking Receive Type		Integrated tracking system, DVB-S2, DVB-S2X
Capture Time of First Boot		<120s
Repeat Boot		<30s
Recapture Time After loss		Instantaneous capture (less than 2S)
Rotation Range	Azimuth	N×360°Unlimited, continuous
	Elevation	0~90°
	Polarization	0~270° (The polarization is controlled by software)
Tracking Rate	Azimuth	≥100°/s
	Elevation	≥80°/s
	Roll	≥80°/s
Max Angular Acceleration	Azimuth	200°/s²
	Elevation	200°/s²
Max Car Body Movement		±20°
Power Supply		

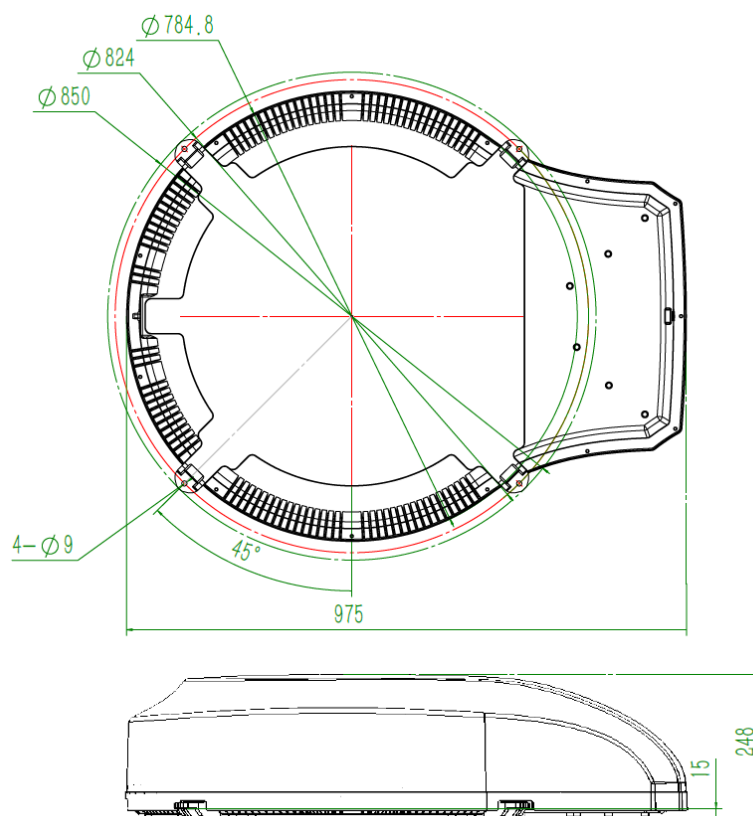
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AC	AC96~265V/50Hz
DC	DC10~26V
System Power Consumption	≤205W, Average
	≤255W, Peak
Interface	
Cable Interface	F-Type Connector
Working Environment Conditions	
Operating Temperature	-40°C~+50°C
Storage Temperature	-40°C~+80°C
Relative Humidity	0%~98%
Radome Survival Ice load	13mm

Structural Dimensions



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

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