



Starwin OTM 45 Ku-Band VSAT Terminal



There are different installation methods according to different models. The figure below refers to the SUV model.



Antenna Controller

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Introduction:

China Starwin OTM45 0.45m Ku band On-The-Move antenna is an important part of vehicle mounted OTM station, it can maintain accurate and automatic tracking of satellites in the process of vehicle movement, stablishing a continuous and reliable satellite communication connection. The typical application includes the transmission for data, voice and video between satcom OTM station and other fixed stations or mobile stations.

Features:

- Light weight, strong adaptation to the vehicle
- Unique heat dissipation design
- Low profile, water droplet shape design
- High gain flat array antenna
- High tracking accuracy, to ensure that the carrier is bumpy, the antenna can stabilize communication.
- Communication distance is unrestricted, deployment flexibility

Technical Specifications:

System Parameter	Тх	Rx
Working Frequency	13.75~14.5 GHz	10.70~12.75 GHz
Antenna Gain	≥33dBi @14.50 GHz	≥32dBi @12.75 GHz
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	≥3W (3W/8W/16W BUC optional),	
	Especially suitable for HTS satellites	
Rx LO.	10.6/9.75GHz (Switching through 22K)	
Tracking Accuracy	≤0.3°	
GPS	Built In	
WiFi	Built In, IEEE 802.11n	
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)	
Cover Height		248 mm (Exclude mounting bracket)	
Cover Diameter		975×785mm	
Tracking Performance			
Tracking Mode		Combining inertial measurement with signal tracking	
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	Azimuth	800°/s²	
Acceleration	Elevation	600°/s²	
Max Car Body Movement		Max Car Body Movement	
Power Supply			
AC		AC96~265V/50Hz	
DC		DC10~26V	
System Power Consumption		<180W (Average)	
Interface			
Cable Interface		F-Type Connector	
Working Environment Conditions			
Working Temperature		-25°C~55°C	
Relative Humidity		0%~98%	





Structural Dimensions





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

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