

Starwin OTM30 Airborne Terminal Datasheet -Fixed wing



Terminal Photo

Introduction:

Starwin OTM30 Ku band Airborne (Fixed-wing) terminal adopts high efficiency Tx/Rx coplanar flat array antenna technology, high gain and low profile, and integrated the advanced high precision tracking mechanism, applicable to all types of aircraft. It can maintain accurate and automatic tracking of satellites when carriers move and establish a continuous and reliable satellite communication connection.

Starwin OTM30 terminal supports two-way satellite communication services such as voice, video and data transmission under various flight conditions. And the uplink rate of 64Kbps-5Mbps, and downlink rate of 64Kbps-10Mbps.

Key Features:

- Strong environmental adaptability: Wide temperature design work temperature), suitable for use in various complex environments;
- Stable multi-level feedback technology: Adopt the number of industry-leading technologies such as high-precision fusion attitude measurement, carrier attitude calculation and compensation algorithm to ensure that the antenna automatically, accurately and reliably aligns with the satellite.
- The three-level feedback stabilization and combined tracking technology of GPS

China Starwin Science & Technology Co., Ltd.

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

Copyright © Starwin

(Beidou)/Inertial navigation/satellite beacon signal is adopted to achieve stable signal tracking (tracking error $\leq 0.3^\circ$ without occlusion).

- Intuitive and easy-to-use control experience: The operation interface takes the user experience as the starting point, automatically completes the satellite search and signal tracking. The system parameters can be set through APP or ACU, and the operation is simple and fast.

Specifications:

OTM30 Airborne (Fixed-wing) Terminal					
Overall Specifications of Terminal					
Model		OTM30		Type	
				Flat Panel Horn Array Antenna	
Working Frequency	Tx	13.75 ~ 14.5 GHz		Antenna Gain	Tx
	Rx	10.7 ~ 12.75 GHz			Rx
				≥30.5 dBi @14.50 GHz	
				≥29.5 dBi @12.75 GHz	
EIRP		≥ 44.5dBW@ 25W BUC (Exclude radome)		GNSS	Built In GPS+Beidou
Polarization		LP/CP (Can be changed by software)			
Rx LO.		9.75/10.6 GHz (Automatic switching)		Colour	White (Can be customized with an order exceeds 500 units)
Tx LO.		12.8/13.05 GHz (Automatic switching)			
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
Tracking Receive Type		Integrated tracking system, DVB-S2, DVB-S2X			EI
Capture Time of First Boot		<120s		Max Angular Acceleration	≥60°/s
Repeat Boot		<30s			≥60°/s
Recapture Time After loss		Instantaneous capture (Less than 2S)		Stable Mode of Base	200°/s²
					EI
Tracking Accuracy		≤ 0.3°		200°/s²	
				Stability of two axes	

China Starwin Science & Technology Co., Ltd.

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

Copyright © Starwin

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	320 mm		Radome Dimension	Φ400 mm
Weight	11Kg		Power Input	DC24 V±5%
Power Consumption	≤ 50 W, exclude BUC and Modem			
Environmental Specifications				
Operating Temperature	-40℃~+70℃		Altitude	6000m

China Starwin Science & Technology Co., Ltd.

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

Copyright © Starwin