



SeagullWin - Ku Hybrid ESA COTM Terminal Datasheet



- Empower Mobile solution with Simplicity & Easiness

General Description:

Starwin SegullWin Ku Hybrid ESA COTM Terminal is an innovative Satcom terminal, providing COTM (Communication On The Move) solution, versatily applied for land, marine and airborne mobility under Multi-Orbits- GEO, LEO, MEO.

SegullWin Ku Hybrid ESA COTM terminal integrates the proven and advanced 2-dimension mechanical steering technology, fully electronic steering phased array technology and miniaturized integrated design and production technology from Starwin over years, empowering the practicality, scale, economic efficiency of the production and applications of such Ku Hybrid phased array terminals.

This terminal can quickly capture satellites and establish stable and reliable satellite communication links for vehicle, train, shipping vessels and airplane, anytime, anywhere.

Unique Features:

- Unique Design: With mechanic and electronic steering combined system, wider EL scan angle with low loss from EIRP and G/T in normal direction;
- High Integration: All in one, fully 2D phased array, ACU, satellite Modem, Up & Down converter are all integrated in one outdoor unit;
- Proven technology of beam forming to track and switch among multi orbit networks of GEO, LEO and MEO;
- Convenience: With ultra-portability without complex installation, cabling, connection and commission processing on site;
- Flexible and Scalable: Manifold application for mobile broadband connectivity under GEO, MEO and LEO.

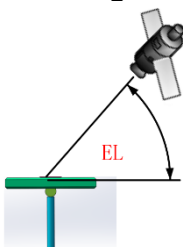
Specifications:

Ku Band Hybrid ESA Terminal			
Overall Specifications of Terminal			
Model	HSA49125MUF	Dynamic Capture Time of First Boot	≤ 2.5min
Name	SeagullWin	Static Capture Time of First Boot	≤ 2min
Type	Ku band Hybrid ESA COTM Terminal	Mechanical Steering Type	Auto
Tx	13.75 ~ 14.5 GHz	Recapture Time After Loss	< 15sec (Duration of occlusion ≤5min)
Rx	10.7 ~ 12.75 GHz		<25sec (Duration of occlusion >5min)
Tracking Accuracy	≤ 0.2°	Applicable Satellite Type	HTS GEO, MEO and LEO
Rx LO.	9.75/10.6 GHz	Tx LO.	12.8 GHz
Scan Mode	Hybrid Steering (2D Electronic Steering + 2D Mechanical Steering)	Beam Switching Time	≤ 3ms
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	Customized	External Modem	Customized

China Starwin Science & Technology Co., Ltd.

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

Copyright © Starwin

RF Specifications			
EIRP	≥ 49dBW@ Normal	G/T	≥ 12.5dB/K@ Normal
Polarization	Full polarization, automatic switching	Azimuth Range	Unlimited
X-Pol Isolation	>30dB@90°	Hybrid Elevation Steering Range 	0°~ 180° (90° means the antenna is horizontal) <small>Note</small>
Scanning Gain Loss (Hybrid Steering)	≤ 0.1dB@ Elevation from 60-120°		
	≤ 0.8dB@ Elevation 30°		
	≤ 2dB@ Elevation 15°		
	≤ 3dB@ Elevation 5°		
	≤ 4.5dB@ Elevation 0°		
Interface			
Power Interface	Waterproof Quick Plug	Network Interface	Waterproof Quick Plug
IF Interface (Tx)	SMA	IF Interface (Rx)	SMA
Physical Dimensions and Electrical Specifications			
Outline Dimension	1000×650×300mm	Power Input (With Adapter)	AC 90 ~ 264V/50Hz
Weight	≤ 35 kg	Power Input (Without Adapter)	DC 28V±5%
Power Consumption	≤ 550W		
Environmental Specifications			
Wind Speed	150km/h	Ingress Protection	IP66
Operation Temperature	-25°C ~ +55°C (Standard) -40 °C ~ +70 °C (Customizable)	Storage Temperature	-40 °C to +85 °C
Humidity	5 ~ 95%		