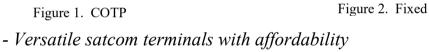


## KoalaWin - Ku Hybrid ESA COTP & Fixed Terminal Datasheet







## **General Description:**

Starwin KoalaWin Ku Hybrid COTP & Fixed ESA Terminal is an innovative satcom terminal developed with Starwin cutting edge phased array and mechatronics technology, providing various COTP (communication on the pause) or Fixed applications and widely used in rural area.

Combining the advantages of mechanical steering and electronic phased array technology, Starwin KoalaWin Ku Hybrid COTP &Fixed ESA Terminal can be quickly deployed; Fast capture the satellite with high accuracy and agility, and establish stable and reliable satellite communication links consistently even in the harshest environments. The COTP version is widely applied to Emergency recover, disaster relief, Oil & Gas, mining, travel etc.



## **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.

Ku Band Hybrid ESA Terminal								
Overall Specifications of Terminal								
Model	СОТР	HSA43095PUF	Static Capture Time of First Boot	≤ 2min				
WIDdei	Fixed	HSA43095FUF						
Namo	9	KoalaWin						
Туре	)	Ku band Hybrid ESA COTP and Fixed Terminal	Mechanical Steering Type	Auto				
Тх		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 Ac	ccuracy	≤ 0.2°	Applicable Satellite Type	HTS GEO, MEO and LEO				
Rx LC	<b>)</b> .	9.75/10.6 GHz	Tx LO.	12.8 GHz				
Scan M	ode	Hybrid Steering (2D Electronic Steering + 2D Mechanical Steering)	Beam Switching Time	≤ 3ms				
IF Specifications								
Inpu	Input Power (Modem Output)			-35 ~ 0dBm				
	IF Input (Modem Output)			0.95 GHz ~ 1.7 GHz				
	· · ·	odem Input)	0.95 GHz~2.15 GHz					
Internal M	odem	Customized	External Modem	Customized				

## **Specifications:**

China Starwin Science & Technology Co., Ltd. Tel: +8629-88664381, E-mail: <u>sales@starwincom.com</u>, <u>http://www.starwincom.com</u> Copyright © Starwin





			RF Specificat	ions		
EIRP			≥ 43dBW@ Normal	G/T	≥ 9.5dB/K@ Norma	
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	
Interface						
Power Interface		се	Waterproof Quick Plug	Network Interface	Waterproof Quick Plug	
IF Interface (Tx)		Γx)	SMA	IF Interface (Rx)	SMA	
		Phy	sical Dimensions and Elec	ctrical Specifications	;	
Outline	С	ΟΤΡ	609×559×180mm	Power Input	AC 90 ~ 264V/50Hz	
Dimension	F	ixed	609×559×130mm	(With Adapter)		
Weight	С	ΟΤΡ	≤ 18 kg	Power Input (Without	DC 28V±5%	
	F	ixed	≤ 17 kg			
Power Cor				Adapter) ≤ 300 W		
Fower Cor	isuin	ption				
			Environmental Spe	cifications		
COTP Wind Speed Fixed		СОТР	The terminal works normally when the wind speed is in the range of 17.2-20.7m/s (61.92-74.52Km/h) (33.5-40.3 mph)	Ingress Protection	IP66	
			The terminal works normally when the wind			
		Fixed	speed is in the range of 24.5-28.4m/s (88.2-102.24Km/h)			
Opera Tempe			speed is in the range of 24.5-28.4m/s	Storage Temperature	-40 °C to +85 °C	