

China Starwin 1.5m C/Ku Band

Cable-Drive Driveaway Antenna Datasheet

A1500DA satellite communication antenna system is a 1.5m vehicle mounted antenna system especially designed for SUV. The system has excellent electrical properties, high driving accuracy, and outstanding adaptability. Different types of BUC, shroud and antenna controller can be equipped according to customers' requirement.



The antenna is equipped on vehicle



Antenna deployed (without shroud)

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Major Features

- Dual-reflector Gregory antenna feed system, with high cross polarization isolation and side lobe properties.
- Designed for SUV.
- 80% of structures are made of carbon fiber material, light weight and high strength.
- Steel wire rope driver, high driving precision.
- Easy assembly and disassembly, low requirement for vehicle modification.
- Compatible with C and Ku band satellite communication.
- High reliability, over 730h operation test without malfunction.
- Easy operation, with one button satellite acquisition and satellite stowing.
- BUC 1:1 backup installation can be realized.
- High adaptability, shroud can be equipped according to customers' requirement.
- C301DA and C302DA antenna controller can be used.
- Has passed China Satellite Network Accessing Test.

A1500DA satellite communication system meets GJB367A-2001 military communication equipment standard and has passed A, B, C, D four strict units of military test. It can be widely used in national security, emergency communication, telecommunication, news and broadcasting, petroleum and petrochemical, scientific exploration etc.





Specifications

Electrical performance for Ku band				
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Working Frequency	Тх	13.75 - 14.5GHz		
	Rx	10.95 - 12.75GHz		
Gain	Тх	44.8dBi		
	Rx	43.65dBi		
Cross Isolation	On Axis	≥35dB		
	1dB point	≥30dB		
Tx-Rx Isolation	≥85dB (Including TRF)			
VSWR	≤1.3:1			
The First Sidelobe Level	<-20dB			
Sidelobe Specifications	29-25lgΦdBi α≤Φ≤7°			
	8dBi 7°<Φ≤9.2°			
	32-25 lgФ dBi 26.3º<Ф≤48º			
	-10 dBi 48°<Ф			
Electrical performance for C band				
Working Frequency	Tx	5.85 - 6.725GHz		
	Rx	3.4 - 4.2GHz		
Gain	Tx	37.67dBi		
	Rx	33.3dBi		
VSWR	≤1.3:1			
The First Sidelobe Level	<-14dB			
Sidelobe Specifications	29-25 lgΦ dBi α≤Φ≤20°			
	-3.5 dBi 20°<Φ≤26.3°			
	32-25 lgΦ dBi 26.3°<Φ≤48°			
	-10 dBi 48°<Ф			
Structural parameters				
Antenna Stowed Size	2300×1650×430mm			
Weight	≤100kg			

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	Arrimenth	10700	
Driving Range	Azimuth	±270°	
	Elevation	0° - 90°	
	Polarization	±95°	
Driving Speed	Azimuth	0.1 - 3º/s (adjustable)	
	Elevation	0.1 - 3º/s (adjustable)	
	Polarization	4º/s	
Control parameters			
Configuration	Select C301DA or C302DA antenna controller		
Power Supply	AC220V (±10%), 50Hz		
Cable	Four cables (Including BUC and LNB power supply and		
Environmental adaptability			
Working Temperature	-40 ~ +60°C (antenna)		
	-10 ~ +55°C (antenna controller)		
Storage Temperature	-55 ~ +70°C		
Humidity	95% (30°C)		
Height	≤5000m		
Rain	6mm/min		
Salt Fog	Meet military standard of GJB367A-2001		
Vibration	Meet military standard of GJB367A-2001		
Sand Storm	Meet military standard of GJB367A-2001		
Wind Speed	20m/s stable wind working status		
	30m/s gust wind working status		
	60m/s vehicle moving status		
Reliability	≥2000h		