



## China Starwin 2.4m C Band Drive Away Antenna Datasheet

A2400DA-C driveaway antenna system is a 2.4m vehicle mounted antenna system designed by China Starwin. The antenna system can be applied for C or Ku band and it has excellent electrical properties, high driving precision, and high adaptability. Different types of BUC and antenna controller can be equipped according to customers' requirement.



The Deploy Photo



The Collection Photo

### Major features:

- Applied for C or Ku band satellite communication;
- 70% of the structure is made of carbon fiber material, with light weight and high strength;
- Steel wire rope driver, with high driving precision;
- High reliability, over 730h operation test without malfunction.
- Easy assembly and disassembly, low requirement for vehicle modification.
- Compatible with C or Ku band satellite communication.
- 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.

A2400DA-C 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 properties for Ku band		
Working frequency	Transmit	13.75—14.5GHz
	Receive	10.95—12.75GHz
Gain	Transmit	49.1dBi+20Log (f/14.25)
	Receive	47.8dBi+20Log (f/12.5)
Cross isolation	Axis direction	≥35dB
	1dB point	≥30dB
Tx-Rx isolation	≥85dB (including Tx-blocking wave filter)	
VSWR	≤1.25:1	
The first side-lobe level	<-20dB	
Side-lobe properties	29-25lgΦdBi	α≤Φ≤7°
	8dBi	7°<Φ≤9.2°
	32-25 lgΦ dBi	26.3°<Φ≤48°
	-10 dBi	48°<Φ
Electrical properties for C band		
Working frequency	Transmit	5.85—6.725GHz
	Receive	3.4—4.2GHz
Gain	Transmit	41.76dBi
	Receive	37.38dBi
Cross polarization Isolation	Axis direction	≥35dB
	1dB point	≥30dB
Tx-Rx isolation	≥85dB	
VSWR	≤1.5:1	



The first side-lobe level	<-14dB	
Side-lobe properties	29-25 lg $\Phi$ dBi	$\alpha \leq \Phi \leq 20^\circ$
$\Phi$ is the angle between	-3.5 dBi	$20^\circ < \Phi \leq 26.3^\circ$
deviation direction and	32-25 lg $\Phi$ dBi	$26.3^\circ < \Phi \leq 48^\circ$
wave beam axis direction	-10 dBi	$48^\circ < \Phi$
<b>Structural parameters</b>		
Antenna stowed size	3250mm×1820mm×590mm	
Weight	≤280kg (without BUC)	
Driving range	Azimuth	±270°
	Elevation	0°—90°
	Polarization	±95°
Driving speed	Azimuth	0. 1—3°/s (adjustable)
	Elevation	0. 1—3°/s (adjustable)
	Polarization	1-4°/s (adjustable)
<b>Control parameters</b>		
Configuration	Select C301DA or C302DA antenna controller	
Power supply	AC220V(±10%), 50Hz	
Cable	Four cables (including BUC and LNB power supply and RF)	
<b>Environmental adaptability</b>		
Working temperature	-40—60℃ (antenna)	
	-10—55℃ (antenna controller)	
Storage temperature	-55—70℃	
Humidity	95% (30℃)	
Height	≤5000m	
In the 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