

1.2m Ku/Ka Cable-drive Driveaway Antenna

A1200DA drive-away satellite communication antenna system is a 1.2m vehicle mounted antenna system especially designed for SUV. The antenna system has the advantage such as low stowed height, easily assemble and disassembly, and strong adaptability. Besides, the customized antenna shroud and controller can be equipped according to users' requirement.



Antenna deployed



Antenna stowed (with shroud)



Antenna stowed (without shroud)

China Starwin Science & Technology Co., Ltd.

Tel: +8629-88664381, E-mail: sales@starwincom.com, www.starwincom.com

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Major Features:

- Especially designed for compact vehicles such as SUV
- Extremely low stowed height, only 280mm
- Light weight, 80% of the antenna structure is made by carbon fiber material
- Steel wire rope driver, high driving precise and maintenance free
- Easy assembly and disassembly
- It is used for Ku and Ka band communication
- High reliability, over 730h test without malfunction
- Easy operation, with on-button satellite acquisition and stowing
- High adaptability, shroud can be equipped according to users' requirement
- C301DA and C302DA antenna controller can be equipped
- The system meets the China Satellite related requirement for network accessing in

A1200DA antenna system meets the GJB367A-2001 military communication requirement and has passed 4 units of extremely strict military-level test and it can be widely used in national security, emergency communication command, telecommunication service provider, news and broadcasting, petroleum and petrochemical, scientific expedition etc.

Specifications

Electrical properties for Ku band		
Working frequency	Transmit	13.75—14.5GHz
	Receive	10.95—12.75GHz
Gain	Transmit	42.84dBi
	Receive	41.9dBi
Cross isolation	Axis direction	$\geq 35\text{dB}$
	1dB point	$\geq 30\text{dB}$
Tx-Rx isolation	$\geq 85\text{dB}$ (including Tx-blocking wave filter)	
VSWR	$\leq 1.25: 1$	
The first side-lobe level	$\leq -20\text{dB}$	
Side-lobe properties	29-25lg Φ dBi	$\alpha \leq \Phi \leq 7^\circ$
	8dBi	$7^\circ < \Phi \leq 9.2^\circ$
	32-25 lg Φ dBi	$9.2^\circ < \Phi \leq 48^\circ$
	-10dBi	$8^\circ < \Phi$
Electrical properties for Ka band		
Working frequency	Transmit	27.5—30.0GHz
	Receive	17.7—20.2 GHz
Gain	Transmit	49.5dBi
	Receive	46.2dBi
VSWR	$\leq 1.3:1$	
Side-lobe properties	29-25lg Φ dBi	$\alpha \leq \Phi \leq 20^\circ$
	-3.5dBi	$20^\circ < \Phi \leq 26.3^\circ$
	32-25 lg Φ dBi	$26.3^\circ < \Phi \leq 48^\circ$
	-10dBi	$48^\circ < \Phi$
Structural parameters		
Antenna stowed size	1862×1305×280mm	

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Weight	≤ 67kg (with shroud)
Driving range	Azimuth ± 270°
	Elevation 0°—90°
	Polarization ± 95°
Driving speed	Azimuth 0. 1—3° /s (adjustable)
	Elevation 0. 1—3° /s (adjustable)
	Polarization 4°/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 RF)
Environmental adaptability	
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