

## China Starwin 1.8m C Band Single Offset Vehicle Mounted

### Antenna Datasheet

#### 1. Antenna Photo



China Starwin 1.8 meters C Band vehicle mounted antenna is used for satellite news gathering and emergency satellite communications, Antenna system has small size, light weight, high reliability, easy operation, etc.

#### 2. Antenna Features

- 1) Without breaking roof can be easily installed in commercial vehicles, off-road vehicles, SUV, MPV and top military shelter;
- 2) Has excellent reliability, maintainability and environmental adaptability, suitable for

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field and urban conditions;

- 3) Initial installation is easy to be calibrated, and the calibration precision is high;
- 4) Antenna automation has reached the international advanced level, with "One Key" function, can be operated without training;
- 5) Configuration of the GPS with high accuracy, the electronic compass has a strong anti-interference ability, which can ensure the accuracy of the environment adaptability and point to the star;
- 6) Antenna automatically acquisition time does not exceed 40 minutes and 2 seconds (typical value);
- 7) Antenna controller is provided with abundant information and friendly man-machine interface;
- 8) Trapezoidal antenna feed arm, suitable for installation of BUC/ODU;
- 9) With automatic alarm, mechanical limit, software limit, and other multiple protection functions, antenna operation more safe;
- 10) Before delivery of the system to carry out strict functional testing and environmental testing, to ensure that the product quality of the equipment.

### 3. Antenna Specifications

Electrical Specification			
Diameter		1.8m	
Antenna Type		Offset	
Material		Carbon Fiber	
Polarization		Circular Polarization	Linear Polarization
Working Frequency	Tx	5.85~6.425GHz	5.85~6.725GHz
	Rx	3.625~4.2GHz	3.4~4.2GHz
Gain	Tx	$\geq 39.1 + 20Lg(f/6.25GHz)$ dBi	
	Rx	$\geq 34.8 + 20Lg(f/3.8GHz)$ dBi	
Cross Polarization Isolation		Axial Ratio $\leq 1.5$ dB	$\geq 35$ dB (Axial)

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Feed Insert Loss	≤0.35dB (Include TRF)		
VSWR	≤1.3: 1		
Port Isolation	≥85dB (Include TRF)		
Side Lobe	First Side Lobe Level: ≤-14 dB		
Power Capacity	300W		
Power Consumption (No include BUC)	450W		
Antenna Noise Temperature	45K (El=10°)		
Acquisition Type	Beacon		
Automatic Acquisition Of Satellite Time	≤3min		
Acquisition Accuracy	<1/10 Beam Width		
Positioning Type	Automatic positioning, also can be manually input		
Rotating Speed	Min.	Az: 0.1°/s	El: 0.1°/s Pol: 0.1°/s
	Max.	Az: 6°/s	El: 6°/s Pol: 6°/s
<b>Mechanical Specification</b>			
Rotating Range	Az: ±220°; El: 10°~85°; Pol: ± 90°		
Rotating Speed Adjustment	Adjustable, Resolution Ratio 0.01°/s		
Antenna Weight (No include BUC)	≤135Kg		
Antenna Collection Size	2467mm*1800mm*515mm		
Chassis Size	1U		
Interface Type	Tx: WR137	Rx: WR229	
Supply Voltage	220VAC±10%, 50Hz±2Hz		
<b>Environmental Specification</b>			
Operational Wind	28m/s (Stabilize)		
Not Destroy Wind	>35m/s (Collect)		
Temperature	-40℃ -- +55℃		
Relative Humidity	100%		

**4.Wooden Case Packing Size: 2680mm\*2030mm\*820mm**

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