

## Starwin 3.7m Ka Band Antenna Datasheet



### General Description of 3.7m Ka band antenna

Starwin 3.7 m Ka band ring focus antenna is designed for Ka band transmit and receive operation.

- The precision aluminum reflector is constructed with stretch formed double coated 12 panels, strong back structures and hub, free of field alignment.
- The standard designed azimuth over elevation king post pedestal provides a cost-effective solution for ground or roof installation with high stiffness and stability, wide Az&El moving range and fine drive performance, ensure the pointing and tracking accuracy.
- Also supplied with limit switches, foundation hardware kit and required packing.

### Key Features

- \* Meets or exceeds CCIR 580 and INTELSAT Requirements
- \* Motorized and tracking available
- \* Precision compression molded ring focus reflector
- \* CP/LP switchable feed
- \* Hot dip zinc steel pedestal, hub & back struts
- \* Galvanized stainless steel fasteners
- \* Strong structure and high wind resistance

**China Starwin Science&Technology Co., Ltd.**

Tel: +8629-88664381, E-mail: [sales@starwincom.com](mailto:sales@starwincom.com), <http://www.starwincom.com>

**Copyright © Starwin**

### Options

- \* Motorization kits
- \* Controller and tracking receiver
- \* 2 ports/ 4 ports linear/ circular polarized feeds
- \* Feed blower or deicing with automatic controls
- \* Lightning Rod Kits
- \* Non-penetrating mount (NPM)
- \* Integrated LNB or LNA systems
- \* HPAs, converters and M&C systems
- \* Turnkey installation & testing

### Electrical Specification

Type	KA-370A	
Operating Frequency, GHz	KA-Band	
	Receive	Transmit
	17.7~21.2	27.1~31
Gain, Mid-band, dBi	54.9	57.8
Polarization	LHCP/RHCP	
XPD (on Axis), dB	35	35
XPD across 1dB Beam Width, dB	30	30
VSWR	1.25:1	1.25:1
Antenna Noise Temperature 2-port feed	125K 85K 50K	
10° Elevation		
30° Elevation		
50° Elevation		
-3 dB Beam Width, Mid-band	0.27°	0.17°
Typical G/T	≥32dB/K at 20°elevation	
Tx. Power Capability, KW		1
Feed Interface	WR-42	WR-34
Feed Insertion Loss, dB	≤0.4	≤0.3
Isolation, Tx to Rx, dB	85	
First Sidelobe	-14	
90% Peaks under Following Envelop	29-25lgθ (1°≤θ≤20°)	

### Mechanical Specification

Antenna Diameter		3.7m
Antenna Type		Ring Focus
Antenna Material		High Quality Aluminium
Surface Accuracy (RMS)		≤0.3 mm
Antenna Pointing	Azimuth	±85°
Range	Elevation	0° ~ 90° (Continuous)

**China Starwin Science&Technology Co., Ltd.**

Tel:+8629-88664381, E-mail:[sales@starwincom.com](mailto:sales@starwincom.com), <http://www.starwincom.com>

**Copyright © Starwin**

	Polarization	$\pm 90^\circ$ (Continuous)
Drive Mode		Manual or Motorized
Motor Drive System	Azimuth Travel Rate	$0.11^\circ / \text{s}$ ( $0.06^\circ / \text{s}$ )
	Elevation Travel Rate	$0.17^\circ / \text{s}$ ( $0.08^\circ / \text{s}$ )

**Environmental Specification**

Operational Wind	79km/h gusting to 97km/h
Survival Wind	200km/h
Temperature	- 20°C ~ + 48°C
Relative Humidity	100 %