

EARTH STATION ANTENNA



→ Features

- High gain&efficiency
- Low side-lobe
- Easy Installation maintenance
- High wind resistant
- Diameter:** 2.4 to 11.3m or bigger
- Mode:** Manual and motorized

→ Description

Dolph Microwave Earth Station Antenna are fast delivery, which is used at the earth end of satellite links optional in diameter, port, polarization, drive mode, control mode. Ring focus and cassegrain are available. Frequency covering L, S, C, X, Ku, Ka. Single band and dual band can be selected.

RF & Antenna Specifications

Aperture	3.7 Meter	4.5 Meter	5.3 Meter	6.2 Meter	7.3 Meter
Reflector Type	Cassegrain	Cassegrain	Cassegrain	Cassegrain	Cassegrain
Optional Freq. Band Tx/Rx, GHz	C-band		5.85~6.725 3.40~4.20		
	Ku-band		13.75~14.5 10.7~12.75		
	Ka-band		27.5~31.0 17.7~21.2		
VSWR	≤1.25				
Pol. Feature	Circular/Linear				
Axis Ratio, dB	≤1.5				
Cross Pol Iso,	≥35 dB (Axis)				
	≥32dB (-1dB)				
Tx/Rx Iso, dB	≥85				
First Side Lobe	≤-14 dB				
Side Lobe, dB	29-25logθ (1° ≤θ <20°)		32-25logθ (20° ≤θ <48°)		-10 dB (θ ≥48°)
Feed Ports	2/4				
Feed Interface	Wr112 WR75 WR28/42		WR137/229 WR75 WR28/42		

Mechanical & Drive Specifications

Pointing Type	Manual/Motorized	Manual/Motorized	Manual/Motorized	Manual/Motorized	Manual/Motorized
Antenna Pedestal	Kingpost Pedestal	Kingpost Pedestal	Rotation Pedestal	Kingpost Pedestal	Rotation Pedestal
Drive Method	Self-locking mechanical screw jacks		Self-locking mechanical screw jacks		Self-locking mechanical screw jacks
	Dual motor dual pinion		Dual motor dual pinion		
Tracking Method	Step Track with Predicative Tracking	Step Track with Predicative Tracking		Step Track with Predicative Tracking	
Material	aluminum panels fabricated				
Surface Accuracy	≤0.35mm RMS.				
Aligning Method	Self-aligning aluminum reflector-no field alignment				
Antenna Coverage	Azimuth: ±85°		Elevation: 0°~90°		Polarization: ±45°
Power Supply	380 VAC 50Hz Three phase 5-WYE		110/ 220VAC, 47-63Hz European/CE		

Environmental Performance

Operational Wind	45 mph (72 km/h) gusting to 60 mph (97 km/h)
Survival Wind	125 mph (200 km/h)
Temperature	-40° C to +50° C
Anti-seismic	Horizon≥0.3G'/s, Vertical≥0.15G'/s
Humidity	0-98%

Ordering Information

DH 5.3 Meter DR C/Ku Dual-band Antenna	
DH	Dolph Microwave
5.3	Aperture 5.3 Meter
DR	Cassegrain
C	C-band
Ku	Ku-band
Ka	Ka-band
C/Ku	Dual-band