2.4 m FCC Compliant Tx/Rx Antenna System

Model Number TXFCC-240KU

Ku-Band	Transmit	Receive
Polarity	Linear	Linear
Frequency	13.75 - 14.5 GHz	10.7 - 12.75 GHz
Feed - 2 Port Xpol		
Return Loss	20 dB typ	17.7 dB typ
Insertion Loss	0.1 dB typ	0.3 dB typ
Tx/Rx Isolation	80 dB	40 dB
Feed Interface	WR75	WR75
Antenna		
Efficiency	70%	70%
Midband Gain (14.125 Tx, 11.725 Rx)	49.6 dBi	48.0 dBi
Noise Temperature	---	35 K @ 10°
Cross Polarization On Axis	35 dB	35 dB
1 dB beamwidth	26 dB	26 dB
Tx/Rx Sidelobe Level	29 - 25 log θ -3.5 32 - 25 log θ -10	100 λ/D < θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° 48° < θ
Mechanical Specifications		
Antenna Optics	Single Offset	
Mount Type	Elevation over Azimuth	
Mast Pipe Size	6 5/8” O.D. SCH 40	
Elevation Adjustment Range	8° to 90° Continuous Fine Adjustment	
Azimuth Adjustment Range	± 3° Fine, 360° Continuous	
Environmental Specifications		
Wind Loading	Operational Survival	50 mph 125 mph
Temperature	Operational Survival	-40° to 140° F (-40° to 60°C) -60° to 180°F (-51° to 82°C)
Rain	Operational Survival	1/2” per hour 3” per hour
Ice	Survival	1” radial or 1/2” radial + 60 mph

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Manufactured by:
ISO 9002 Corp.

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Features

- AZ/EL Interface to 6 5/8” Pipe
- Galvanized Steel Mount
- Aluminum reflector powder-coated with a 10 year or 700 hrs salt spray warranty
- Easy to Ship, Two-Piece Construction
- Boom Supports 65 lbs.
- Includes Two port Linear Tx/Rx Feed assembly

Description

Why pay more for a transmit/receive antenna? The 2.4 m is an FCC Compliant transmit antenna. The stamping process that produces the solid aluminum reflector results in superior surface accuracy and repeatability. The steel back structure adds strength and stability to the system and keeps the installation process simple.

The Navigator Style fine tune Azimuth and Elevation cap reduces pointing errors during installation, allowing more accurate boresighting on the satellite. Increased pointing accuracy leads to greater link availability. Special packaging techniques are employed for every system shipped to protect the surface of the dish.