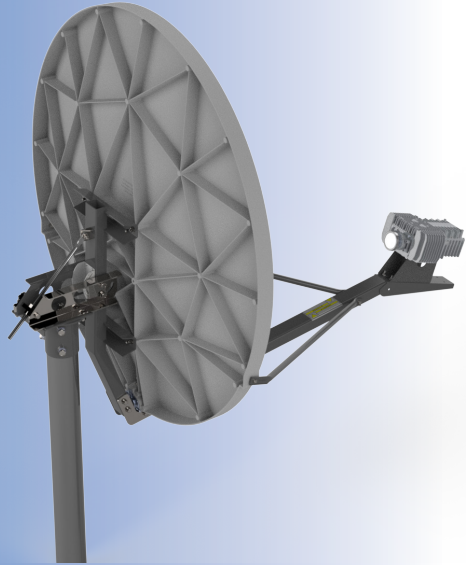


1.2m Ka RxTx Antenna System w/ DRC Transceiver



RF Performance

Effective Aperture	1.2m (47in)
Operating Frequency	Tx. 29.00-31.00 GHz Rx. 19.20-21.20 GHz
Polarization	Circular or Linear
Gain (± 0.3 dB)	Tx. 49.5 dBi @ 30.0 GHz Rx. 46.3 dBi @ 20.2 GHz
3dB Beamwidth	Tx. 0.6° @ 30.0 GHz Rx. 0.9° @ 20.2 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	Mainbeam $< \Theta < 20^\circ$ 29 - 25 Log Θ dB 20° $< \Theta < 26.3^\circ$ -3.5 dB 26.3° $< \Theta < 48^\circ$ 32-25 Log Θ dB 48° $< \Theta < 180^\circ$ -10 dB
Antenna Cross-Polarization (within 1 dB b/w)	Tx. 25 dB Rx. 22 dB
Antenna Noise Temperature	30° Elev. 57° K
VSWR	1.2:1
Isolation (Port to Port)	Tx. 90 dB Rx. 75 dB
Feed Interface	Tx. WR28 Flat Flange Rx. WR42 Flat Flange

Type 1235817 Antenna Product Specification

- ISO 9001:2015
Certificate Of Registration



Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester
Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous, $\pm 3^\circ$ Fine Adjustment
Mast Pipe Size	2.88"(73mm) or 3.5"(88.9mm) diam.
Wind Loading.	Operational 72 km/h (45 mph) Survival (no repointing) 128 km/h (80 mph) Survival (repoint required) 201 km/h (125 mph) Survival (no breakaway) 257 km/h (160 mph)
Temperature	-50°C to +80°C
Humidity	0 to 100% (Condensing)
Atmosphere	Standard Hardware Meets 720 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation.	360 BTU/h/ft2
Shock and Vibration	As Encountered During Shipping and Handling

*Heavier BUC can be placed underneath the boom arm.

REV 11/20 - 03

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