

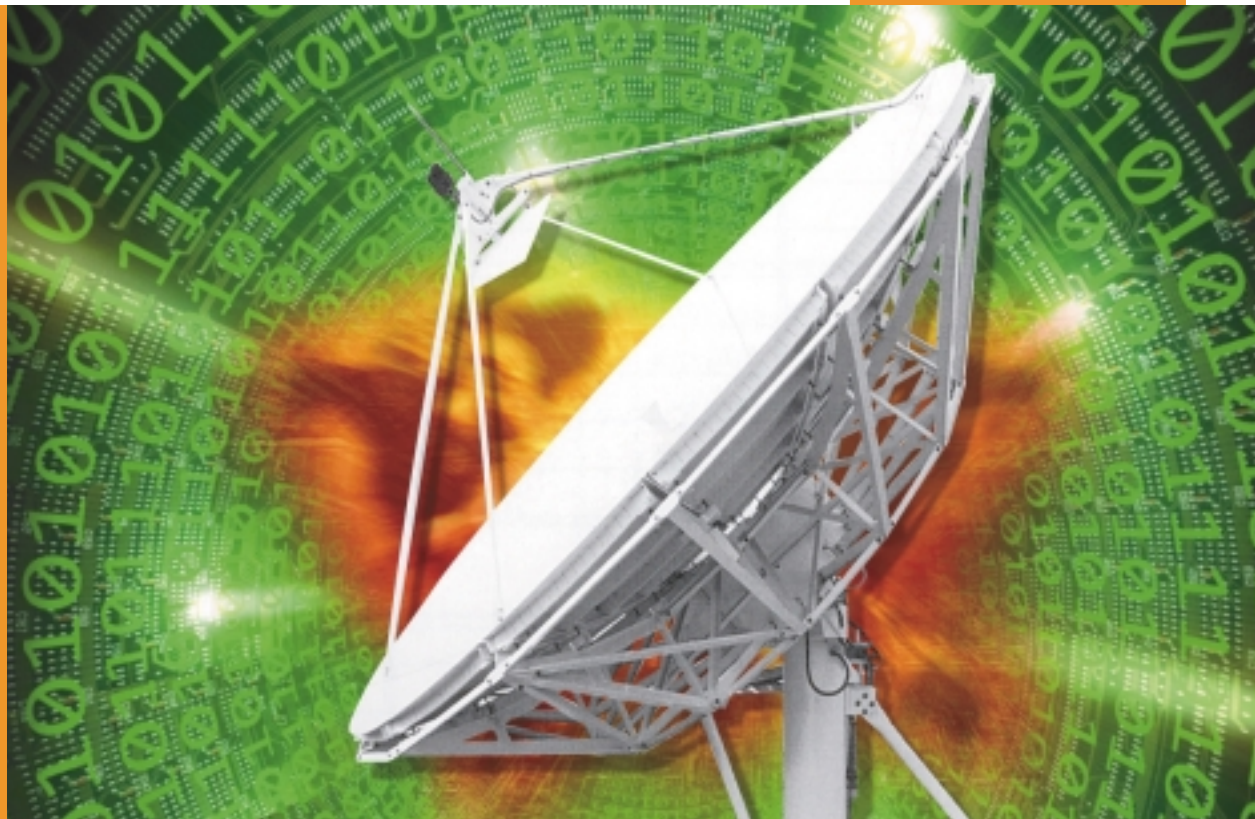
MODEL

7.2-METER

KXC / KXX

C & KU-BAND

ANTENNA



The VertexRSI 7.2-Meter C-Band and Ku-Band antennas offer superior performance for receive only and transmit-receive worldwide applications. The standard pedestal configuration provides a cost-effective solution, meeting the travel range for most requirements. These antennas meet FCC Regulation 25.209, IESS (Intelsat), or ITU-RS Recommendation 580 sidelobe specification.

Model 7.2 KXC, for C-Band operation, and Model 7.2 KXX, for Ku-Band operation, incorporate stretch-formed, doubly contoured panels with matched radials and hub assemblies for ease of field assembly. The reflectors and Elevation/Azimuth kingpost pedestals provide the stiffness and pointing accuracy required for both C-Band and Ku-Band operation. These antennas are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations.

Key Features

- All-Aluminum Reflector System
- High RF Performance
- Limited Motion Machine-Screw Jack Drive System
- Elevation over Azimuth Pedestal
- Galvanized Steel Finish
- Standard designs for many feed configurations and frequencies.

Antenna Products

MODEL	Electrical	C-Band 4 Port Circular Polarized Feed		Ku-Band 4 port Linear Polarized Feed	
		Receive	Transmit	Receive	Transmit
	7.2-METER	Frequency (GHz)	3.625 - 4.200	5.850 - 6.425	10.95 - 12.75
KXC / KXX	Antenna Gain at midband, dBi	47.9	51.7	56.8	58.3
	VSWR	1.25:1	1.25:1	1.30:1	1.30:1
C & KU-BAND	Beamwidth (Typical)				
	-3 dB	0.68°	0.44°	0.23°	0.20°
	-15dB	1.43°	0.92°	0.48°	0.42°
ANTENNA	First Sidelobe Level (Typical)	-14 ±2 dB	-14 ±2 dB	-14 ±2 dB	-14 ±2 dB
	Sidelobe Performance	Meets ITU-RS 580 or FCC 25.209		Meets Eutelsat, ITU-RS 580 or FCC 25.209	
	Antenna Noise Temperature				
	5° Elevation	52° K		80° K	
10° Elevation	43° K		66° K		
20° Elevation	37° K		57° K		
Axial Ratio	0.50 dB	0.50 dB			
Power Handling (Total)		10 KW		2KW	
Cross Polarization (Min)					
On Axis	30.7 dB	30.7 dB	35 dB	35 dB	
Within 1 dB BW	30.7 dB	30.7 dB	35 dB	35 dB	
Feed Port Isolation (Min)					
Rx/Tx (Rx Freq)	0 dB	-30 dB	0 dB	-50 dB	
Tx/Rx (Tx Freq)	-30 dB	0 dB	-85 dB	0 dB	
Rx/Rx, Tx/Tx (Same Band)	21 dB	23 dB	30 dB	30 dB	
RF Specification		975-1039		975-1145	

Options:

- Two or four port Tx/Rx, linear and circular polarized feeds
- Reflector and feed deicing, full reflector systems with manual or automatic controls
- Manual or motorized azimuth, elevation, and polarized drive systems with controls and readouts
- Extended Azimuth Travel Pedestal (2-position, 200 degrees)

Mechanical		Environmental
Antenna Diameter	7.2 Meters (23.7 ft.)	Wind Loading @ 58° F
Antenna Type	Cassegrain	Operational 45 mph (72 km/h) gusting to 60 mph (97 km/h)
Reflector Construction	16 Panels, Stretch-Formed Aluminum Backup Structure	Survival 125 mph (200km/h) @ 58° F (15° C)
Mount Type	Elevation over Azimuth	Temperature Range
Antenna Travel	Standard Extended	+5° F to +122° F (-15° C to +50° C)
Elevation	0° - 90° Continuous 0° - 90° Continuous	-22° F to +140° F (-30° C to +60° C)
Azimuth	120° Continuous 200° in two 120° Segments	* Rain
Shipping Volume	1,369 cu. ft. (38.8 m ³)	Up to 4 in. (10 cm) per hour
Shipping Weight	8,721 lbs. (3,956 kg)	* Relative Humidity
		0 to 100% with condensation
		* Solar Radiation
		360 BTU/hr/ft ² (1000 Kcal/h/m ²)
		* Ice, Survival
		1 in. (2.5 cm) radial
		* Shock and Vibration tolerant to conditions encountered during shipment by commercial air, sea, and land. Atmospheric tolerant to conditions encountered in coastal regions and/or heavily industrialized areas.

Visit <http://www.triointglobal.com> for online information

*Specifications subject to change without notice



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