

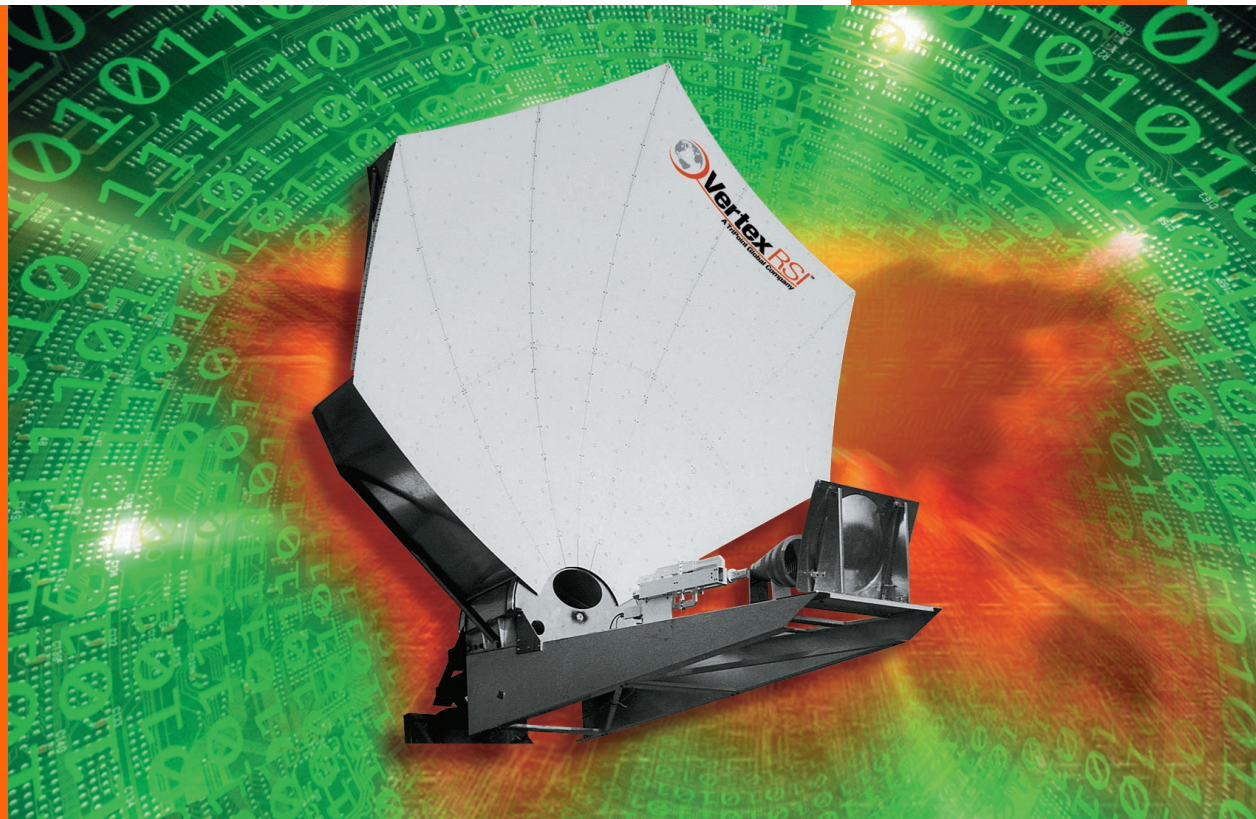
MODEL

3.8-METER

DPK / DPC

KU-BAND &

C-BAND



The VertexRSI 3.8-Meter Dual-Offset Ku-Band and C-Band fixed antenna is designed and built with a long tradition of high quality antennas. This antenna is destined to become the technical standard for responsible, reliable, and high quality VSAT systems worldwide.

The state-of-the-art design provides exceptional performance for low cross-polarization levels and excellent sidelobe patterns. The rugged feed boom can support up to 300 lbs (136 kg)

of integration equipment. Multiple models have INTELSAT and ASIASEAT approval. This antenna and many feed systems are in stock, warehoused in the U.S. and Europe, and available for immediate delivery.

Many options are available for this antenna including frequency of operation from 3.4 to 40 GHz with the widest range of C, X, Ku, DBS, and Ka-Band feed systems. Mounting configurations vary from simple fixed-pipe to non-penetrating roof mount.

Key Features

- Aluminum Reflector Construction
 - Light Weight
 - Precise Surface
 - Long-Life Spec. (15 yrs)
- High "on-axis" Gain with Low off-axis EIRP
- 125 mph (200 km/h) Survival Any Position
- VertexRSI Designed Integration Packages Available
- INTELSAT & ASIASEAT Type Approved

Mechanical

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Azimuth Travel	360° Course / 10° Fine Adjustment
Elevation Travel	0° - 90°
Polarization Travel	Nominally $\pm 95^\circ$, variable based on integration requirements of customer selected feed / radio package
Reflector Structure	Aluminum
Pedestal Structure	Hot Dip Galvanized Steel
Weight	
Reflector Assembly	950 lbs. (431 kgs)
Pipe Head Pedestal	250 lbs. (113 kgs)
Environmental	
Operational Winds	45 mph (72 km/h) Gusts to 60 mph (97 km/h)
Survival Winds	125 mph (200 km/h)
Ambient Temperature	-40° to 122° F (-40° to 50° C)
Relative Humidity	0% to 100% with Condensation
Solar Radiation	360 BTU/h/ft ² (1000 Kcal/h/m ²)
Shock and Vibration	As encountered during shipment by commercial air, sea, or land travel
Corrosive Atmosphere	As encountered in coastal regions and / or heavily industrialized areas

Antenna Products

Electrical	C-Band 2-Port Circular Polarized Receive Transmit	C-Band 4-Port Circular Polarized Receive Transmit	Ku-Band 2-Port Linear Polarized Receive Transmit
Frequency (GHz)	3.625- 4.200	5.850- 6.425	10.95- 12.75 13.75- 14.50
Antenna Gain at midband, dBi	41.8	45.9	51.7 53.0
Antenna Noise Temperature			
5° Elevation	49° K	49° K	78° K
10° Elevation	40° K	40° K	64° K
20° Elevation	35° K	35° K	55° K
40° Elevation	33° K	33° K	51° K
Typical G/T at midband, 20° Elevation, Clear Horizon			
C-Band 35 K LNA	23.3 dB/ K	23.5 dB/ K	
Ku-Band 70 K LNA			31.7 dB/ K
Pattern Beamwidth at midband			
-3 dB	1.35	0.87	0.43 0.38
-15 dB	2.84	1.83	0.90 0.80
Sideline Performance	Meets FCC 25.209 or ITU-RS 580 Specifications	Meets FCC25.209 or ITU-RS 580 Specifications	Meets FCC25.209, EUTELSAT or ITU-RS 580 Specifications
Cross POL Isolation (within 1 dB)	20.8 dB	27.3 dB	30.7 dB 30.7 dB 35.0 dB 35.0 dB
VSWR (max)	1.50:1	1.30:1	1.30:1 1.25:1
Axial Ratio	1.58 dB	0.75 dB	0.50 dB 0.50 dB
Port to Port Isolation			
Rx/Tx (Rx Freq)	0 dB	-85 dB	0 dB -30 dB
Tx/Rx (Tx Freq)	-120 dB	0 dB	-85 dB 0 dB
Rx/Rx, Tx/Tx (Same Band)		20 dB	20 dB
Feed Insertion Loss	0.30 dB	0.20 dB	0.32 dB 0.20 dB 0.20 dB 0.15 dB
Waveguide Interface Flange	CPR-229G	CPR-137G	CPR-229G CPR-137G WR-75 Flat WR-75 Flat
Total Power Handling Capability		1 KW	1 KW 2KW
RF Specification	975-1744H	975-1977C	975-2119C
Type Approval	INTELSAT	INTELSAT	INTELSAT, ASIASEAT, Sing Tel

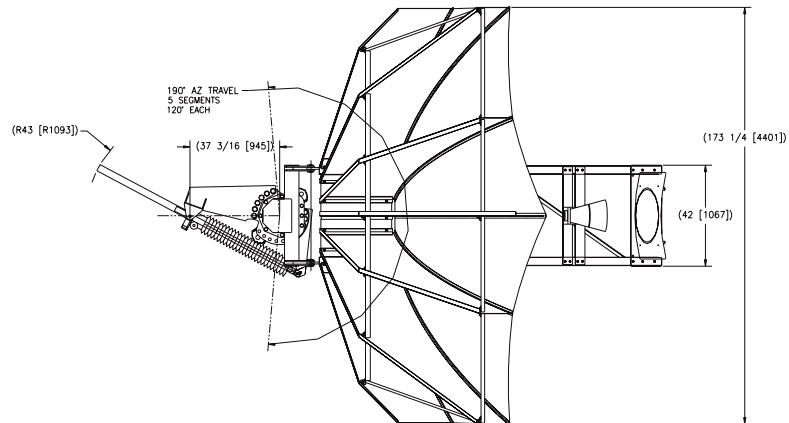
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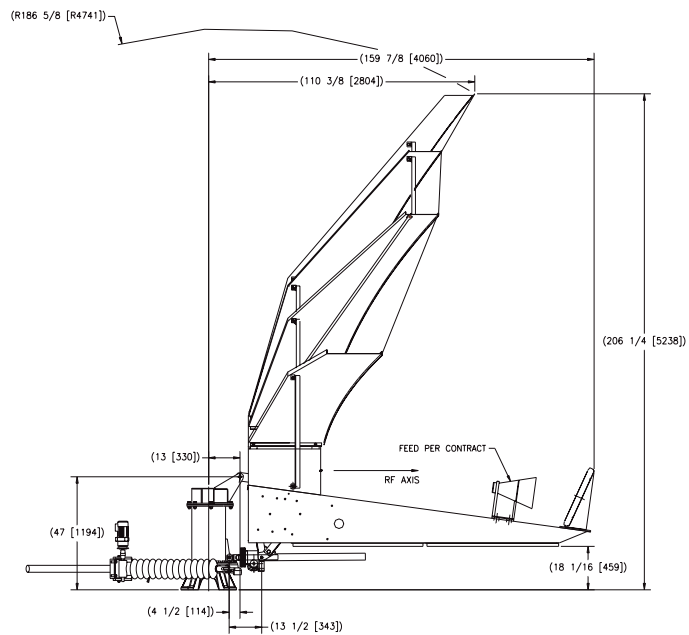
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PLAN VIEW



ELEVATION VIEW

JCH99-072.DWG



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