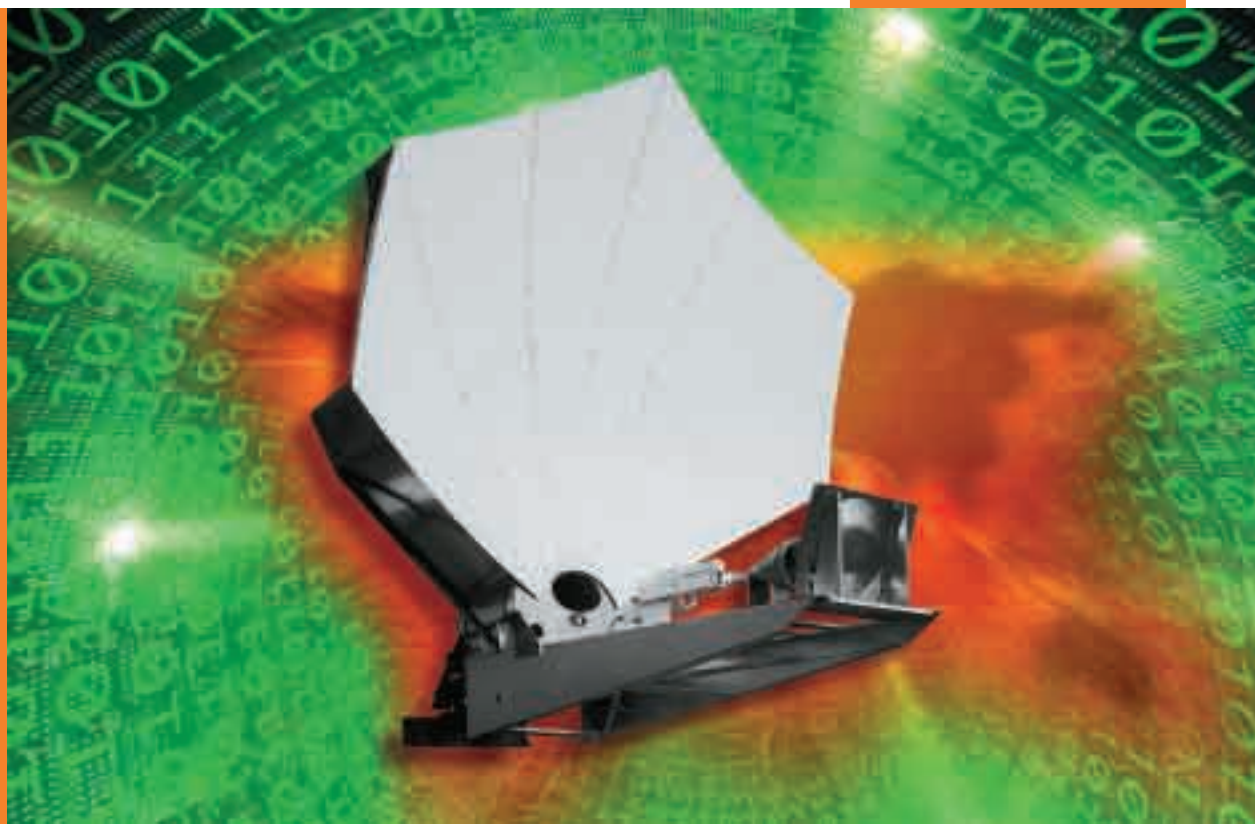
Vertex RSI®

Antenna Products

MODEL 3.8-METER DPK / DPC KU-BAND & C-BAND ANTENNA



The VertexRSI 3.8-Meter Dual-Offset Ku- 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 ASIASAT 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 mounts to non-penetrating roof mounts.

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 and ASIASAT Type Approved**

(903) 984-0555

Antenna Products

MODEL 3.8-METER DPK / DPC KU-BAND & C-BAND ANTENNA

	C-Band 2-Port Circular Polarized Feed		Ku-Band 2-Port Linear Polarized Feed	
Electrical	**Receive**	**Transmit**	**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	42.0	45.9	52.5	53.4
VSWR	1.50:1 (14.0 dB)	1.30:1 (17.7 dB)	1.25:1 (19.0 dB)	1.25:1 (19.0 dB)
Pattern Beamwidth at midband				
-3 dB	1.35°	0.87°	0.40°	0.36°
-15 dB	2.84°	1.83°	0.84°	0.76°
Sidelobe Performance	Meets ITU-RS-580, Intelsat or FCC 25.209		Meets Eutelsat, Intelsat, ITU-RS-580 or FCC 25.209	
Antenna Noise Temperature				
5° Elevation	49 K		61 K	
10° Elevation	40 K		46 K	
20° Elevation	35 K		36 K	
40° Elevation	33 K		32 K	
Axial Ratio	1.58 dB	0.75 dB		
Power Handling (total)		1 kW CW		2 kW CW
Cross Pol Isolation (within 1 dB)	20.8 dB	27.3 dB	35.0 dB	35.0 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
RF Specification	975-1744H		975-2119B	

Mechanical	
Antenna Diameter	3.8 meters (12.5 ft)
Antenna Type	Dual reflector offset
Reflector Construction	Stretch-formed Aluminum backup structure
Mount Type	Elevation over azimuth
Antenna Travel	
Elevation	0°- 90° continuous
Azimuth	360° coarse, 10° fine adjustment
Shipping Volume	398 cu. ft (11.3 m³)
Shipping Weight (typical)	3,065 lbs. (1,390 kg)

Environmental	
Wind Loading	
Operational	45 mph (72 km/h) gusting to 60 mph (97 km/h)
Survival (any position)	125 mph (200 km/h)
Temperature Range	
Operational	-40° to +122° F (-40° to +50° C)
Rain	Up to 4 in/h (10 cm/h)
Relative Humidity	0% to 100% with condensation
Solar Radiation	360 BTU/h/ft² (1000 Kcal/h/m²)
Ice, (Survival)	1 in. (2.5 cm) on radials
Shock and vibration tolerant to conditions encountered during shipment by airplane, ship or truck. Atmospheric tolerant to conditions encountered in coastal regions and/or heavily industrialized areas.	

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 (DX mount)**

Visit http://www.tripointglobal.com for online information

Specifications subject to change without notice

2600 N. Longview Street • Kilgore, TX 75662 USA
Tel: (903) 984-0555 • Fax: (903) 984-1826
www.tripointglobal.com

A (DS) 318
1/05