

Patriot 4.8m Trailer Mount Antenna System

COBHAM

VSAT-Ku-Band Option

2009 Data Sheet

The most important thing we build is trust

Basic Features

- Extra support for added rigidity in wind
- Dual-reflector for high gain and excellent sidelobe
- Motorized dual-axis antenna system
- Cassegrain feed system for Ku-Band
- Various frequency and feed options
- Easy to transport and deploy

Description

The Patriot 4.8m transportable transmit/receive antenna can provide the extra link margin for the hub station in the VSAT networks, video uplink, or an SCPC central station at an affordable price.

The fold-down mount and removable panels are easily stowed or deployed in less than 45 minutes.

RF Specifications

2-Port Linear

	Receive	Transmit
Frequency in GHz	10.70 - 12.75	13.75 - 14.50
Midband Gain	53.5 dBi	54.9 dBi
Antenna Noise Temp @ 30° EL	30K	-
Typical G/T @ 20° EL	33 dB/K	
Cross Polarization On Axis	30 dB	35 dB
within 1 dB Beamwidth	26 dB	26 dB
Port to Port Isolation		
In TX Band	40 dB	
In RX Band		80 dB
Radiation Pattern	Complies with FCC 25.209 ITU-RS 580	
Geometry	High efficiency dual-shaped cassegrain design	
Feed Options	Wideband corrugated horns for various frequencies, 2 or 4 port feed systems	

Mechanical Data

System	Trailer with motorized mount and reflector
Max Height & Weight	Stowed: 11 ft, 2in., Deployed: 20 ft. Weight: 5,850 lbs.
Mount	Hot-dipped Galvanized
Elevation Adjustment	5 - 75°, Azimuth 270°
Reflector Structure	Aluminum with powder coating on reflector surface
Wind Loading	Operational: 45 mph gusting to 65 mph Survival: 100 mph at stow, trailer anchored
Ambient Temp.	Operational: -40° to 122° F Survival: -40° to 140° F

Other Bands Available:
C-Band



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