

# Patriot 4.8m Trailer Mount Antenna System

VSAT-C-Band Option

**COBHAM**

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 C-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.

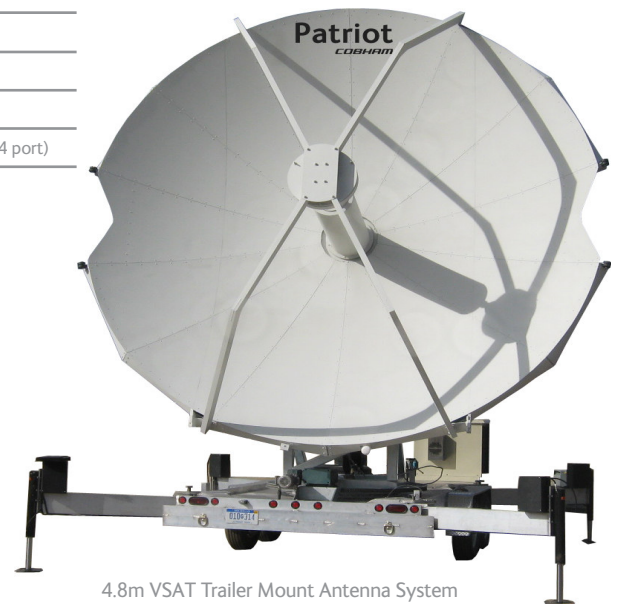
RF Specifications	2-Port Circular		2-Port Linear	
	Receive	Transmit	Receive	Transmit
Frequency in GHz	3.625 - 4.20	5.850 - 6.425	3.625 - 4.20	5.850 - 6.425
Midband Gain	44.1 dBi	48.1 dBi	44.3 dBi	48.3 dBi
Antenna Noise Temp @ 30° EL	33K	-	31K	-
Typical G/T @ 20° EL	24.8 dB/K	-	25.0 dB/K	-
Cross Polarization On Axis	17.7Db	27.3Db	30.0Db	30.0Db
within 1 dB Beamwidth	17.7Db	27.3Db	30.0Db	30.0Db
Return Loss	17.7Db	19.0Db	17.7Db	19.0Db
Port to Port Isolation				
TX to RX in TX Band	- 85 dB (2 port)	-	-	-
	- 85 dB (4 port)	-	-	-
TX to RX in RX Band	-	- 55 dB (2 port)	-	-
	-	-85 dB (4 port)	-	-50 dB (4 port)

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
Relative Humidity	0% - 100%

Other Bands Available:  
Ku-Band



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