

Patriot 3.8m Trailer Mount Antenna System

COBHAM

VSAT-Ku-Band Option
2009 Data Sheet

The most important thing we build is trust

Basic Features

Easy to transport and deploy

Extra support ribs for added rigidity in wind

Various frequency and feed options

F/D = 0.635, Diameter + 12.5 ft., 3.81m

Description

The Patriot 3.8m 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
Feed- 2 Port Xpol		
Return Loss	17.7 dB typ	20 dB typ
Antenna Noise Temp @ 20° EL	30K	-
Typical G/T @ 20° EL	31.5 dB/K	-
Antenna Gain	51.8 dBi	53.5 dBi
Cross Polarization On Axis	30 dB	35 dB
within 1 dB Beamwidth	30 dB	35 dB
Tx/Rx Sidelobe Level	-	29 - 25 log θ
	-	- 3.5
	-	32 - 25 log θ
	-	- 10

Mechanical and Environmental Data

Mount	Trailer with deployable Kingpost Elevation adjustment 5-90°, Azimuth 110°
Kingpost Mount	Hot-dipped Galvanized
Reflector Structure	Aluminum with powder coating on reflector surface
Wind Loading	Operational: 45 mph Survival: 125 mph at stow with proper anchoring
Ambient Temp.	Operational: -40° to 122° F Survival: -40° to 140° F
Relative Humidity	0% - 100%

Other Bands Available:
C-Band



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