

# Patriot 2.4m Flyaway Antenna Systems

**COBHAM**

Manual Adjustment / Dual Axis Motorized / Auto Locate  
C-Band Option

## 2009 Data Sheet

The most important thing we build is trust

### Manual Adjustment

#### Basic Features

Lightweight Reflector Manual Peaking

\*Ka, Ku, C Band

Patented Nine-Piece Dual Skin Metal Reflector

Motorized Feed for Polarization Adjustments

Palletized Full Motion Mount

#### Unique Features

RCI-3050 Controller

Jog Controller and Positon Reference Locator

### Dual Axis Motorized w/ Auto Locator

Includes the same basic features of the manual adjustment antenna.

#### Unique Features

Auto Locate

Manual Peaking

GPS and Fluxgate Compass

Auto Satellite Locations

RCI-3000A Controller

### Auto Locate

Includes the same basic features of the Dual Axis Motorized antenna.

#### Unique Features

Auto Commission

Auto Peaking Using Pulse Sensors

Includes DVB Receiver

Automatically Locates Satellite without Manually Adjusting

RF Specifications	Circular		Linear	
	Receive	Transmit	Receive	Transmit
Frequency in GHz	3.625 - 4.20	5.850 - 6.425	3.40 - 4.20	5.7 - 6.725
Midband Gain (Rx/Tx)	38.3 dBi	42.2 dBi	38.2 dBi	42.6 dBi
Antenna Noise Temperature at 30° Elevation	-	35 K	-	35 K
Typical G/T @ 30° EL	-	19.4 dB/K	-	19.0 dB/K
Cross Pol Isolation on Axis (4 port)	17.7 dB	27.3 dB	30.0 dB	35.0 dB
within 1 dB Beamwidth	17.7 dB	27.3 dB	22.0 dB	26.0 dB
Return Loss	17.7 dB	19.0 dB	17.7 dB	19.0 dB

### Mechanical Data

Antenna Optics	Single Offset
Mount Type	Elevation over Azimuth Tripod
Elevation Adjustment	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment	+ 30° Fine, 360° Continuous

### Environmental Data

	Standard	Metric
Wind Loading	45 mph	72 km/h
	75 mph	Survival
Temperature	-40° to 140°F	-40° to 60°C
Rain	.5 in/hr.	1.3 cm/h
Solar Radiation	360 BTU/h/ft <sup>2</sup>	1000 Kcal/h/m <sup>2</sup>



2.4m Flyaway System

Other Bands Available:

Ku, Ka