



Communications
& Technology

PFA-240-MIL

High Performance in Military Conditions



PFA-240-MIL

Whether you operate in C, X, KU, Ka Band, the PFA-240 could be easily configured to provide instant satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. It ensures reliable transmission for any applications such as broadcast, corporate networks, military and emergency communications, etc...

It can be easily transported with IATA weight-compliant flight cases so it can be transported by a commercial airline to wherever you need it.

The PFA-240 with its lightweight but robust 10-segmented Carbon-Fiber main reflector facilitates easy and fast deployment. Two operators can achieve the installation within 15 minutes without any training and tools required.

COMPATIBILITY

- MIL-STD-810G Compliant
- MIL-STD-461F Compliant
- MIL-STD-1472 Compliant
- MIL-STD-188-164A Compliant
- ITU-RS-580 Compliant
- ITU-RS-465-6 Compliant
- EUTELSAT Compliant

Key Features

- Multi-Band feeds changed in minutes
- Multiple mount options (mobile, pedestal, tactical, and tripod mounts)
- C, X, Ku, Ka Band options are available
- 10 reflector panels (carbon-fiber)
- Motorized or non-motorized versions
- 2 transport cases (standard)
- Installation within 15 minutes
- Designed to comply with Mil-Spec standards
- Integrated DVB-S/S2 & Beacon Receiver
- Optional De-Ice
- Manual drive tool kit for emergency situations
- High gain, low side-lobe, high accuracy and very good cross polar rejection (> 35 dB)
- Supports OpenAmp



GENERAL SPECIFICATIONS

Reflector Diameter	2.4m
Reflector Type	Circular, axially symmetric with 10 carbon-fiber panels, prime focus feed
Operation On-Air Time	~ 5 Minutes after Set-Up
Antenna Concept	Portable design with pedestal, trailer, tactical, tripod, mobile mounts.

RF CHARACTERISTIC

Frequency (GHz)	Tx 13.75 - 14.50 GHz	Rx 10.70 - 12.75 GHz
Antenna Gain (± 0.2 dBi)	Tx 49.2 dBi @ Midband	Rx 47.4 dBi @ Midband
Polarization	Linear	
Feed Insertion Loss	Tx 0.8 dB	Rx 0.3 dB
Waveguide Interface	WR - 75	
VSWR	1.3:1	
Cross-Polar Isolation	35 dB	
G / T	28.5 dB/K	

OTHER FEED OPTIONS

		C-Band	X-Band	Ka-Band
Frequency	Tx	5.850-6.425 GHz	7.90-8.40 GHz	27.50-31.00 GHz
	Rx	3.625-4.200 GHz	7.25-7.75 GHz	17.70-21.20 GHz
Gain	Tx	41.9 @6.00GHz	44.4 @8.15GHz	55.2 @30.00GHz
	Rx	37.6 @4.00GHz	43.5 @7.50GHz	52.3 @20.00GHz

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Drive Rates	0.3° /s	0.5° /s	0.5° /s
Antenna Travels	$\pm 180^\circ$ *	0° to 90°	$\pm 90^\circ$
*: Antenna azimuth travel range is $\pm 180^\circ$ when elevation is greater than 36°, Antenna azimuth travel range is $\pm 60^\circ$ from local 150° when elevation is less than 36°			
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Mount Type	Elevation over Azimuth		
Operational Limits	Hardware and software settable		

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	-30°C to +60°C
	Survival	-40°C to +70°C
Wind Speed	Operational	60 km/h (optional 72 km/h with pedestal mount)
	Survival	120 km/h (optional 150 km/h with pedestal mount)
Humidity (Relative)	0-100%	
Altitude	4000 m	

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