



STANDARD
MIL-STD
461F

STANDARD
MIL-STD
188-164A

STANDARD
MIL-STD
810G

PFA-240-SPL

Whether you operate in Ku, Ka, X, C or DBS Band, the PFA-240-SPL could be easily configured with an interchangeable feed 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 transferred with IATA weight-compliant flight cases so it can be transported by a commercial airline to wherever you need it.

The PFA-240-SPL's lightweight but robust segmented Carbon-Fiber main reflector facilitates easy and fast deployment. Two operators can achieve the installation within 12 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

- C, X, Ku, Ka Band options are available
- Multiple mount options (mobile, pedestal, tactical, tripod, trailer mounts)
- 10 reflector panels (carbon-fiber)
- Motorized or manual versions
- 2 transport cases (standard)
- Integrated DVB-S/S2 & Beacon Receiver
- Optional De-Ice System
- Manual drive tool kit for emergency situations
- Optional 4G / 5G / LTE supported modem for load balancing and bonding solutions
- 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	~ 3 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	5.850–6.65 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	42 @ 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 Survival	-30°C to +60°C -40°C to +70°C
Wind Speed	Operational Survival	60 km/h (optional 72 km/h with pedestal mount) 120 km/h (optional 150 km/h with pedestal mount)
Humidity (Relative)	0–100%	
Altitude	4000 m	

PACKAGING

Carbon-Fiber Cases	Box1: 100cmx100cmx65cm Box2: 100cmx100cmx60cm
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