

PTA-120Ku Transportable Antenna

PROFEN's PTA-120Ku is a transportable (Fly-away) satellite antenna designed for quick deployment and operation in Broadcast SNG, and VSAT applications.

The antenna structure with ultra-robust aluminum mount and lightweight high-performance carbon fiber reflector makes it an ideal choice for Disaster Relief, Emergency Communications, Corporate Networks, and Military satellite communications since it can be easily deployed for a quick operation, even in harsh environment.

Typical Applications

- ❖ Broadband Internet in rural area
- ❖ Emergency communication from disaster area
- ❖ Corporate network extension via satellite
- ❖ Outdoor Broadcast
- ❖ Homeland Security mobile satcom

Key Features

- Portable & Rigid Mechanical Structure
- Easy to install (< 10 min)
- Maintenance free bearings on each axis
- Lightweight six-piece carbon-fiber Reflector and tripod structure
- Angular indicators on each axis
- Tool free installation
- Unique reflector plates with latch mounting
- Total weight 32 kg
- IATA complied 2 pieces of carrying cases

PTA-120Ku Transportable Antenna *

RF SPECIFICATIONS

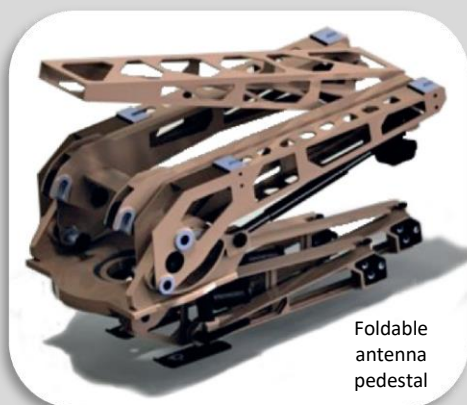
Rx Frequency Range (GHz)	10.7 – 12.75	Antenna Noise Temperature	30K @ 20° EL
Tx Frequency Range (GHz)	13.75-14.5 (12.75-14.5 option)	Cross-Pol Isolation (dB)	-30 dB on axis as std. -35 dB (optional)
Polarization	Linear Orthogonal Optional Co-Pol	VSWR	1.30:1
		Tx to Rx Isolation	80 dB
G/T @ mid-band and 20° EL	21.5 dB/°K w/50K LNA	Side Lobe Performance	ITU-R S.580-6
		Power Handling Capability	1 KW per port
Tx Gain (mid-band) (dBi)	42.5 dBi		
Rx Tx Gain (mid-band) (dBi)	41.5 dBi		

ENVIRONMENTAL SPECIFICATIONS

Temperature range		Wind Performance	
Operational	-30 to +60 °C	Operational	60 kph
Survival	-40 to +70 °C	Survival	100 kph (Stowed)
Rainfall	Max 100mm/h	Altitude	4000m
Humidity	95 % Non-Condensing		

MECHANICAL SPECIFICATIONS

Antenna Size	1.2m	Antenna Type	Prime focus off-set
Reflector	6 pcs segmented Carbon Fiber	Mount	EL over AZ tripod
Axis Travel		Tripod Load Carrying Capacity	Feed arm 7 kg Reflector back 15 kg
Azimuth	360°		
Elevation	0° to 90°		
Polarization	±100° for 2-port feed		
Color	White (other colors optional)	Case Dimensions	800*530*320mm, WxDxH
Case Weight	2x32 kg	RF Interface	WR75 Cover Flange



*Specification of the antenna is subject to change without any notice