

FMA-120Ka

iNetVu[®]
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu[®] FMA-120Ka, Fixed Motorised Ka-band Antenna system is a self-pointing auto-acquire unit that can be mounted either as a permanent installation or on a portable fixed base. The antenna works seamlessly with the iNetVu[®] 7024C Controller.



Features

- 1.2m Offset, prime focus, thermoset-molded reflector
- Designed to work with the iNetVu[®] 7024C controller
- Works seamlessly with the world's most popular Ka-band commercially available satellite services (Exede, Tooway and iDirect)
- Supports 3W and 5W Transceivers
- 2 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellites within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing and network downtime due to inadvertent motion, satellite change, areas where ground shifts occur (earthquakes, landslides, mine blast zones, etc...)
- Can be easily relocated when mounted on a semi-permanent platform without the need for any specialized equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorized system
- Supports ViaSat 1.2m Ka antenna, other Ka services can be supported as required
- Can be easily converted to support Ku-band
- 1 year warranty



Application Versatility

If you operate in Ka-band, the FMA-120Ka system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for industries such as Oil & Gas Exploration, Mining, Disaster Management, Construction, Mobile Offices, Emergency Services, Cellular Backhaul and many others.



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Mechanical

Antenna Size	1.2m (48")
Reflector Material	Glass reinforced polyester SMC
Platform Type	Two axis Motorized, Galvanized steel
Antenna optics	Prime Focus, offset feed
Mast Size	2.5 SCH 80 pipe (3.00" OD)
Elevation Range	0° to 90°
Azimuth Range	340°
Polarization	Circular, Auto-switching

Environmental

Wind Loading	
Operational	72 km/h (45mph)
Survival	200 km/h (125mph)
Temperature	
Operational	-30°C to 55°C (-22°F to 130°F)
Survival	-40°C to 65°C (-40°F to 150°F)

Electrical

Elevation Motor	24VDC
Azimuth Motor	24VDC
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional	Up to 60m (200 ft) available

Ka-Band

	Receive	Transmit
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain (±.2dB)	46.5	49.9
EIRP (Nominal)	54 dBW @ 29.75 GHz	
G/T (Nominal)	23 dB/K @ 19.95 GHz	
Antenna Noise Temp. (K)	20° EL= 107 / 40° EL= 89	
Sidelobe Envelope Co-Pol (dBi)		
1.5° <Θ < 20°	29-25 LogΘ	
20° <Θ < 26.3°	-3.5	
26.3° <Θ < 48°	32-25 LogΘ	
48° <Θ < 180°	-10 Typical	
Cross Polarization	-25 dB in 1dB contour	
Any angle of axis	-25 dB (Max.)	
Feed Interface	Type F	Type F
VSWR	1.3:1 (Max.)	

Shipping Weights & Dimensions

1 Skid: 132 cm x 117 cm x 155 cm (52" x 46.1" x 61") 170 kg (374.8 lbs)

*The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

