FMA-180

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu 180 Fixed Motorised Antenna system is a self-pointing auto-acquire unit that can be mounted as a permanent installation. Works seamlessly with the auto-pointing iNetVu 7024 controller.

Features

- 1.8m Offset, prime focus, glass fibre SMC reflector
- Designed to work with the iNetVu 7024 controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 2 Axis motorization
- 3rd Axis (Polarization) optional
- Supports manual control when required
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing and network downtime due to adverse weather conditions
- Can be easily relocated when mounted on a semi-permanent platform without the need for any specialised equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorised system
- Supports Prodelin 1.8m antenna, Model 1184
- System designed for 4W and higher BUCs (10 Kg max. weight for RF electronics (BUC and LNB))

Application Versatility

The FMA-180 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 and Emergency Services.

C-COM SATELLITE SYSTEMS INC.

www.c-comsat.com
(613) 745-4110 (877) 463-8886

This is a draft. Specifications are subject to change. Nov. 2011

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Mechanical

Antenna size	1.8m (71")
Reflector Material	Glass reinforced polyester SMC [1]
Mount Type	3 axis Motorized, Galvanized steel
Antenna optics	Prime Focus, offset feed
Mast size	3.5 SCH 40 pipe (4.00" OD)
Elevation range	80° (10° to 90° adjustable)
Azimuth Range	100° - (360° Manual adjustable)
Polarization Range	± 90°
Shipping Specifications	200Kg (445 lbs)

Environmental

Wind loading	
Operational	80 km/h (50mph)
Survival	201 km/h (125mph)
Temperature	
Operational	-40° to 60° C (-40° to 140° F)
Survival	-46° to 71° C (-50° to 160° F)

Electrical

Elevation Actuator	24 Volt
Azimuth Actuator	24 Volt
Motor Cable	16 AWG, 15m (50 ft)
Sensor Cable	24 AWG, 15m (50 ft)

Ku-Band

Operating Frequency (GHz)	
Receive	10.95 - 12.75
Transmit	14.0 - 14.50
Midband gain (± .2dB)	
Receive	45.0 dBi
Transmit	46.5 dBi
Antenna Noise Temp.	
10° Elevation	44K
40° Elevation	33K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
Cross Polarization	> -30 dB on axis
VSWR	1.3:1 Max
Feed Interface	
Receive	Type F or N
Transmit	WR 75

C-Band (Circular)

Operating Frequency (GHz)	
Receive	3.625 - 4.2
Transmit	5.850 - 6.425
Midband gain (± .2dB)	
Receive	35.5 dBi
Transmit	39.9 dBi
Antenna Noise Temperature	
10° Elevation	30K
40° Elevation	20K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
VSWR	1.3:1 Max
Feed Interface	
Receive	CPR 229 F
Transmit	CPR 137 or type N

C-Band (Linear)

Operating Frequency (GHz)	
Receive	3.625 - 4.2
Transmit	5.850 - 6.425
Midband gain (± .2dB)	
Receive	35.5 dBi
Transmit	39.5 dBi
Antenna Noise temperature	
10° Elevation	56K
40° Elevation	46K
Sidelobe Envelope Co-Pol	
Mainbeam <Θ<7°	29-25 LogΘ dBi
7° <Θ< 9.2°	+8 dBi
9.2° <Θ <48°	32-25 LogΘ dBi
48° <Θ <180°	-10dBi Ave.
Cross Polarization	> -30 dB on axis
VSWR	1.3:1 Max
Feed Interface	
Receive	CPR 229 F
Transmit	CPR 137 or type N

Warranty

Standard	1 year

Note: *[1] Antenna based on Prodelin, Model 1184*

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