982

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® 982 Drive-Away Antenna is a 98 cm Ku-band auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for Broadband Internet Access over any configured satellite. The system works seamlessly with the iNetVu® 7715 Controller providing fast satellite acquisition within minutes, anytime anywhere.

982 Stowed (with pod option)

Field Upgradable to Ka-98G or Ka-98V or Ka-98H/Jup

Features

- One-Piece high surface accuracy, offset feed, SMC reflector
- Heavy duty feed arm capable of supporting up to 5Kg (10 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's most popular commercially available Ku modems and services
- Field Upgradable to Ka-98G or Ka-98V or Ka-98H/Jup
- 3 Axis motorization
- Supports manual control when desired
- Supports hand cranks when required
- One button, auto-pointing controller acquires any Ku satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Based on GD 98 cm reflector with cross-pol feed
- Available with pod option
- Standard 2 year warranty

Application Versatility

If you operate in Ku, the 982 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. The system is also field upgradable to Ka-band. Ideally suited for industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

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Mechanical

Reflector	98 cm Antenna SMC reflector, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna
	Compass ± 2º
	Tilt sensor ± 0.1º
Azimuth	Full 360º in overlapping 200º sectors
Polarization	±90º
Elevation	0 - 90º
Elevation Deploy Speed	Variable, 10º/sec typ.
Azimuth Deploy Speed	Variable, 10º/sec typ.
Peaking Speed	0.1º/sec

Environmental

Survival	
Wind Deployed	160 km/h (100 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40ºC to 65ºC (-40°F to 150°F)
Operational	
Wind	72 km/h (45 mph)
Temperature	-30ºC to 55ºC (-22°F to 130°F)

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked
Shock Test per IEC 60068-2-27, Water Ingress per IP-66

RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type / N Type (optional)
Axis transition	Twist-Flex Waveguide

Physical

Mounting Plate	L: 156 cm (61.5")	W: 45 cm (17.7")
Stowed Reflector Ext. Dims (without pod)	L: 173 cm (68.0") H: 33.4 cm (13.1")	W: 99 cm (39.0")
Stowed Reflector Ext. Dims (with pod)	L: 185 cm (73.2") H: 33.4 cm (13.1")	W: 114.5 cm (45")
Deployed Height	151 cm (59.5")	
Platform Weight	54 kg (119 lbs)	
Pod weight alone	6.8 kg (15lbs)	
Platform Weight (without pod)	54 kg (119lbs)	
Platform Weight (with pod)	60.8 kg (134lbs)	

Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Ext. Cable
Optional	Up to 60 m (200 ft) available
	Ku-band (Linear)
Transmit Power	1 to 200 Watt
Receive Frequency (GHz)	10.70 - 12.75 [1]
Optional	10.70 - 11.70
Transmit Frequency (GHz)	13.75 - 14.50
Optional	12.75 - 14.50
Midband Gain (±0.2 dB)	
(Rx)	39.80@12.00 GHz
(Tx)	41.30@14.30 GHz
Antenna Noise Temp. (K)	10º EL=53
	20º EL= 39
	30º EL= 32 Max.
Sidelobe Envelope, Co-Pol (dBi)	
100λ/D < Ø < 20º	29 - 25 Log Ø
20º < Ø < 26.3º	-3.5
26.3º < Ø < 48º	32 - 25 Log Ø
48º < Ø < 180º	-10 (typical)
Cross-Polarization	
Standard feed:	
Within 1 dB contour:	-30dB (Max.)
Any Angle off Axis:	-25 dB (Max.)
Optional Eutelsat Feed:	
Within 1 dB contour	< 30dB (Min.)
VSWR Rx	1.3:1
VSWR Tx	1.3:1

Motors

Electrical Interface	24VDC	8 Amp (Max.)

Shipping Weights & Dimensions*

iNetVu 982 system, controller and standard set of cables, accessories
Mount Crate: 186 cm × 112 cm × 69 cm (73" × 44" × 27"), 136 kg (300 lbs)
POD box: 127cm × 41cm × 127cm (50" × 16" ×50"), 23 kg (50 lbs)
Total Weight with POD: 159kg (350lbs)

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

Note:
[1] LNB PLL Type required with stability better than ± 25 KHz

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