1800+

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu® 1800+ Drive-Away Antenna is a 1.8m auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for direct broadband access over any configured satellite. The system works seamlessly with the iNetVu® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.

Features

- One-Piece precision offset, thermoset-molded reflector with back cover
- Optional 2pcs and 4pcs reflector available
- Heavy duty feed arm capable of supporting up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite
- acquisition methods
- Supports Skyware Global 1.8m antenna Type 183
- Standard 2 year warranty

Application Versatility

Whether you operate in Ku or C band, the 1800+ 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, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

C-COM SATELLITE SYSTEMS INC.

613-745-4110 | 1- 877-463-8886
www.c-comsat.com

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Mechanical

Reflector	1.8m prime focus, offset feed, SMC [1]
Platform Geometry	Elevation over Azimuth
Deployment Sensors GPS Antenna	Compass ± 2º, Tilt Sensor ± 0.2º
F/D Ratio	0.61
Azimuth	Full 360º in overlapping, 200º sectors
Elevation	0º to 75º (Optional - up to 80º)
Polarization	± 90º
Elevation Deploy Speed	Variable 2º /sec typ.
Azimuth Deploy Speed	Variable 15º /sec typ. , 10º /sec typ.
Peaking Speed	0.1º /sec
Motor Voltage	12VDC 15 Amp (Max.)

Environmental

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	225 km/h (140 mph)
Temperature	
Operational	-32º to 55º C (-26º to 130º F)
Survival	-40º to 65º C (-40º to 149º F)

Electrical

Rx & Tx Cables	2 RG6 Cables
Control Cables	
Standard	9.1 m (30 ft) Extension Cable
Optional	Up to 45 m (150 ft) available

RF Interface

Radio Mounting	Feed arm/ Inside vehicle	
Coaxial	RG6U from feedhorn to base plate	
Axis Transition	Twist-Flex Waveguide	
Electrical Interface	9.1m (30 ft) ext. cables w/MIL connectors	
VSWR	Rx 1.5:1	Tx 1.3:1

Physical

Mounting Plate	L: 132 cm (52")	W: 71 cm (28")
Stowed Dimensions	L: 249 cm (98")	W: 188 cm (74")
	H: 67 cm (26.4")	
Deployed Height	248 cm (97.6")	
Total Weight (w reflector)	162 kg (358 lbs)	
Reflector Weight	37 kg (81 lbs)	
Total Platform Weight	125 kg (275 lbs)	

Optional Cases:

1case (2pcs reflector): 207cm x 102.9 cm x 50.8 cm (81.5" x 40.5" x 20")
Total weight w/reflector: 104.8 kg (231lbs)

2cases (4pcs reflector): 104.1cm x 99.1cm x 34.3cm (41" x 39" x 13.5")
Total weight w/reflector: 90.7 kg (200 lbs)

Ku-Band (Linear Orthogonal)

	Receive	Transmit
Transmit Power	(1 to 200 watt [2])	
Frequency (GHz)	10.70-12.75	13.75-14.50
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain (± 0.2dBi)	45.30	46.80
Antenna Noise Temp. (K)	10º EL= 43 / 20º EL= 28 / 30º EL=23	
Sidelobe Envelope, 1º<Θ<20º	29-25 Log Θ	
Co-Pol (dBi) 20º<Θ<26.3º	-3.5	
26.3º<Θ<48º	32-25 Log Θ	
48º<Θ<180º	-10 (Average)	
Cross-Polarization on Axis	-30 dB	
Within 0.5 dB Beamwidth	-26 dB	
Isolation (Port to Port)	35 dB	80 dB

C-Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.4-4.2	5.850-6.725
INSAT Frequency (GHz)	4.5-4.8	6.725-7.025
Feed Interface	WR229	WR137 or Type N
Midband Gain (± 0.3dBi)	35.40	39.30
Antenna Noise Temp. (K)	10º EL= 41 / 20º EL= 36 / 30º EL=33	
Sidelobe Envelope, 2.5º<Θ<20	29-25 Log Θ	
Co-Pol (dBi) 20º<Θ<26.3º	-3.5	
26.3º<Θ<48º	32-25 Log Θ	
48º<Θ<180º	10 (Average)	
Cross-Pol: on Axis	-30 dB	
INSAT Axis	-35 dB	
Tx/Rx Isolation	60 dB	60 dB

C-Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20	5.85-6.425
Feed Interface	WR229	WR137 or Type N
Midband Gain (± 0.4dBi)	35.40	39.50
Antenna Noise Temp. (K)	10º EL= 41 / 20º EL= 36 / 30º EL= 33	
Sidelobe Envelope, 2.8º<Θ<20º	29-25 Log Θ	
Co-Pol (dBi) 20º<Θ<26.3º	-3.5	
26.3º<Θ<48º	32-25 Log Θ	
48º<Θ<180º	-10 (Average)	
Isolation	60 dB	60 dB

Shipping Weights & Dimensions

Crate: 213cm x 89cm x 84cm (84" x 35" x 33"), 55 kg (121 lbs)
Platform: 123 kg (272 lbs); 7024C Controller: 6 kg (13 lbs); Cables: 5 kg (11 lbs)
Reflector Box (Reflector, Back Cover included) on Pallet, wood:
208cm x 206cm x 38cm (82" x 81" x 15"), 102 kg (225 lbs)

Total weight on Pallet, 2 – Pieces: 292 kg (642 lbs)

Note: [1] Antenna based on Skyware Global, Type 183
[2] Depending on size and weight for feed arm mounting limitation

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