1801



TECHNICAL SPECIFICATIONS

The iNetVu® 1801 Drive-Away Antenna is a 1.8m 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® 7710 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® 7710 controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control and hand crank 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 1801 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.



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CiNetVu®

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

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Reflector 1.8m prime focus, offset feed, SMC $^{(1)}$ Platform Geometry Elevation over Azimuth Deployment Sensors GPS Antenna Compass \pm 2°, Tilt Sensor \pm 0.2°

F/D Ratio 0.6

Azimuth Full 360° in overlapping, 200° sectors

Elevation 0° to 90° Polarization ± 95°

Elevation Deploy Speed Variable 2º /sec typ.

Azimuth Deploy Speed Variable 15°/sec typ., 10°/sec typ.

Peaking Speed 0.1°/sec

Motor Voltage 24VDC 15 Amp (Max.)

Environmental

Wind loading

Operational 80 km/h (50 mph)

Survival

Deployed 112 km/h (70 mph) Stowed 225 km/h (140 mph)

Temperature

Operational -30° to 55° C (-22° to 131° F) Survival -40° to 65° C (-40° to 149° 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

Electrical

Rx & Tx Cables 2 RG6 Cables

Control Cables

Standard 10 m (33 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 Tx 1.3:1

Physical

Mounting Plate L: 169.8 cm (66.9") W: 55 cm (21.7")

Stowed Dimensions L: 265 cm (104.3") W: 180.1 cm (70.9")

H: 50 cm (19.7")

 Deployed Height
 255 cm (100.4")

 Reflector weight
 39.2 kg (86.5 lbs)

 Platform weight
 145.8 kg (321.5 lbs)

Optional Cases:

1 case (2pcs reflector): 207 cm x 102.9 cm x 50.8 cm (81.5" x 40.5" x 40.5" x 20")

Total weight w/reflector: 104.8 kg (231 lbs)

2 cases (4pcs reflector): 104.1 cm x 99.1 cm x 34.3 cm (41" x 39" x 13.5")

Total weight w/reflector: 90.7 kg (200 lbs)

Notes: (1) Antenna based on Skyware Global, Type 183

(2) Depending on size and weight for feed arm mounting limitation

 $^{(3)}$ LNB PLL Type required with stability better than \pm 25 KHz

Ku-Band (Linear Or	thogonal)	Receive		Transmit
Transmit Power		1 to 200 w	att ⁽²⁾	
Frequency (GHz)		10.70-12.7	′5 ⁽³⁾	13.75-14.50
(Optional)		10.70-11.7	' 0	12.75-14.50
Feed Interface		WR75		WR75
Efficiency		70%		70%
Midband Gain (± 0.20	dBi)	45.30		46.80
Antenna Noise Temp	. (K)	10° EL= 43	/ 20° EL=	28 / 30° EL=23
Sidelobe Envelope,	1°<Θ<20°		29-25 Log	Θ
Co-Pol (dBi)	20°<Θ<26	i.3°	-3.5	
	26.3°<Θ<	48°	32-25 Log	ιΘ
	48°<Θ<18	80°	-10 (Avera	ge)
Cross-Polarization on Within 0.5 dB Beam		-30 dB -26 dB		
Isolation (Port to Port	:)	35 dB		80 dB

C-Band (Linear)		Receive		Transmit
Standard Frequency (GHz)		3.40-4.20	(3)	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)	10° EL= 4	1 / 20º EL=	= 36 / 30° EL=33
Sidelobe Envelope,	2.5°<Θ<2	0	29-25 Log	Θ
Co-Pol (dBi)	20°<Θ<26	5.3°	-3.5	
	26.3°<Θ<	48°	32-25 Log	Θ
	48°<Θ<18	30°	10 (Avera	ge)
Cross-Pol: on Axis		-30 dB		
Within 0.5 dB Beamwidth		-26 dB		
Tx/Rx Isolation		60 dB	60	dB

C-Band (Circular)	Receive	Transmit
Standard Frequency Feed Interface Midband Gain (± 0.4	WR229	5.85-6.425 WR137 or Type N 39.50
Antenna Noise Temp Sidelobe Envelope,	•	20° EL= 36 / 30° EL= 33 29-25 Log Θ
Co-Pol (dBi)	20°<Θ<26.3° 26.3°<Θ<48° 48°<Θ<180°	-3.5 32-25 Log Θ -10 (Average)
Isolation	60 dB	60 dB

Shipping Weights & Dimensions*

Empty Crate w/ Lid: $228 \text{ cm} \times 108 \text{ cm} \times 75 \text{ cm} (90" \times 42.5" \times 29.5");$ 99.6 kg (219.5 lbs)

Crate w/ Ku Platform: 245.4 kg (541 lbs); 7710 Controller: 4.5 kg (9.9 lbs.); Cables: 5 kg (11 lbs)

Reflector Box (Reflector, Back Cover included) on Pallet, wood: 208 cm x 206 cm x 38 cm (82" x 81" x 15"), 102 kg (225 lbs)

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

