

1801

iNetVu®

by C-COM Satellite Systems Inc.

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® 7715 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® 7715 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, Ka, C or X band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods
- Supports Global Invacom 1.8m antenna Type 183
- Standard 2 year warranty

Application Versatility

Whether you operate in Ku, Ka, C or X 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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Specifications are subject to change Draft

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TECHNICAL SPECIFICATIONS

Mechanical

Reflector	1.8m prime focus, offset feed, SMC ⁽¹⁾
Platform Geometry	Elevation over Azimuth
Deployment Sensors GPS Antenna	Compass ± 2°, Tilt Sensor ± 0.2°
F/D Ratio	0.61
Azimuth	Full 360° in overlapping, 200° sectors
Elevation	0° to 90°
Polarization	± 95°
Elevation Deploy Speed	Variable 2° /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	Rx 1.50:1 Tx 1.30:1

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)

Shipping Weights & Dimensions*

Empty Crate w/ Lid: 228 cm x 108 cm x 75 cm (90" x 42.5" x 29.5"); 99.6 kg (219.5 lbs)
 Crate w/ Ku Platform: 245.4 kg (541 lbs); 7715 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

Antenna Bands

Transmit Power ⁽¹⁾	1 to 200 watt ⁽²⁾		1 to 1000 watt ⁽²⁾					
	<i>Ku-Linear</i>		<i>C-Linear / Circular</i>		<i>Ka-Circular</i>		<i>X - Circular</i>	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	10.70 - 12.75 ⁽³⁾	13.75 - 14.50 ⁽⁴⁾	3.40/3.625-4.20; 5.850-6.725/6.425		19.4 - 21.2	29.2 - 31.0	7.25-7.75 ⁽³⁾	7.90 - 8.40
(Optional)	10.70-11.70	12.75-14.50						
Feed Interface	WR75	WR75	WR229	WR137 or Type N	WR42	WR28	WR-112	WR-112
Efficiency	70%	70%						
INSAT Frequency Xpol (GHz)			4.50-4.80	6.275-7.025				
Midband Gain (dBi) (± 0.2dB)	45.30	46.80	35.40	39.30/39.50	(± 0.5dB) 49.2; 52.4		(± 0.5dB) 40.9; 41.6	
Antenna Noise Temp. (K)	10° EL= 43; 20° EL= 28; 30° EL=23		10° EL= 41; 20° EL= 36; 30° EL=33		10° EL= 131; 40° EL=94		10° EL= 43; 20° EL= 38; 30° EL= 35	
Sidelobe Envelope, Co-Pol (dBi)								
1°<θ<20°	29-25 Log θ		2.5°/ 2.8°<θ<20°	29-25 Log θ	2.8°<θ<20°	29-25 Log θ		DSCS Req.
20°<θ<26.3°	-3.5		20°<θ<26.3°	-3.5	20°<θ<26.3°	-3.5		
26.3°<θ<48°	32-25 Log θ		26.3°<θ<48°	32-25 Log θ	26.3°<θ<48°	32-25 Log θ		
48°<θ<180°	-10 (Average)		48°<θ<180°	10 / -10 (Average)	48°<θ<180°	-10 (Average)		
Cross-Polarization on Axis ⁽³⁾	-30 dB		- 30 dB		17.7 dB;	21.3 dB		
Within 0.5 dB Beamwidth	-26 dB		- 26 dB		17.7 dB;	21.3 dB		
Isolation (Port to Port)	35 dB	80 dB	60 dB	60 dB	30 dB	85 dB	20 dB	20 dB

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 ± 25 KHz
⁽⁴⁾ Feed can support up to 14.80 GHz

