C140FA Motorized Flyaway Antenna

Antenna Technologies



Overview

The CPI Antenna Technologies innovative flyaway line leads the way in the next generation of flyaway terminals. Available in 60cm to 1.4m reflector sizes, this tripod antenna line features simple manual or automated satellite acquisition; an intuitive GUI; and a range of optional extra features.

The flyaway line is lightweight allowing for ease of transportation. The completely waterproof and rugged design allows for operation in even the most challenging of conditions, be that in a war zone for military communications; capturing breaking news stories from the front line; or distributing CCTV from remote locations on international borders.

FEATURES:

- Simple manual or automated satellite acquisition
- Waterproof and rugged design for harsh environments
- Intuitive GUI and setup time of less than 5 minutes
- High performance carbon fiber segmented antenna
- Assisted, fast acquisition via intuitive GUI (C140FA
- Ka, Ku & X-Band
- ITAR free
- Common mount for C125 and C140
- Includes a clip-on auto pointing pack

OPTIONS:

- Range of integrated BUC/SSPB and LNB
- Auto-pointing kit can be easily retro fitted or swapped between antennas and sizes

BENEFITS:

- Lightweight
- Ease of operation

APPLICATIONS:

• Designed for operation in the most challenging of conditions



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Specifications

MECHANICAL ⁽¹⁾				
Azimuth Travel	+/- 180°			
Elevation travel	0 - 90°			
Polarization Travel	+/- 90°			
Antenna Diameter	Available in 60cm to 1.4m reflector sizes			
Antenna Type	Flyaway			
Reflector Construction	Carbon fiber, 8 piece segmented			
Packaging	Case 1: 33"x24"x18" – 85lbs. Case 2: 34"x28"x16" – 94lbs. Case 3: 34"x28"x16" – 88lbs.			
User Interfaces	AC power input – 85 to 264 VAC, 47-63 Hz DC power input – 11 to 36 VDC Ethernet (weatherproof RJ45) RF monitor (N-type) USB (weatherproof type A)			
Control	Single button control Web browser monitor & control Simple highly intuitive interactive web user interface			

ELECTRICAL ⁽¹⁾	Ka-Band Circular Polarized Receive Transmit		Ku-Band Linear Polarized Receive Transmit		X-Band Circular Polarized Receive Transmit	
Frequency (Ghz)	19.2 to 21.2	29.0 to 31.0	10.70 to 12.75	13.75 to 14.50	7.25 to 7.75	7.90 to 8 .40
Gain	48.5 dBi	51.1 dBi	42.8 dBi	44.5 dBi	38.9 dBi	39.8 dBi
G/T	G/T@20o = 25.1 dBk		G/T@20o = 22.7 dBk		G/T@20o = 19.2 dBk	

⁽¹⁾ Some specifications may vary based on the combination of equipment, options and/or upgrades ordered.



Alignment - C140FA

The optional auto pointing kit supplied with the C140FA simply clips onto the antenna and provides an upgrade to fully automatic pointing capabilities. The powerful on board controller allows for highly intuitive, single button control or a graphical user interface experience via a Web UI to deskill the operation of locating and acquiring the desired satellite.

The system utilizes the built in GPS, compass and inclinometer sensors in combination with information obtained from the optional beacon receiver and DVB receiver or attached MODEM, to provide data to the controller to enable automatic satellite pointing and peaking



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Specifications

Temperature (Tested to MIL-STD-8106 CH6-1 501.6 & 502.6 Proc. 1 & III)Operational Survival20°C (to 49°C (-50°F to 100°F) -45°C to 70°C (-50°F to 160°F)Humidity (Tested to MIL-STD-8106 CH6-1 507.6 Proc.II)Operational Survival95% Relative HumidityAltitude (Tested to MIL-STD-8106 CH6-1 507.6 Proc.II)Operational Survival95% Relative HumidityVibration (storage/transit) (tested to MIL-STD-8106 CH6-1 500.6 Proc.I & III)Operational Survival3,000m @ -10°C (9,842ft @ 14°F) S,000m @ -30°C (1,6404ft @ -22°F)Vibration (storage/transit) (tested to MIL-STD-8106 CH6-1 510.6 Proc.I & SandCat. 24 MIT: 0.04 g2/Hz, 20 Hz to 2,000 Hz, Th/axis, rms=7.7g'sSond R Dust Ingress (storage/transit) CH6-1 510.6 Proc.I & SandDust S and R Dust Ingress (storage/transit) OperationalSolar Radiations (Tested to MIL-STD-8106 CH6-1 510.6 Proc.I)Operational S andSolar Radiations (Tested to MIL-STD-8106 CH6-1 510.6 Proc.I)OperationalSolar Radiations (Tested to MIL-STD-8106 CH6-1 500.6 Proc.I)OperationalSolar Radiations (Tested to MIL-STD-8106 CH6-1 500.6 Proc.I)OperationalSolar Radiations (Tested to MIL-STD-8106 CH6-1 500.6 (Proc.I)OperationalBlowing Rai	ENVIRONMENTAL ⁽¹⁾	
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⁽²⁾ Depending on vehicle capabilities.

Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040

The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



Antenna Technologies

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