

## Satcom & Antenna Technologies Division



### Overview

The CPI Satcom & Antenna Technologies Inc. (CPI SAT) innovative ManPak®T line leads the way in the next generation of flyaway terminals. Available in 60cm to 1.0m reflector sizes, this tripod antenna line features simple manual or automated satellite acquisition; an award winning GUI; and a range of optional extra features.

ManPak®T is lightweight, and IATA compliant 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
- High performance carbon fiber segmented antenna
- Assisted, fast acquisition via award-winning GUI (C100FA)
- Lightweight, IATA compliant
- Packs into one case (two cases for the C100FA)
- Ka, Ku & X-band
- Set up time less than 5 minutes
- ITAR free
- C100FA includes a clip-on auto pointing pack

### BENEFITS:

- Lightweight
- Manual or automated

### APPLICATIONS:

- Designed for operation in the most challenging of conditions

# CPI ManPak®T Next Generation Flyaway Terminal: C100FM, C100FA

## External Interfaces

- LNB Rx RF
  - N Type
- Ethernet
  - Weatherproof RJ45
- AC Power Input
- DC Power Input
- RF Monitor
  - N Type

## Control

- Web Browser Setup
- Simple highly intuitive interactive user interface (optional)
  - 3.5" Digital TFT-LCD 640x480 Display
  - Colorful Graphical User Interface
  - Two Button Control

## Electrical, Ka-Band

- Frequency (GHz)
  - Transmit: 29.0 to 31
  - Receive: 29.5 to 31
- Polarization
  - Circular
- Tx Gain
  - Transmit: 46.6 dBi
- Rx Gain
  - Receive: 42.5 dBi
- G/T @ 19.95 GHz
  - 19 dBk

## Alignment- C100FA

- The powerful on board controller allows for highly intuitive, graphical user interface experience 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, to provide data to the controller. The pointing information is presented in a user friendly way on the display to provide the user with a simple means of satellite alignment.

## Electrical, Ku-Band

- Frequency (GHz)
  - Transmit: 13.75 to 14.5
  - Receive: 10.95 to 12.75
- Polarization
  - Linear
- Tx Gain
  - Transmit: 41.4 dBi
- Rx Gain
  - Receive: 39.2 dBi
- G/T @ 11.85 GHz
  - 19.1 dBk

## Electrical, X-Band

- Frequency (GHz)
  - Transmit: 7.9 to 8.4
  - Receive: 7.25 to 7.75
- Polarization
  - Circular
- Tx Gain
  - Transmit: 36.6 dBi
- Rx Gain
  - Receive: 35.6 dBi
- G/T @ 7.5 GHz
  - 15.7 dBk

## Power

- Input voltage range
  - 90 to 260VAC (50/60 Hz) or 11 to 36 VDC

## Mechanical/Physical

- Reflector
  - Segmented and solid options
- Segmented
  - 6 pieces
- Surface Accuracy
  - Better than 0.25mm rms error
- Antenna Weight
  - 70.5 lbs.(32 kg)
- Packaging
  - Single IATA compliant cases

**Contact us at [CustomerCareSAT@cpii.com](mailto: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.



**Satcom & Antenna  
Technologies Division**  
1700 NE Cable Drive  
Conover, NC  
USA 28613

tel +1 770-689-2040  
+1 888-874-7646 (In North America)  
+1 619-240-8480 (Outside North America)  
email [CustomerCareSAT@cpii.com](mailto:CustomerCareSAT@cpii.com)  
web [www.cpii.com](http://www.cpii.com)

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI.