

# CT 100

## CELL MODEM



### CT 100

The AMCi Cellular Terminal is a versatile programmable telemetry platform. Cost effectively monitor and control remote assets with multi-network connectivity. This platform is ideal for remotely monitoring and controlling fixed and portable assets.

*Disclaimer AMCi warranties hardware for a full three years (36 months) \* \* Warranty is subject to AMCi published Terms and conditions. Contact your AMCi representative to obtain a copy or visit [www.amci-wireless.com](http://www.amci-wireless.com)*



### KEY FEATURES

- Two-way cellular communication
- Edge computing, scheduled, event-based, and on-demand reporting
- Built-in GPS receiver and antenna
- Digital I/O channel configurable as digital input or output
- Digital Input channel
- Analog Input channel
- RS485 and RS232 Modbus-RTU serial ports
- Multi Carrier Support
- Hazardous Environments: Class 1 Div 2
- Continuous data streaming capability
- First-fault & event monitoring



### PRODUCT BENEFITS

- Wireless1440 iPhone and Android Apps
- AMCi-Wireless SatAlarm®-Server
- Provides insight into remote operations
- Superior coverage
- GPS for precise location information
- Programmable over the air - reducing the need to send personnel into the field
- Flexibility to communicate with multiple sensors and controllers
- Low power consumption for applications that require long battery life
- 24/7 Technical support, call center, and asset administration

## SatAlarm® Server Web-Based SCADA

- Web browser & App based historian
- Color graphical interface
- User configurable displays
- Customizable dashboard
- Multi data point graphs
- Data tracking
- Integrated Maps
- Equipment configuration
- Device control
- Data conditioning
- Reporting

## EXTERNAL INTERFACES

- Serial: 2 ports; RS-232 or RS-485
- I/O: 1 channel; individually configurable as digital input/output
  - o Digital input: -10 – 36VDC safe, pull-up
  - o Digital outputs: 32VDC safe, 300mA sinking (open drain)
- Digital Input: 1 channel
  - o Digital input: -10 – 36VDC safe, pull-up
- Analog Input: 1 channel
  - o Analog input: 0-5V, 1.0mV (12-bit) resolution; 4-20mA,
- 2 Gigabit RJ-45 Ethernet ports
- Additional I/O available using Modbus I/O expansion modules

## PROGRAMMING

- Reporting (configured over the air):
  - o Configurable time-of-day based schedule
  - o Configurable interval-based schedule
  - o 1 minutes up to once every 33 hours
  - o By exception; user definable test conditions
- Modbus RTU:
  - o 32 configurable commands
  - o Data reportable by schedule, interval, threshold test, any change, or pattern match

## GPS

- Acquisition Time: 1-27 seconds (warm & cold)
- Accuracy: 3.5 meters (CEP-Horizontal)

## CELLULAR COMMUNICATION

- Peak D/L Up to 150 Mbps
- Peak U/L Up to 50 Mbps
- Frequency Bands 1900(B2), AWS(B4), 850(B5), 700
- Carriers Verizon, AT&T, T-Mobile

## POWER

- Input voltage: 7 to 36VDC

## CERTIFICATIONS/COMPLIANCE

- Safety: C1D2, IEC Certification Bodies Scheme (CB Scheme), UL 60950
- Vehicle Usage: ISO7637-2, SAE J1455 (Shock, Vibration, Electrical)
- Environmental: RoHS2, REACH, WEEE
- Hazardous Environments: Class 1 Div 2 - Ambient temperatures of -30°C to +60°C
- RoHS2, REACH, WEEE

## ENVIRONMENTAL

- Operating Temperature: -30°C to +65°C
- Storage Temperature: -40°C to +85°C / -40°F to +185°F
- Humidity: 90% RH @ 60°C
- Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity
- IP20 rated ingress protection

## PHYSICAL

- 146 mm x 42 mm x 100 mm (106 mm including connectors)
- 5.74 in x 1.65 in x 3.93 in (4.17 including connectors) 250g (weight)

## WARRANTY

- 3 year standard limited warranty



INT 1 346 701 5711



[www.amci-wireless.com](http://www.amci-wireless.com)



255 Pennbriht Drive, Suite 240  
Houston, TX 77090  
2171 S Trenton Way, Suite 217,  
Denver, CO 80231



[salesmgmt@amci-wireless.com](mailto:salesmgmt@amci-wireless.com)