



XIRGO TECHNOLOGIES

XT-4850C Energy Harvesting Device



The XT-4850C is an energy harvesting device supporting long term, remote deployments without the need to replace the self-charging battery.

XT-4850C utilizes a highly efficient solar cell to continuously charge and maximize operating life of the internal Lithium Ion battery. Customers who require frequent data for location, health and monitoring of their remote assets can be assured that the XT-4850C will provide more frequent data for longer periods compared to other asset tracking devices in the market today.

Designed to withstand various environmental factors, the XT-4850C is IP67 certified. With a fully sealed, protective case the device can be deployed in marine and desert environments.

Optional Zigbee® transceiver, optional 1-Wire® Bus, and multiple inputs allow for interfacing with various sensors to further enhance the XT-4850C to be utilized in unique applications.

XT-4850C Specification Highlights

- 1xRTT CDMA
- CDMA Bands 800/1900 MHz
- Integrated GPS receiver for tracking applications
- Supports SMS , TCP, UDP, FTP, HTTP
- Over-the-air application firmware upgrade
- 8-pin circular bayonet connector with optional I/O's
- Configurable, periodic reporting to extend battery charge
- 8 Mb Flash memory (upgrades available)
- Accelerometer and motion sensor
- Standard 10.6 Ah Lithium-Ion battery
- Optional Features
 - 1-Wire® Bus
 - Zigbee®
 - AGPS Support

Specifications

Cellular Module Specification

CDMA 1xRTT Characteristics

3GPP 27.010

Dual-band Support

- 800 MHz Cellular Band
- 1900 MHz PCS Band

Protocol

- Supports TCP, FTP, HTTP and UDP

PS (Packet Switched) Data Rate

- PS data up to 153 kb/s DL/UL

GPS specification

- Receiver Type 50 channel
- Receiver Tracking Sensitivity -162 dBm
- Accuracy* +/- 2.5m CEP

*50%, -130dBm, >6 Sats.

Power Specifications

- D.C. Power (Tethered) 8 - 24V
- Average idle current (Battery) 80mA
- Sleep current (Battery) 50uA
- Max. Solar Charge Current 150mA

Interface

- Physical Interface 8-pin circular bayonet connector
- Optional I/O's 2 digital inputs, 1 ADC, 1 UART, 1 digital output, 1-Wire Bus

Mechanical

- Case Material ABS plastic, IP67 Rated
- Dimensions 7.6" x 4.9" x 1.4" (length with cable connector 9.1")
19.3 x 12.4 x 3.6 cm (length with cable connector 23.1 cm)
- Weight 17 oz.
- Operating Temperature -40°C to +70°C

Certifications

- PTCRB
- Verizon, Sprint Networks
- FCC ID GKM-XT4800
- IC
- IP67

Xirgo Technologies

www.xirgotech.com

(805) 426-5095