



XIRGO TECHNOLOGIES

XT-4860G Energy Harvesting Device



The XT-4860G is an energy harvesting device supporting long term, remote deployments without the need to replace the self-charging battery.

XT-4860G 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-4860G 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-4860G 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-4860G to be utilized in unique applications.

XT-4860G Specification Highlights

- Global 3G Network (UMTS/HSPA)
- 3G Bands 800/850/900/1700/1900/2100 MHz
- 2G Bands 850/900/1800/1900 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

| 3G UMTS/HSDPA/HSUPA Characteristics | 2G GSM/GPRS/EDGE Characteristics |
|--|--|
| 3GPP Release 6 HSPA | 3GPP Release 6 |
| Six-band Support - Band I – 2100MHz - Band IV – 1700 MHz - Band II – 1900MHz - Band V – 850 MHz - Band III – 1800MHz - Band VIII – 900 MHz | Quad-band Support - GSM – 850 MHz - E-GSM – 900 MHz - DCS – 1800 MHz - PCS – 1900 MHz |
| WCDMA/HSDPA/HSUPA Power Class 3 | GSM/GPRS Power Class - Power Class 4 for GSM / E-GSM - Power Class 1 for DCS / PCS EDGE Power Class - Power Class E2 for GSM / E-GSM - Power Class E2 for DCS / PCS |
| PS (Packet Switched) Data Rate - HSUPA category 6, up to 5.76 Mb/s UL - HSDPA category 8, up to 7.2 Mb/s DL - WCDMA PS data up to 384 kb/s DL / UL | PS (Packet Switched) Data Rate - GPRS multi-slot class 123, CS1-CS4, up to 85.6 kb/s DL / UL - EDGE multi-slot class 123, MCS1-MCS9, up to 236.8 kb/s DL / UL |
| CS (Circuit Switched) Data Rate - WCDMA CS data up to 64 kb/s DL / UL | CS (Circuit Switched) Data Rate - GSM CS data up to 9.6 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
- ATT
- FCC ID GKM-XT4800
- IC
- IP67

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