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SOLAR POWERED ASSET TRACKER

XT4970D

XT4970D is an energy harvesting dual carrier LTE platform supporting long term, remote deployments without the need to replace the battery. XT4970D utilizes a high efficiency solar panel to charge and maximize the 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 XT4970D will provide more frequent data for longer periods compared with other asset tracking devices in the market today.

The XT4970D supports highly configurable reporting frequency and event triggers and thresholds along with 16Mb flash memory that supports up to 10K 11 point geofences. The internal 10.6Ah battery is best in class exceeding industry standards for charge and discharge temperature extremes, capable of more than 4000 life cycles by controlling and optimizing battery SOC and DOD.

- No battery replacement needed
- Supports long term, remote deployments
- Designed to withstand various environmental factors
- Charging and discharging termination over temperature is managed by Device

ADVANTAGES:

- LED status indicators for GPS lock, Cellular and WLAN communication
- Over-the-Air firmware upgrade
- Supports SMS, TCP, UDP, UDP/ACK, FTP
- 3-Axis Accelerometer and Motion De-tector
- Internal Temperature Sensor
- Integrated GPS receiver and antenna for tracking applications
- Integrated LTE Band Antenna
- 10.6 Ah Backup Battery
- Optional Bluetooth® , ZigBee® and IO Configuration with embedded Antennas
- 16Mb Flash Memory

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SOLAR POWERED ASSET TRACKER SPECIFICATIONS:

Cellular Specifications

4G LTE Characteristics	3G UMTS/HSDPA/HSUPA Characteristics
Class A User Equipment	Class A User Equipment
LTE Cat. 4 3GPP Release 9 Evolved Uni. Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD)	Dual-Cell High Speed Packet Access (HSPA+) 3GPP Release 8 UMTS Terrestrial Radio Access (UTRA) Frequency Division Duplex (FDD)
LTE FDD Bands: 2, 4, 5, 13, 17	HSPA+ Bands: 2, 5 (850/1900MHz)
SMS: MT/MO	SMS: MT/MO

Power Requirement

D.C Power	8-24VDC input (from up to two independent input sources)
Internal Battery	10.6 Ah Li-Ion battery
Average Idle Current (Battery)	120mA typ.
Sleep Current (Battery)	140uA typ.
Solar Charge Current	150mA typ.

GPS Specifications

Receiver Type	72 channel
Receiver Tracking Sensitivity	-165 dBm
Accuracy	50%, 24 static-130dBm, >6 Sats.
TTFF Cold Start	27 seconds (Average)
TTFF Hot Start	1 second (Average)

Mechanical Specifications

Case Material	PC+PBT, IP67 rated
Dimensions	8.45" x 4.73" x 1.06" (21.5 x 12 x 7 cm)
Weight	24 oz.(680 grams)
Operating Temperature	Charge: -20°C to +60°C Discharge: -40°C to +70°C
Storage Temperature	-40°C to +60 °C
Battery Life Cycle	>4000

Physical Interfaces

Harness Connector	8-pin Circular Bayonet
Optional I/O	RS232
Multi-function ON/OFF Switch	1 Dig. Input, 1 Dig. Output, 2 ADC Inputs Sleep/Wake/ZGB/BLE Pairing

Certifications:

PTCRB, FCC, IC, & Verizon