

The XT4900 is a solar energy harvesting cellular and GPS tracking device supporting long term, remote deployments without the need to replace the rechargeable battery.

Features

- Embedded cellular and GPS antennas
- Integrated high-precision GPS engine
- Zigbee and Bluetooth Options
- 3-Axis Accelerometer and Motion Detector
- Internal Temperature Sensor
- Geofence
- Optional 1-Wire and IO
- 10.6 Ah Backup Battery
- 10 Year Battery Life
- IP67 Moisture and Debris Protection

Benefits

- Increase revenue by managing demurrage and dwell by asset
- Track long-term deployment assets
- Ensure proper placement
- View cargo load sizes
- Ensure proper cargo loading
- Track assets with intermittent or no external power source
- Monitor cargo status real time
- Solar power charged in one hour
- Easy to install
- Affordable

Use Cases

- Trailer and Chassis
- Rail Cars
- Intermodal
- Containers
- Heavy Machinery
- Transportation Equipment
- Mobile Signage
- Generators
- Mobile Lighting
- Agriculture
- Pipeline



READY

ASSET TRACKING



4G LTE Characteristics	3G UMTS/HSDPA/HSUPA Characteristics	2G GSM/GPRS/EDGE Characteristics
LTE Cat. 1 3GPP Release 9 Evolved Uni. Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD)	Dual-Cell High Speed Packet Access (HSPA) 3GPP Release 9 UMTS Terrestrial Radio Access (UTRA) Frequency Division Duplex (FDD)	3GPP Release 9 Enhanced Data rate GSM Evolution (EDGE) GSM EGPRS Radio Access (GERA) Time Division Multiple Access (TDMA) DL Advanced Rx Performance Phase 1
LTE FDD Bands: 2, 4, 5, 12	HSPA Bands: 1, 2, 5, 8	GSM: 850 MHz E-GSM: 900 MHz DCS: 1800 MHz PCS: 1900 MHz
Power Class 3 (23 dBm)	Power Class 3 (24 dBm)	GSM/GPRS (GMSK) Power Class -Class 4 (33 dBm) for GSM/E-GSM band -Class 1 (30 dBm) for DCS/PCS band EDGE (8-PSK) Power Class -Class E2 (27 dBm) for GSM/E-GSM band -Class E2 (26 dBm) for DCS/PCS band
SMS: MT/MO	SMS: MT/MO	SMS: MT/MO

GPS specification

- Receiver Type: 72 channel
- Receiver Tracking Sensitivity: -165 dBm
- Accuracy: +/- 2.5m CEP*
- TTFF Cold Start: 27 seconds (Typical)*
- TTFF Hot Start: 1 second (Typical)*

*50%, 24 static-130dBm, >6 Sats.

Physical Interface

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

Certifications

- PTCRB
- FCC
- IC
- CE

Power Requirement

- D.C Power: 8-24VDC input
- Internal Battery: 10 Ah Li-Ion battery
- Average Idle Current (Battery): 120mA typ.
- Sleep Current (Battery): 140uA typ.
- Solar Charge Current: 150mA typ. (under direct sunlight)

Mechanical

- Case Material: PC+PBT, IP67 rated
- Dimensions: 8.45" x 4.73" x 1.06" (21.5 x 12 x 2.6 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