



XT4900 Series



Consumer Solutions



High-Value Asset Management



Commercial Vehicle & Long-Haul Trucking



Driver Behavior



Trailer & Container Management



Mobile Resource Management

The XT4900 is an energy-harvesting LTE Cat 1 platform that supports long-term, remote deployments without the need to replace the battery.

The XT4900 utilizes a high-efficiency solar panel to charge and maximize the operating life of the internal Lithium Ion battery. Customers requiring frequent data for location, health, and monitoring of their remote assets can be assured that XT4900 will provide more frequent data for longer periods compared to other asset tracking devices. The XT4900 supports configurable reporting frequency and event triggers and thresholds along with 16MB flash memory that supports up to 10K 11-point geofences. The internal 10Ah 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 state of charge and depth of discharge. The XT4900 is designed to withstand various environmental factors and meets IP 67 rating. With a fully sealed, protective case the device can be deployed in marine and desert environments.

HIGHLIGHTS

- Dual carrier LTE/HSPA+ Cat 4
- LED indicators for GPS lock, Cellular and WLAN
- Over-the-air firmware upgrade
- Supports SMS, TCP, UDP, UDP/ACK, FTP
- 3-axis accelerometer and motion sensor
- Internal temperature sensor
- Integrated GPS receiver/antenna, LTE band antenna
- Integrated 10 Ah backup battery
- Optional Bluetooth, Zigbee, and I/O configurable with embedded antennas, 1-wire bus
- Integrated 16MB flash memory
- Certifications: FCC, PTCRB, IC, CE, AT&T, Verizon², Voda¹

Specifications



GPS



Cellular



Solar Charge



Battery Options



Bluetooth

Mechanical

Dimensions 8.45" x 4.73" x 1.06" (21.5 x 12.0 x 7.0 cm)

Weight 24 oz. (680 g)

Case Material PC+PBT

IP Rating IP 67

Physical Connections

Operating Temperature -40°F to 158°F (-40°C to 70°C)

Harness Connector 8-pin circular bayonet

Serial Interface RS232

Optional I/O 1 digital input, 1 digital output, 2 ADC inputs

Multi-Function Switch Wake/Wi-Fi/BLE pairing

Power Requirement

DC Power DC 8-24V

Power Source Internal 10Ah rechargeable (via solar) battery

GPS Module

Receiver Type (GPS)

Tracking Sensitivity -157 dBm

Accuracy $\pm 2.5m$ CEP (50%, -130 dBm, >6 satellites)

Cellular Module

MNO AT&T, Verizon², Voda¹

4G LTE FDD Bands 1¹, 2, 3¹, 4, 5, 7¹, 8¹, 12^{1,3}, 13^{1,2}, 17², 18¹, 19¹, 20¹, 25¹, 26¹, 28¹

4G LTE TDD Bands¹ 38, 39, 40, 41

3G UMTS Bands 1^{1,3}, 2, 4¹, 5, 6¹, 8^{1,3}, 19¹

2G EGPRS Bands^{1,3} PCS (Band 2), DCS (Band 3), GSM (Band 5), E-GSM (Band 8)

Comm. Interfaces 4G LTE Cat M1, 3G UMTS, 3GPP release 13, 2G EGPRS

Power Class 4G/3G—Class 3 (23 dBm); GSM—Class 4; DCS/PCS—Class 1

SMS Support MT/MO

¹ only available on XT4964; ² only on XT4970; ³ only on XT4975;