



XT4900

Solar-Harvesting
Asset Tracker

Energizing Asset Tracking

Be assured of frequent data for location, health and monitoring of your remote assets for longer periods with the XT4900. This asset tracker has a high-efficiency solar panel to maximize the operating life of the internal Lithium-Ion battery. The battery is best-in-class, optimizes charge and discharge cycles and exceeds industry standards for battery management. The device can be deployed for various demanding applications with a fully sealed protective case. Extend the lifespan of your asset monitoring system, even in the harshest conditions.

Highlights



Sustainable power source for long deployments



Efficient power management



Optional Bluetooth connectivity can power complete trailer solutions



Built to withstand extreme environments (e.g., marine and desert)

Features

- LED indicators for GPS lock and Cellular
- Over-the-air firmware upgrade
- Supports SMS, TCP, UDP, UDP/ACK, FTP, HTTP, HTTPS and AWS MQTT
- Integrated motion and internal temperature sensors
- Integrated GPS receiver/antenna, LTE band antenna
- Supports up to 10K 11-point geofences
- Optional Bluetooth, Zigbee, different digital I/O and ADC options, embedded antennas, RS-232, external power source for charging, and 1-wire bus

XT4900 Technical Specifications

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

Electrical

DC Power	DC 8-32V
Power Source	Internal 10Ah Rechargeable (via solar) Battery
Storage	Integrated 16MB Flash Memory
Serial Interface	RS232
Optional I/O	1 Digital Input, 1 Digital Output, 2 ADC Inputs and 1-Wire Bus
Harness Connector	8-Pin Circular Bayonet
Multi-Function Switch	Wake/BLE

Environmental

Operational Temperature*	-40°F to 158°F (-40°C to 70°C)
IP Rating	IP 67

Communications

Cellular Module	MNO: AT&T, Verizon and T-Mobile
	4G LTE FDD Bands: 1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 25, 26, 28
	4G LTE TDD Bands: 38, 39, 40, 41
	3G Bands: 1, 2, 4, 5, 6, 8, 19
	2G Bands: 850, 900, 1800, 1900 MHz
	Comm. Interfaces: 4G LTE Cat 1, 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

Positioning

GPS Module	Receiver Type: GPS
	Tracking Sensitivity: -157 dBm
	Accuracy: ± 2.5m CEP (50%, -130 dBm, >6 satellites)
Accelerometer	3-Axis

Compliance

Certifications	PTCRB, FCC, IC, CE (RED) / RoHS, UKCA, PSE, AT&T, T-Mobile, Verizon
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*Operating Temp: Range that the device will send data
Charging temp: Charges between -4°F to 140°F (-20°C to 60°C)

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