



XT4900 SOLAR-HARVESTING ASSET TRACKER



Maximizes battery life

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

Supports configurable reporting frequency and event triggers and thresholds along with 16MB flash memory that supports up to 10K 11-point geofences.

ENERGIZING ASSET TRACKING

Be assured of frequent data for location, health, and monitoring of your remote assets for longer periods compared to other asset tracking devices. The **XT4900** utilizes a high-efficiency solar panel to charge and maximize the operating life of the internal Lithium-Ion battery. The battery is the best-in-class. It exceeds industry standards for charge and discharge temperature extremes and capable of more than 3000 life cycles by controlling and optimizing battery state of charge and depth of discharge. Designed to withstand various environmental factors with a fully sealed, protective case, the device can be deployed in marine and desert environments.

FEATURE LIST

- Dual carrier optional LTE/HSPA+ Cat 1 with 3G and 2G fallback
- LED indicators for GPS lock and Cellular
- Over-the-air firmware upgrade
- Supports SMS, TCP, UDP, UDP/ACK, FTP, HTTP, HTTPS, and AWS MQTT.
- 3-axis accelerometer and motion sensor
- Internal temperature sensor
- Integrated GPS receiver/antenna, LTE band antenna
- Integrated 10Ah battery
- Optional Bluetooth, Zigbee, and I/O configurable with embedded antennas, 1-wire bus
- Integrated 16MB flash memory
- Certifications: FCC, PTCRB, IC, CE

APPLICATIONS



Consumer solutions



High value asset management



Commercial vehicle & long-haul trucking



Driver behavior

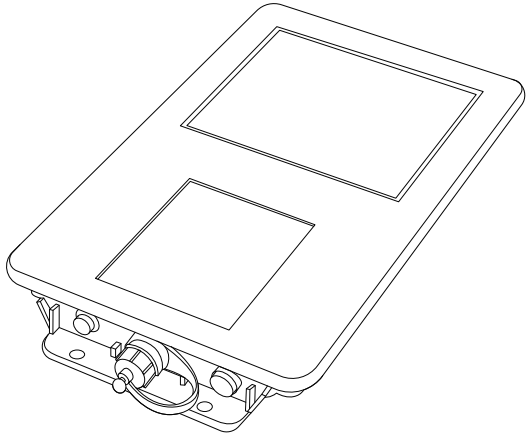


Trailer and container management



Mobile resource management

XT4900 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
IP Rating	IP 67

ELECTRICAL

DC Power	DC 8-32V
Power Source	Internal 10Ah rechargeable (via solar) battery

ENVIRONMENTAL

Operating Temperature*	-40°F to 158°F (-40°C to 70°C)
Harness Connector	8-pin circular bayonet

INTERFACES

Serial Interface	RS232
Optional I/O	1 digital input, 1 digital output, 2 ADC inputs and 1-wire bus
Multi-Function Switch	Wake/BLE

COMMUNICATIONS

GPS Module	
- Receiver Type	(GPS)
- Tracking Sensitivity	-157 dBm
- Accuracy	± 2.5m CEP (50%, -130 dBm, >6 satellites)
Cellular Module	
- MNO	AT&T, Verizon, Voda
- 4G LTE FDD Bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28
- 4G LTE TDD Bands ¹	38, 39, 40, 41
- 3G UMTS Bands	1, 2, 4, 5, 6, 8, 19
- 2G EGPRS Bands	PCS (Band 2), DCS (Band 3), GSM (Band 5), E-GSM (Band 8)
- 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

* 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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Transforming sensor solutions.



Sensata
Technologies



Sensata Technologies delivers a wide range of connected solutions that drive operational efficiencies and increase revenue. Our comprehensive, in-house engineering capabilities allow us to design, engineer, and manufacture innovative, full-featured products, such as tire pressure monitoring systems, telematics devices, asset monitoring and tracking devices, and cargo monitoring solutions.