



BT4900 ASSET TRACKER PRODUCT SHEET

BT4900 is an energy harvesting dual carrier LTE device supporting long term, remote deployments without the need to replace the battery.

BT4900 utilizes a high efficiency solar panel to charge and maximize the op-erating 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 BT4900 will provide more frequent data for longer periods com-pared with other asset tracking devices in the market today.

The BT4900 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. Safe charging and discharging termination over temperature is also monitored and managed by the Device.

Designed to withstand various environmental factors, the BT4900 is tested to meet IP67 rating. With a fully sealed, protective case the device can be deployed in marine and desert environments. The BT4900 supports optional IEEE 802.15.4 Zigbee®, dual mode Bluetooth® and configurable IO inter-faces to accommodate various sensors.

BENEFITS

- Device Reports Twice Daily No Storage and Data Dump
- Motion/No Motion Notifications & Alerts
- Increase revenue by managing dwell and demurrage by asset
- Advanced Geofencing-System
- Affordable and Easy to Install

KEY FEATURES

- Solar Powered with a 10 Year Battery Life
- Dual Carrier (AT&T and Verizon) LTE/HSPA+ Cat. 4
- 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 Detector
- 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 Config with embedded Antennas

USE CASES

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



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XT4900 ASSET TRACKER SPECIFICATIONS

CELLULAR SPECS

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

2 X SIM Holder (Dynamic interchangeable cellular provider service depending on coverage or rate)

POWER REQUIREMENTS

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.

MECHANICAL SPECS

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
Battery Life Cycle	>4000

GPS SPECS

Receiver Type:	72 channel
Receiver Tracking Sensitivity*:	165 dBm
Accuracy*: *50%, 24 static-130dBm, >6 Sats.	+/- 2.5m CEP
TTFF Cold Start*:	27 seconds (Typical)
TTFF Hot Start*:	1 second (Typical)

PHYSICAL INTERFACE

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

CERTIFICATIONS

- PTCRB
- FCC
- ISED
- AT&T
- Verizon

