



# Vehicle Powered, Rechargeable Trailer and Asset Tracker



## KATANA

Ideal for trailers, or other assets that are exposed to the elements, the vehicle-powered Katana GPS tracker is designed to withstand changing weather conditions. The Katana allows customers to track an asset's location and receive alerts when an asset has been moved or tampered with.

### IT'S RELIABLE

The Katana is a high-performance, vehicle-powered cellular tracking system – it has an integrated GPS receiver and a 3G, CDMA, GPRS or LTE Cat. 1 modem for wireless data communication. Additionally, its antennas for both cellular radio and GPS receivers are built right in.

### IT'S SIMPLE

With rechargeable batteries and an integrated accelerometer, the Katana is easy to install. Katana can operate from the following power sources: Vehicle (main), running lights, or solar. Katana can be programmed to wake-up on motion, on tamper, a preset schedule to send a status or update alert. Reports can be triggered periodically or in response to events - such as removing the vehicle power, movement, geo-fence violations, and many others.

### IT'S FUNCTIONAL

The Katana comes with pre-configured software. Its internal motion sensor and configurable event alarms enable total management of your high-value assets, and various frequency reporting can be set when the device is moving or when stationary.

## HIGHLIGHTS

- 3G, CDMA, GPRS or LTE Cat. 1
- Integrated cellular and GPS antenna
- LED status indicators for GPS and network registration
- Integrated accelerometer for wake-up on event
- I/O options to support tamper, cargo sensing, and door open
- IP67 sealed, weather resistant enclosure
- Communication via SMS, UDP, Ack UDP
- Up to 6 months of operation on battery back-up
- Configurable reporting schedules
- Over-the-air configuration and firmware upgrade
- Extended AT Command set for flexible and easy configuration
- Up to 16 Polygon Geo-fences



## Specification

### CELLULAR

- 3G: UMST/HSDPA/HSUPA/HSPA+ and GSM/GPRS/EDGE
- CDMA: 850/1900 MHz Dual band 1xRTT
- GPRS: 850/900/1800/1900 MHz
- LTE Cat. 1: LTE Cat.1 Bands 2,4 and 12 (TMO); 4,13 (VZW)
- Integrated high sensitivity antenna
- Auto register to packet network

### GPS

- Channels: 56
- Tracking Sensitivity: -162 dBm
- Acquisition Sensitivity: -148 dBm
- Location Accuracy: 2.5 CEP

### BATTERY INFORMATION

- Battery Type: 4 \* 18650 Li-ION 2p2s
- Battery Life: Up to 6 months @ 2 reports per day

### ENVIRONMENTAL

- Operation Temperature: -30°C to +75°C
- Storage Temperature: -40°C to +85°C
- Operation Humidity: 20% to 90% (non-condensing)
- Storage Humidity: 10% to 95% RH (non-condensing)
- Designed to meet SAE J1455, SAE 113, and J121

### ELECTRICAL

- Operating Voltage: 10V-32VDC
- On-battery: Power management modes: Full power, Network off, Listening mode, Deep sleep

#### HSPA

- Deep Sleep: 500uA @ 8.0V (typical)
- Listening mode/GPS locked: 48mA 8.0V (typical)
- Reporting: 160mA @ 8.0V (typical)

#### CDMA

- Deep Sleep: 150uA @ 8.0V (typical)
- Listening mode/GPS locked: 45mA 8.0V (typical)
- Reporting: 110mA @ 8.0V (typical)

### PHYSICAL

- Dimensions: 164mm x 80mm x 39mm
- Weight: 420g
- Internal Cellular and GPS Antenna

### INTERFACE CONNECTOR

- I/O Connector: 12-pin water-proof plug
- PWR (main), GND, Power In1, Power In2 (Solar), Power Out
- UART (RX/TX)
- Dedicated I/Os, for Tamper, 1-Wire, Relay, GPIO

### APPROVALS

- FCC 47 CFR Part 15, Part 22, and Part 24
- Verizon Certification
- PTCRB

## About Connected-Holdings

Connected-Holdings is an end-to-end, vertically integrated, Internet of Things 'IoT' intelligent services provider. Our team has over 20 years of experience in developing complex wireless and communication systems, offering a complete portfolio of high-performance tracking systems, cloud software services, and network connectivity. Our devices are designed from the ground up, making them unique in the industry and extremely cost effective.

For more information, contact: [support@connected-holdings.com](mailto:support@connected-holdings.com)

