



AT16N

The AT16N GNSS tracker is a real-time vehicle tracking system designed for vehicle recovery, fleet management, and more.

IT'S RELIABLE

The ultra-thin yet durable AT16N is a high-performance cellular tracking device designed for vehicle financing, vehicle tracking, lot management, theft recovery, or other fleet applications. With an integrated GNSS receiver, the AT16N includes an LTE Cat-1bis modem for wireless data communication. The built-in high-performance antennas for both cellular radio and GNSS receivers make installation easy.

IT'S SIMPLE

No programming skills required; the AT16N comes with easy-to-configure application software and an extended AT command set. Reports can be triggered periodically or in response to events such as motion, speeding, harsh acceleration and braking, geo-fence violations, and battery status. Notifications can be sent for vehicle towing and more.

IT'S FUNCTIONAL

The AT16N interface supports main power. A built-in 3-axis accelerometer enables motion detection and monitoring of driver behavior. An internal Lithium-Ion back-up battery. An optional buzzer alert system for driver warnings is available inside the unit.

HIGHLIGHTS

- LTE Cat-1bis
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS and network registration
- Integrated accelerometer for monitoring vehicle status & driver behavior
- I/O options for starter inhibit, ignition, and buzzer
- BLE 5.0 support, low power consumption
- Rechargeable battery
- SMS, UDP, TCP, FTP & MQTT
- Up to 16 Geo-fences (polygon and circles)
- Over the air configuration and firmware update
- Extended AT Command set for flexible and easy configuration
- Small size and easy installation
- **OPTIONAL FEATURES**
Internal Buzzer



Specifications:

CELLULAR

- LTE Cat-M1bis
- LTE-FDD Bands:
B2/B4/B12/B13/B14/B17/B25/B66
- Integrated high-performance antenna

GNSS

- GPS
- Tracking Sensitivity: -161 dBm
- Acquisition Sensitivity: -147 dBm
- Location Accuracy: <2.5 CEP

SENSORS

- Accelerometer: 3-axis

BATTERY INFORMATION

- Type: Rechargeable Battery
- Capacity: 80mAh @ 3.7V
- Battery Life: Up to 4hours @ hibernation mode,
1 report per hour

** Depends on LTE signal strength and number of hourly reports per day*

ELECTRICAL

- Operating Voltage: 6~24V
- Over voltage protected
- Over current protected with resettable fuse
- Operating Current
- ✓ GPS Acquisition: ~ 48mA @ 12V
- ✓ GPS Tracking/Reporting: ~ 74mA @ 12V
- ✓ Sleep mode: < 1mA @12V

PHYSICAL

- Dimensions: 93.0 x 51.0 x 15.3 mm
- Weight: 80 g
- SIM Card Type: 3FF

ENVIRONMENTAL

- Operation Temperature: -20°C to +60°C
- Storage Temperature: -40°C to +85°C
- Charging battery: 10°C -45°C

BLE

- BLE 5.0

INTERFACE IOs

- 8-Pin Cable Harness:
 - ✓ PWR, GND (*2)
 - ✓ Ignition
 - ✓ Relay
- Buzzer

APPROVALS

- FCC



Safety information:

FCC Regulations:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B

digital device, pursuant to part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/ TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co - located or operating in conjunction with any other antenna or transmitter.