



AH80

Vehicle/Battery Powered, Rechargeable Trailer and Asset Tracker

Maximize efficiency, Maximize risks, Manage assets.

Ideal for trailers or other assets that are exposed to harsh environment, the vehicle-powered AH80 GPS tracker is designed to withstand changing weather conditions. The AH80 provides asset location tracking and receiving alerts when the asset has been moved or tampered with, plus many more features.

IT'S RELIABLE

The AH80 is a high-performance, IP67 rated device. It includes an integrated LTE Cat.M1 & NB1 & GSM modem, a GNSS receiver, and a 3-axis accelerometer, for cellular data communication, location tracking, and motion detection respectively.

IT'S SIMPLE

With rechargeable batteries the AH80 is easy to install on a trailer. AH80 supports the following power sources: Vehicle main, vehicle running lights, solar or internal battery. AH80 can be programmed to wake-up on motion, upon tamper, or upon a preset schedule. Reports can be triggered periodically or in response to events such as removing & restoring the vehicle power, movement, geo-fence violations, and many others.

IT'S FUNCTIONAL

The AH80 comes with pre-configured software. Its internal motion sensor and configurable event alarms enable total management of your high-value assets. The device supports variable frequency reporting when moving or stationary. Interfaces such as 2 UART's, 1-wire, and GPIOs are available for connecting to sensors.



HIGHLIGHTS

- LTE Cat-M1, NB-IoT & GPRS
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS & network registration
- Integrated accelerometer
- BLE5.0 support, low power consumption
- IP67 + IP66K Rating sealed, weather resistant enclosure
- Up to 6 months of operation on battery back-up
- 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 & easy configuration
- Easy installation

AH80 SPECIFICATIONS

A•TRACS™

CELLULAR	LTE Cat-M, NB-IoT LTE-FDD Bands : 1/2/3/4/5/8/12/13/17 /18/19/20/25/26/28 LTE-TDD B39 (For Cat.M1 only) GSM: 850/900/1800/1900 Integrated high performance antenna	PHYSICAL	Dimensions : 147 x 79 x 38 mm Weight : ~550g Internal Cellular and GNSS Antenna
GNSS	GPS, GLONASS, BeiDou & Galileo Tracking Sensitivity : -161 dBm Acquisition Sensitivity : -146 dBm Location Accuracy : < 2.5CEP	INTERFACE CONNECTORS	Power Connector : 4-pin cable harness Power supply signals : Main, Aux/Light, Solar & GND I/O Connector : 12-pin water-proof (IP67) UART1 TTL (3.3V) (RX/TX) (*2) UART2 RS232 (RX/TX) (*2) 3.4V @1A (Switched) for Peripheral Power (*1) Dedicated I/O : Tamper(*1), 1-Wire (*1), Relay (*1) Two GPIOs (*2) 12V Output (*1) GND (*1)
SENSOR	Accelerometer : 3x	APPROVALS OR IN PROCESS	FCC 47 CFR Part 22, and Part 24 PTCRB & Carrier Approved
BATTERY INFORMATION	Type : 18650 Li-ION Capacity : 5200mAh @ 7.4V Operating Time : Up to 6 months @ 2 reports per day		
ENVIRONMENTAL	Operation Temperature : -30°C to +60°C Storage Temperature : -40°C to +85°C SAE J1455, SAE 113, and J121		
Electrical	Operating Voltage: 8V-36VDC On-battery Sleep/Hibernate: <100uA Tracking 45mA Typical On-12V Sleep/Hibernate <12mA Tracking: 50mA Typical Reporting: 160mA Typical		

*Data plan may be required. Coverage subject to network availability.

**Battery life may vary depending upon coverage and/or number of connected devices.

For support information: support@atel-usa.com

Visit our website: www.atel-usa.com

Specifications are subject to change. Please see your ATEL contact for more details.
© 2023 Asiatelco Inc. All rights reserved. The ATEL name and logo are trademarks of Asiatelco Inc.

ATEL®
PASSION FOR INNOVATION