


 IC FC   RoHS

AX11 is a 4G LTE Cat.1 / Cat. M1 GPS tracking unit with OBDII interface and plug-n-play installation. Featuring OBDII, J1939 and J1708 data acquisition, optional bluetooth connectivity, driving behavior event management, and user-defined reports, AX11 is an ideal solution for usage based insurance, car rental, fleet management of both passenger vehicles and heavy-duty trucks.



### 4G LTE Connectivity

With 4G LTE Cat.1 / Cat.M1 communication.



### OBDII & J1939 & J1708

OBDII, J1939 and J1708 data acquisition.



### Plug & Play Installation

Easy plug-and-play installation and compatible with various vehicles that offers OBDII ports.



### Build-in Buzzer

Build-in buzzer for notification; basing on configurable event.



### Bluetooth

Optional Bluetooth Low Energy (BLE) for IoT applications.

### Optional Accessories

#### I/O Expansion

OBDII Extension Cable  
 OBDII Pass through Cable  
 RS3A:Mini USB-to-RS232 Adapter  
 RS4A:Mini USB-to-RS232 Adapter  
     + 1 Digital Input Adapter + 1-Wire®  
 RS5A:Mini USB-to-1 Digital Input Adapter  
 OBDII to J1708 and J1939 Adapter Cable  
 OBDII to J1708 Adapter Cable  
 OBDII to J1708 and J1939 Y Cable  
 OBDII Volvo / Mack Cable

#### Safety

SOS Push Button Cable (Unlocked)  
 Business / Private Trip Switch Button Cable (Locked)

#### Identification

1-Wire® iButton Reader & Tag  
 1-Wire® Magnetic iButton Reader & Tag  
 RFID Reader & Tag

#### Utility

1-Wire® Temp. Sensor Probe

#### ATrack Proprietary Tool

ACT (ATrack Configuration Tool)  
 ADM (ATrack Device Management Portal)

# Hardware Specification

# AX11

## CELLULAR

AX11-MX (AT&T, TELUS)	LTE FDD Cat.M1 B2, B4, B12
AX11-MX (Verizon)	LTE FDD Cat.M1 B4, B13
AX11-LS (Sprint)	LTE FDD Cat.1 B2, B4, B5, B12, B25, B26
AX11-LK (NTT Docomo, KDDI, Telstra)	LTE FDD Cat.1 B1, B3, B5, B8, B9, B18, B19, B26, B28 WCDMA 800, 850, 900, 2100
Data Support	UDP / IP, TCP / IP, SMS
Antenna	Embedded cellular antenna

## GPS

Receiver Type	99 channel engine
Location Technology	GPS & GLONASS
SBAS Support	WAAS, EGNOS, GAGAN, MSAS
Tracking Sensitivity	-167dBm
Acquisition Sensitivity	-149dBm
Location Accuracy	2.5m CEP 50%
Antenna	Internal

## INPUTS/OUTPUTS

Vehicle BUS Protocols	ISO 15765-4 (CAN) ISO 14230-4 (KWP2000) ISO 9141-2 SAE J1850 VPW SAE J1850 PWM SAE J1939 SAE J1587/J1708 OEM CAN Data
Serial Interface (Optional)	RS232
1-Wire Interface (Optional)	1 (Driver ID)
LED Indicators	3 LEDs (Power, Cellular, GPS)
Digital Inputs (Optional)	1
Buzzer	>70dB @ 10cm
Bluetooth (Optional)	Bluetooth Low Energy v4.2 Class 2

## SENSORS

Accelerometer	3-axis $\pm 16g$
Gyroscope	3-axis $\pm 2000dps$

## ELECTRICAL

Operating Voltage	Vehicle 12V / 24V system
Current Consumption	Operating: 60-300mA @ 12V Deep Sleep: 1.7mA @ 12V
Backup Battery (Optional)	3.7V 90mAh

## MEMORY

Internal Flash Memory	64 Megabit Up to 120,000 logs Up to 21,000 queues
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## ENVIRONMENTAL

Operating Temperature	-40 to +70 °C (without battery) -20 to +60 °C (with battery)
Humidity	95%RH @ 50° C non-condensing
Vibration/Shock	MIL-STD-810G, SAE J1455

## PHYSICAL

Dimension	84mm × 52mm × 25mm (3.31" x 2.05" X 0.98")
Weight	80g (0.17 lb)
Enclosure	Flame Retardant ABS+PC

## CONNECTORS

Vehicle BUS Interface	SAE J1962 Type B Connector Optional adapter for DEUTSCH 6Pin/9Pin Connector
SIM Card Socket	Internal NanoSIM (4FF)
PC/Accessory Interface	Mini USB connector

## DEVICE MANAGEMENT

Configuration	ADM, SMS, USB Cable
Firmware Update	ADM, FOTA, USB Cable

## CERTIFICATIONS

Standards	FCC, IC, PTCRB, TELEC, JATE, RoHS
Carriers	AT&T, Verizon, Sprint, TELUS
Carriers (Module Certified)	NTT docomo, KDDI, Telstra

## About ATrack

ATrack Technology Inc. specializes in GPS telematics hardware designing and manufacturing, and has a product portfolio including solutions for cars, trucks, containers & non-powered assets, trailers, and motorcycles. In addition to a line of stable and robust hardware, we are also experienced in firmware and hardware modifications, and customized product developments. ATrack always strives to provide the most reliable hardware and excellent service for our customers and has obtained ISO 9001 Quality Management Systems to enhance product quality and ultimately improve levels of customer satisfaction. For System Integrators & Telematics Service Providers who value vendor responsiveness and flexibility, and are looking for a hardware partner who does not have a competing business model, ATrack is globally proven to be the best choice.

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