MîFleet



The AK11 is a versatile device with robust capabilities and interfaces. Supports major vehicle bus protocols, including [1708, [1939, OBD, and FMS. Reads and reports ECU data for ELD. Supports multiple GPIO attachments for Power-Take-Off, RFID, PND, Camera, Temperature, iButton, and additional relays. This solution is ideal for trucking transport, public safety, construction and other vehicle transportation applications.

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ELD Ready

Device is used to electronically record a driver's Record of Duty Status, which replaces the paper logbook some drivers currently use to record their compliance with Hours of Service requirements.



Multiple Install Options

This device has the ability to install into a verity of vehicles using one of its many install options: J1939, J1708, ODD, and FMS.



Expandable Sensors

The AK11 has general purpose inputs for variable sensor needs including temperature, RFID and more.

- » 3-AXIS ACCELEROMETER
- » BUILT-IN BUZZER
- **VIBRATION / SHOCK TESTED**
- » OPTIONAL 920mAh **BATTERY**
- » OPTIONAL WIFI
- » OPTIONAL BLUETOOTH
- » OPTIONAL ANTENNA **EXTENSION**

Benefits:

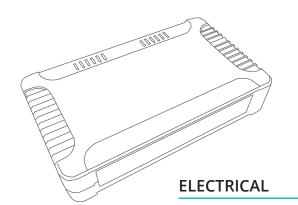
- **Location Based Services**
- **ELD Compatible**
- **Engine Vehicle Data**
- Interval: 15 seconds
- Up to 120,000 logs
- Configurable inputs / outputs
- Supports Temperature
- Supports iButton
- Supports External Antenna
- Supports PTO
- Optional Backup Battery











CELLULAR

AX11-MX (AT&T) LTE FDD Cat.1

B2 (1900), B4 (AWS1700), B12 (700)

AX11-LS (Sprint) LTE FDD Cat.1

B2 / B25 (1900), B4 (AWS1700)

B5 / B26 (850), B12 (700)

AK11-LX (Verizon) LTE FDD Cat.1

B2 (1900), B4 (AWS1700), B13 (700)

AK11-LU (Telstra) LTE FDD Cat.1

B1 (2100), B3 (1800), B5 (850), B8 (900)

B28 (700)

WCDMA B1 (2100), B5 (850), B8 (900) UDP / IP, TCP / IP, SMS over IMS

Data Support UDP / IP, TCP / IP, SMS over Antenna Embedded cellular antenna

GPS

Receiver Type 72 Channel Engine Location Technology GPS & GLONASS

SBAS Support WAAS, EGNOS, GAGAN, MSAS

Tracking Sensitivity -167dBm

Acquisition Sensitivity -148dBm

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 / PWM SAE J1939/ J1587/J1708

Digital Ignition Input 1 Positive Input

Digital Input

Up to 8 (Configurable)

Digital Output

Up to 5 (Configurable)

Max. sink current 300mA

Analog Inputs Up to 3 (Configurable)

DC 0~5V, DC 0~40V (12bits resolution)

1 Wire Interface 1 (Driver ID, Temperature sensors)

LED Indicators 5 LEDs (Power, GPS, Cellular, WiFi, BT)

Buzzer >80dB @ 10cm Bluetooth (Optional) Bluetooth BLE 4.1

WiFi (Optional) 2.4GHz IEEE 802.11b/g/n AP Mode

Data rate DL: 3Mbps UL: 1.5Mbps

Operating Temperature

Current Consumption

Vehicle 12V / 24V System Operating: 45-180mA @ 12V Deep Sleep: 1.4mA @ 12V

Backup Battery (Optional) 3.7V 920mAh

MEMORY

Internal Flash Memory 64 Megabit

Up to 120,000 logs Up to 21,000 queues

SENSORS

Accelerometer 3-axis $\pm 16g$

ENVIRONMENTAL

-20° to +60° C (operating on internal battery)

Humidity 95% RH @ 50° C non-condensing

Shock and Vibration MIL-STD-810G

PHYSICAL

Dimension 152mm × 98mm × 30mm

(5.98" x 3.86" x 1.18")

Weight 229g (0.50 lb)

Enclosure Flame Retardant ABS+PC

Mounting Screw Mounting Bracket, Adhesive

CONNECTORS

I/O Connection Molex 14 Pin Connector

SIM Card Socket Mini SIM(2FF)

PC/Accessory Interface 4 Pin RS232 with 5V (±5%)

Power

External GPS SMA

Configuration Interface Mini USB Port

Vehicle BUS Interface Optional Wire Harness for OBDII

DEUTSCH - 6 PIN / 9 PIN Connector

DEVICE MANAGEMENT

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

CERTIFICATIONS

Standards FCC, IC, PTCRB, NCC, RoHS

Carriers AT&T, Sprint, Verizon, U.S. Cellular