



AK500

- Bluetooth for external sensors or apps
- OBD-II & CAN Bus for real-time vehicle data
- Convenient Wi-Fi hotspot for on-the-go connectivity
- Multiple I/O interfaces for versatility

The AK500 multifunctional telematics gateway supports OBD-II, Bluetooth, WiFi hotspots, and a high-speed wireless network to keep fleet managers connected to their vehicles. And with multiple I/O interfaces, the AK500 offers unparalleled flexibility and control for any fleet needing customization.

ELD Compliant

AK500 captures and transmits critical vehicle data to your mobile device, making it easier than ever to maintain compliant hours-of-service logs.

Monitor Engine Data

AK500 provides real-time diagnostics and engine data via a plug-and-play OBD-II connection. Effortlessly access information such as engine hours, maintenance codes, fuel data, and more.

Multiple I/O

Customize your monitoring and control system with the AK500's versatile I/O interfaces. With support for a range of sensors and devices, you can tailor your AK500 to fit your specific needs with unparalleled flexibility.

Wi-Fi Hotspot

Stay connected on the go with the AK500's convenient Wi-Fi hotspot feature. Your team can use reliable and safe internet access wherever the road takes them with support for multiple devices.

POWER

Operating Voltage	Vehicle 12V / 24V system
Current	Operating: 45-180mA @ 12V, Deep Sleep: 1.4mA
Consumption	@ 12V
Backup Battery	3.7V 920mAh

PORT

I/O Connection	Molex 14 Pin Connector
SIM Card Socket	Mini SIM (2FF)
PC/Accessory	JST 4-Pin Connector RS232 with DC 5V power output
Interface	
External GPS	SMA Female Connector
Antenna	
Configuration	Mini USB Port
Interface	
Vehicle BUS	Molex 12 Pin Connector Optional Wire Harness for OBD-II, DEUTSCH 6Pin / 9Pin Connector, RP1226
Interface	
Vehicle Bus	ISO 15765-4 (CAN), ISO 14230-4 (KWP2000) ISO 9141-2, SAE J1850 VPW / PWM SAE J1939 / J1708, OEM CAN Data
Protocols	
Digital Ignition Input	1 Positive Input
Digital Inputs	Up to 8 (Configurable)
Digital Outputs	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 (iButton®, Temperature sensors)
LED Indicators	5 LEDs (Power, GPS, Cellular, Wi-Fi, BT)
Buzzer	93 ± 3dB @ 10cm
Bluetooth (optional)	Bluetooth Low Energy 5.0, Class 3
Wi-Fi (optional)	2.4GHz + 5GHz, IEEE 802.11 b/g/n/ac, AP Mode

ENVIRONMENT

Operating	-40°C to 60°C (connected to primary power)
Temperature	-20°C to 60°C (operating on internal battery)
Humidity	95%RH @ 50° C non-condensing
Vibration/Shock	MIL-STD-810G

STORAGE

Internal Flash	64 Megabits
Memory	Up to 120,000 logs Up to 21,000 queues

POSITIONING

Receiver Type	33 Tracking channels 99 Acquisition channels
Location	GPS & GLONASS
Technology	
SBAS Support	WAAS, EGNOS, GAGAN, MSAS
Tracking Sensitivity	-167dBm
Acquisition	-149dBm
Sensitivity	
Location Accuracy	2.5m CEP 50%
Antenna	Internal (Optional external antenna)

DIMENSIONS

Dimension	152mm × 98mm × 30mm (5.98" × 3.86" × 1.18")
Weight	229g (0.50 lb)
Enclosure	Flame Retardant ABS+PC
Mounting Method	Screw Mounting Bracket, Adhesive

CERTIFICATION

Standards	FCC, IC, PTCRB, RoHS
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SENSOR

Accelerometer	3-Axis, ±16g
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