



FC CE

AK7S is optimized fleet management tracker with 3G communication which is able to monitor vehicle location and be remotely controlled via UMTS / HSPA network. With its intelligent event control engine, users can define various combinations of vehicle conditions and generate diverse actions to meet their unique requirements.

3G

3G Connectivity

With UMTS / HSPA communication.



Multiple Interfaces

Featuring I/O connection, 1-Wire® interface and RS-232 interface.



Location Technology

Supporting GPS & GLONASS.



3-axis Accelerometer

Built-in 3-axis accelerometer for motion and impact detection.



Real-time Tracking & Logging

Configurable real-time tracking and logging.

Optional Accessories

I/O Expansion

RS1: 1-3 RS232 Expander Cable
 RS2: RS232-to-RS485 Adapter
 AC1P: OBDII_J1939 Diagnostic Adapter (DB9-Pin)
 AC1R: OBDII_J1939 Diagnostic Adapter (JST 4-Pin)

Safety

12V / 24V Relay
 CMOS Camera CAM7570
 CMOS Camera CAM5650
 SOS Push Button Cable (Unlocked)
 Business / Private Trip Switch Button Cable

Identification

1-Wire® iButton Reader & Tag
 1-Wire® Magnetic iButton Reader & Tag
 RFID Reader & Tag
 Active RFID Reader & Tag
 1-Wire® Trailer ID

Utility

Cigar Power Cable
 OBDII Power Cable
 1-Wire® Temp. Sensor Probe
 Waterproof Case

3rd Party Peripherals

Garmin: PND (FMI 2.0)
 Squarell: FLEX and SOLID

ATrack Proprietary Tool

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

Hardware Specification

AK7S

CELLULAR

AK7S-UG (Global)	UMTS, HSPA 800, 850, 900, 1900, 2100MHz GSM 850, 900, 1800, 1900MHz
Data Support	UDP / IP, TCP / IP, SMS
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	External

INPUTS/OUTPUTS

Digital Ignition Input	1 Positive Input
Digital Inputs	Up to 3 (Configurable)
Digital Outputs	Up to 2 (Configurable) Max. sink current 300mA
Analog Inputs	Up to 1 (Configurable) DC 0~40V (12bits resolution)
1-Wire® Interface	1 (Driver ID, Temperature sensors)
LED Indicators	3 LEDs (Power, GPS, Cellular)

SENSORS

Accelerometer	3-axis ±16g
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ELECTRICAL

Operating Voltage	Vehicle 12V / 24V system
Current Consumption	Operating: 70mA@12V Deep sleep: 4mA@12V
Backup Battery (Optional)	3.7V 650mAh

MEMORY

Internal Flash Memory	16 Megabit Up to 160,000 logs Up to 9,000 queues
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ENVIRONMENTAL

Operating Temp	-40 to +85 °C (without battery) -20 to +60 °C (with battery)
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PHYSICAL

Dimension	95 mm x 48 mm x 26 mm (3.74" x 1.89" x 1.02")
Weight	63g (0.14 lb)
Enclosure	Flame Retardant ABS+PC
Mounting Method	Screw Mount, Adhesive

CONNECTORS

I/O Connection	Molex 6 Pin Connector
SIM Card Socket	Mini SIM (2FF)
Accessory Interface	4 Pin RS232 with 5V (±5%) power
External GPS	SMA
Configuration Interface	RS232 Port

DEVICE MANAGEMENT

Configuration	ADM, SMS, RS232 Cable
Firmware Update	ADM, FOTA, RS232 Cable

CERTIFICATIONS

Standards	FCC, CE
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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.

ATrack Technology Inc.

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