



AL1 is a vehicle telematics device with GSM communication which is able to monitor vehicle location and be remotely controlled via GSM network. With its intelligent event control engine, users can define various combinations of vehicle conditions and generate diverse actions to meet their unique requirements.



2G Connectivity

With GSM communication.



Multiple Interfaces

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



Location Technology

Supporting GPS.



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

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)

Hardware Specification

AL1

CELLULAR

AL1	GSM 850, 900, 1800, 1900MHz
Data Support	UDP / IP, TCP / IP, SMS
Antenna	Embedded cellular antenna

GPS

Receiver Type	66 channel engine
Location Technology	GPS
SBAS Support	WAAS, EGNOS, GAGAN, MSAS
Tracking Sensitivity	-165dBm
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 3~40V (12bits resolution)
1-Wire® Interface (Optional)	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 Temperature	-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	78g (0.18 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, RoHS
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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.

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