

# AL11

# ALL TERRAIN AUTOMOTIVE TRACKER

IC FC 

AL11 is a compact and IP67 rated LTE tracking device suitable for monitoring various types of mobile assets. It can be easily and covertly installed with a 3 wire connection, and offers additional capabilities for ignition detection, ignition cut, environment temperature monitoring, Driver ID, and SOS alerts. With built-in features like configurable tracking, user-defined reporting, motion & impact detection, geo-fencing, driver behavior monitoring and speeding, AL11 is a flexible and reliable device for diverse tracking applications.



### 4G LTE Connectivity

LTE Cat.1 connectivity with 3G fallback.



### IP67 Waterproof

With IP67 casing for water and dust protection.



### Easy Installation

3-wire easy installation.



### 3-axis Accelerometer

Built-in 3-axis accelerometer for detecting impact.



### Real-time Tracking & Logging

Configurable real-time tracking and logging.

### Optional Accessories

#### Safety

12V / 24V Relay

SOS Push Button Cable (Unlocked)

Business / Private Trip Switch Button Cable (Locked)

#### Identification

1-Wire® iButton Reader & Tag

1-Wire® Magnetic iButton Reader & Tag

1-Wire® Trailer ID

#### Utility

1-Wire® Temp. Sensor Probe

Mounting Bracket for AL11

#### ATrack Proprietary Tool

ACT (ATrack Configuration Tool)

ADM (ATrack Device Management Portal)

# Hardware Specification

# AL11

## CELLULAR

AL11-LA (AT&T)	LTE FDD Cat.1 B2 (1900), B4 (AWS1700), B5 (850), B12 (700) UMTS / HSPA+ B2 (1900), B4 (AWS1700), B5 (850)
AL11-LE (Europe)	LTE FDD Cat.1 B1 (2100), B3 (1800), B8 (900), B20 (800), B28 (700) GSM / GPRS / EDGE Dual Band 900 / 1800MHz
AL11-LU (Australia)	LTE FDD Cat.1 B3 (1800), B5 (850), B8 (900), B28 (700) UMTS / HSPA+ B1 (2100), B5 (850), B8 (900)
Data Support	UDP / IP, TCP / IP, SMS
Antenna	Embedded cellular antenna

## GPS

Receiver Type	99 channel engine
Location Technology	GPS & GLONASS
SBAS Support	QZSS, WAAS, EGNOS, GAGAN, MSAS
Tracking Sensitivity	-165dBm
Acquisition Sensitivity	-148dBm
Location Accuracy	3.0m CEP 50%
Antenna	Internal

## 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)

## ELECTRICAL

Operating Voltage	Vehicle 12V / 24V system
Current Consumption	Operating: 50-250mA @ 12V Deep Sleep: 2.6mA @ 12V
Backup Battery	3.7V 1050mAh

## MEMORY

Internal Flash Memory	64 Megabit Up to 135,000 logs Up to 9,000 queues
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## SENSORS

Accelerometer	3-axis ±16g
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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
IP Rating	IP67

## PHYSICAL

Dimension	105mm × 72mm × 21mm (4.13" × 2.83" × 0.83")
Weight	198g (0.43 lb)
Enclosure	Flame Retardant PC
Mounting Method	Screw mounting bracket

## CONNECTORS

Connection Type	Molded power and I/O harness
SIM Card Socket	Internal Mini SIM (2FF)
Configuration Interface	Internal Micro USB

## DEVICE MANAGEMENT

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

## CERTIFICATIONS

Standards	FCC, IC, PTCRB
Carriers	AT&T

## About ATrack

ATrack Technology Inc. specializes in telematics hardware designing and manufacturing. Our core R&D team has over 15 years of industry experience, and our products have been deployed in various operating environments worldwide. ATrack has also been particularly successful at performing user-specific firmware and hardware customizations to help our clients win projects in this dynamic market. Through our continuous commitment to the industry and providing unmatched level of responsiveness, we have been recognized as one of the most reliable hardware partner.

## ATrack Technology Inc.

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