

IC FC   RoHS

AS11 is equipped with rechargeable battery making it an ideal solution for asset management. With IP68 rated casing, AS11 is designed to operate under extreme environment against water and dust. It is also equipped with GPIOs for varieties of application expandability and flexibility by connecting to a wide range of accessories.

**4G LTE****4G LTE Connectivity**

4G LTE Cat.1 / Cat. M1 connectivity.

**IP68****IP68 Waterproof**

With IP68 casing is waterproof and dust protected.

**GPIOs****Wide Range of Applications**

With GPIOs that allow for wide range of applications.

**G****3-axis Accelerometer**

Built-in 3-axis accelerometer for motion detection.

**Bluetooth**

Optional Bluetooth Low Energy for IoT application.

**Optional Accessories****I/O Expansion**RS1:1-3 RS232 Expander Cable  
RS2:RS232-to-RS485 Adapter  
CAN Adapter Cable**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  
Magnetic Kit**ATrack Proprietary Tool**ACT (ATrack Configuration Tool)  
ADM (ATrack Device Management Portal)

# Hardware Specification

# AS11

## CELLULAR

AS11-MX (AT&T)	LTE FDD Cat.M1 B2, B4, B12
AS11-LS (Sprint)	LTE FDD Cat.1 B2, B4, B5, B12, B25, B26
AS11-LK (NTT Docomo, KDDI, Telstra)	LTE FDD Cat.1 B1, B3, B5, B8, B9, B18, B19, B26, B28
	WCDM, A800, 850, 900, 2100
Data Support	UDP / IP, TCP / IP, SMS
Antenna	Embedded cellular antenna

## GPS

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

## INPUTS/OUTPUTS

Vehicle Bus (Optional)	External Adapter
Serial Interface	RS232
Digital Ignition Input	1 Positive Input (Configurable)
Digital Inputs	Up to 2 (Configurable)
Digital Outputs	Up to 2 (Configurable)
	Max. sink current 500mA
Analog Inputs	Up to 1 (Configurable)
	DC 0~40V (12bits resolution)
1-Wire Interface	1 (Driver ID, Temperature sensors)
LED Indicators	2 LEDs (GPS, Cellular)
Bluetooth (Optional)	Bluetooth Low Energy v4.2 Class 2

## SENSORS

Accelerometer	3-axis ±16g
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## ELECTRICAL

Operating Voltage	Vehicle 12V / 24V system
Current Consumption	Operating: 30-120mA @12V Deep Sleep: < 1.2mA @12V
Backup Battery	3.7V 6400mAh

## MEMORY

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

## ENVIRONMENTAL

Operating Temp	-20 to +60 °C (with battery) -40 to +70 °C (without battery)
Humidity	95%RH @ 50° C non-condensing
Vibration/Shock	MIL-STD-810G, SAE J1455
IP Rating	IP68

## PHYSICAL

Dimension	120 mm x 80 mm x 36 mm (4.72" x 3.15" x 1.42")
Weight	250g (0.56 lb)
Enclosure	Flame Retardant ABS+PC
Mounting Method	Screw Mount, Magnet Mount

## CONNECTORS

I/O Connection	Circular 8 Pin Connector
SIM Card Socket	Internal NanoSIM (4FF)
PC/Accessory Interface	RS232 with 5V (±5%) Power (5V is available in non - battery mode only)
External GPS (Optional)	SMA
Configuration Interface	RS232 Interface

## DEVICE MANAGEMENT

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

## CERTIFICATIONS

Standards	FCC, IC, PTCRB, TELEC, JATE, RoHS
Carriers	AT&T, Sprint, TELUS
Carriers (Module Certified)	NTT Docomo, KDDI, Telstra

## 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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