



# AL300 LTE-M WATERPROOF TRACKER

AL300 is an ideal waterproof tracker for monitoring vehicles, applied to management of fleet, construction, farm machinery, and motorcycle. Optional CAN Bus enables retrieve detail vehicle engine data by ISO 15765-4 or SAE J1939 protocols. AL300 also supports optional Bluetooth which enables connect with wireless sensors for various IoT applications.



Excavator



Trailer



Reefer  
Container



Motorcycle



## Features



LTE Cat. M1 connectivity  
with fallback 2G



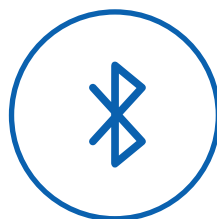
Ruggedized enclosure,  
compliant to IP67



Supports CAN bus for getting  
detail vehicle engine data



Driver behavior monitoring



Bluetooth for wireless sensors  
or IoT Mobile App



Various Installation, includes screw  
mounting, cable tie and  
adhesive tape

## Specifications

### CELLULAR

AL300-MG (Global)	LTE FDD Cat.M1 B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B85 GSM 850, 900, 1800, 1900
AL300-MX (N.America)	LTE FDD Cat.M1 B2, B4, B5, B12, B13
Data Support	UDP / IP, TCP / IP, SMS
Antenna	Embedded cellular antenna

### GNSS

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

### INPUTS/OUTPUTS

Variant I * (Digital Input SKU)	2 Digital Inputs
Variant II * (RS232 SKU)	1 Serial Interface (RS232 TX/RX)
Variant III * (CAN BUS)	1 Vehicle CAN BUS (CAN H/L) Protocol: ISO 15765-4, SAE J1939
Ignition Input	1 Positive Input
Digital Outputs	1 (Max. sink current 300mA)
LED Indicators	2 LEDs (GPS, Cellular)
Bluetooth *	Low Energy v5.1, Class 2

### SENSORS

Accelerometer	3-Axis, ±16g
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\* Optional accessories required

### ELECTRICAL

Operating Voltage	DC 9V-32V Input
Current Consumption	Operating: 100mA@12V Deep Sleep : 2.4mA@12V
Backup Battery	3.7V 250mAh

### MEMORY

Internal Flash Memory	16 Megabits
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### ENVIRONMENTAL

Operating Temperature	-20°C to 60°C
Humidity	95%RH @ 50°C non-condensing
Vibration/Shock	MIL-STD-810G, SAE J1455
IP Rating	IP67

### PHYSICAL

Dimension	88.9 mm x 76.5 mm x 21.2 mm (With screw bracket)
Weight	140g
Enclosure	Flame Retardant PC
Mounting Method	Screw mounting bracket Adhesive, Cable Tie

### CONNECTORS

I/O Connection	Molded power and I/O harness
SIM Card Socket	NanoSIM (4FF)
Configuration Interface	UART (Internal Connector only for Digital Input SKU)

### CONFIGURATION

Device Maintenance	Firmware and configuration Update via ADM (ATrack Device Mangement)
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### CERTIFICATIONS

Standards	CE, FCC, IC, TELEC, PTCRB, RoHS
Carriers	AT&T, Verizon

## Ordering Information

Model	Region	Connectivity	Interface Comparison					
			Variant I Digital Input	Variant II RS232 TX/RX	Variant III CAN BUS	Bluetooth	Ignition Input	Digital Output
AL300-MGCSD-AT02	Global	LTE Cat. M1	●	—	—	●	●	●
AL300-MGCSR-AT02	Global	LTE Cat. M1	—	●	—	●	●	●
AL300-MGCSC-AT02	Global	LTE Cat. M1	—	—	●	●	●	●
AL300-MGCXD-AT02	Global	LTE Cat. M1	●	—	—	—	●	●
AL300-MGCXR-AT02	Global	LTE Cat. M1	—	●	—	—	●	●
AL300-MGCXC-AT02	Global	LTE Cat. M1	—	—	●	—	●	●
AL300-MXCSD-AT02	N.America	LTE Cat. M1	●	—	—	●	●	●
AL300-MXCSR-AT02	N.America	LTE Cat. M1	—	●	—	●	●	●
AL300-MXCSC-AT02	N.America	LTE Cat. M1	—	—	●	●	●	●
AL300-MXCXD-AT02	N.America	LTE Cat. M1	●	—	—	—	●	●
AL300-MXCXR-AT02	N.America	LTE Cat. M1	—	●	—	—	●	●
AL300-MXCXC-AT02	N.America	LTE Cat. M1	—	—	●	—	●	●

