



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



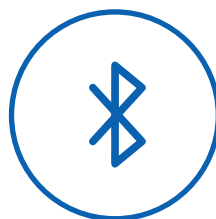
Ruggedized enclosure,
compliant to IP67



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, B20, B28, GSM 850, 900, 1800, 1900
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

CAN Bus*/**	ISO 15765-4 ; SAE J1939
Serial Interface*	RS232 TX/RX
Ignition Input	1 Positive Input
Digital Inputs	2 (Configurable)
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

** By Project

ELECTRICAL

Operating Voltage	Vehicle 12V / 24V system
Current Consumption	Operating: 400mA@13.5V Deep Sleep: Below 0.5mA@13.5V
Backup Battery	3.7V 250mAh

MEMORY

Internal Flash Memory	16 Megabits
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ENVIRONMENTAL

Operating Temperature	-20 to +60°C (with battery)
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)

CONFIGURATION

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

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

Ordering Info.

Model	Connectivity	Interface Difference				
		Digital Input	RS232 TX/RX	Bluetooth	Digital Output	Ignition Input
AL300-MGNXB-AT02	LTE Cat. M1	●	—	—	●	●
AL300-MGNXB-AT03	LTE Cat. M1	—	●	—	●	●
AL300-MGNSB-AT02	LTE Cat. M1	●	—	●	●	●
AL300-MGNSB-AT03	LTE Cat. M1	—	●	●	●	●

