

GOSAFE

# GAT1000

## RUGGED ASSET TRACKER



### APPLICATIONS



Transport &  
Logistic



Construction  
Industry



Asset  
Management



Trailer Tracking

**Gosafe**

your trusted partner



# GAT1000

## PROGRAMMABLE ASSET TRACKER

### KEY FEATURE

- LTE Cat 1 with Global 2G, LTE Cat M-1
- Highly sensitive GPS engine
- 3D Accelerometer
- Extensive Power Management
- 5000 mAh Rechargeable Battery
- Multiple Sensors support

### YOUR BENEFIT

- Get visibility of asset and fleet
- Improves efficiency and productivity
- Reduces operational expenses
- Increases equipment safety



### Rugged GPS Tracker

The rugged GPS Tracker GAT1000 is a powerful, ultra-rugged, waterproof IP 67 wireless GPS tracker with a 5000mAh rechargeable battery and long standby time. The GAT1000 is designed to meet the industry requirement for yellow equipment and work efficiently under harsh conditions. Easy installation and protective case make it an ideal choice for the yellow equipment, trailer and fleet tracking industry.

## Features



4G connectivity with  
fallback 2G



WiFi Location



Bluetooth 4.2  
for sensor



Multiple interface for various  
monitoring and control



Configurable digital inputs  
and analog inputs



Highly sensitive GPS

# SPECIFICATIONS

## GENERAL

Communication Mode	LTE/GPRS and TCP/UDP/SMS
Location Technology	56 Channels GNSS
Operating Voltage	12 and 24 Volt Vehicle Systems

## CELLULAR

Data Support	SMS, TCP, UDP
LTE CAT-1	B1/2/3/4/5/7/8/12/13/17/18/19/ 20/25/26/28/66
LTE Power	Class 5 (20dBm)
LTE Data	CAT-1: DL: 10Mbps, UL: 5Mbps
GSM/3G	850/900/1800/1900 Mhz
GPRS Power	Class 10
SIM Card	1.8/3.3V

## INTERFACE

Digital Inputs	2 Digital inputs
Ignition Sense	One dedicated wire for Ignition
Programmable Input	One configurable input to negative trigger digital input or analog input
Analog Input	One dedicated analog input
Digital Output	One digital outputs, open drain, 300mA drive current max
Latched Digital O/P	One digital output with internal latch circuit,open drain, 150mA drive max
Serial Port	1 RS232 port for external devices
1-Wire® Solution	1-Wire® interface (Driver ID)
Status LEDs	GPS, Cellular, Power
BLE 4.2	for Wireless Sensor

## CONNECTORS, SIM CARD ACCESS

Connector Type	12 Pin M12 aviation connector
Mini USB	1 Mini USB (configuration/debug)
GPS Antenna	Internal
Celular Antenna	Internal
SIM Card	Internal (4FF)

## ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
3D Accelerometer	On Board

## PHYSICAL

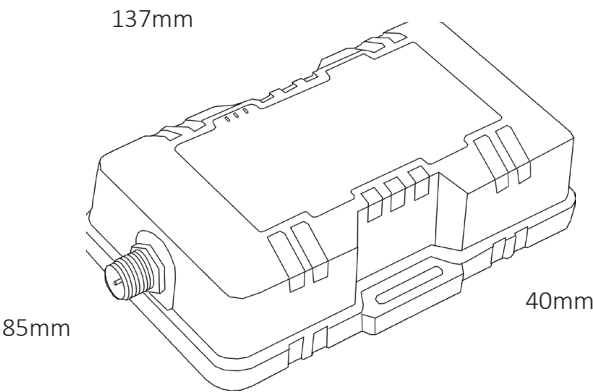
Dimensions	137.0 x 85.0 x 40.0mm
Weight	340g with 5000mAh Battery 458g with 5000mAh Battery and Mounting mm

## GPS

Location Technology	GPS Engine GPS/Glonass/Galileo/BeiDou GPS/QZSS L1 C/A, Glonass L10F BeiDou B1, Galileo E1 B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Concurrent GNSS	3
Update Rate	1 Hz
Channels	56
Tracking sensitivity	-167dBm
Cold Start Open Sky	30S
Aided Start	2S
Reacquisition	1S
Assisted GPS	Supported
Antenna	Patch Internal

## ELECTRICAL

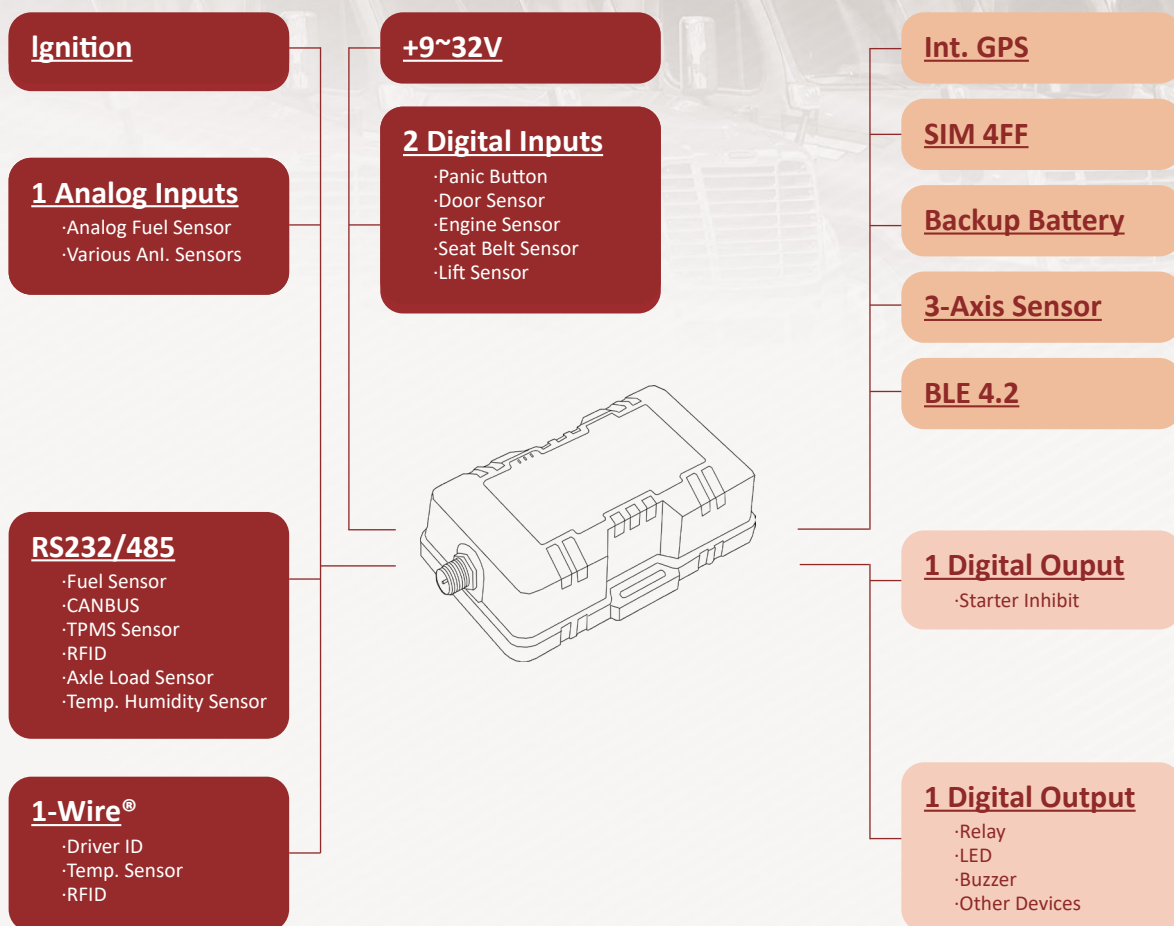
Operating Voltage	12/24 VDC Vehicle Systems 9-40 VDC (start-up, operating) 7-33 VDC (momentary)
Power Consumption	Typical 400uA @ 12V (deep sleep) Typical 15mA @ 12V (radio-active sleep) Typical 60mA @ 12V (active tracking with GPS and cell enabled)
Backup Battery	LI-PO 5000mAh Battery Recharging Range is 0 to +45°C



## ENVIRONMENTAL

IP Rating	IPX7
Operating Temperature	-40 ~ +85°C (without Backup Battery) -10 ~ +50°C (with Backup Battery)
Humidity	95%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC–Part 15B
RoHS	Compliant (Optional)

# Applications



## Ordering Models

Model	Connectivity	Region
GAT1000-LTA	LTE CAT-1	LATAM Version
GAT1000-LT	LTE CAT-1	EMEA-ANZ Version
GAT1000-LTE	LTE CAT-1	NA Version
GAT1000-LTM	LTE CAT-M/NB	NA Version

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