geoforce

VT1

PLUG AND PLAY
VEHICLE TRACKER

LOCATION AND VEHICLE DATA WHEN YOU NEED IT

The Geoforce Cellular Vehicle Tracker is a real-time location reporting module installed in mobile assets such as light commercial trucks. By recording speed, GPS odometer mileage, run time and harsh/unsafe driving, the VT1 enables companies to optimize their fleet operations while bolstering the safety of their most important resource, their people.

Maximize Service Verification and Worker Safety

Worker productivity is crucial when it comes to turning a profit. However, companies struggle with finding the balance between maintaining increased operational efficiency and their workers' well-being. They often ask themselves, is it possible to have both high operational efficiency and worker safety?
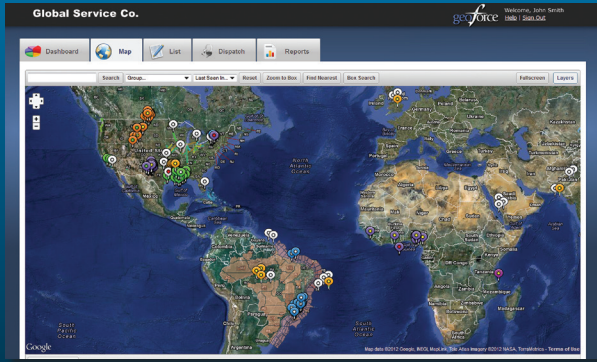
By keeping track of vehicle data like real-time location, engine runtime, and harsh driving, you can confirm that your drivers are meeting demands while keeping a watchful eye on the road.

The VT1 combined with Geoforce's Track and Trace software platform allows you to easily verify service delivery to ensure both worker and customer satisfaction.

KEY FEATURES

> Plugs into vehicle OBD-II port: no tools or professional installers required

> Compact, low-profile hardware

> Cost-efficient and reliable design

> Operates on LTE Cat 1 wireless networks

> Provides frequent location verification and engine runtime data during operation

> Captured vehicle data stored and viewed in Geoforce *Track and Trace*

- Vehicle Location (real-time)
- Engine Runtime
- Idling
- Harsh Driving (fast acceleration, harsh cornering/braking)
- Service Verification (history)

MANAGE YOUR ASSETS WITH GEOFORCE *TRACK AND TRACE*

Geoforce designed and built its web-based and mobile software with field operations in mind, enabling us to provide innovative *Track and Trace* software for all your field asset tracking needs.

By combining this cloud-based software with rugged GPS tracking devices and global satellite network integration, Geoforce's *Track and Trace* facilitates asset location and retrieval, rental invoice auditing, service delivery verification, inspection compliance, and equipment maintenance alerts. Because field operations don't have to be chaotic.

SPECIFICATIONS

Cellular Network

North American Variant I
LTE Cat 1 — 1900 (B2)/AWS 1700 (B4)/ 700 (B12) MHz

North American Variant II
LTE Cat 1 — AWS 1700 (B4)/700 (B13) MHz

GPS (GNSS)

Constellation Support	GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS, GAGAN)
Channels	55 Channel
Tracking Sensitivity	-167 dBm
Acquisition Sensitivity	-157 dBm (hot start)
	-148 dBm (cold start)
Location Accuracy	~2.0m CEP Open Sky (GPS SBAS 24 hours static)
Location Update Rate	Up to 4 Hz AGPS Location assistance capable

Comprehensive I/O

OBD-II	Interface J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 (KWP 2000), SW-CAN, ISO-15765 CAN
Serial Port	2-wire TTL serial interface
Bluetooth	Low Energy (BLE)
Status LEDs	3 (OBD, GPS, cellular)
Integrated Buzzer	Programmable audible alert
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)

Physical

Dimensions	1.8 x 2.6 x 1.1" (46 x 67 x 28 mm)
Weight	1.75 oz (50 g)

Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 2mA @ 12 V (deep sleep) Typical 40mA @ 12 V (active tracking w/ GPS and cell enabled)

Battery Pack

Battery Capacity	180 mAH
Battery Technology	Lithium-Ion Charging
Temperature	0° to +45° C

Environmental Standards

Temperature	-30° to +60° C (connected to primary power)
	-20° to +60° C (operating on battery)
	-20° to +25° C ≤ 6 months (long term storage with battery)
Humidity	95% RH @ 50° C non-condensing
Shock/Vibration	U.S. Military Standards 202G, 810F; SAEJ1455
ESD	IEC 61000-4-2 (4KV Test)

Connectors, SIM Access

GPS Antenna	Internal
Cellular Antenna	Internal
SIM Access	Internal (2FF SIM)

Certifications

FCC, IC, PTCRB, RoHS Compliant