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GV500CNA

4G LTE Cat1 Compact OBD Tracker



- **LTE Cat.1 bis**
- **Compact Size**
- **BLE 5.1**

- **LTE Cat 1**
- **Mini Size**
- **Plug and Play**
- **Accelerometer Self-calibration**
- **Crash Detection & Accident Reconstruction**
- **Geo-fences**
- **Motion Detection**
- **Scheduled Timing Report**
- **OTA Control**

The GV500CNA is a small LTE CAT 1 OBD tracker equipped with features such as driver behavior monitoring, crash detection, mileage recording, and BLE connectivity, making it an ideal choice for insurance applications and connected car services.

UBI/Insurance



Car Leasing



Connected Car



General

Dimensions	50(L) x 49(W) x 24(H) mm 1.97(L) x 1.93(W) x 0.94(H) inch
Weight	51g
Backup Battery	Li-polymer Rechargeable, 60mAh
Operating Voltage	8 - 32V DC
Operating Temperature	-20°C ~ +70°C -40 °F ~ 158 °F
Storage Temperature	- 40 °C ~ +80 °C
Buffer Messages	Up to 10,000 buffer messages
BLE	Support BLE 5.1 protocol
Region	North America
Certification	FCC, IC , PTCRB (Planning), AT&T (Planning), TMO (Planning)

LTE

Operating Band	LTE Cat 1 bis FDD: B2/B4/B5/B12/B13/B66/B71
Data Transmission	LTE-FDD: Max 10Mbps (DL)/Max 5Mbps (UL)

GNSS

GNSS Type	All-in-One GNSS receiver
Sensitivity	Cold start: -148 dBm Hot start: -163 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: <2.0m
TTFF (Open Sky)	Cold start: 24s average Hot start: 1s average

Interfaces

OBDII Port	For external power source
Cellular Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
LED Indicators	GNSS, CEL, PWR
Micro USB	Used for configuration, upgrade and debug
SIM card	SIM card Nano (4FF) and eSIM chip compatible

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Power On/Off Report	Report when the device is powered on and off
SOS/Emergency Alarm	SOS alarm via pressing function button
Power On Report	Alarm for tow event in ignition-off state
Virtual Ignition Detection	Based on voltage and accelerometer
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Crash Detection	Accident data collection for reconstruction and analysis
Motion Sensor	3-axis G-sensor
Remote Control	OTA control of digital outputs