

GV500MAP SPECIFICATIONS

LTE Cat M1/NB1 plug-in OBDII tracker with BLE designed for car and light truck tracking, breakdown assistance, dealer lot management and new driver monitoring

LTE Specifications

Operating Band	Cat M1/Cat NB1: LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/ B18/ B19/B20/B25/B28
Data Transmission	eMTC (DL) 375 Kbps eMTC (UL) 375 Kbps NB1 (DL) 32 Kbps NB1 (UL) 70 Kbps

EGPRS Specifications

Frequency	850/900/1800/1900 MHz
Data Transmission	GPRS multi-slot class 33 (33 by default) EDGE multi-slot class 33 (33 by default)

GNSS Specifications

GNSS Type	u-blox All-in-One GNSS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

General Specifications

Dimensions	49.49 × 48.5 × 21.9mm 1.95''(L) × 1.91''(W) × 0.86''(H)
Weight	58g (2.05oz)
Backup Battery	Li-Polymer, 60 mAh
Operating Voltage	8V to 32V DC
Operating Temperature	-30℃ ~ +80℃ -40℃ ~ +80℃ for storage
BLE	Support BLE 4.2 protocol

Interfaces

OBDII Port	Provide device power
	Allow information to be read from OBDII port Support legislated OBDII protocols:ISO 15765 Support vehicles manufactured after 2008 and offered for sale in the US
Cellular Antenna	Internal only
GNSS Antenna	2 internal GNSS antennas, use the one with better signal automatically
BLE Antenna	Internal only
LED Indicators	CEL, GNSS
Micro USB Interface	Used for upgrading and debugging

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at preset time intervals
OBDII Disconnection Alarm	Alarm report of OBDII connection and disconnection status
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis
Tow Alarm	Alarm trigger based on built-in 3-axis accelerometer

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