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# WT-OBD (GV500) LTE Series

LTE CAT-M1 (eMTC) / LTE CAT-M2 (NB-IoT) easy install dongle trackers with BLE designed for insurance, car leasing and real-time monitoring applications

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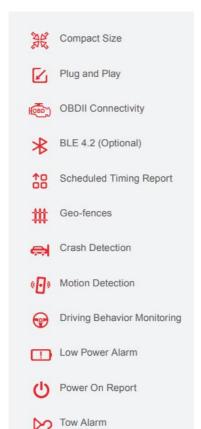
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49.49mm(L) x 48.5mm(W) x 21.9mm(H)



Operating Voltage: 8V to 32V DC Li-Polymer, 60 mAh





The GV500 series (LTE) includes three compact dongle devices that plug into a vehicle's OBDII port allowing easy installation for customers. All the models within the series support BLE 4.2 that is used for data transmission. The series supports LTE CAT-M1 (eMTC)/ LTE CAT-M2 (NB-IoT) network on multiple band for operation in America, Europe, and Oceania with a fallback to GPRS.



#### **GV500 Series Models (LTE)**

	Region	Operating Band	GNSS Type	Position Accuracy (CEP)	Certificate
GV500MA	North America	LTE eMTC/NB-IoT LTE B2/B4/B5/B12/B13	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	FCC/ Verizon
GV500ME	Europe	LTE eMTC/NB-IoT/ EGPRS LTE B3/B8/B20 EGPRS 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	
GV500MB	Oceania and Brazil	LTE eMTC/NB-IoT/ EGPRS LTE B3/B28 EGPRS 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	

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#### Interfaces



OBDII Port	Provide device power
Cellular Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna (Optional)	Internal only
LED Indicators	CEL, GNSS
Micro USB Interface	Used for upgrading and debugging

# **Specification:**

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

## LTE Specifications

Model Item	GV500MA	GV500ME	GV500MB
<b>Operating Band</b>	B2/B4/B5/B12/B13	B3/B8/B20	B3/B28
Data Transmission	eMTC eMTC NB1	(DL) 375 Kbps (UL) 375 Kbps (DL) 32 Kbps (UL) 70 Kbps	

## GNSS Specifications

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

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#### General Specifications

	ensions 49.49mm(L) x 48.5mm(W) x 21.9mm(H)	
Weight		
Backup Battery	Li-Polymer, 60 mAh	
Operating Voltage		
Operating Temperature	$-30$ °C $\sim +80$ °C $-40$ °C $\sim +80$ °C for storage	
Bluetooth (Optional)	Support BLE 4.2 protocol	

#### Interfaces

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	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