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AVL-350 (GV350) LTE Series

LTE CAT-M1 (eMTC)/ CAT-M2 (NB-IoT) fleet tracking devices offering support for wide variety of external peripherals and I/O options

1-1- | 750

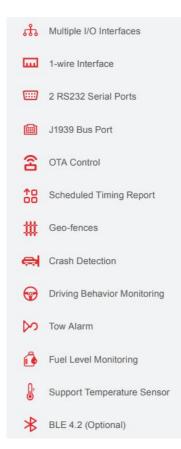
| -30°C ~ +80°C

ПМ

80mm(L) × 48mm(W) × 25mm(H)

Operating Voltage: 8V to 32V DC Li-Polymer, 250 mAh





The GV350 series (LTE) includes three models of GNSS tracking devices with multiple interfaces including two RS232 serial ports and a 1-wire interface, etc. 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.



GV350 Series Models (LTE)

	Region	Network/Operating Band	GNSS Type	Position Accuracy (CEP)	Certificate
GV350MA	North America	LTE eMTC/NB-IoT LTE B2/B4/B5/B12/B13	u-blox All-in-One receiver	Autonomous: < 2.5m	FCC/Verizon
GV350ME	Europe	LTE eMTC/NB-IoT/EGPRS LTE B3/B8/B20 EGPRS 850/1800/1900 MHz	u-blox All-in-One receiver	Autonomous: < 2.5m	
GV350MB	Oceania and Brazil	LTE eMTC/NB-IoT/EGPRS LTE B3/B28 EGPRS 850/1800/1900 MHz	u-blox All-in-One receiver	Autonomous: < 2.5m	

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Multiple Interfaces



Digital Inputs	1 positive trigger input for ignition detection 3 negative trigger inputs for normal use
Digital Output	1 digital output, open drain, 150 mA max drive current
Latched Digital Output	1 digital output with internal latch circuit, open drain, 150 mA max drive current
Configurable Input/Output	1 special I/O can be configured as a 0V-32V analogue input or an open drain output with 150 mA max drive current
Serial Ports	2 RS232 serial ports on 16 pin Molex type connector, for external devices
CAN Bus Interface	CAN 2.0A/B, SAE J1939
1-wire Interface	Support 1-wire temperature sensor (maximum 8 channels)
Cellular Antenna	Internal only
GNSS Antenna	Internal antenna and optional external antenna
Bluetooth Antenna (Optional)	Internal only
LED Indicators	CEL, GNSS, PWR
Mini USB Interface	Used for upgrading and debugging

Specification:

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	GSM	Specifications	(GV350ME	GV350MR)

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

LTE Specifications

MODEL	GV350MA	GV350ME	GV350MB
ITEM			
Operating Band	B2/B4/B5/B12/B13	B3/B8/B20	B3/B28
Data Transmission		eMTC (DL) 375 Kbps eMTC (UL) 375 Kbps NB1 (DL) 32 Kbps NB1 (UL) 70 Kbps	

GNSS Specifications

GNSS Type	u-blox All-in-One GNSS receiver
Sensitivity	Cold start: -145 dBm Tracking: -161 dBm
Position Accuracy (CEP50)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: 30s average Hot start: 1s average

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Interfaces		
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Serial Ports	2 RS232 serial ports on 16 pin Molex type connector, for external devices	
CAN Bus Interface	CAN 2.0A/B, SAE J1939	
1-wire Interface	Support 1-wire temperature sensor (maximum 8 channels)	
Cellular Antenna	Internal only	
GNSS Antenna	Internal patch antenna and optional external antenna (SMA type connector)	
Bluetooth Antenna (Optional)	Internal only	
LED Indicators	CEL ,GNSS, PWR	
Mini USB Interface	Used for upgrading and debugging	
General Specification	ntions	
Dimensions	80mm(L) x 48mm(W) x 25mm(H)	
Weight	75g	
Backup Battery	Li-Polymer, 250 mAh	
Operating Voltage	e 8V to 32V DC	
Operating $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ for storage		
Bluetooth (Optional)	Support BLE 4.0 protocol	
Air Interface Pro	tocol	
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, support up to 20 circular and 20 polygon geo-fence regions	
Power On Report	Report when the device is powered on	
Tow Alarm	Based on internal 3-axis accelerometer	
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.	
Crash Detection	n Accident data collection for reconstruction and analysis	
Special Alarm	Special alarm based on digital inputs	
Remote Control	OTA control of digital outputs	