



# GV300 Series

Compact GNSS trackers with multiple interfaces suitable for a wide range of vehicles

Weight | 72g

Dimensions | 80mm(L) × 48mm(W) × 25mm(H)

Temperature Range | -30°C ~ +80°C (GV300)  
-30°C ~ +70°C (GV300W)

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

- Multiple I/O Interfaces
- RS232 Serial Port
- Two-way Audio Interfaces
- OTA Control
- Scheduled Timing Report
- Geo-fences
- Low Power Alarm
- Power On Report
- Antenna Disconnect Alarm
- Garmin FMI Support
- Crash Detection (GV300)
- Driving Behavior Monitoring
- Tow Alarm
- Fuel Level Monitoring
- Support Temperature Sensor
- Driver ID Identify

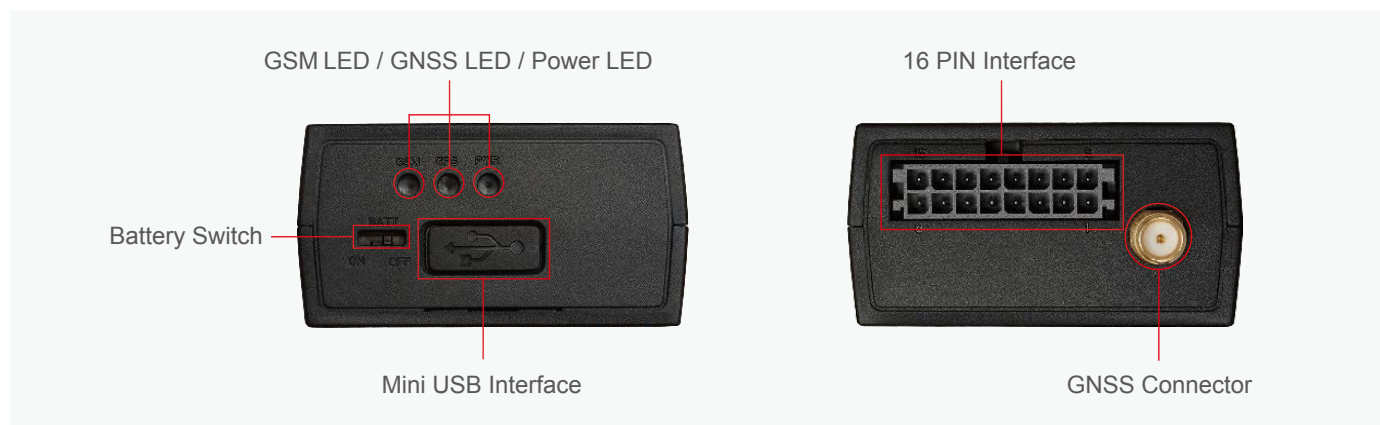
The GV300 series includes two models designed for light duty vehicle applications. The series features multiple interfaces including one RS232 serial port, one smart input, a two-way audio interface, etc. to support a wide variety of external accessories.



## GV300 Series Models

	Region	Operating Band	GNSS Type	Position Accuracy (CEP)	Certificate
GV300	Worldwide	GSM 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	CE/FCC/E-Mark/ANATEL
GV300W	Worldwide	UMTS 850/1900/2100 MHz GSM 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	CE/FCC/E-Mark

## Multiple Interfaces



Digital Inputs	1 positive trigger input for ignition detection 2 negative trigger inputs for normal use
Digital Outputs	2 digital outputs, 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	1 special input can be configured as a negative trigger digital input or an analog input (0V-16V)
Analog Input	1 analog input (0.3V-16V)
Serial Port	1 RS232 serial port on 16 pin molex type connector, for external devices (GARMIN protocol support)
Two-way Audio Interfaces	1 differential output 1 single end input
Cellular Antenna	Internal only
GNSS Antenna	Internal antenna and optional external antenna
LED Indicators	CEL, GNSS, PWR
Mini USB Interface	Used for upgrading and debugging

## Accessories

 <p><b>WTS100</b>(FOR GV300) Wireless temperature sensor based on 433.92MHz radio frequency</p>	 <p><b>WTH100</b>(FOR GV300) Wireless temperature &amp; humidity sensor based on 433.92MHz radio frequency</p>
 <p><b>WPB100</b>(FOR GV300) Wireless panic button based on 433.92MHz radio frequency</p>	 <p><b>WRT100</b>(FOR GV300) Wireless panic button based on 433.92MHz radio frequency</p>
 <p><b>1-wire Temperature Sensor</b> 1-wire temperature sensor (DS18B20) Cable length: 8m</p>	 <p><b>DRI02</b>(FOR GV300) RFID reader kit Parts list: RFID reader x1; RF card x2</p>
 <p><b>Ultra Sonic Fuel Sensor UFS300</b> Ultra Sonic Fuel Sensor Operating voltage: 9V-36V DC Measurement range: 5cm - 100cm Level accuracy: <math>\pm 0.5\%</math> IP rating: IP66 (detector) Output interface: - RS232 Interface: Baud rate: 19200</p>	 <p><b>CAN100 STD</b> Decodes information from vehicle bus (CAN bus and J1708) for tracking device Power supply voltage: 7V to 36V Current consumption (operating mode @12V) 6.5mA Current consumption (operating mode @24V) 4mA Current consumption (sleep mode) below 1mA Output current (outputs OUT1, OUT2, OUT3) 50mA Operating temperature: -40°C to +80°C Serial port: RS232 compatible</p>
 <p><b>CAN100_INV with Cable</b> (CAN bus and J1708) for tracking device Voltage and current consumption are same as CAN100 STD Operating temperature -40°C ~+80°C serial port UART compatible Include UART cable</p>	 <p><b>RS232 Camera</b> RS232 camera with power supply Power supply input voltage: 10-24V Communication baud rate: 115200 Camera lens: 2.8mm infrared R940 light Angle of view: 110°; Wire length: 2m; Pixel: 300k</p>
 <p><b>iButton Kit</b> Used for driver ID identification (Dallas keys ) Parts list: AC100 x 1 pc; iButton reader x 1 pc; iButton (with handle) x 2 pcs Cable length: AC100 1M; iButton reader 18cm</p>	 <p><b>Active_Buzzer_1M</b> Active buzzer with 1m cable Can be driven by the digital out put on any GV Series device</p>
 <p><b>MIC_2M</b> Hands-free MIC set with 2M cable</p>	 <p><b>Active_SPK_2M</b> Active hands-free speaker set with 2M cable</p>
 <p><b>Relay with Socket</b> Cable length: 14.5cm NO/NC 40A/30A (14V DC) With internal freewheeling diode</p>	 <p><b>Antenna_GPS_SMA_3M</b> GPS active antenna with SMA type RF connector Cable length: 3m</p>
 <p><b>Data_Cable_M</b>(FOR GV300) USB to UART cable It is used for configuration, firmware upgrading and debugging</p>	 <p><b>Data_Cable_W</b>(FOR GV300W) Mini USB data cable It is used for configuration, firmware upgrading and debugging</p>
 <p><b>AE300</b> A set of accessories used for testing GV300 Series Part list: GV300 EVB box ; Power supply;3.5mm stereo headphone; Extend_Cable 16 Pin to 16 Pin;ADC_Cable 4 Pin;Data_Cable_DB9_RS232</p>	 <p><b>EIO100</b> Expander for input and output can connect with tracking device through UART or 1-Wire Digital input x4 Digital output x4 Cable Length: 1.2m</p>
 <p><b>AU100</b> RS232 expander RS232 to RS232&amp;1-wire expander</p>	 <p><b>AC100 Kit</b> RS232 to 1-wire conversion cable Cable length: 1m</p>
 <p><b>Power Protection Cable</b> Power protection TVS cable.Used to improve the anti surge capacity of GV series Features:Reverse stand-off voltage: 30V 5000W x 2 peak pulse power capability on 10/1000us waveform</p>	 <p><b>Film_Panic_Button_2M</b> Film panic button with 2M cable</p>