

# GV850/GV851 Introduction

New Product

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Stock: 300590.SZ



# GV850/GV851 Linux-based Tracker



GV850/GV851 is a CAT 1 fallback 2G programmable Linux-based telematics gateway with abundant interfaces consists of multiple I/Os, Serial port, and BLE connectivity.

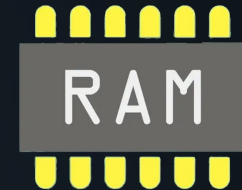
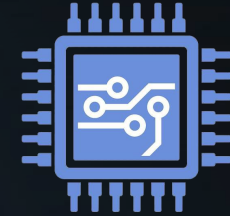
-  **Qualcomm low power chipset**
-  **Programmable Linux OS**
-  **CANBus support**
-  **Multi-Interfaces**
-  **Remote DDD file download**



Regions\CAN Solution	Formula CAN	Open CAN
EU Version LTE-FDD: B1/B3/B5/B7/B8/B20/B28 EDGE: B2/B3/B5/B8	GV850EU	GV851EU
NA Version LTE-FDD: B2/ 4/5/ 12/ 13/ 66	GV850NA	GV851NA

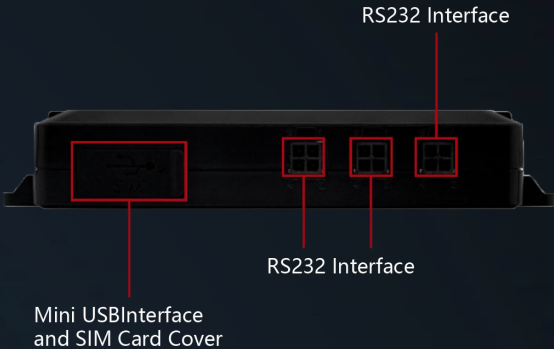
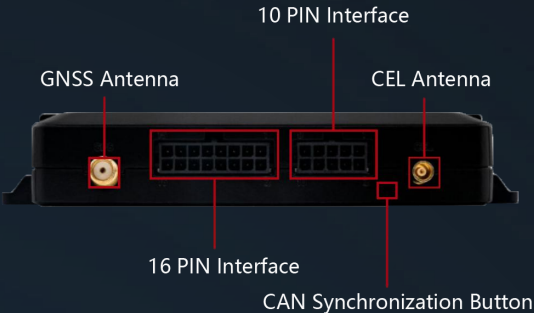


- STM32MP133A Cortex®-A7  
650MHz
- 128MB RAM (expandable to  
256MB by software)
- 128MB Flash (17MB available for  
userspace/system backup mode)
- Internal&External antennas
- 110mAh battery
- uBlox GPS chipset
- 3 axis G-sensor
- 8-32V wide range input power
- BLE 5.2



For easy development

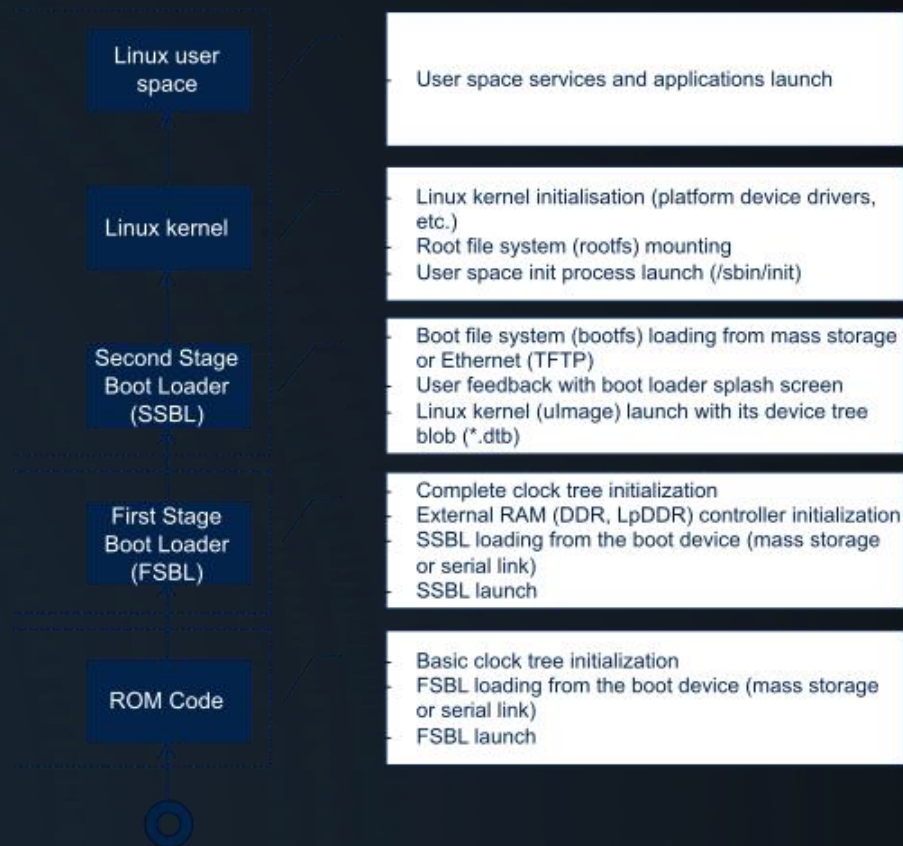
# Interfaces



Port Name	Description	Port Name	Description
CAN port	*CAN1_H & CAN1_L:Support J1939 / FMS *CAN2_H & CAN2_L:Support J1708/ OBD CAN (including DTC) / DDD file download	Serial port	2 x RS232, 300-115200 baud rate 1 x RS485, 300-115200 baud rate/Half Duplex (2 wires)
KLine	1x K line	Positive input	1 x positive trigger input for ignition detection
1wire	1x 1-wire data 1 x 1-wire VDD	Negative input	5 x negative trigger inputs
5V power output	3x5V power output for external peripherals	Digital output	5 x digital output, open drain, 150mA max drive current

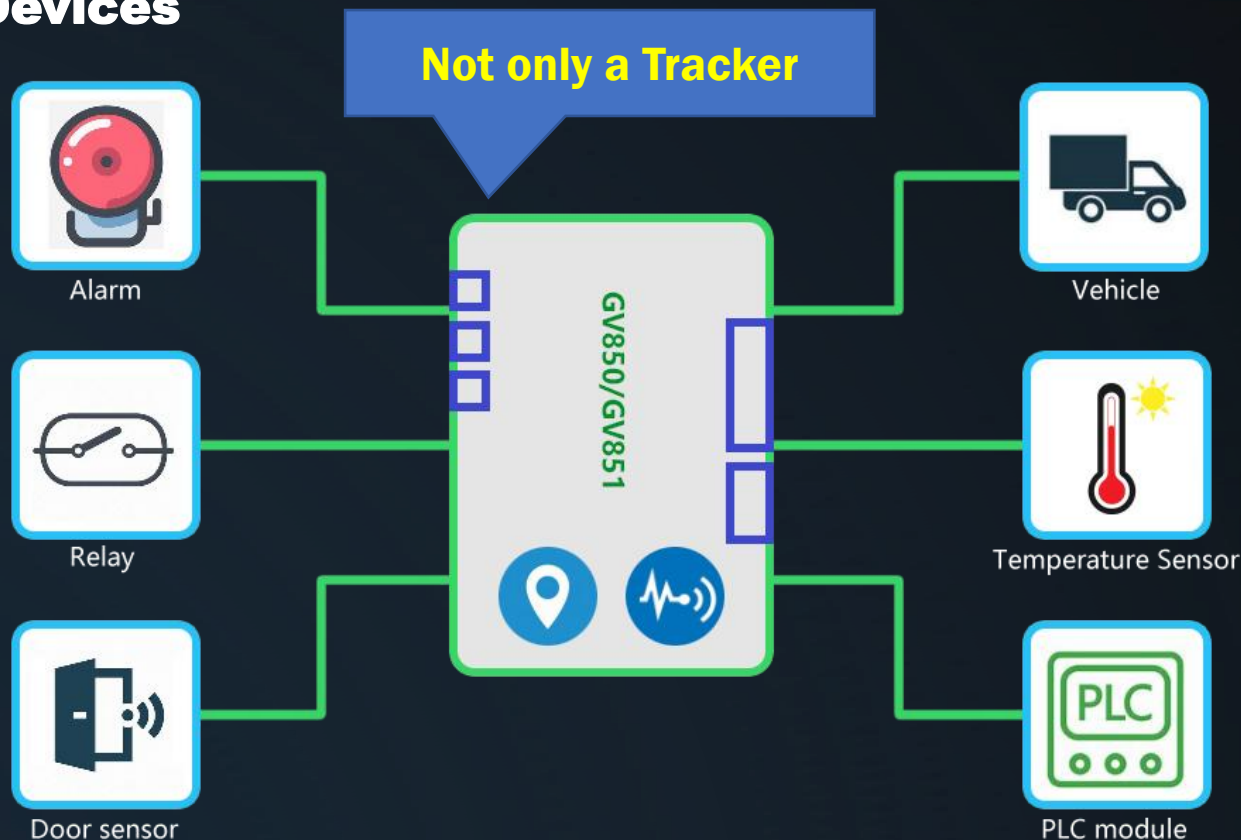
Thanks to the rich interfaces, GV850 provides multi telematics applications. Developer can develop their own applications based on the existing Linux system.

- Linux OS, Kernel over 5.15
- Support stop and standby mode
- Sleep Current <1.5mA@12V (Target 600μA/12V)
- Support buildroot, and yocto version will be available soon.
- All hardware drivers are intergrated and interfaces are available for development.
- SDK is under development.
- Remote tachograph Data (DDD file) Downloading





## Connected Devices



In addition to being a regular Tracker, a variety of external devices can be connected with GV850/GV851 through serial ports, 1-wire port and DI/DO ports, such as temperature sensor, PLC, door sensor, relay, etc. Customers can develop their applications to gather and forward the data from these devices to their backends.

# Applications

With an open Linux-based platform, it allows fleet service provider and system integrators to ensure a complete control of the application.

- Fleet management
- Intelligent Industry
- Automotive Cybersecurity
- Cold Chain



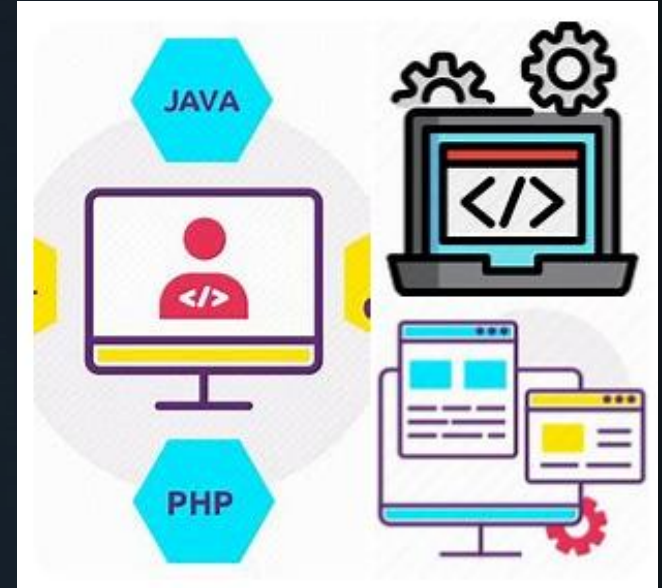
**A hardware platform for many possibilities!**



# Development Kits

The following files are provided for development:

1. driver&tools
2. BLE (Commad list for BLE)
3. CAN (Library for formula CAN)
4. GV850 GV851\_firmware
5. GV850 GV851 Software Development Guide
4. GV850\_buildroot\_dd981da1.tar.gz
5. GV850 Building Guide 1.0 (Video)



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# ***THANK YOU***

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