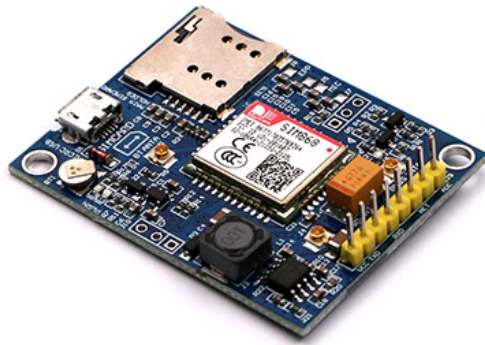


# ***GSM SIM868 Development Board***



## **Overview**

The UNV-SIM868 development board adopts a module launched by SIMCOM, with superior performance and small size. Onboard MICRO SIM card holder, reserved earphone microphone welding port. The antenna interface is IPEX-MINI interface, which is small in size and easy to connect various antennas. The onboard high-efficiency DC-DC power module supports 5V-18V wide voltage power supply, and reserves the power enable port to facilitate power control and reduce the power consumption of the development board. The main serial port has been level matched and supports 3.3V 5V microcontroller or other control systems.

## **Data Supported by the Module**

1. Support GPS, BD, GLO, LBS base station positioning, all-round positioning
2. With RTC backup battery, support hot start and warm start, the positioning speed is greatly enhanced
3. The positioning data supports GPS independent serial port acquisition and configuration, more options and more convenience.
4. The positioning data also supports the GSM serial port, which is faster and simpler to obtain and configure through AT commands.
5. Computer debugging video is coming, let parents master 868 functions faster
6. Various MCU programs are added, which greatly helps the rapid development of MCU

## **Module Advantages**

- Rich interfaces, unified planning of common interfaces, and integrated headphone jack , which are led out by pin headers to save space
- Our power supply has an enable control pin, which can control the power switch and realize remote unmanned control.
- Both the main serial port and the GPS serial port integrate a level matching circuit, and the compatibility is very stable.
- 2 status indicators, the module status is clear at a glance, simple and fast.
- The 50R impedance of the antenna is matched, and the measured GSM signal can reach 31 full bars in a good environment.

- The firmware supports base station positioning, and can be positioned normally when the GPS signal is poor
- With the same quality and the same chip, our price is low and the cost performance is relatively high.

### Module Description

- RTC backup power supply: supply power to the RTC after the device is powered off.
- GPS power control pin: used to control whether the GPS part of the module has power, so as to save power.
- GSM antenna interface: connect to GSM GPRS antenna, which is IPX-MINI antenna interface.
- DC-DC module: MSP series high-reliability power chip is adopted, and the power enable pin is led out at the same time.
- Main serial port and power pins: The serial port is compatible with 3.3V and 5V controllers, and supports mainstream MCUs such as 51 STM32.
- Active GPS antenna: Connect the GPS antenna. The antenna interface is IPX-MINI type.
- Headphone microphone interface: used to weld the voice microphone interface, which can realize the function of mobile phone. (We have microphones and speakers for sale).
- MICRO SIM card holder: straight-in SIM card holder, when inserting the card, the SIM card gap faces outwards, and supports various mobile phone cards of China Mobile and Unicom.

*Made in China*