3G/GPRS/GSM Shield for Arduino with GPS Antenna

Features:

- Designed based on Arduino standard interface, compatible with UNO, Leonardo, Nucleo, and XNUCLEO development boards.
- On-board CP2102 USD to UART chip, convenient for serial port debugging
- 5 LED indicators on the board to easily check the operating status of the module
- On-board level conversion computer, supporting 3.3V and 5V systems
- On-board SIM card slot, support 1.8V and 3V SIM cards
- Support automatic recognition of Baud rate (1200bps ~ 115200bps)
- Support Bluetooth 3.0, Bluetooth data transmission can be carried out
- Support real-time clock, with power supply interface
- Support national upgrades of modules via USB interface
- Support AT command control (3GPP TS 27.007, 27.005 and SIMCOM enhanced AT command set)
- Support SIM Application tool kit: GSM 11.4 Release 99
- Operating voltage: 6-12V
- Operating temperature: -40 ~ +85 ˚C
- Storage temperature: -45 ~ +90 ˚C

Key Features of GSM/GPRS:

Frequency band:

- GSM 850/EGSM 900/DCS 1800/PCS 1900 MHz
- Support automatic search for 4 frequency bands
- Meet GSM phase 2/2+ standard

Transmit power:

− Class 4 (2W @ GSM 850/EGSM 900 MHz)
− Class 1 (1W @ DCS 1800/PCS 1900 MHz)

GPRS connection characteristics:

− GPRS multi-slot class 12 (Default)
− GPRS multi-slot class 1~12 (Configurable)

GPRS data characteristics:

− Downlink transmission rate: <85.6kbps
− UPLINK transmission rate: <85.6kbps
− Encoding format: CS-1 / CS-2 /CS-3 and CS-4
− Support PAP protocol (password authentication protocol) for PPP connection
− Embedded TCP/IP protocol
− Support packet broadcast control channel (PBCCH)
− Support CSD (circuit switched) transmission rate: 2.4/4.8/9.6/14.4kbps
− Support unstructured supplementary data service (USSD)

Text message (SMS):

− Support type: MT/MO/CB/TEXT and PDU mode
− SMS storage device: SIM card

Audio characteristics:

− Voice codec mode: Half rate/ Full rate/ Enhanced full rate/ Adaptive multi rate
− Support echo cancellation function

Made in China