

Features:

The GPRS Shield is based on SIM900 module from SIMCOM and compatible with and its clones. The GPRS Shield provides you a way to communicate using the GSM cell phone network. The shield allows you to achieve SMS, MMS, GPRS and Audio via UART by sending AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands). The shield also has the 12 GPIOs, 2 PWMs and an ADC of the SIM900 module(They are all 2V8 logic) present onboard.

Specifications:

Quad-Band 850 / 900/ 1800 / 1900 MHz - would work on GSM networks in all countries across the world.
GPRS multi-slot class 10/8
GPRS mobile station class B
Compliant to GSM phase 2/2+
Class 4 (2 W @ 850 / 900 MHz)
Class 1 (1 W @ 1800 / 1900MHz)
Control via AT commands - Standard Commands: GSM 07.07 & 07.05 | Enhanced Commands: SIMCOM AT Commands.
Short Message Service - so that you can send small amounts of data over the network (ASCII or raw hexadecimal).
Embedded TCP/UDP stack - allows you to upload data to a web server.
RTC supported.
Selectable serial port.
Speaker and Headphone jacks
Low power consumption - 1.5mA(sleep mode)
Industrial Temperature Range - -40°C to +85 °C

Application:

M2M (Machine 2 Machine) Applications.
Remote control of appliances.
Remote Weather station or a Wireless Sensor Network.
Vehicle Tracking System with a GPS module.

Caution:

Make sure your SIM card is unlocked.
The product is provided as is without an insulating enclosure. Please observe ESD precautions specially in dry (low humidity) weather.
The factory default setting for the GPRS Shield UART is 19200 bps 8-N-1. (Can be changed using AT commands).
Power select - select the power supply for GPRS shield(external power or 5v of)
Power jack - connected to external 4.8~5VDC power supply
Antenna interface - connected to external antenna
Serial port select - select either software serial port or hardware serial port to be connected to GPRS Shield
Hardware Serial - D0/D1 of
Software serial - D7/D8 of
Status LED - tell whether the power of SIM900 is on
Net light - tell the status about SIM900 linking to the net
UART of SIM900 - UART pins of SIM900
Microphone - to answer the phone call
Speaker - to answer the phone call
GPIO,PWM and ADC of SIM900 - GPIO,PWM and ADC pins of SIM900
Power key - power up and down for SIM900

Note:

The SIM900 Board Input is 5-26V 2A,We Recommended current at least 9V 2A
Ensure your SIM card is not locked
GPRS Shield Communication baud rate is 19200 BPS 8-N-1