The GPRS/GSM board with MMS!
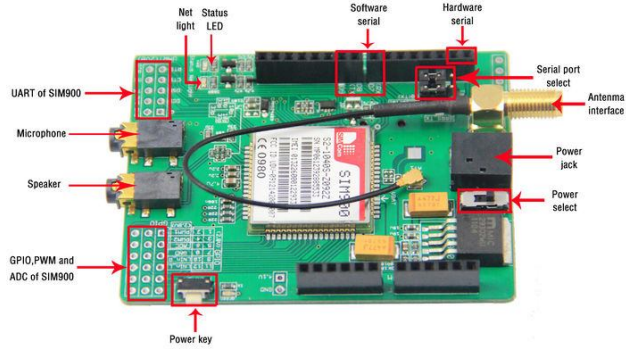
Description:

The GPRS Shield is based on SIM900 module from SIMCOM and compatible with Arduino and its clones. The GPRS Shield provides you a way to communicate using the GSM cell phone network. The shield allows y
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 log

Feature:

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

Hardware Diagram

§   Power select - select the power supply for GPRS shield(external power or 5v of arduino)
§   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 hareware serial port to be connected to GPRS Shield
§   Hardware Serial - D0/D1 of Arduino
§   Software serial - D7/D8 of Arduino
§   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 breakout 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 breakout of SIM900
§   Power key - power up and down for SIM900
§   Pins usage on Arduino
§   D0 - Unused if you select software serial port to communicate with GPRS Shield
§   D1 - Unused if you select software serial port to communicate with GPRS Shield
§   D2 - Unused
§   D3 - Unused
§   D4 - Unused
§   D5 - Unused
§   D6 - Unused
§   D7 - Used if you select software serial port to communicate with GPRS Shield
§   D8 - Used if you select software serial port to communicate with GPRS Shield
§   D9 - Used for software control the power up or down of the SIM900
§   D10 - Unused
§   D11 - Unused
§   D12 - Unused
§   D13 - Unused
§   D14(A0) - Unused
§   D15(A1) - Unused
§   D16(A2) - Unused
§   D17(A3) - Unused
§   D18(A4) - Unused
§   D19(A5) - Unused
§   Note: A4 and A5 are connected to the I2C pins on the SIM900. The SIM900 however cannot be accessed via the I2C .