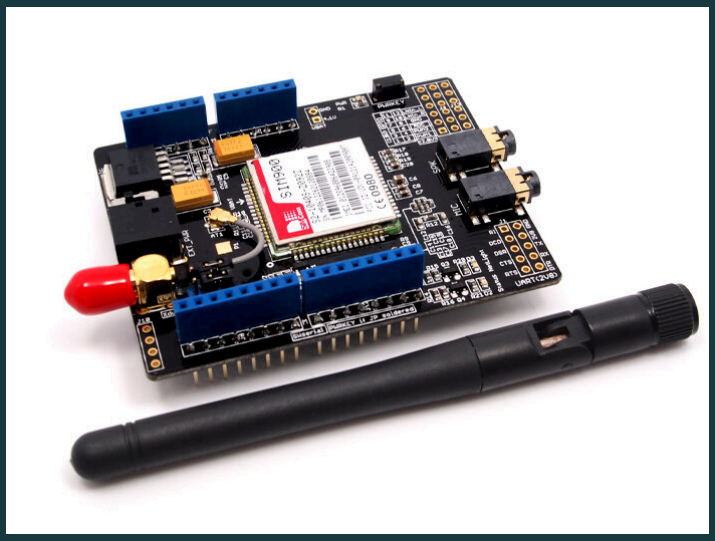
seeed studio

INDUSTRIAL PRODUCT DATASHEET

GPRS Shield

The GPRS Shield is a quad-band GSM/GPRS module delivering voice, SMS, data, and fax with low power consumption, AT command control, and Arduino compatibility.

SKU	UPDATED	PRICE
103030013	2024-08-09 02:12:56	$59.90(Excl. VAT)



Overview



The GPRS Shield provides quad-band 850/900/1800/1900 MHz GSM/GPRS connectivity for voice, SMS, data, and fax, controlled via AT commands and fully compatible with Seeeduino/Arduino and Mega. It features 12 GPIOs, 2 PWMs, 1 ADC (2.8V logic), low power consumption (1.5mA in sleep mode), and an operating temperature range of -40°C to +85°C.

Key Features

This product was replaced by a updated version GPRS Shield V2.0 (SLD01098P).

GPRS Shield V2

The GPRS (General Packet Radio Service) Shield is a new nonvoice value added service that delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, Data, and Fax in a small form factor and with low power consumption. It is controlled via AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands), and fully compatible with Seeeduino/Arduino and Mega. The GPRS Shield has 12 GPIOs 2 PWMs and 1 ADC(They are all 2V8 logic).

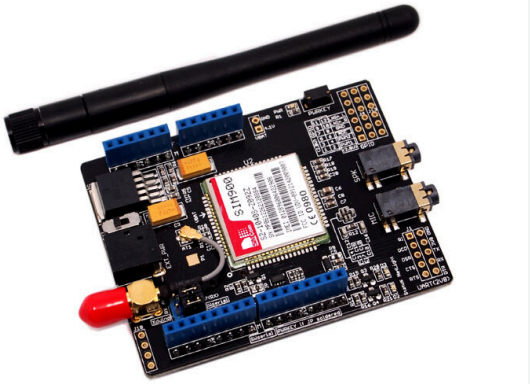
Features

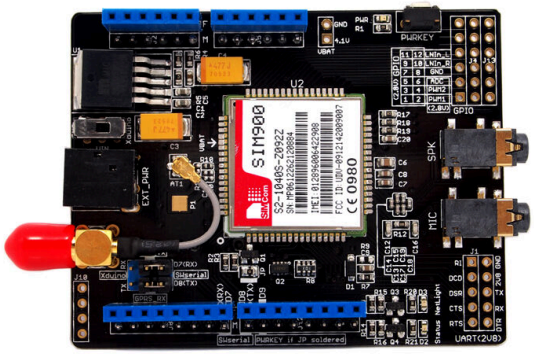
- Quad-Band 850/ 900/ 1800/ 1900 MHz
- GPRS multi-slot class 10/8
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
- Class 4 (2 W @850/ 900 MHz)
- Class 1 (1 W @ 1800/1900MHz)
- Control via AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands)
- Low power consumption: 1.5mA(sleep mode)
- Operation temperature: -40°C to +85 °C

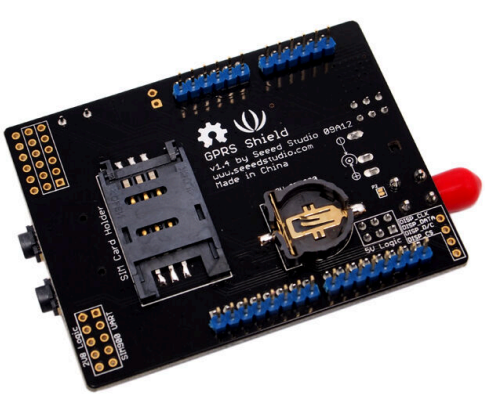
Documents

Please visit our **wiki page** for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our **forum**.

Product Gallery







Compliance & Logistics

HSCODE	
FCC	1

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/GPRS-Shield-p-779.html
- GPRS Shield v1.4 Schematic in PDF format
- GPRS Shield v1.4 PCB in PDF format
- GPRS Shield v1.4 Schematic and PCB in eagle format
- AT Commands v1.00
- AT Commands v1.03
- AT Commands v1.11
- Si5902BDC
- SIM900 Hardware Design
- SIM900 firmware and tool(firmware:1137B08SIM900M64_ST)
- SIM900datasheeet

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