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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Adafruit FONA 800 Breakout Board Starter Pack - SMA Version

PRODUCT ID: 2522



. Description

Build your own cellular project and get off the grid with FONA. This pack comes with an SMA-antenna type FONA and paired with hand-picked accessories. It's the **Adafruit FONA - SMA Starter Pack**.

The FONA miniGSM is an adorable all-in-one cellular phone module that lets you add voice, text, SMS and data to your project in an adorable little package.

This module measures only 1.75"x1.25" but packs a surprising amount of technology into its little frame. At the heart is a GSM cellular module (we use the latest SIM800) the size of a

postage stamp. This module can do just about everything. This starter pack has a SMA connector. For the uFL version, [click here!](#) And for the Adafruit FONA 800 uFL Shield version [click here!](#)

- Quad-band 850/900/1800/1900MHz - connect onto any global GSM network with any 2G SIM (in the USA, T-Mobile is suggested)
- Make and receive voice calls using a headset OR an external 8Ω speaker + electret microphone
- Send and receive SMS messages
- Send and receive GPRS data (TCP/IP, HTTP, etc.)
- Scan and receive FM radio broadcasts (yeah, we don't exactly know why this was included but it works really well)
- PWM/Buzzer vibrational motor control
- AT command interface with "auto baud" detection

Sounds delicious, right? So we plated this fine module onto a little breakout with all the extras you need to make your next project shine:

- Onboard LiPoly battery charging circuitry so you can take your project on the go. Use any 500mAh+ LiPoly or Lilon battery and recharge over the MicroUSB when necessary. Two LEDs let you know when its charging and done
- Standard 4-pole TRRS headphone jack. Use any 'Android' or 'iPhone'-compatible headset with mic
- Breakouts for external 8Ω speaker and electret mic if you don't want to use a headphone
- Level shifting circuitry so you can run it with 2.8V to 5V logic.
- Vibrational motor (buzzer) driver so you can have noiseless notifications
- SMA connection for external antenna
- Indicator LEDs for power and network connectivity
- Standard SIM slides into the back

On its own, this module can't do anything. It requires a microcontroller to drive it! We suggest and use an Arduino but any 3-5V microcontroller with a UART can send and receive commands over the RX/TX pins.

Microcontroller not included! We recommend an Arduino UNO to go along **SIM card not included!** If you are in the USA, we recommend TING

This Pack Contains:

- 1x Adafruit FONA - Mini Cellular GSM Breakout - SMA Version - v1
- 1x Right-angle Mini GSM/Cellular Quad-Band Antenna - 2dBi SMA Plug
- 1x Lithium Ion Polymer Battery - 3.7v 1200mAh
- 1x Mini Metal Speaker w/ Wires - 8 ohm 0.5W
- 1x Wired Miniature Electret Microphone
- 1x Cell-phone TRRS Headset - Earbud Headphones w/ Microphone
- 1x Vibrating Mini Motor Disc

. Technical Details

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• **Datasheets:**

- **FCC TCB BT**
- https://cdn-shop.adafruit.com/datasheets/SIM800_FCC_TCB_BT.pdf
- **R&TTE Statement of Opinion**
- https://cdn-shop.adafruit.com/datasheets/SIM800_CE.pdf
- **FCC Part 15B Test Report**
- https://cdn-shop.adafruit.com/datasheets/SIM800_FCC_Part15.pdf
- **FCC Part 15C Test Report**
- https://cdn-shop.adafruit.com/datasheets/SIM800_FCC_Part15_BT.pdf
- **FCC RF Test Report**
- https://cdn-shop.adafruit.com/datasheets/SIM800_FCC_Report.pdf
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