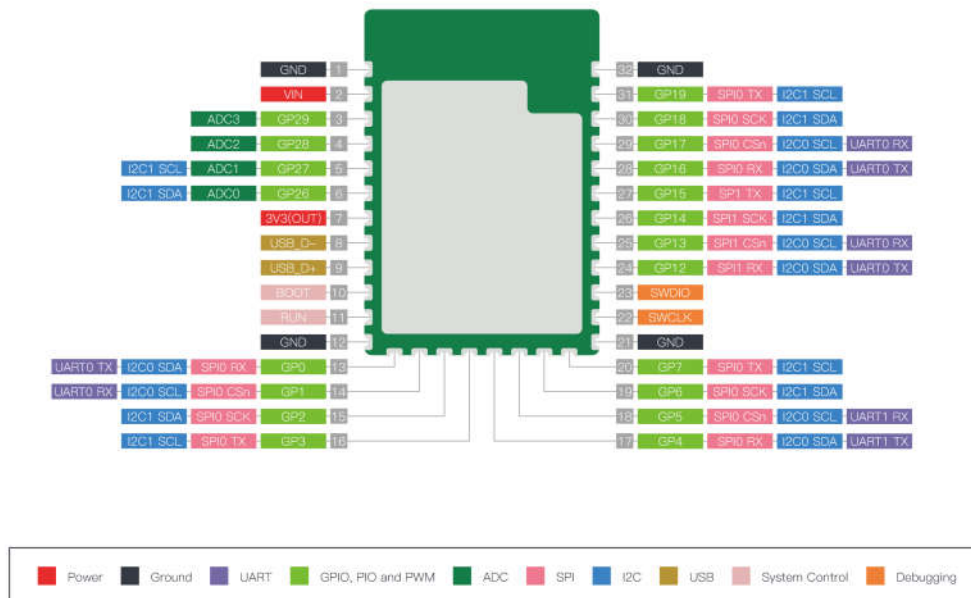


Wio rp2040 module Product description



1, Description

Seedstudio Wio RP2040 Module is a small-sized 2.4GHz Wi-Fi module support 802.11 b/g/n. It is based on the Raspberry Pi Foundation's RP2040 microcontroller. Easily create connected products making use of the Pi Pico Micropython.

We take the pins of the RP2040 chip out, including GPIO/I2C/SPI/UARTs. In addition, this module has an onboard PCB Antenna, no need to design the antenna separately, so you can quickly deploy the module to your own board.

—, Key Features

1-1 Raspberry Pi RP2040 32-bit Cortex M0+ dual core, flexible clock running up to 133Mhz

1-2 264KB of SRAM, and 2MB of on-board Flash memory

1-3 Support IEEE802.11 b/g/n

1-4 Support 2.4 ~ 2.4835 GHz

1-5 Support Ap & Station mode

1-6 Support for user-programmable GPIO control

1-8 Onboard PCB antenna

1-9 Small size 18.0x 28.2x 1.0mm

1-10 Compatible with Pi Pico C and Micropython SDK

FCC Statement

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.

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

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 and, if not installed and used in accordance with the instructions, 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.

Note:

The module is limited to OEM installation only

The OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module

FCC Radiation Exposure Statement

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: Z4T-WIORP2040-A Or Contains

FCC ID: Z4T-WIORP2040-A"

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device.

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Any company of the host device which install this modular with Single modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C : 15.247 and 15.209 requirement, Only if the test result comply with FCC part 15C : 15.247 and 15.209 requirement , then the host can be sold legally.

Antenna information

Antenna Type	Antenna Gain
PCB Antenna	-8.62dBi

Trace antenna designs: Not applicable.