ESP32-C3-WROOM-02-N4 Module with PCB Antenna

Product Overview
01/02/2023
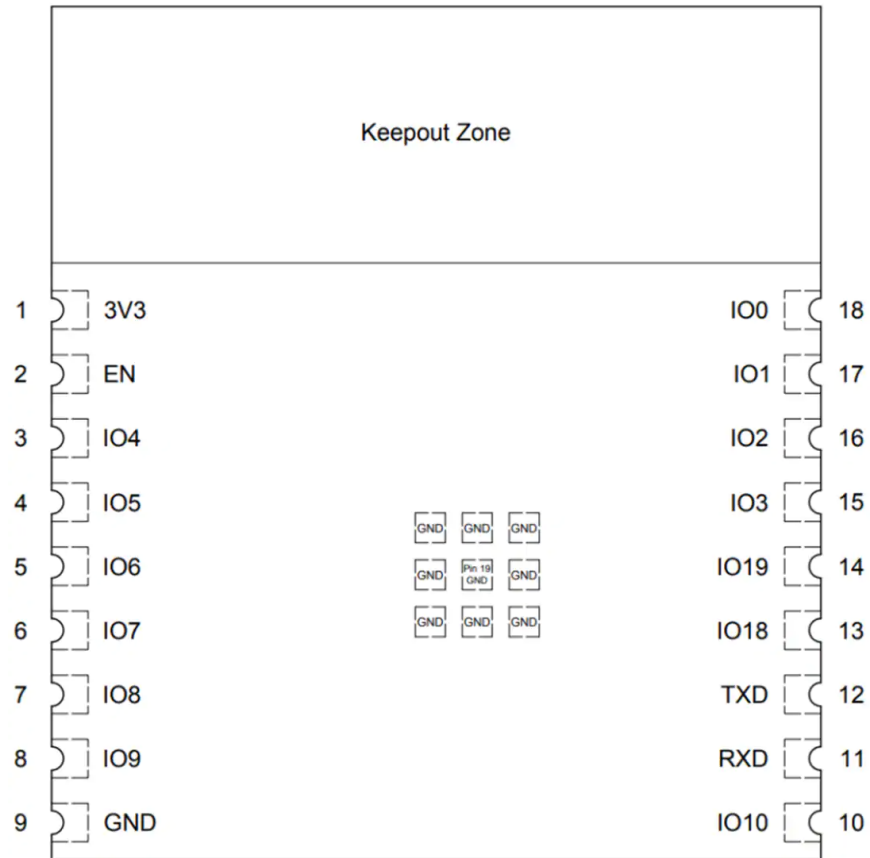For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot DFR0810 ESP32-C3-WROOM-02-N4 Module with PCB Antenna includes ESP32-C3* chip and 4MB embedded Flash, belonging to ESP32-C3 series chip. ESP32-C3 chips have a 32-bit RISC-V single-core processor, SPI, dual SPI, and Quad SPI interfaces. The ESP32-C3-WROOM-02 is a universal Wi-Fi® and low-power BLUETOOTH® LE module. The chips integrate a rich set of peripherals, ranging from UART, I²C, I²S, remote control peripheral, LED PWM controller, general DMA controller, TWAI® controller, USB Serial/ JTAG controller, temperature sensor, and ADC. The rich set of peripherals and small size make the two modules an ideal choice for smart homes, industrial automation, health care and consumer electronics.

Features

- ESP32-C3 embedded, 32-bit RISC-V single-core processor, up to 160MHz
- 384KB ROM
- 400KB SRAM
- 8KB RTC SRAM
- 40MHz crystal oscillator
- 4MB SPI flash
- 3.0V to 3.6V operating voltage/power supply
- -40°C to 85°C operating temperature range

Pin Layout


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                    Keepout Zone

1 ) 3V3                                    IO0 ( 18
2 ) EN                                     IO1 ( 17
3 ) IO4                                    IO2 ( 16
4 ) IO5                                    IO3 ( 15
5 ) IO6          [GND] [GND] [GND]        IO19 ( 14
6 ) IO7          [GND] [Pin 19] [GND]     IO18 ( 13
7 ) IO8          [GND] [GND] [GND]         TXD ( 12
8 ) IO9                                    RXD ( 11
9 ) GND                                   IO10 ( 10
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Mouser Part Number

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To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-esp32-c3-wroom-02-n4-module/