

ESP32-C3-DevKitM-1 Development Board

DFR0807

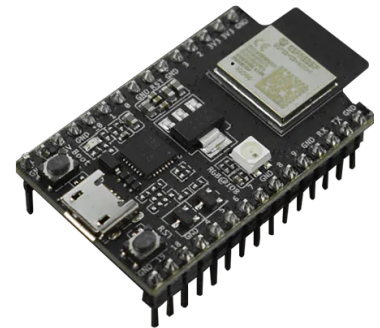
Product Overview

11/07/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot DFR0807 ESP32-C3-DevKitM-1 Development Board is an entry-level development board based on ESP32-C3-MINI-1. This board integrates complete Wi-Fi® and BLUETOOTH® LE functions. The ESP32-C3-DevKitM-1 board includes I/O pins on the ESP32-C3-MINI-1 module which are broken out to the pin headers on both sides of the board for easy interfacing.



The development board includes key components such as ESP32-C3-MINI-1, 5V to 3.3V LOD, %v power ON LED, I/O connector, boot button, micro-USB port, reset button, USB to UART bridge, RGB LED. These components can be connected in peripherals with jumper wires or mounted DFRobot DFR0807 ESP32-C3-DevKitM-1 on a breadboard.

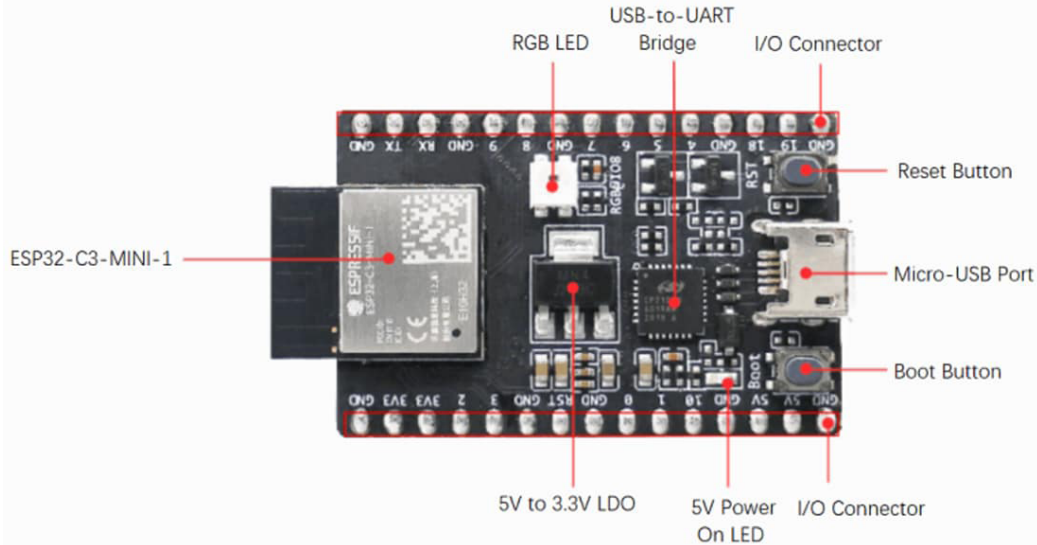
Specifications

- ESP32-C3FN4 embedded, 32-bit RISC-V single-core processor, up to 160MHz
- 384KB ROM
- 400KB SRAM
- 8KB RTC SRAM
- 4MB SPI Flash
- 3V to 3.6V operating voltage/power supply
- -40°C to 85°C operating temperature range

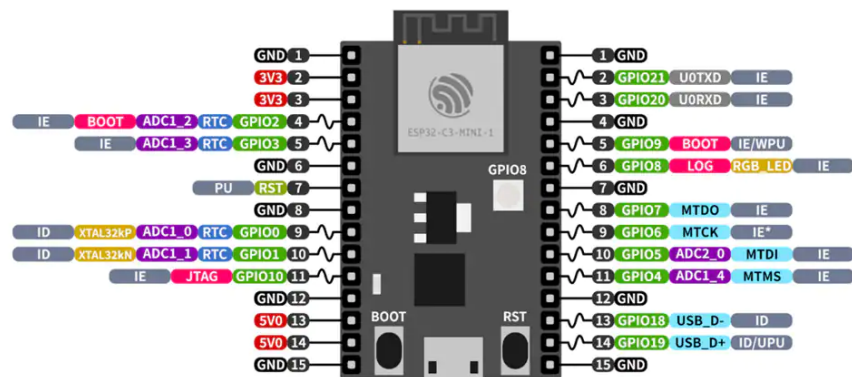
Required Equipment

- ESP32-C3-DevKitM-1
- USB 2.0 cable (Standard-A to Micro-B)
- Computer running Windows, Linux, or macOS

Board Overview



Pin Layout



ESP32-C3 Specs

32-bit RISC-V single-core @160MHz
 Wi-Fi IEEE 802.11 b/g/n 2.4GHz
 Bluetooth LE 5
 400 KB SRAM (16 KB for cache)
 384 KB ROM
 22 GPIOs, 3x SPI, 2x UART, I2C,
 I2S, RMT, LED PWM, USB Serial/JTAG,
 GDMA, TWAI®, 12-bit ADC



RTC RTC Power Domain (VDD3P3, RTC)
 GND Ground
 PWD Power Rails (3V3 and 5V)

GPIO STATE
 WPU: USB Weak Pull-up
 WPU: Weak Pull-up (Internal)
 WPU: Weak Pull-down (Internal)
 PU: Pull-up (External)
 IE: Input Enable (After Reset)
 IE*: Input Enable (Depends of FUSE, DIS, PAD, JTAG)
 ID: Input Disabled (After Reset)
 OE: Output Enable (After Reset)
 OD: Output Disabled (After Reset)

Mouser Part Number

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