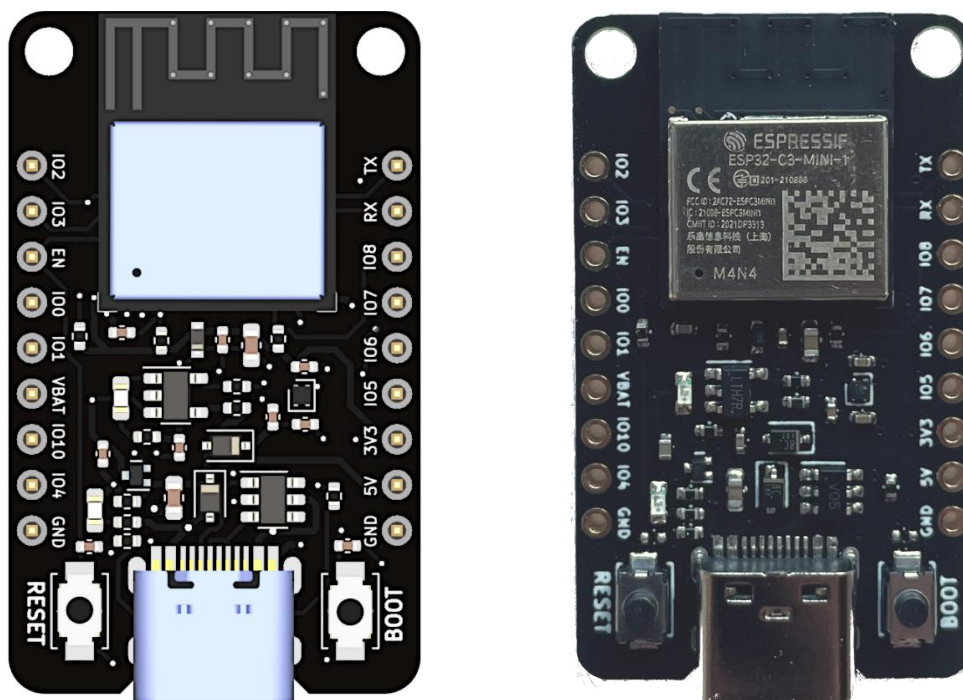


# Quick Start Guide

## ESP32-C3 Development Board



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## Description

### Overview

- Development Board with ESP32-C3-MINI-1-N4 Modul
- Single-Core CPU up to 160MHz with PCB-Antenna
- 4MB Flash, 384KB ROM, 400KB SRAM und 8KB SRAM in RTC
- Simple programming with Arduino IDE or VS-Code
- WiFi 2.4GHz (IEEE 802.11 b/g/n) and Bluetooth LE/Bluetooth Mesh
- Perfect for IoT-Applications
- Power Input and programming via USB-TYP-C
- Reset and Boot Button, for getting into Download Mode
- Integrated Battery Power Management IC. Battery charging via USB Connector.
- Output Voltage 5V and 3,3V
- 12 programmable GPIOs
- I2C, SPI, USART Communication Interfaces for Sensors, actuators displays etc.
- Included Pin Headers 2x9

### Power Delivery

- Regulated Powerinput 5V (min. 500mA)
- Powerinput via VBAT-Pin with Li-Po/Li-Ion Battery (Max 4.2V).
- On Board 3.3V 700mA Voltage Regulator



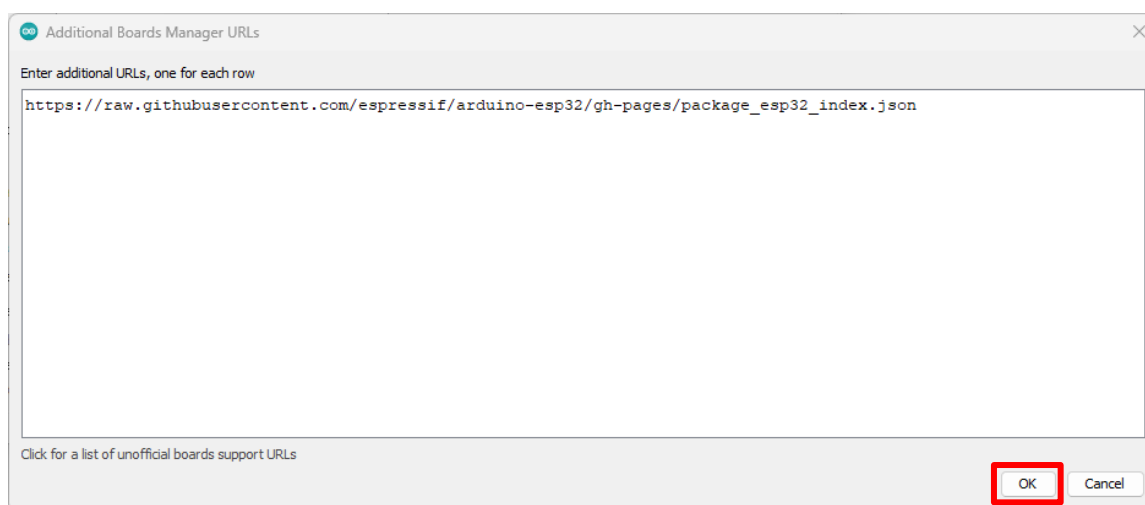
## Setup Arduino IDE

**Step 1:** Open Arduino IDE

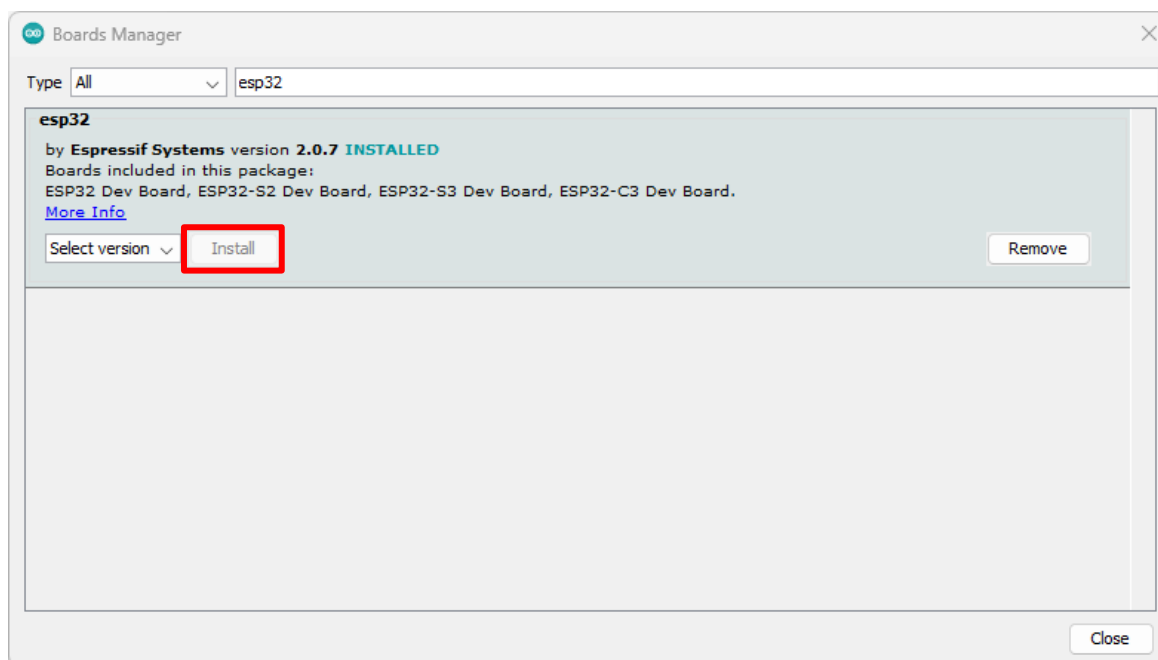
**Step 2:** File -> Preferences

**Step 3:** Add following link to the Board Manager-URLs and confirm with **OK**.

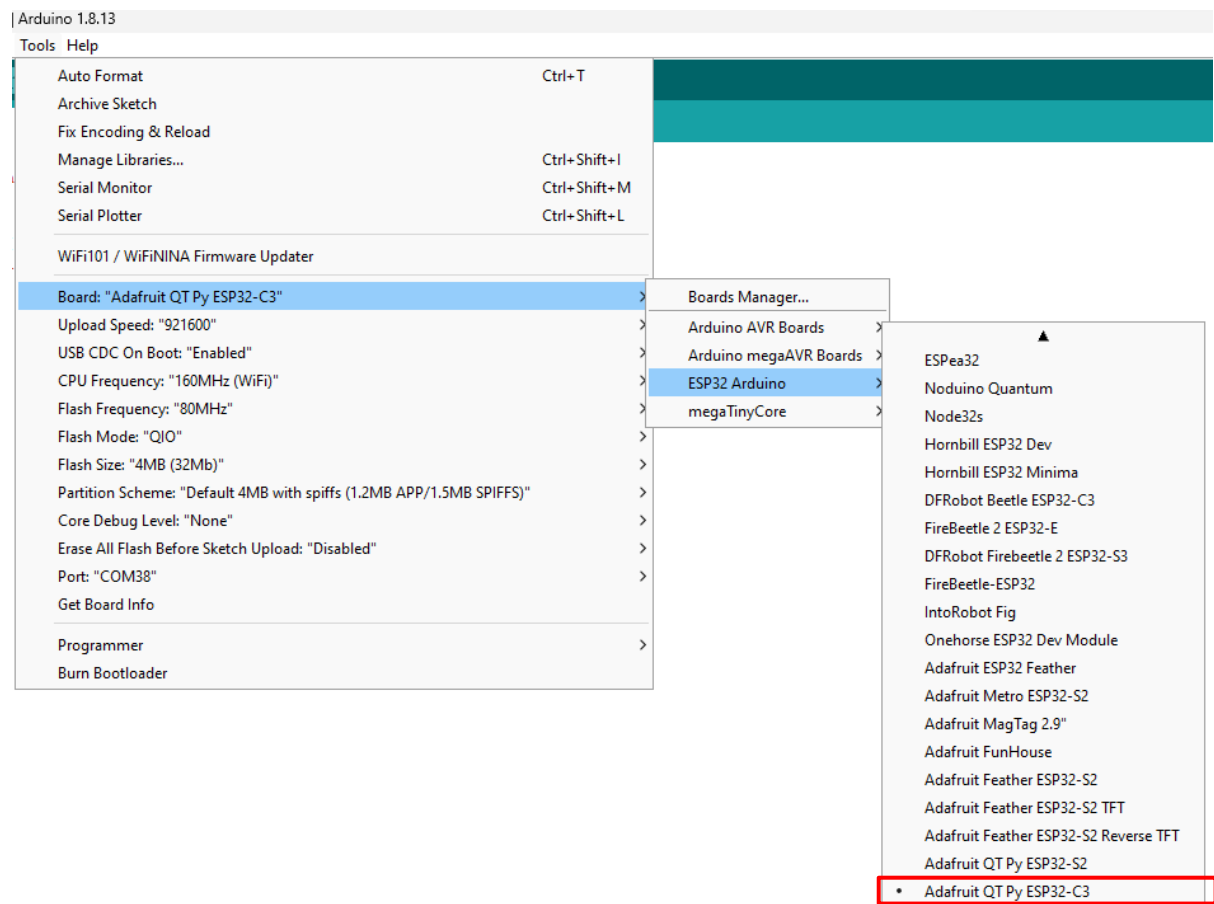
[https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package\\_esp32\\_index.json](https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json)



**Step 4:** Open the Board Manager and search for **esp32**. Then press Install.



**Step 5:** Choose Tools -> Board -> ESP32 Arduino -> Adafruit QT Py ESP32-C3.

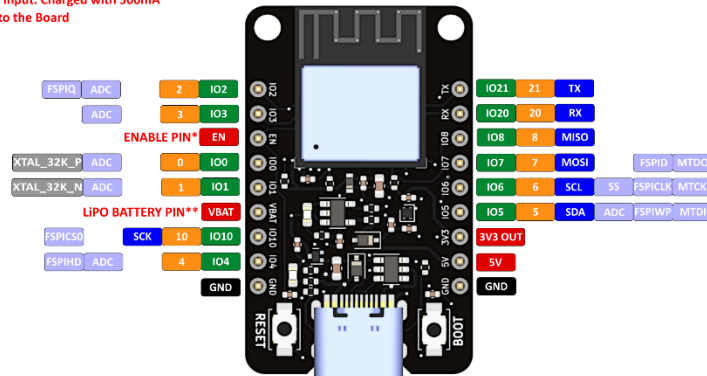




## ESP32-C3 Dev Board Pinout

- POWER
- GND
- REFERENCE PIN
- PROGRAMMING PIN
- PRIMARY FUNCTION
- SECONDARY FUNCTION
- CLOCK

\*Internal Pullup. Module off when input is low.  
\*\*4.2V LIPO Battery Input. Charged with 500mA  
when 5V is applied to the Board



## ESP32-C3 Board Dimensions

