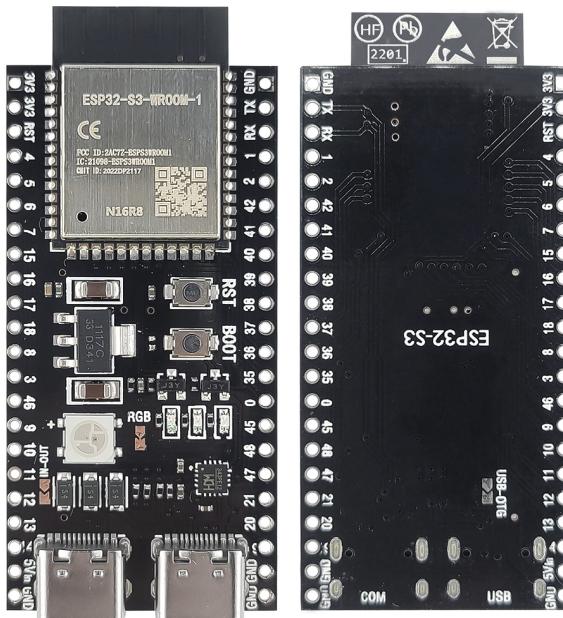


ESP32 S3 Development Board

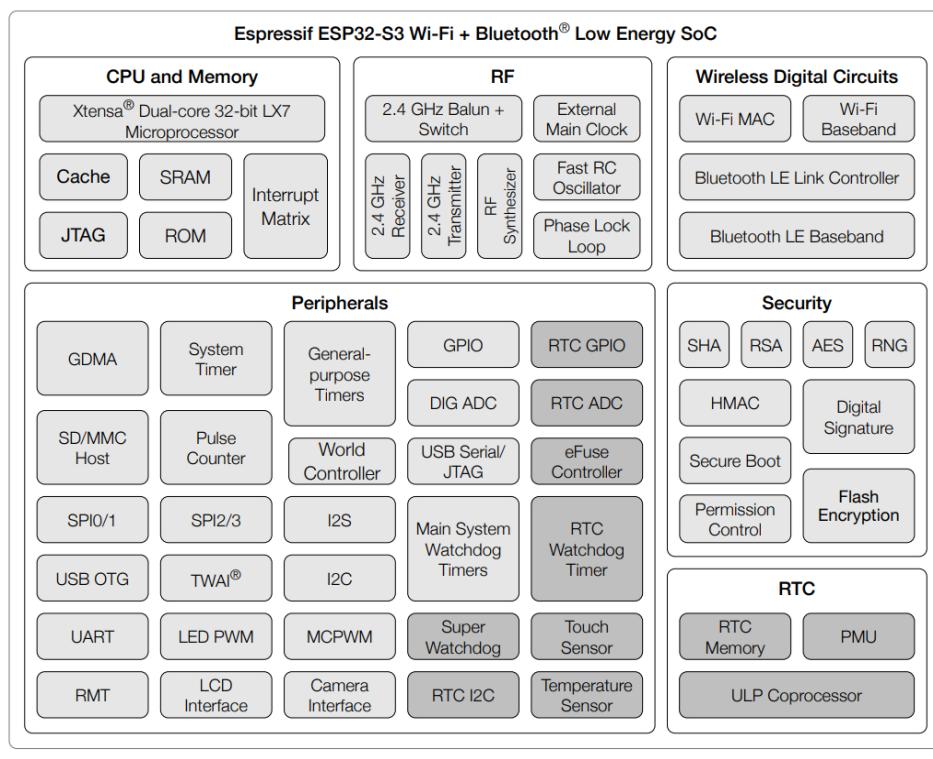
N8R2/N168R CH343P Serial with USB Micro Type-C



Product Overview

ESP32-S3 is a low-power MCU-based system on a chip (SoC) with integrated 2.4 GHz Wi-Fi and Bluetooth® Low Energy (Bluetooth LE). It consists of high-performance dual-core microprocessor (Xtensa® 32-bit LX7), a low power coprocessor, a Wi-Fi baseband, a Bluetooth LE baseband, RF module, and numerous peripherals.

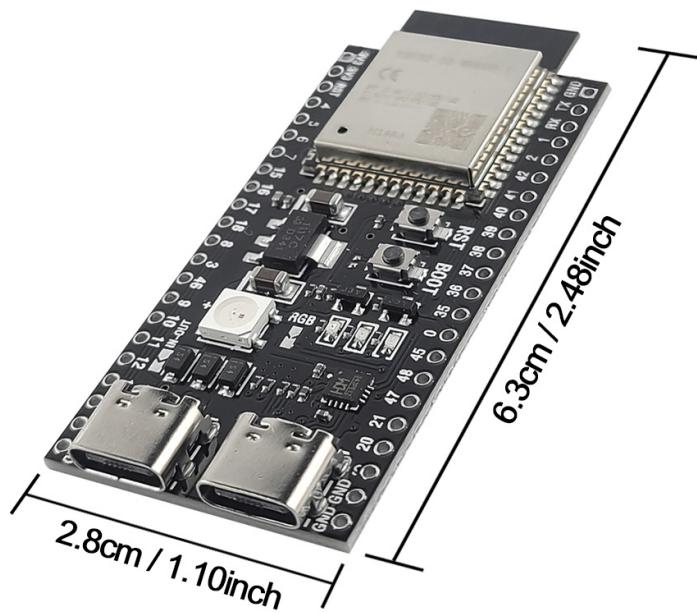
The functional block diagram of the SoC is shown below.



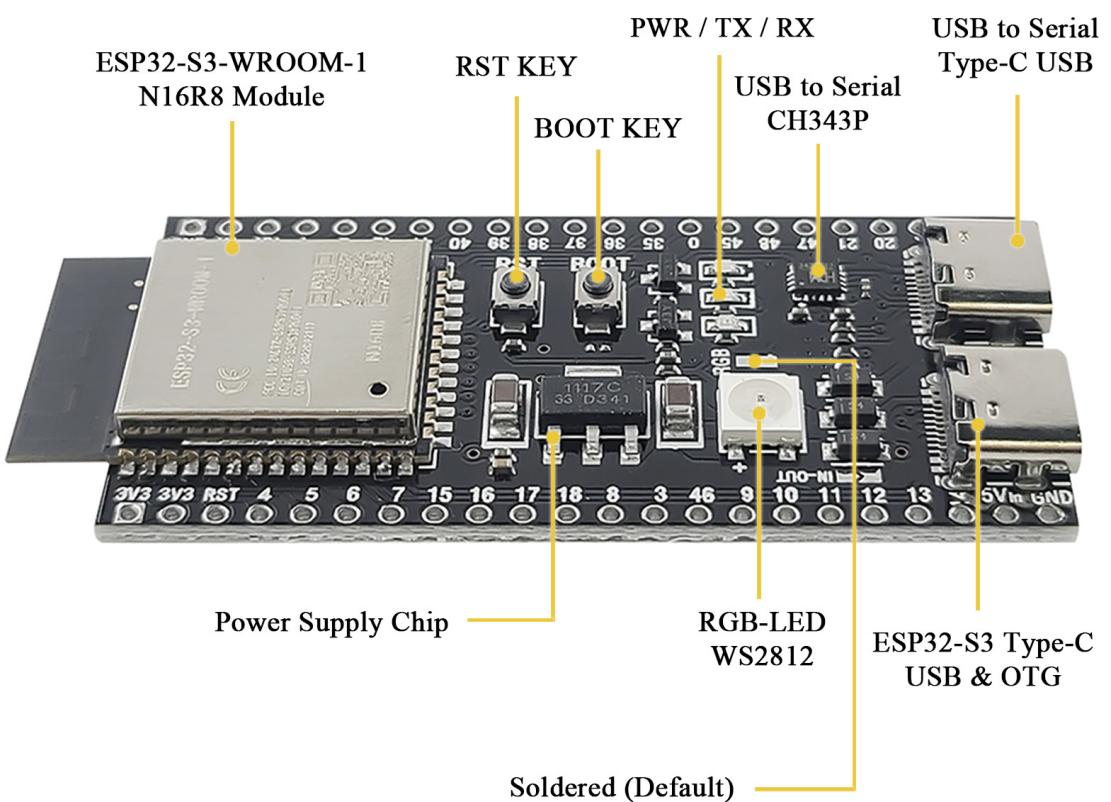
Power consumption

Normal

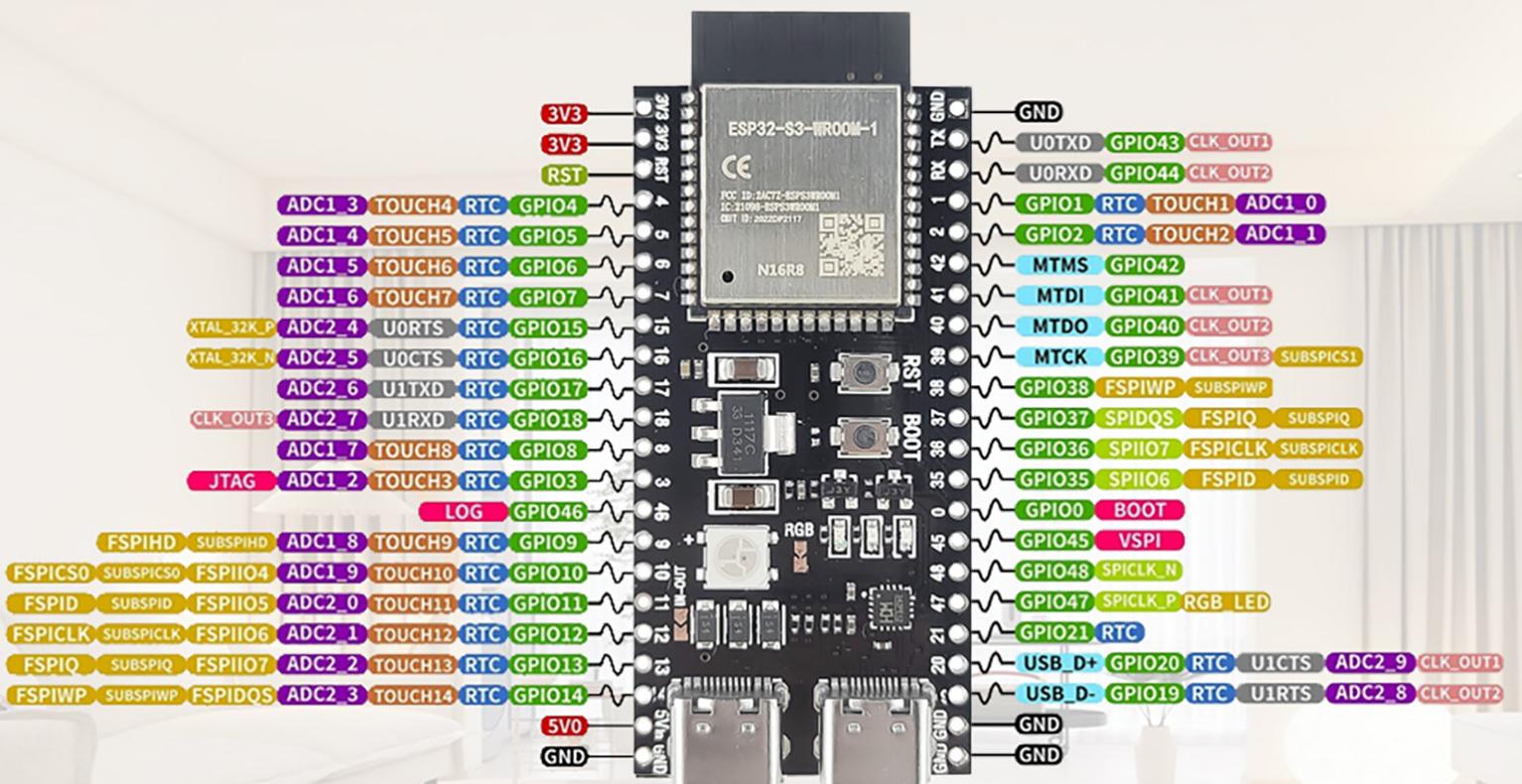
Low power consumption components capable of working in Deep-sleep mode



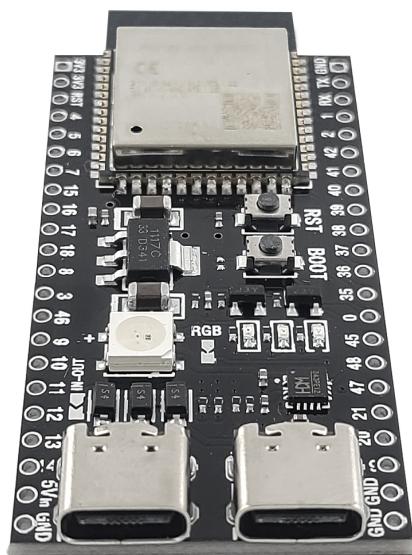
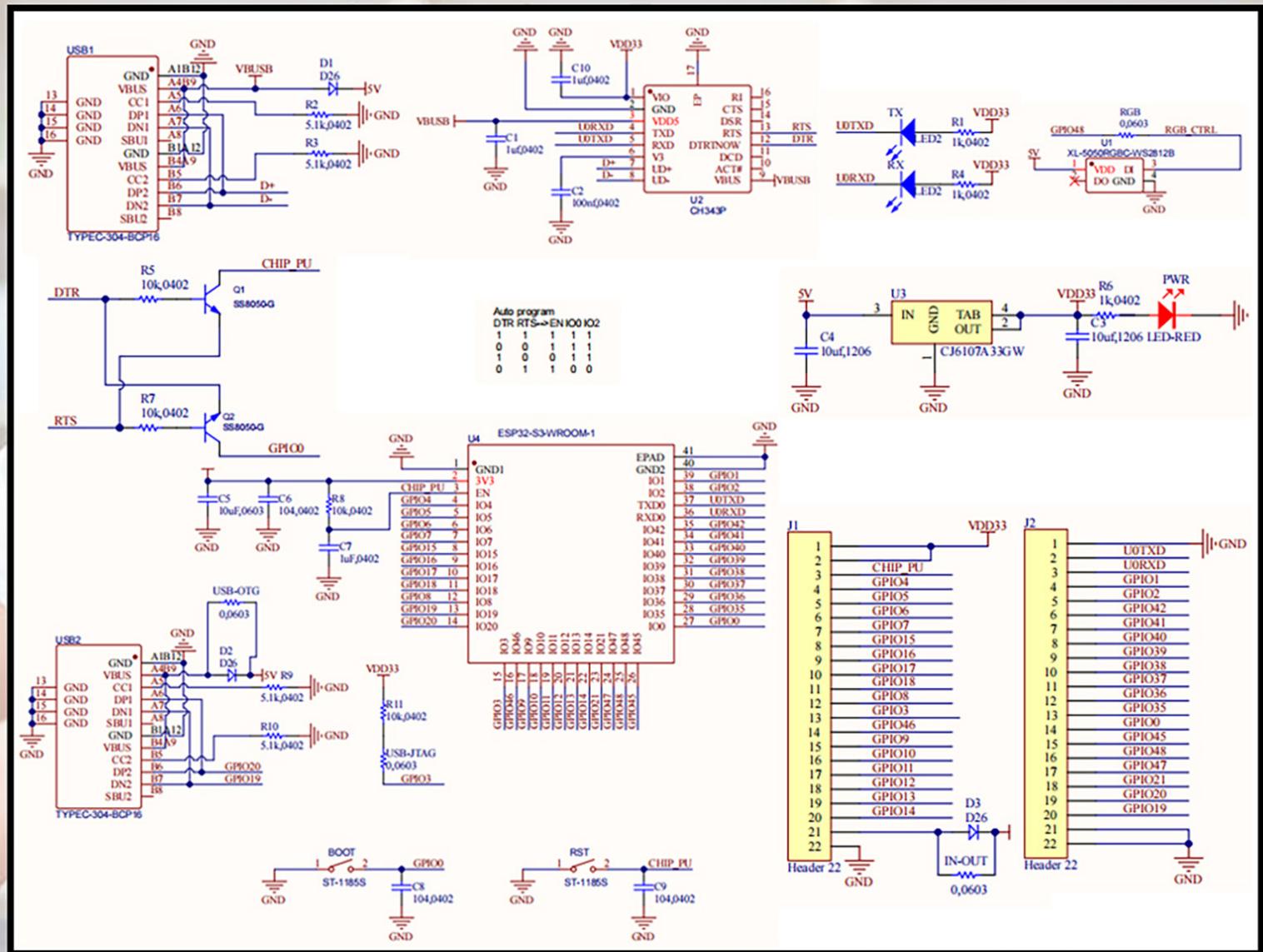
★ Hardware Introduction

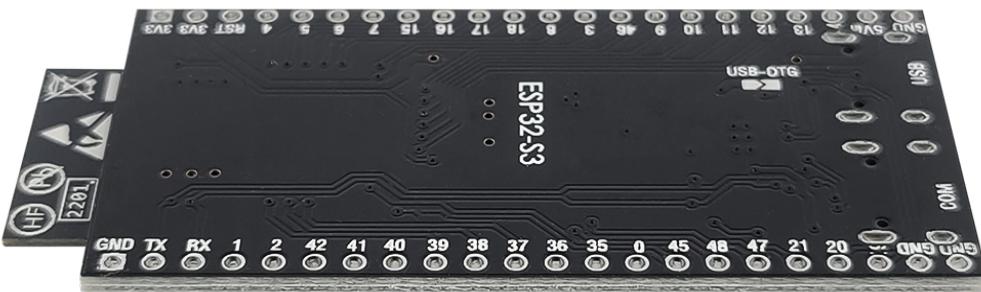


— Pin Definitions —



Schematic





ESP32-S3 IDE software using python

ESP32-S3 can be programmed and controlled using Micropython for the Python language IDE is recommended to use the MIT-licensed Thonny software developed at the University of Estonia.

```

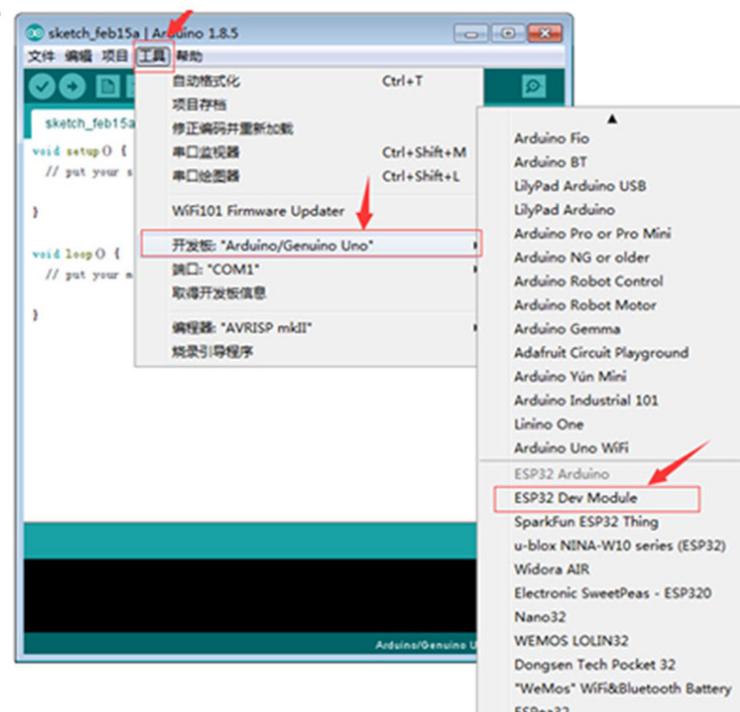
import machine, neopixel
n = 1
p = 8
np = neopixel.NeoPixel(machine.Pin(p), n)
np[0] = (255, 0, 0)
np.write()

```

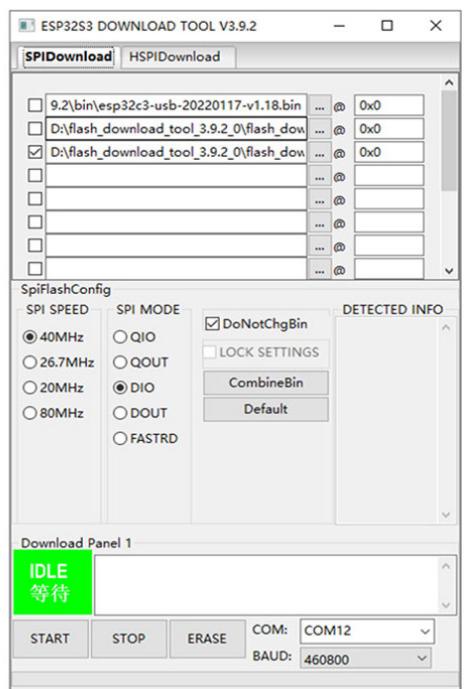
Shell >>> %Run -c \$EDITOR_CONTENT

MicroPython v1.17 on 2021-09-03; ESP32C3 module with ESP32C3

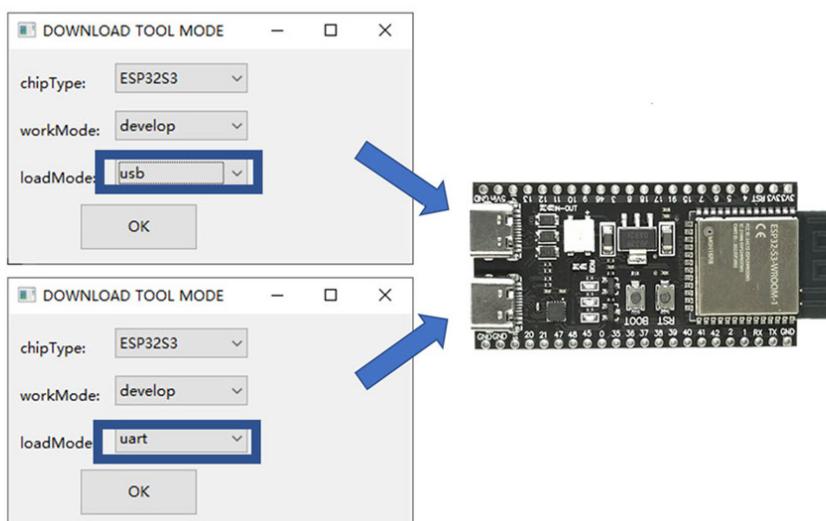
ESP32-S3 using Arduino's IDE software



ESP32-S3 Download Burn File Software



About ESP32-S3 how to Download



Instruction Manual and Tool Code:

<https://drive.google.com/drive/folders/1pUhX27FFflQ1B9MJt1R6m3KUoKkXrxL?usp=sharing>