

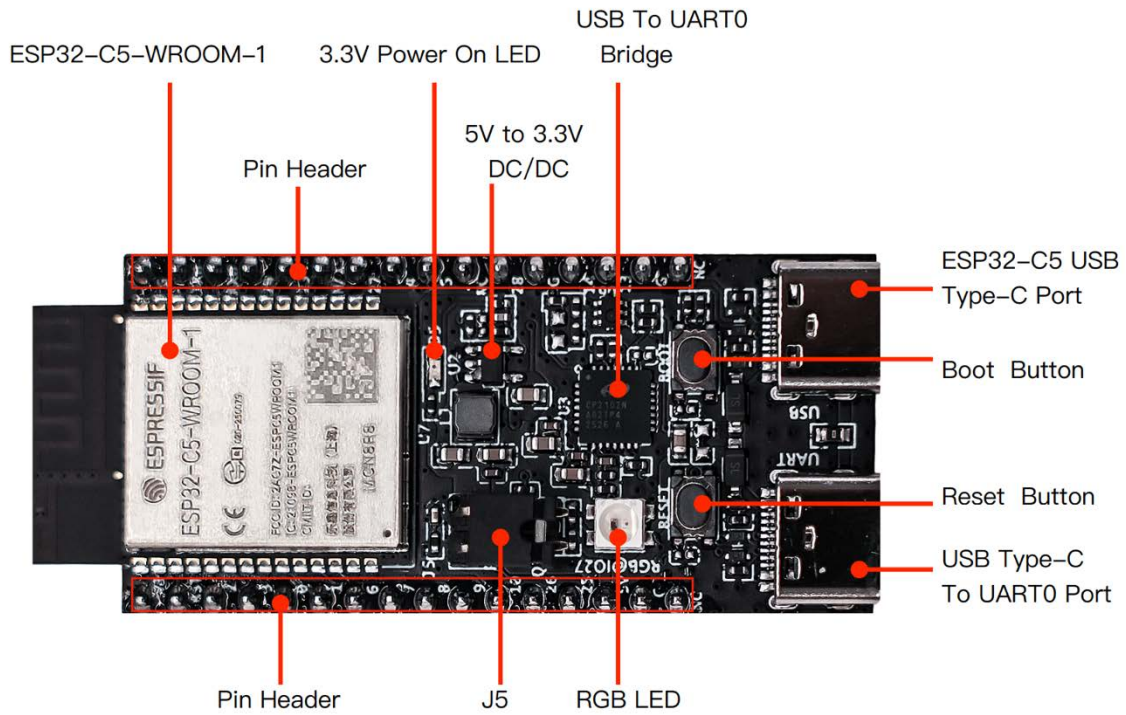
ESP32-C5-DevKitC-1 v1.2 N16R8



Features:

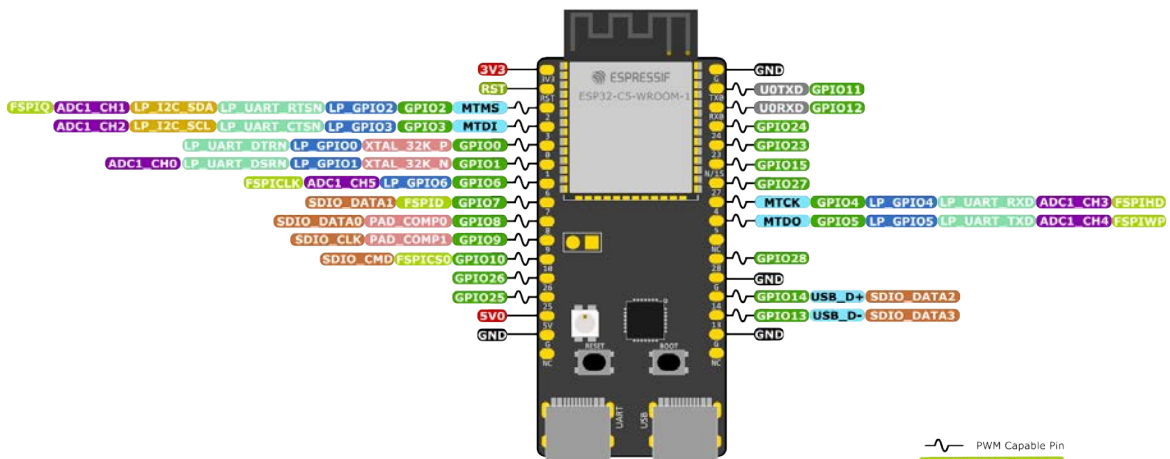
The ESP32-C5-DevKitC-1 v1.2 N16R8 is an entry-level development board based on the ESP32-C5-WROOM-1(U) module with integrated Wi-Fi, Bluetooth LE, Zigbee, and Thread functions. It includes USB Type-C ports for power, flashing, communication, and JTAG debugging, with available GPIO pins broken out to pin headers.

Specifications	
Product Name	ESP32-C5-DevKitC-1 v1.2 N16R8
Module	ESP32-C5-WROOM-1(U)
Wireless Functions	Wi-Fi, Bluetooth LE, Zigbee, Thread
Wi-Fi	Wi-Fi 6, 2.4GHz and 5GHz dual-band, 802.11ax
Bluetooth	Bluetooth 5 LE
Zigbee and Thread	802.15.4
Antenna	On-board PCB antenna
GPIO Access	All available GPIO pins except SPI bus for flash are broken out to pin headers
Power Regulator	5V to 3.3V DC/DC
Power LED	3.3V power on LED
USB-to-UART Bridge	Single-chip USB-to-UART bridge
USB-to-UART Transfer Rate	Up to 3Mbps
ESP32-C5 USB Port	USB Type-C
ESP32-C5 USB Speed	USB 2.0 full speed up to 12Mbps
ESP32-C5 USB Usage	Power supply, flashing applications, USB communication, JTAG debugging
USB Type-C to UART Port	Power supply, flashing applications, communication via on-board USB-to-UART bridge
Boot Button	Firmware Download mode
Reset Button	Restart system
RGB LED	Addressable RGB LED driven by GPIO27
J5	Current measurement
Usage	Wi-Fi, Bluetooth LE, Zigbee, Thread, firmware flashing, USB communication, JTAG debugging projects



Pinouts:

ESP32-C5-DevKitC-1



ESP32-C5 Specs

32-bit RISC-V single-core @240MHz
 Wi-Fi 6 IEEE 802.11 ax 2.4 and 5 GHz +
 Bluetooth LE + IEEE 802.15.4 (Zigbee and Thread)
 384 KB SRAM
 320 KB ROM
 29 GPIOs, 2x SPI, 2x UART, 1x I2C, RMT
 LED PWM 6ch, 1x 12-bit ADC with 6ch, CAN FD
 USB Serial/JTAG, ETM, MCPWM

-  PWM Capable Pin
-  Fast SPI Functions
-  General Purpose Input / Output
-  Low-Power UART Functions
-  Low-Power I2C Functions
-  SDIO Functions
-  Other Related Functions
-  Strapping Pin Functions
-  JTAG for Debugging and/or USB
-  Analog-to-Digital Converter
-  Serial for Debug/Programming
-  Ground Plane
-  Power Rails (3V3 and 5V)
-  Low-Power GPIO Functions