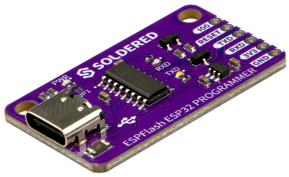
PRODUCT DATASHEET

ESPFlash ESP32 Programmer



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The ESPFlash ESP32 Programmer simplifies firmware flashing for ESP32/ ESP8266 boards with USB-C connectivity and automatic bootloader mode.

Full product documentation, files and tutorials: **solde.red/333398**

CORE ATTRIBUTES

SKU **333398**

WEIGHT **20 g**

BARCODE **732388636808**

DESCRIPTION

ESPFlash programmer is designed for simple programming of boards based on **ESP32** and **ESP8266** microcontrollers. It's used to flash firmware onto boards that lack a built-in **USB-to-serial** converter, whether during development or when programming boards before they ship. It includes all the electronics and logic needed to flash firmware by plugging a **USB-C** cable into the programmer and connecting it to the programming header. On-board circuitry handles the timing and signal sequence to put the ESP microcontroller into bootloader mode automatically.

The board has a 6-pin header with GPIO0, RESET, RX, TX, 3V3, and GND. It uses the **CH340** USB-to-UART chip and connects via USB-C. We have made this board open-source, so all hardware design files are available for you to inspect or adapt. Our technical support is also there if you need help getting started.

It works with the **Arduino IDE** and with MicroPython firmware uploads via esptool, along with other standard ESP flashing tools. Installing the CH340 driver is all the setup required on the software side. Two mounting holes for M3 screws allow for secure installation, and at 38 × 22 mm it takes up minimal space in any build. Full setup and usage instructions are available in the Soldered documentation.

TECHNICAL DETAILS

- **IC:** CH340
- **Pin layout:** GPIO0, RESET, RX, TX, 3V3, GND
- **LEDs:** RX, TX, power
- **USB:** USB-C
- **Dimensions:** 38 × 22 mm / 1.5 × 0.9 inch

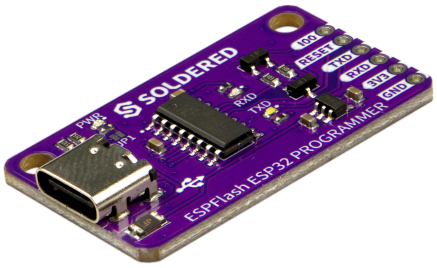
SPECIFICATIONS

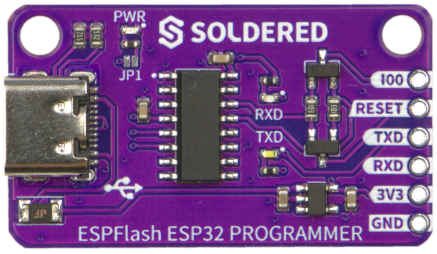
INTERFACE	Usb, Uart
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	CH340C
LOGIC LEVEL	3V3 Only

LINKS

Full Documentation	https://docs.soldered.com/espflash-programmer/overview/
Hardware Details	https://docs.soldered.com/espflash-programmer/hardware/

GALLERY


SOLDERED
PWR
JP1
RXD
TXD
IO0
RESET
TXD
RXD
3V3
GND
ESPFlash ESP32 PROGRAMMER


PWR
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GND
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