



## ESP32-EVB

**ESP32-EVB DEVELOPMENT BOARD WITH WIFI BLE ETHERNET MICRO SD CARD UEXT AND GPIO**

- **ESP32-EVB-EA**

ESP32-EVB is OSHW certified Open Source Hardware with UID BG000011

This is the ultimate IoT board with wired 100Mb Ethernet Interface, Bluetooth LE, WiFi, Remote control IR, and CAN connectivity. The board can operate with single LiPo backup battery like UPS as it has an internal LiPo battery charger (no step-up converter, so relays, CAN and USB power would not work over battery). Two relays allows you to switch power appliances on and off.

## FEATURES

- ESP32-WROOM32 module
- Built-in programmer for Arduino and ESP-IDF
- WiFi, BLE connectivity
- Ethernet 100Mb interface
- MicroSD card
- 2 x 10A/250VAC (15A/120VAC 15A/24VDC) relays with connectors and status LEDs
- CAN interface
- IR received and transmitter, up to 5 meters distance
- LiPo charger for stand alone operation during power breaks with 4 status LEDs
- Power jack for external power supply, 5V
- UEXT connector to connect UEXT modules
- GPIO 40 pin connector with all ESP32 ports
- Dimensions: (75 x 75)mm ~ (2.95 x 2.95)"

## DOCUMENTS

- [ESP32-EVB latest schematic in PDF format](#)

## HARDWARE

- [GitHub repository for the hardware design](#)

## SOFTWARE

- [ESP-IDF software demos for ESP32-EVB at GitHub](#)
- [Works with Arduino for ESP32](#)

### **USB drivers:**

- [USB driver for Windows](#)
- [USB driver for Linux \(for old kernels; pre-3.14.x\)](#)
- [USB driver for Mac](#)
- [USB driver for Android](#)

## NOTICE

- [Evaluation Board/Kit Important Notice](#)

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