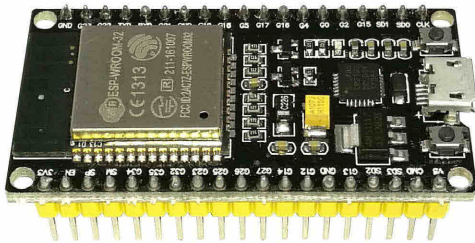


ESP32-DEV-KIT (A-IC-M-00071)

This Board ESP32-DEV-KIT is additionally improved and developed from Board NodeMCU LUA WIFI, the new version has higher speed, more I/O, and added BLUETOOTH 4.2; so, it is more convenient to do various IOT Projects.

| Característica | ESP8266 | ESP32 |
|--------------------------------|---|---|
| Procesador | Tensilica LX106 32 bit a 80 MHz (hasta 160 MHz) | Tensilica Xtensa LX6 32 bit Dual-Core a 160 MHz (hasta 240 MHz) |
| Memoria RAM | 80 kB (40 kB disponibles) | 520 kB |
| Memoria Flash | Hasta 4 MB | Hasta 16 MB |
| ROM | No | 448 kB |
| Alimentación | 3.0 a 3.6 V | 2.2 a 3.6 V |
| Rango de temperaturas | -40°C a 125°C | -40°C a 125°C |
| Consumo de corriente | 80 mA (promedio), 225 mA máximo | 80 mA (promedio), 225 mA máximo |
| Consumo en modo sueño profundo | 20 uA (RTC + memoria RTC) | 2.5 uA (10 uA RTC + memoria RTC) |
| Coprocador de bajo consumo | No | Sí. Consumo inferior a 150 uA |
| WiFi | 802.11 b/g/n (hasta +20 dBm) WEP, WPA | 802.11 b/g/n (hasta +20 dBm) WEP, WPA |
| Soft-AP | Sí | Sí |



SPECIFICATIONS OF BOARD

- Use MODEL ESP32 "ESP-WROOM-32" from ESPRESSIF that has already provided WIFI (802.11 b/g/n/e/i) and BLUETOOTH 4.2 inside the MODULE, MCU Architecture as Tensilica LX6 DUAL CORE, at a maximum speed of 240 MHz (600 DMIPS), 520 KBYTE RAM, 4 MBTE FLASH PROGRAM with PCB ANTENNA
- Use IC USB TO UART No.CP2102 from SILICON LABS, there is no any problem about connecting to USB PORT on OS; and DOWNLOAD programs from Arduino IDE to board directly
 - Have 32 GPIO; some Pins can do more than 1 task
 - 10-CH CAPACITIVE TOUCH
 - 3-CH UART
 - 18-CH 12-BIT A TO D, 2-CH 8-BIT D TO A
 - 3-CH SPI
 - 2-CH I2C
 - 16-CH PWM
- Support various languages
 - Arduino-ESP32 uses C Language of Arduino IDE for writing
 - LUA Language
 - PYTHON Language
 - JAVA SCRIPT Language
- Power Supply for Board is from PORT USB 5 VDC (500 mA or higher)
- PIN HEADER 19 x 2 (2.54 mm.)
- PCB Size: 55 x 28 mm.
- Use Connector as USB MICRO Type

OPTION: Cable USB/MICRO

CABLE USB/MICRO 1M (A-CB-A-00045)



Cable USB is 1 meter long. One terminal is Connector TYPE A for connecting to computer and another one side is Connector MICRO USB TYPE B MALE for connecting to board.

(*This Board is imported from abroad, there is no any warranty for this model***)**

Further Information

- For more information about Circuit and how to install ESP-DEV-KIT, please read <https://etteam.com/>
- For more information about Driver of CHIP CP2102 USB to UART to be used with Windows 7/8/8.1/10, please read <https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers>
- For more information about ESP-WROOM-32, please read <https://www.espressif.com/en/products/hardware/esp32/overview>
- For more information about ESP-IDE, please read <https://github.com/espressif/esp-idf/releases>