



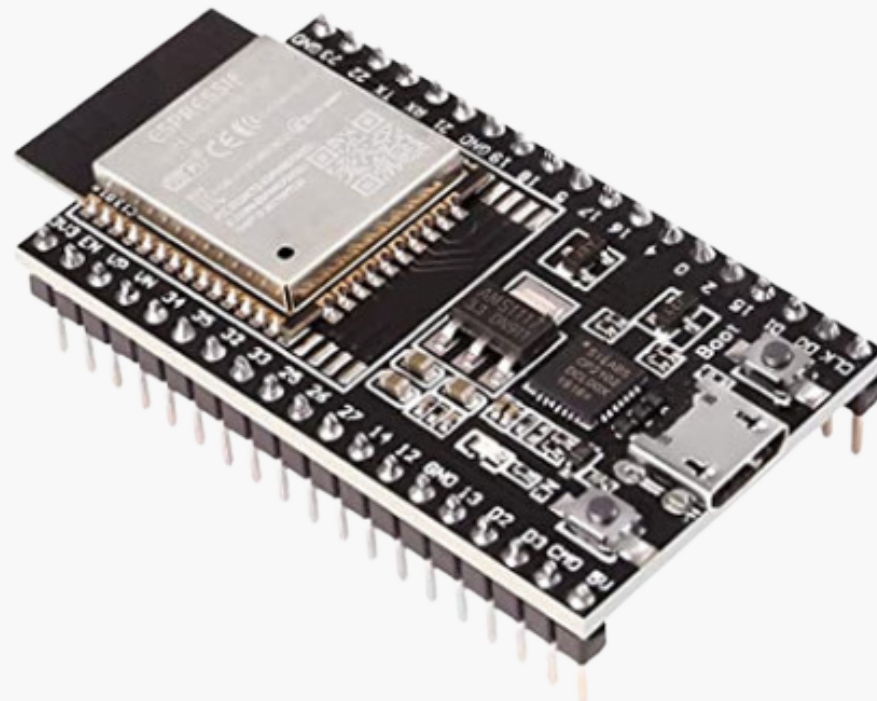
ICowCare

IoT Solution Proposition



Development board

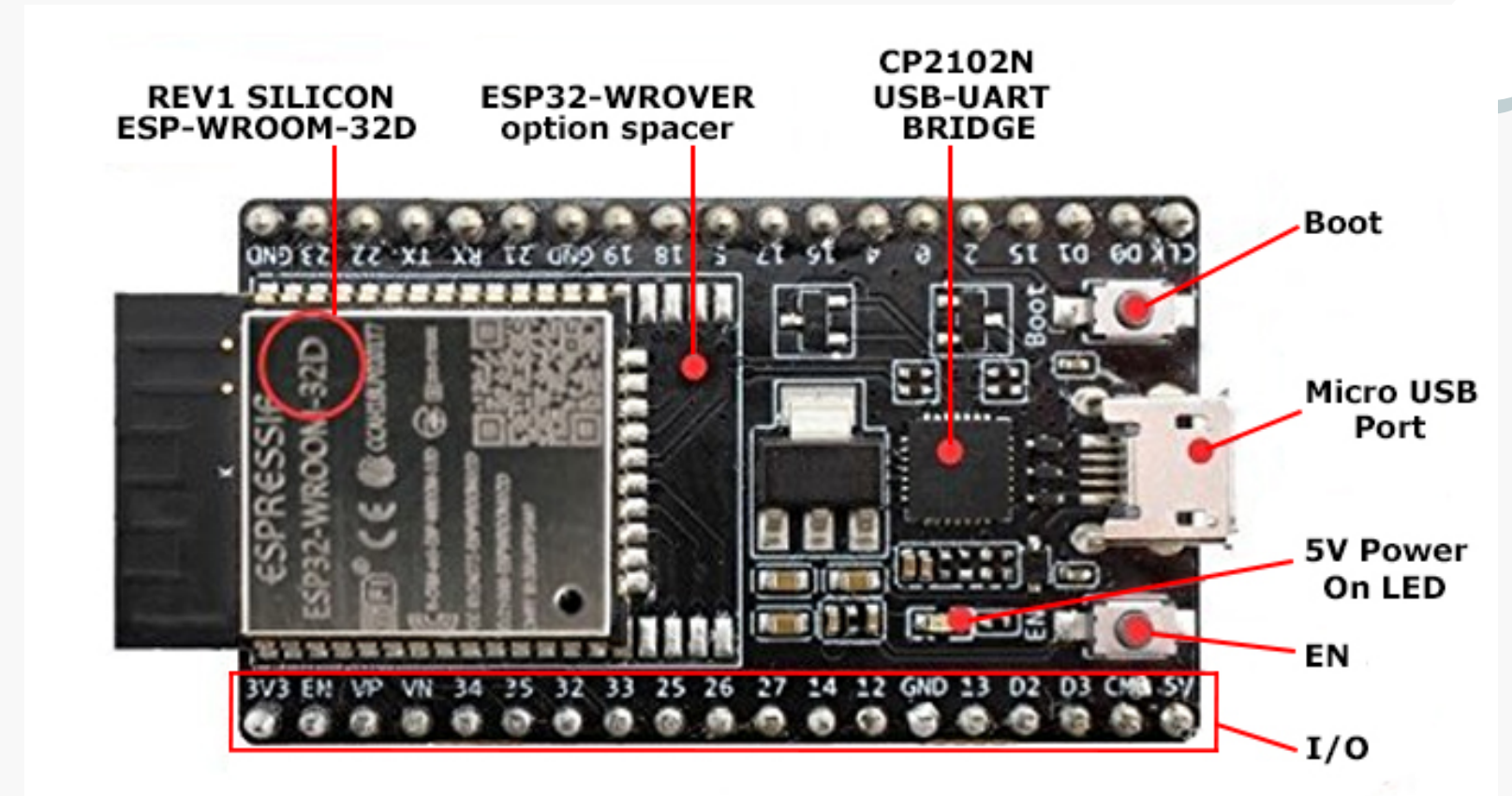
ESP32-DevKitC V4 ESP32 WROOM 32D



Price :42 TND

Datasheet ESP32-DevKitC V4

Datasheet ESP32 WROOM 32D



- CPU clock frequency is adjustable from 80 MHz to 240 MHz
- Integrated SPI flash: 4MB
- Operating Voltage/Power Supply: 3V ~ 5V
- Operating Current Average: 80 mA
- Minimum Current Delivered by Power Supply: 500 mA
- Operating Temperature: -40 °C ~ +85 °C
- Moisture Sensitivity Level (MSL): Level 3
- Dimensions: 54.4 x 27.9mm
- Weight: 10g

Power Supply

Lithium battery CR123/CR123A



CR123A 3V
1300MAH
Price :9.5TND
Seli.tn



ANSMANN 3V
1500MAH
Price :15.5TND
brico-direct.tn



Huiderui 3V
1600MAH
Price :17TND
jumia.tn

Datasheet CR123A ANSMANN

- These keep a voltage of 3V quite constant, at less than 2.7 volts more than 90% of the capacity of a lithium battery is used, at 2.55 volts it is practically empty. Lithium batteries also provide the high short-term power requirements of WiFi operation without any problems. For example, a **Varta CR123 (3V, 1700 mAh)** can even be used in standby mode for over 5 years, depending, of course, on how often the ESP32 wakes up and has to do something, or how long and how often WiFi or Bluetooth is used.
- As lithium batteries have a very low self-discharge and also function well at -20 °C, these are to be preferred.

Battery Life Calculator