

Introduction to Hardware

Embedded System Peripherals

Agenda

- Basic concepts
- Embedded peripherals and interfaces
- Embedded system architecture and products
- Basic IoT stack

Basic Embedded Systems

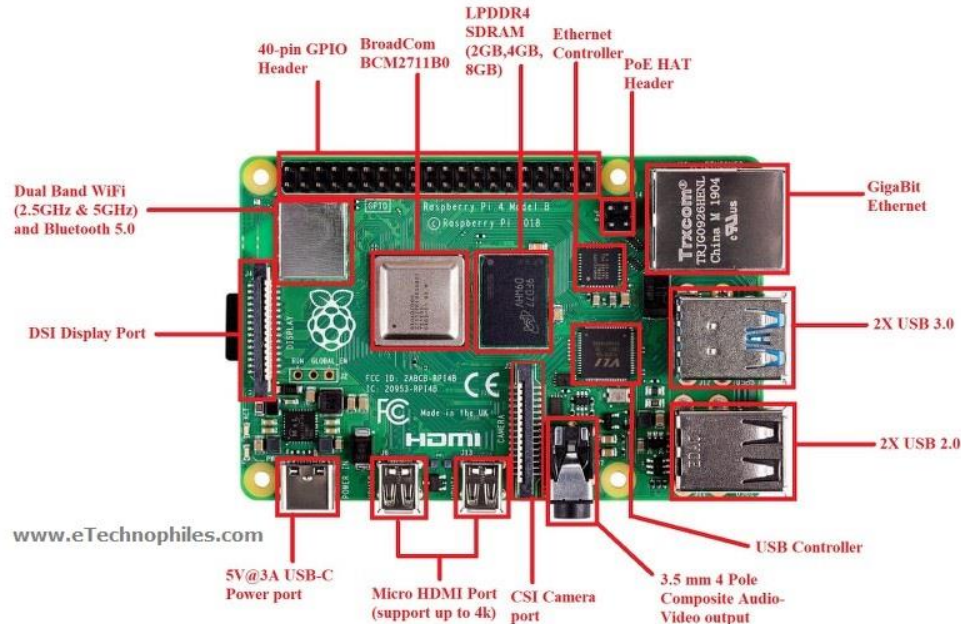


Source : Arduino.cc



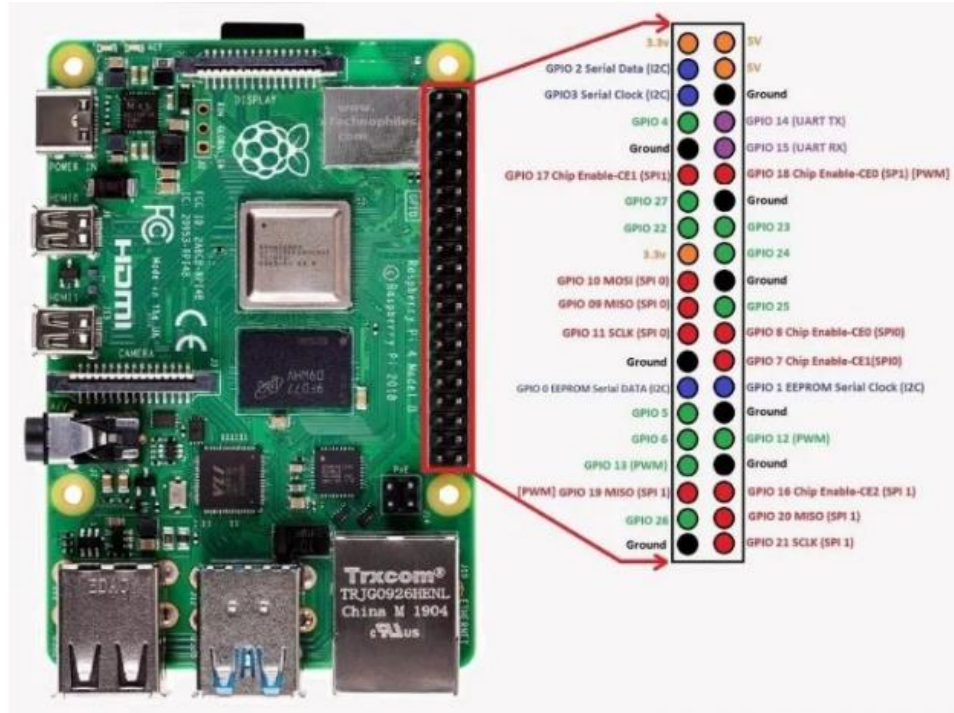
Source : Raspberrypi.org

Embedded System Peripheral (MPU)



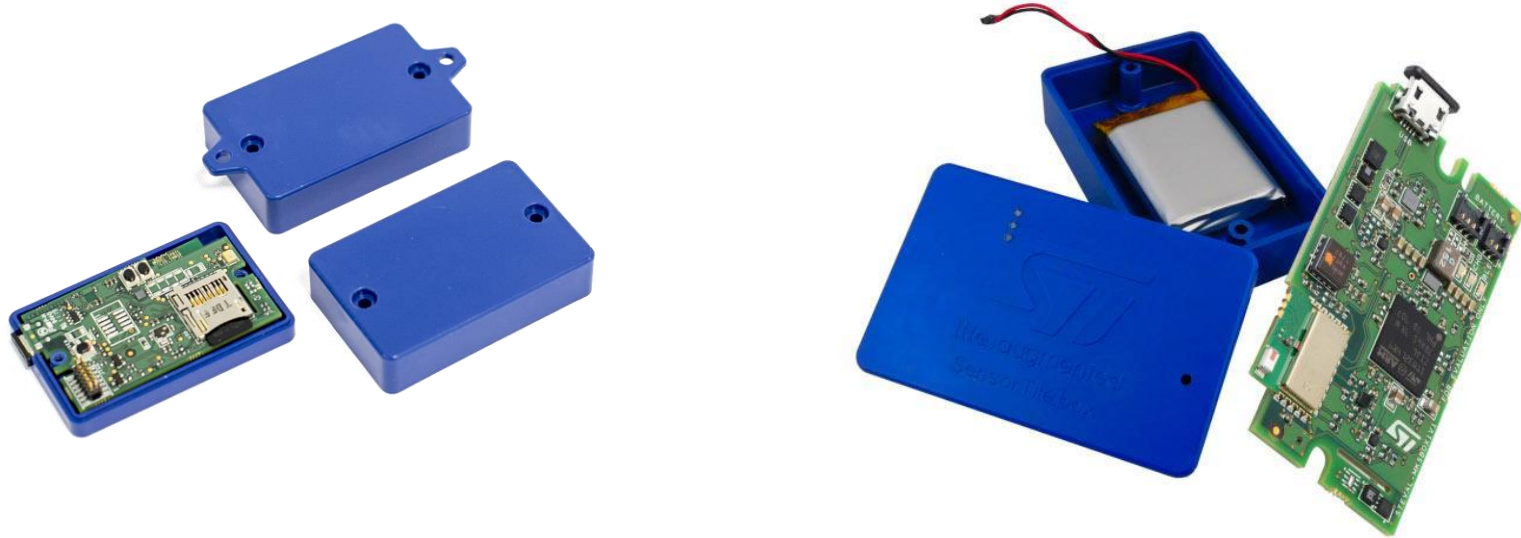
Source : www.eTechnophiles.com

Embedded System Peripheral (MPU)



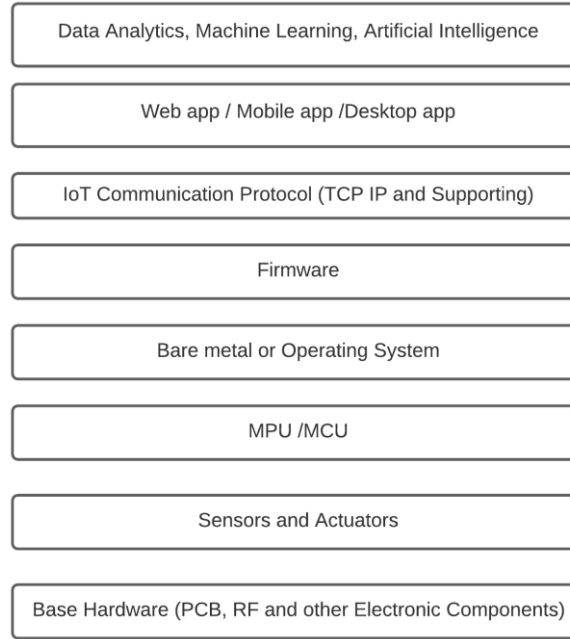
Source : www.eTechnophiles.com

Embedded System Product (32 bit ARM)

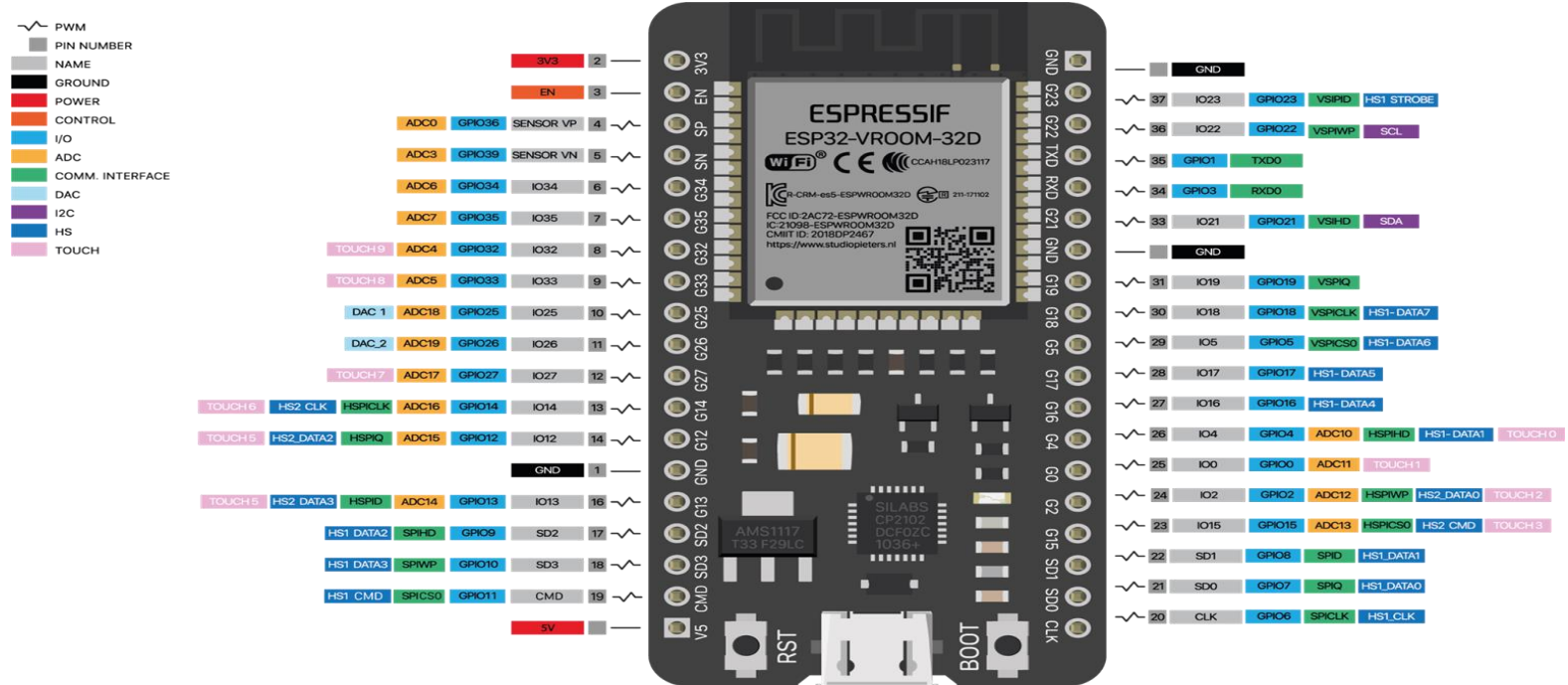


Source : STmicroelectronics - SensorTile Box

IoT Stack



IoT Supported Systems



Source :<https://raw.githubusercontent.com/AchimPieters/esp32-homekit-camera/master/Images/ESP32-38%20PIN-DEVBOARD.png>

The End