

R-Pi

Team Emertxe



Overview



Overview

R-Pi: What?

- `Raspberry Pi` is a computer that runs the Linux OS
- Contains:
 - `USB Sockets` - Keyboard + Mouse can be plug
 - `HDMI video output` - To connect the monitor
 - `Camera Connector`
 - `Micro-SD` Card holder
 - `etc`

Overview

R-Pi: A Trip around it

- Models of R-Pi
 - R-Pi Model A+
 - R-Pi Model B+
 - R-Pi 2
 - R-Pi 3
 - R-Pi Zero

Overview

R-Pi: Model A / B

- Original R-Pi Models
- Both had same Broadcom BCM2835 SoC CPU
- Differs in specifications

Properties	Model - A	Model - B
RAM	256 MB	256 / 512 MB
USB Port	Single	Double
Networking Capabilities	No	10 / 100 wired network port

Overview

R-Pi: Model A+ / B+

- Improved versions, with standard 40-pin GPIO
- Both had same Broadcom BCM2835 SoC CPU
- Differs in specifications

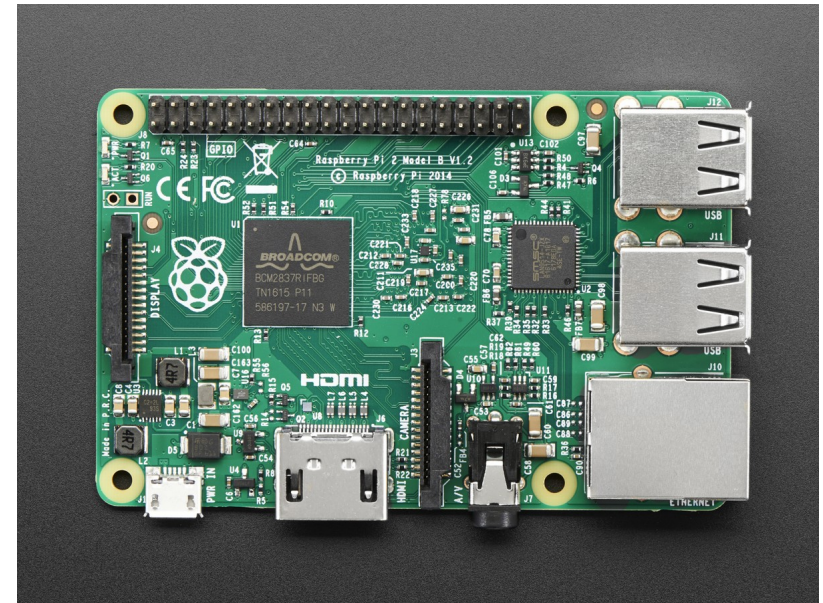
Properties	Model - A+	Model - B+
RAM	256 / 512 MB	512 MB
USB Port	Single	Four
Networking Capabilities	No	10 / 100 wired network port

Overview

R-Pi: Model 2

- Uses Broadcom BCM2836 SoC CPU
- Contains 4 processor cores compared to previous models which is lone core

Properties	Model - 2
RAM	1 GB
USB Port	Four
Networking Capabilities	10 / 100 wired network port



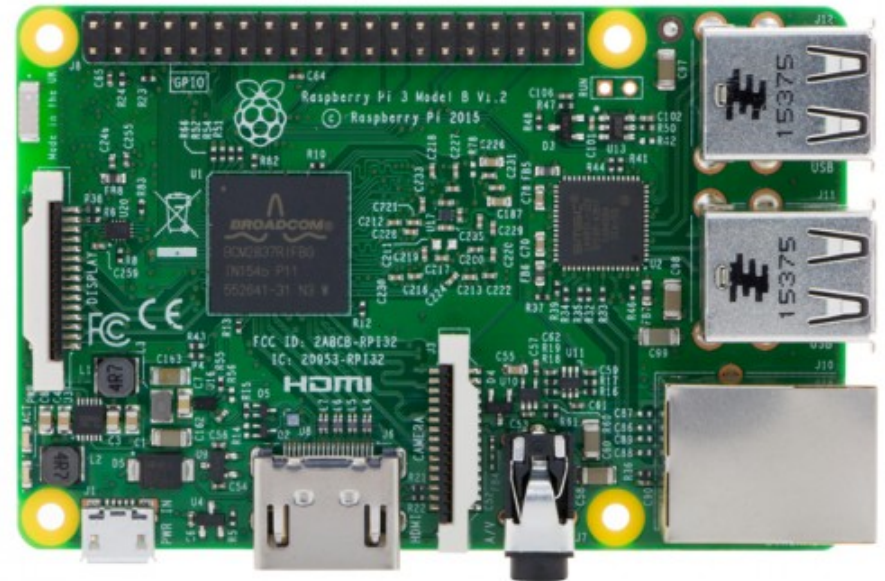
Runs: Raspbian, Ubuntu, Windows 10 IoT

Overview

R-Pi: Model 3

- Latest model
- Uses Broadcom BCM2837 (64-bit processor) SoC CPU
- Built-in wireless support, capable of connecting 2.4 Ghz Wi-Fi networks and Bluetooth

Properties	Model - 3
RAM	1 GB
USB Port	Four
Networking Capabilities	10 / 100 wired network port

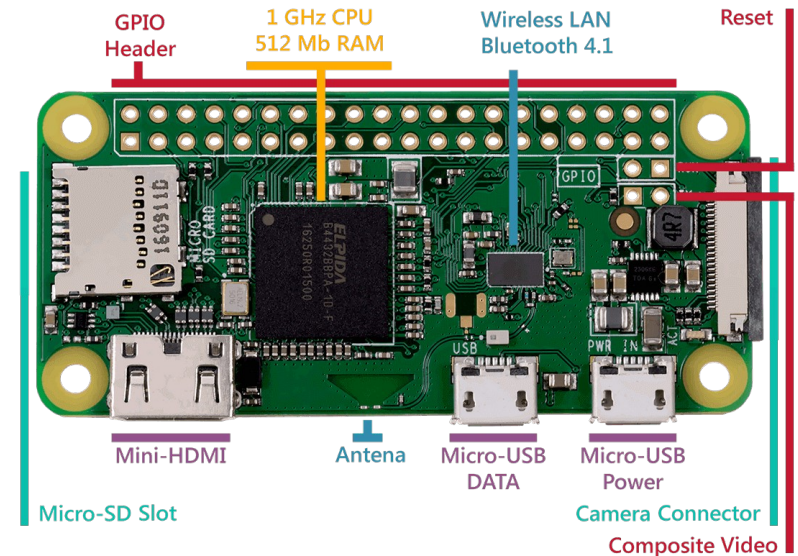


Overview

R-Pi: Model Zero

- Smallest and Cheapest
- Uses Broadcom BCM2835 (32-bit processor) SoC CPU

Properties	Model - Zero		
RAM	512 MB		
USB Port	Single Port	Micro	USB
HDMI Port	Mini		



For beginners not best choice, but for experienced looking to add Pi-powered intelligence to embedded projects, wheresize, cost and power matters this is recommended

THANK YOU