What is a IoT device?

IoT Devices

Raspberry Pie

Aurdino

Beacon/BLE

Google Home/Alexa

.... More

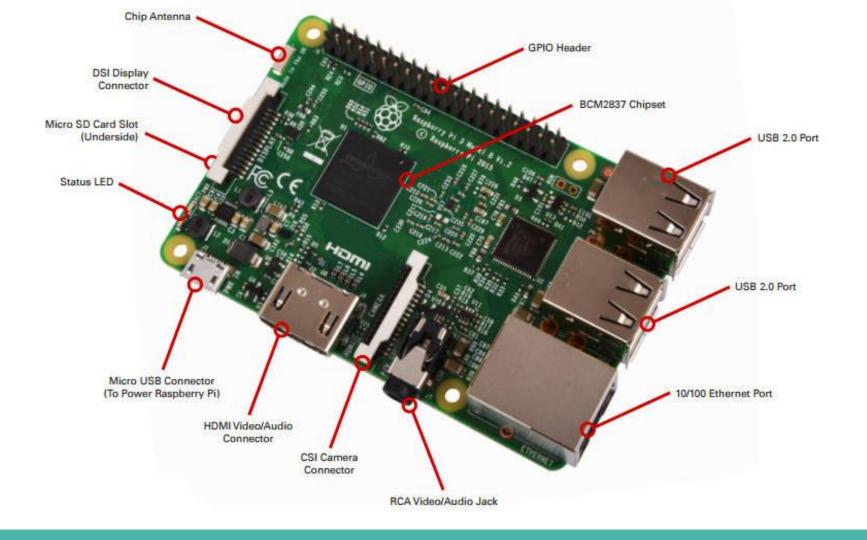
Device Management

- Device registration
- Device authentication/authorization
- Device configuration
- Device provisioning
- Device monitoring and diagnostics
- Device troubleshooting

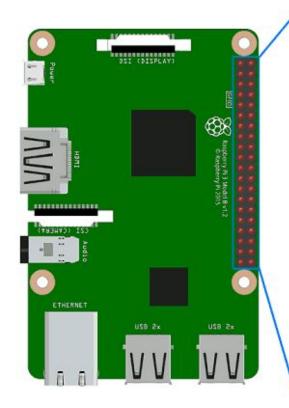
Raspberry Pie







Raspberry Pie GPIO Pin Structure



```
3.3V
      GPIO2 (SDA1)
                             5V
      GPIO3 (SCL1)
                             GND
GPIO4 (GPIO_GCLK)
                             GPIO14 (UART_TXD0)
             GND
                            GPIO15 (UART_RXD0)
GPIO17 (GPIO_GEN0)
                             GPIO18 (GPIO_GEN1)
GPIO27 (GPIO_GEN2)
                  13 @ @ 14
                             GND
GPIO22 (GPIO_GEN3)
                            GPIO23 (GPIO_GEN4)
             3.3V
                        18 GPIO24 (GPIO GEN$)
GPIO10 (SPI0_MOSI)
                     20
                            GND
 GPIO9 (SPI0_MISO)
                            GPIO25 (GPIO_GEN6)
 GPIO11 (SPI0_CLK)
                  23 E 24 GPIO8 (SPI_CE0_N)
                            GPIO7 (SPI_CE1_N)
             GND
ID_SD (I2C EEPROM)
                          28 ID_SC (I2C EEPROM)
           GPIO5
                            GND
                        30
           GPIO6
                          32 GPIO12
           GPIO13
                        34 GND
           GPIO19
                            GPIO16
           GPIO26
                             GPIO20
             GND
                          40 GPIO21
```

Available OS

Raspbian

Ubuntu MATE

Kali Linux

Ubuntu Core

Windows 10 IoT Core

Debian

... more