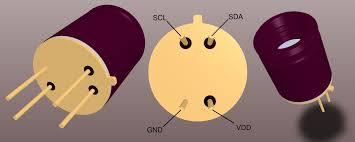
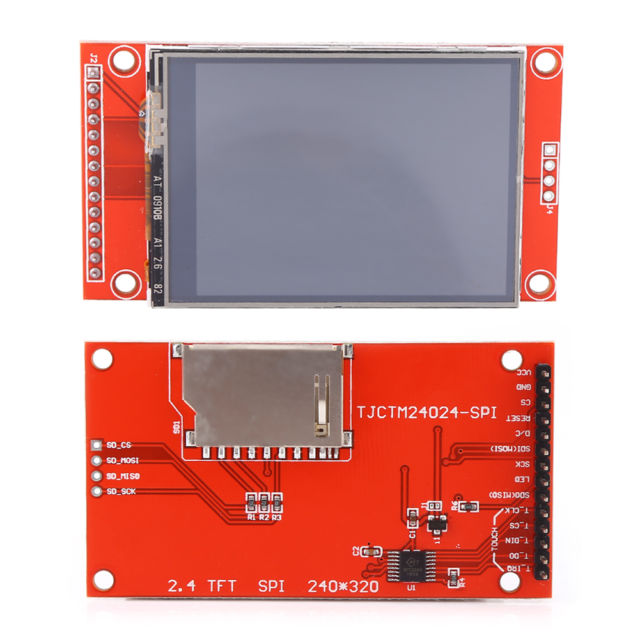
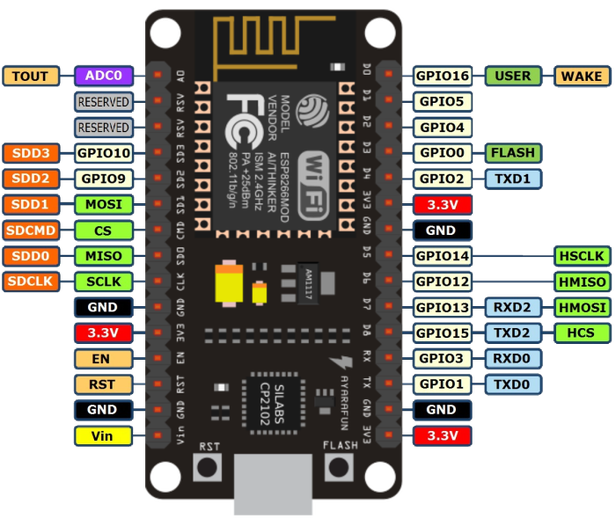
# MLX90640 (IR sensor)



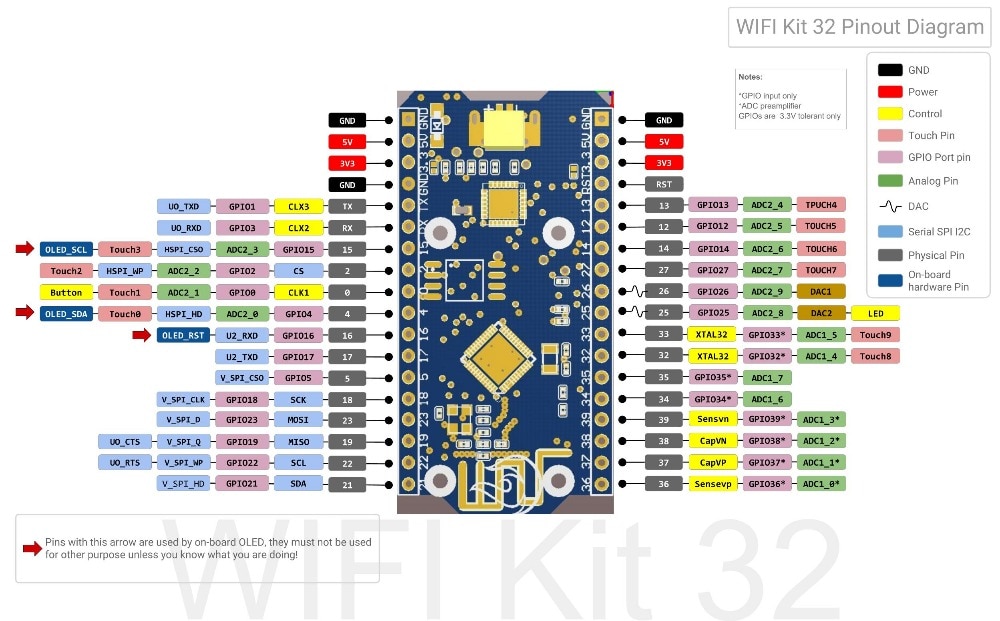
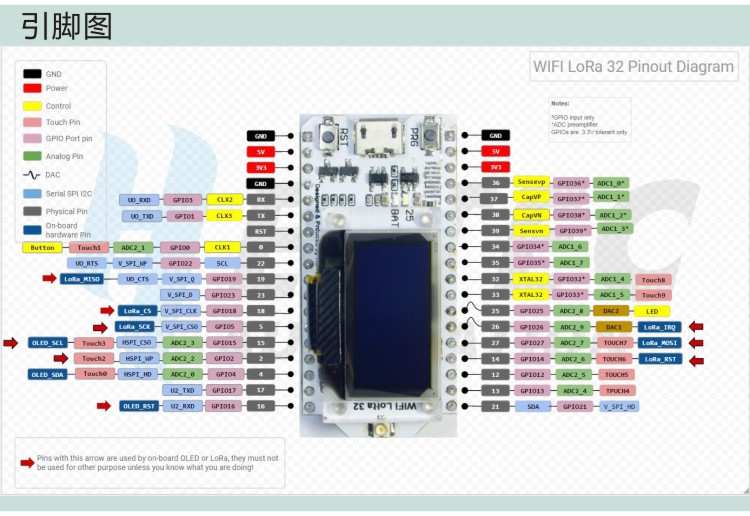
# ILI9341 (TFT LCD)



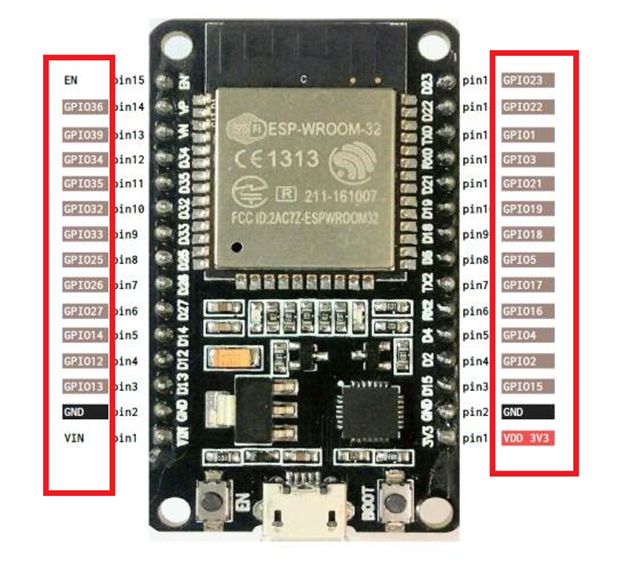
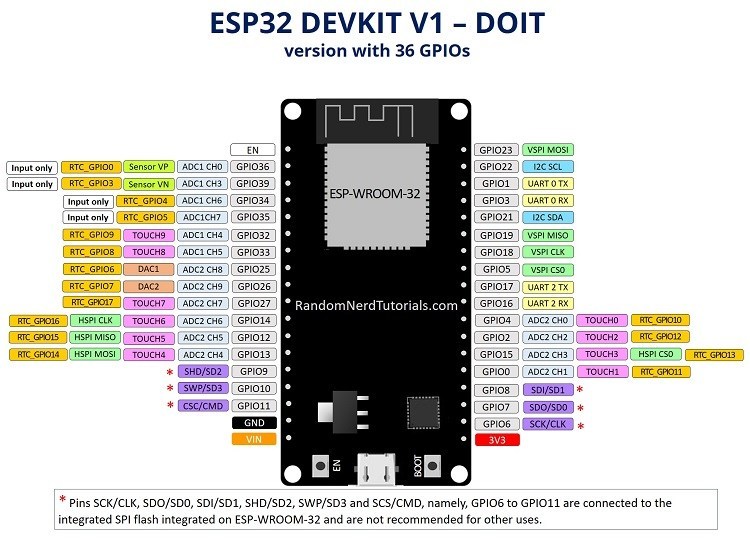
# NodeMCU (ESP8266)



# ESP32 HELTEC



# ESP-WROOM-32



# TABLES

Connection of IR sensor:

|  |  |  |  |
| --- | --- | --- | --- |
|  | ESP8266 | ESP32 |  |
| SCL | D1/GPIO5 | GPIO22 |  |
| SDA | D2/GPIO4 | GPIO21 |  |

Connection of LCD:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| LCD | | NodeMCU | | ESP32 | | Notes |
| pin | Name |  | GPIO |  | GPIO |  |
| 1 | VCC | 3,3/5V | - |  | - |  |
| 2 | GND | GND | - |  | - |  |
| 3 | CS | D8 | 0 |  | 22 |  |
| 4 | RESET | RESET/3,3V | - |  | 18 | RESET of NodeMCU or 3,3V or some GPIO if needed |
| 5 | DC | D9/D4 | 2 |  | 21 |  |
| 6 | MOSI | MOSI/D7 | 13 |  | 23 |  |
| 7 | SCK | D5/SCK | 14 |  | 19 |  |
| 8 | LED | 3,3/5V cez R | - |  | - |  |
| 9 | MISO | D6/NC | 12 |  | 25 | Optional – needed only if read from LCD is needed |

Connection of touch sensor:

Connection of SD card reader: