
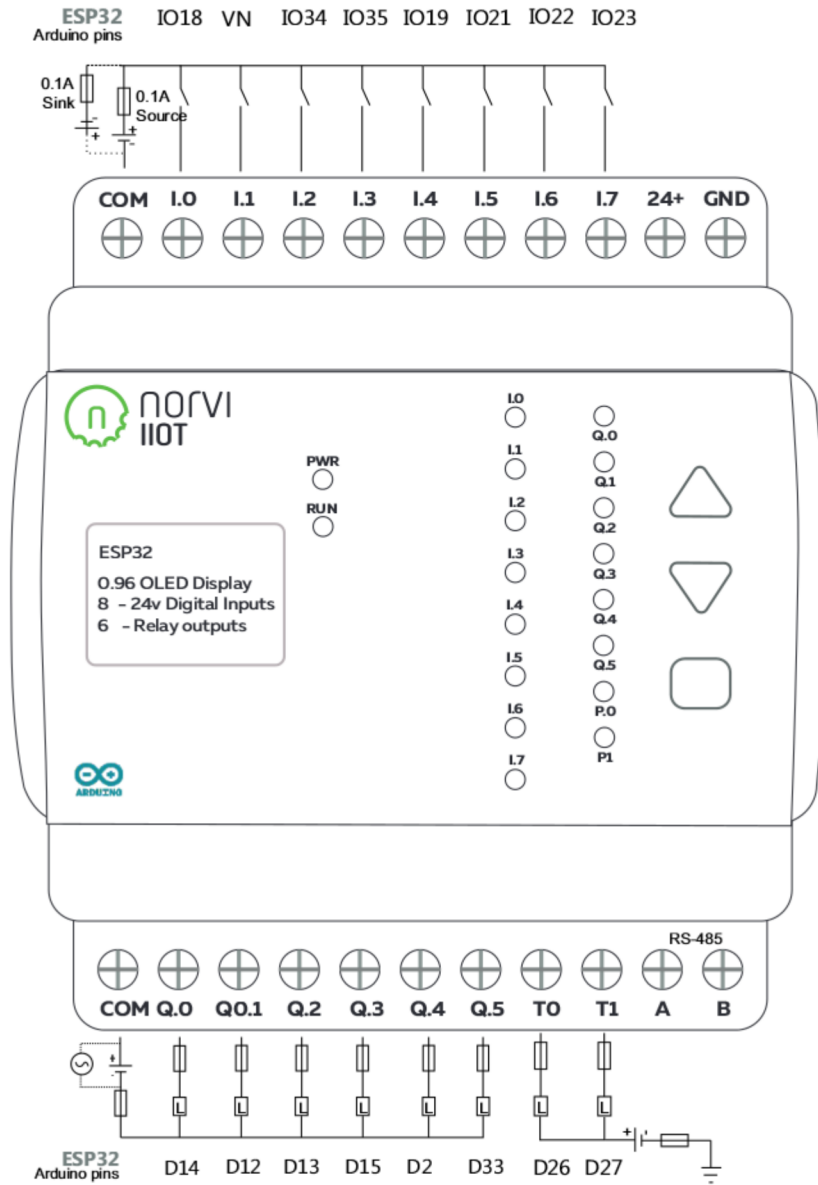


# NORVI IIOT

## ESP32 WROOM-32


 EN 61131-2:2007  
 EN 61010-1:2010+A1:2019  
 EN IEC 61010-2:2011:2018  
 2014/30/EU- Electromagnetic Compatibility (EMC)  
 Annex III, Part B, Module C

24V DC Sink/Source



### Micro-controller

Chip ESP32-WROOM32  
 Clock 240Mhz Mhz  
 Bootloader ESP32 Arduino

### microSD Card connections

SCK IO18 CS IO5  
 MISO IO19 SD Detect IO14  
 MOSI IO23

### OLED Display 0.96'

Interface I2C 0x3C(Address)  
 Controller SSD1306  
 OLED\_SCL IO16 OLED\_SDA IO17

### DS3231 RTC

Interface I2C 0x3C(Address)  
 Controller DS3231  
 OLED\_SCL IO16 OLED\_SDA IO17

# Quick Guide

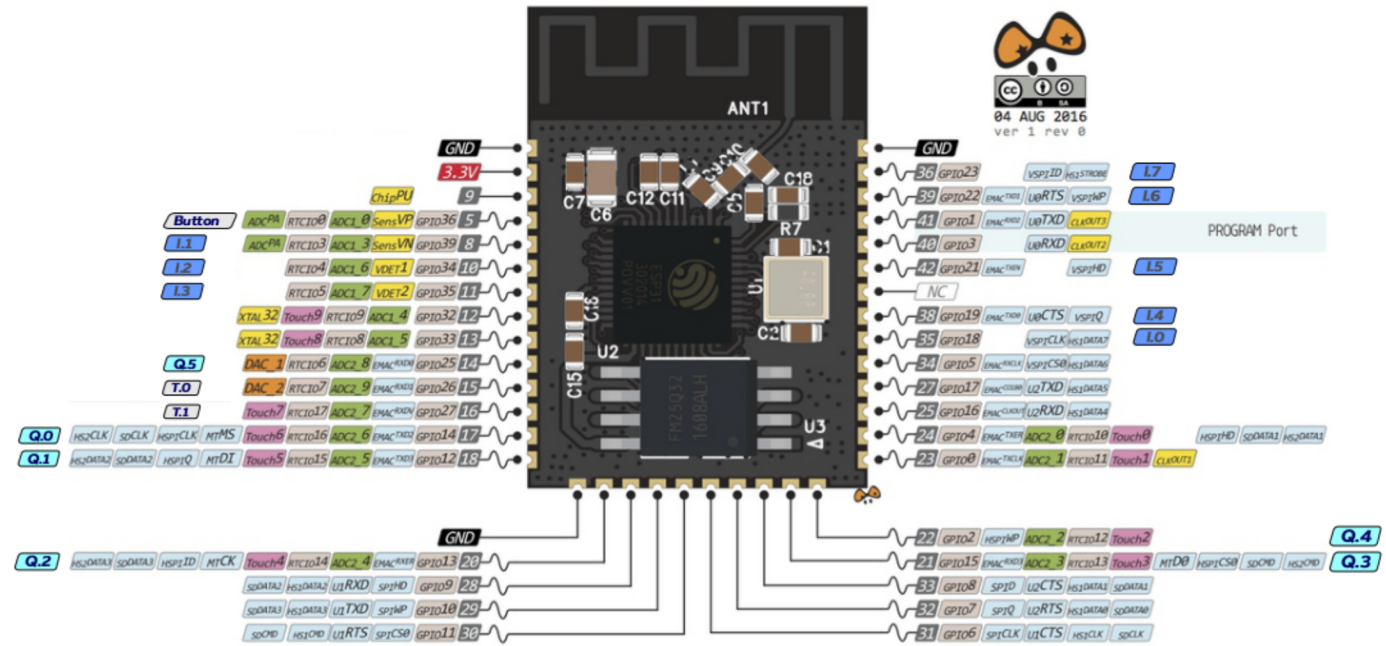
## Connections and Programming

### Power

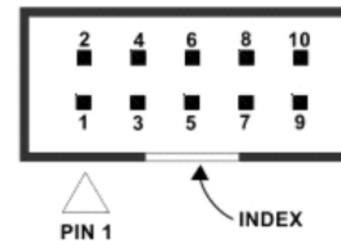
Supply Voltage 24V DC  
 Digital input voltage 24V Sink/Source  
 Relay Max. current 5A max  
 Transistor Max. current 500mA

### TFT Display 0.96'

Interface SPI  
 Controller ST7789  
 TFT\_SCK IO18 TFT\_RST IO32  
 TFT\_MOSI IO23 TFT\_DC IO13  
 TFT\_CS IO27



### Expansion port



| PIN | ESP32 Connection |    |               |
|-----|------------------|----|---------------|
| 1   | IO33             | 6  | IO32          |
| 2   | TXD0             | 7  | Not Connected |
| 3   | Not Connected    | 8  | SCL IO17      |
| 4   | RXD0             | 9  | Ground        |
| 5   | BOOT IO0         | 10 | SDA IO16      |