

# NORVI IIOT

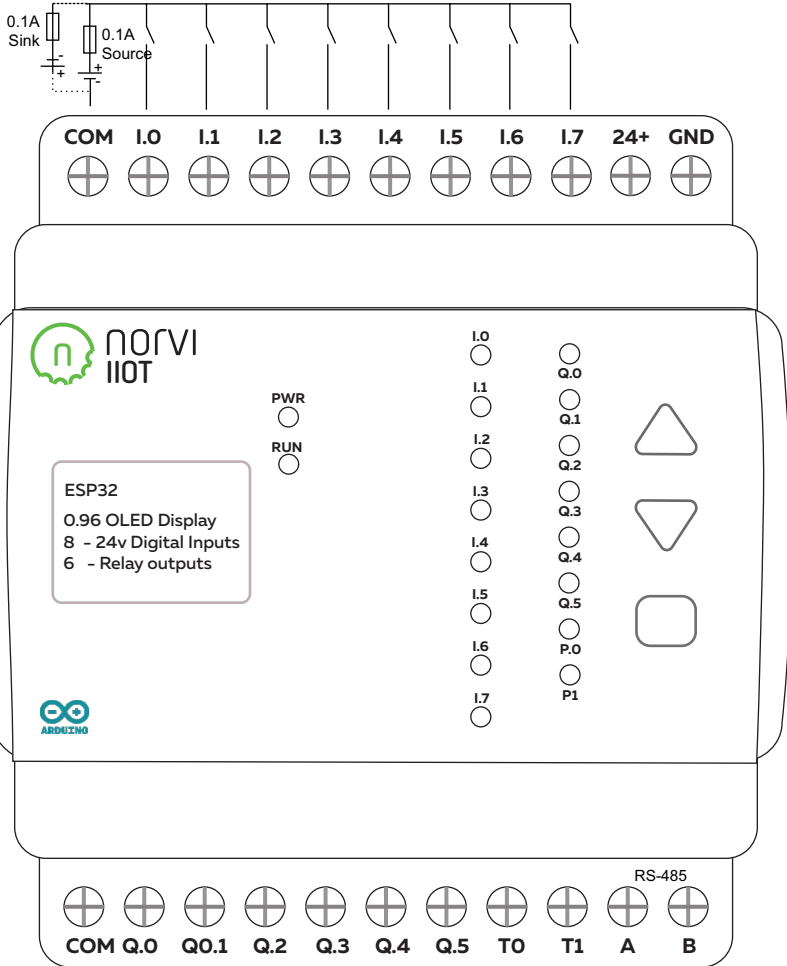
## ESP32 WROOM-32

**CE** EN 61131-2:2007  
EN 61010-1:2010+A1:2019  
EN IEC 61010-2-201:2018

2014/30/EU- Electromagnetic Compatibility (EMC)  
Annex III, Part B, Module C

24V DC Sink/Source

ESP32 Arduino pins IO18 VN IO34 IO35 IO19 IO21 IO22 IO23



ESP32 Arduino pins D14 D12 D13 D15 D2 D33 D26 D27

### 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

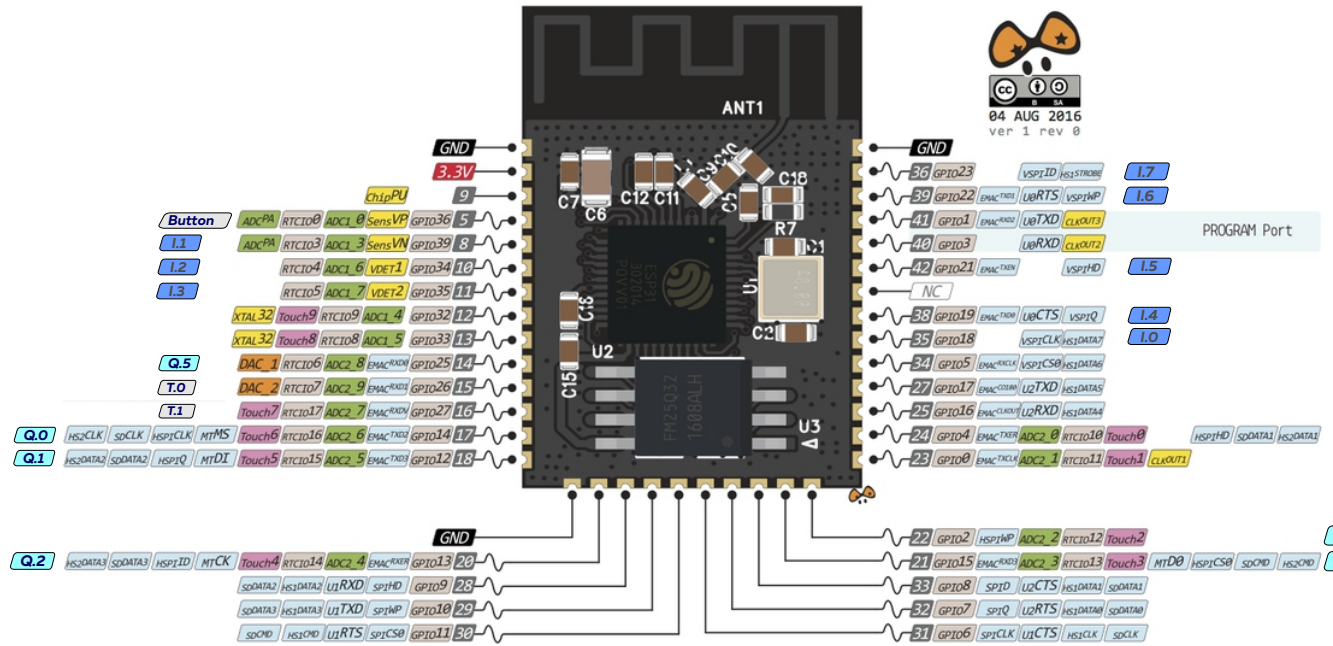
## Connections and Programming

### Power

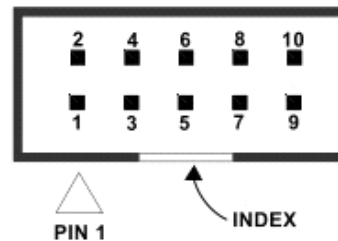
Supply Voltage 24V DC  
Digital input voltage 24V Sink/Source  
Relay Max. current 5A max  
Transistor Max. current 500mA

### 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
2	TXD0
3	Not Connected
4	RXD0
5	BOOT IO0
6	IO32
7	Not Connected
8	SCL IO17
9	Ground
10	SDA IO16