

NORVI IIOT

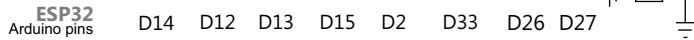
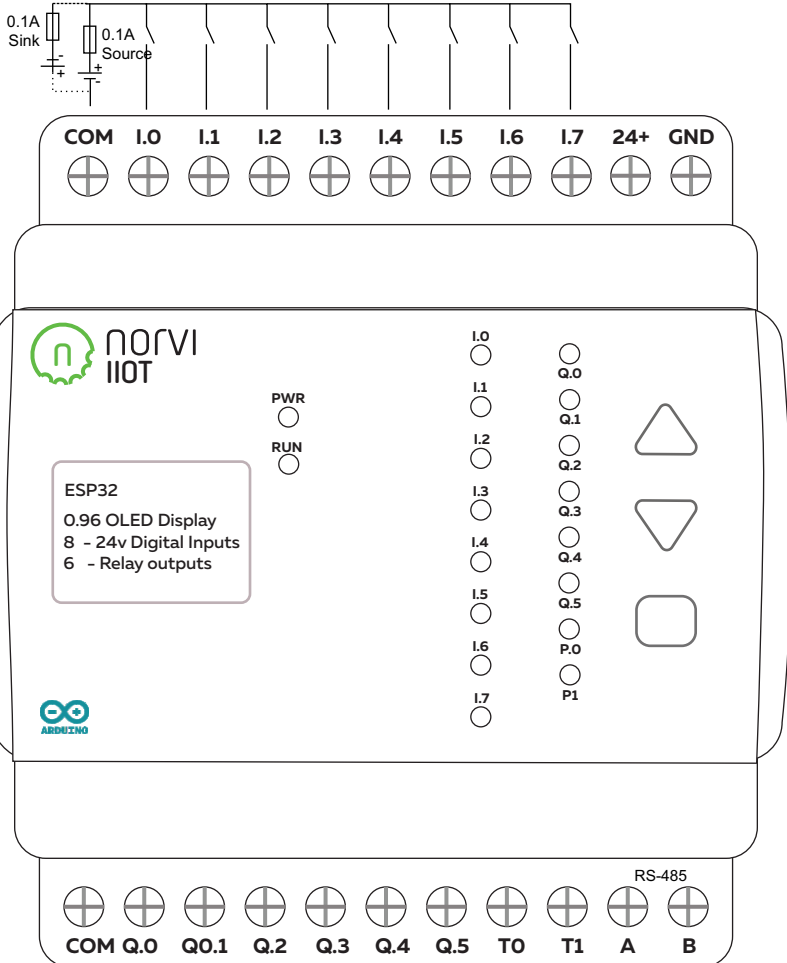
ESP32 WROOM-32

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



Micro-controller

Chip ESP32-WROOM32
Clock 80 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

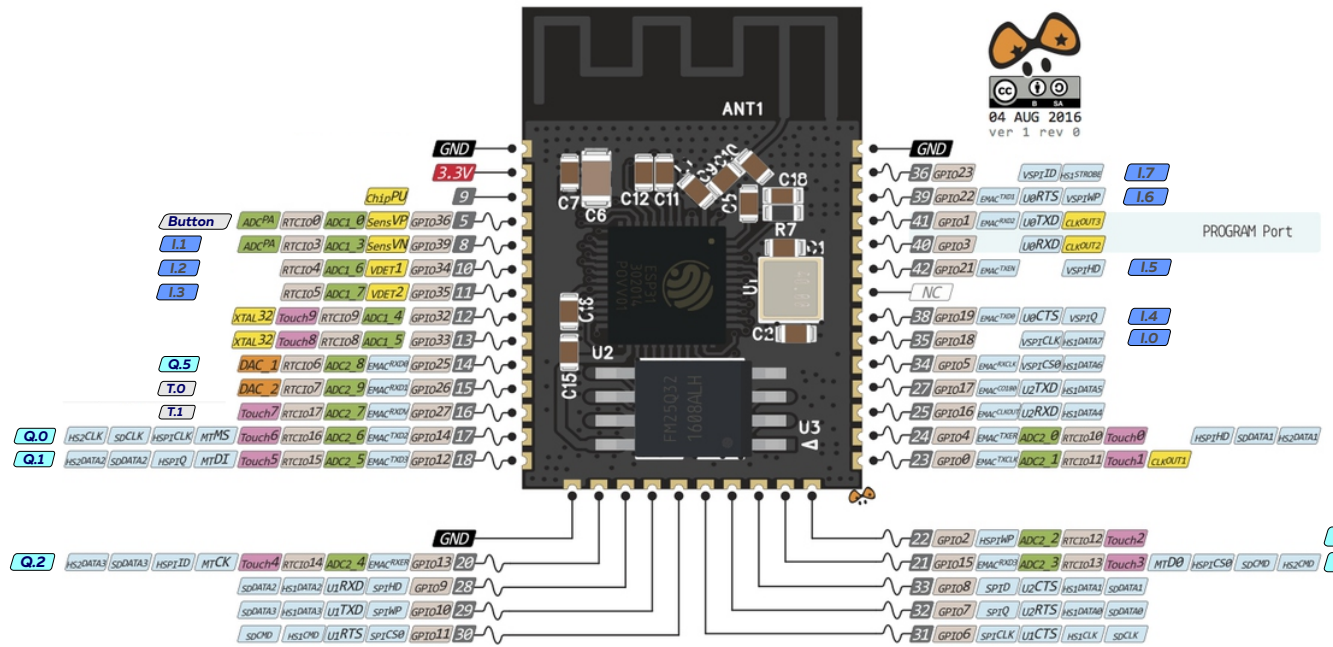
Connections and Programming

Power

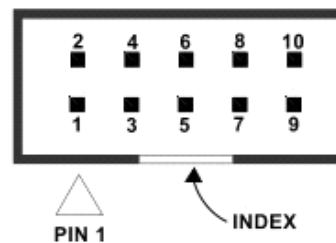
Supply Voltage 24V DC
Digital input voltage 24V Sink/Source
Relay Max. current 5A max
Transistor Max. current 500mA

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