**PINs\_Configration**

**ESP32\_Pins:**

* En\_Esp32 🡪 PD6
* BOOT 🡪 PD5
* TX\_MCU 🡪 PD1 (UART)
* RX\_MCU 🡪 PD0 (UART)

**Shift\_REG\_Relays:**

* SER\_RELAYS 🡪 PB0
* SCK\_RELAYS 🡪 PB2
* RCLK\_RELAYS 🡪 PB3
* (QA---QH)🡪(2,3,4,5,6,7,8,0)
* (QA’---QH’)🡪(9,11,12,13,14,10,16,1)

**Shift\_REG\_LCD\_Sprinkles:**

* SER 🡪 PC4
* SRCLK 🡪 PC3
* RCLK 🡪 PC2

**RTC\_Pins:**

* RTC\_SCL 🡪 PC0
* RTC\_SDA 🡪 PC1

**KeyPad\_Pins:**

* COL1 🡪 PA3
* COL2 🡪 PA2
* COL3 🡪 PA1
* COL4 🡪 PA0
* ROW1 🡪 PA7
* ROW2🡪 PA6
* ROW3🡪 PA5
* ROW4🡪 PA4

**Timer\_RELAY\_Pins:**

* REL\_15 🡪 PD7(PWM channel)

**DataLOG\_Com\_Pins:**

* TX\_Logger 🡪 PC5 (soft\_UART)
* RX\_Logger 🡪 PC7 (soft\_UART)

**GIRO\_COM\_Pins:**

* TX\_Giro 🡪 PD2 (soft\_UART)
* RX\_Giro 🡪 PD3 (soft\_UART)

**Indicators \_Pins:**

* Manual\_Indicator 🡪 PD4
* Generator\_Indicator 🡪 PB4

**SPI \_Pins:**

* MOSI 🡪 PB5
* MISO 🡪 PB6
* SCK 🡪 PB7

**Enable\_Pins:**

* EN\_SR 🡪 PB1 (enable all shift register)
* EN\_BKL 🡪 PD3 (enable back light of LCD)