

PINs Configuration

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)