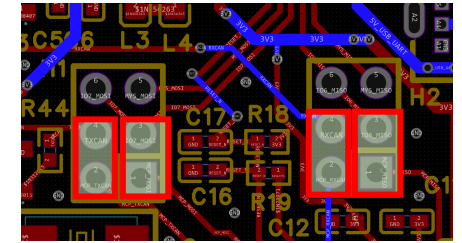


ESP32 C3 Pinout

ESP GPIO	Description	Mapping to Spring Connector	Mapping to Pin Header
GPIO0	Alive LED (active high)	Pin 6	
GPIO1	MCP2515 RESET		Pin 7
GPIO2	MCP2515 SPI CS		
GPIO3	MCP2515 INT_N (low active)		Pin 1
GPIO4	I2C SCL (pullup)	Pin 3	Pin 9
GPIO5	I2C SDA (pullup)	Pin 4	Pin 10
GPIO6	Jumper 1: MCP2515 SPI MISO Jumper 2: CAN RX Jumper 4: MYS_MISO		Jumper 4: Pin 3
GPIO7	Jumper 1: MCP2515 SPI MOSI Jumper 2: CAN TX Jumper 3: TX LED (active high) Jumper 4: MYS_MOSI		Jumper 4: Pin 6
GPIO8	Relay (active high)	Pin 5	Pin 2
GPIO10	MCP2515 SCLK		Pin 5

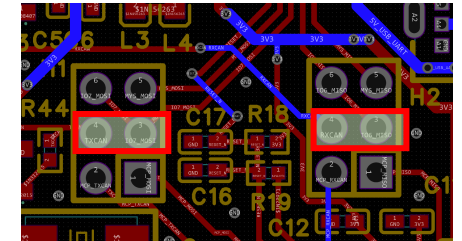
Jumper Setting 1

- SPI to CAN Controller
- CAN Controller to CAN transceiver



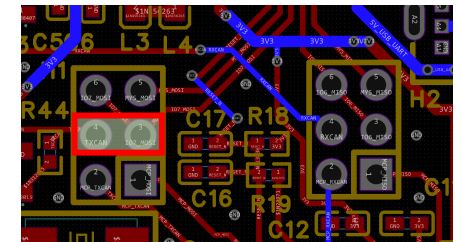
Jumper Setting 2

ESP -> Can Transceiver



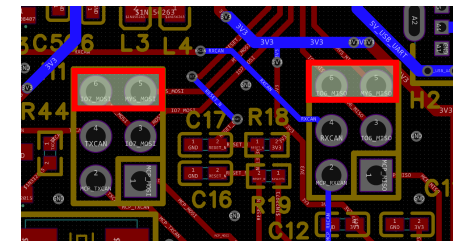
Jumper Setting 3

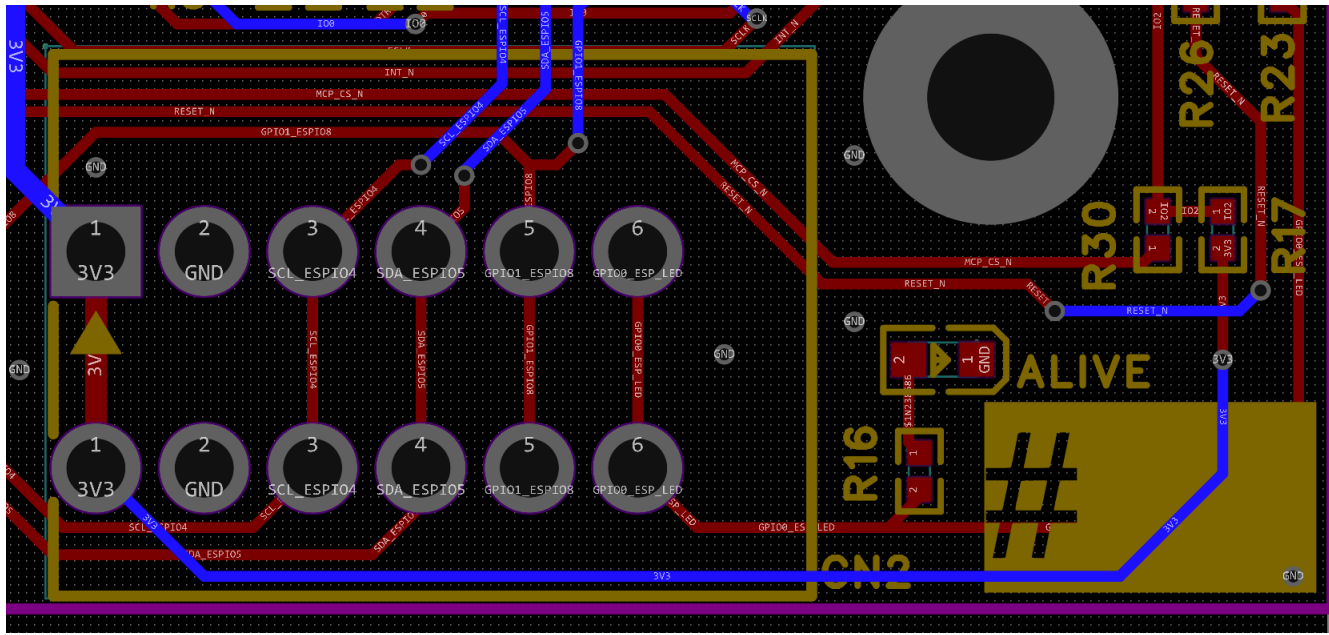
IO7 → TX LED



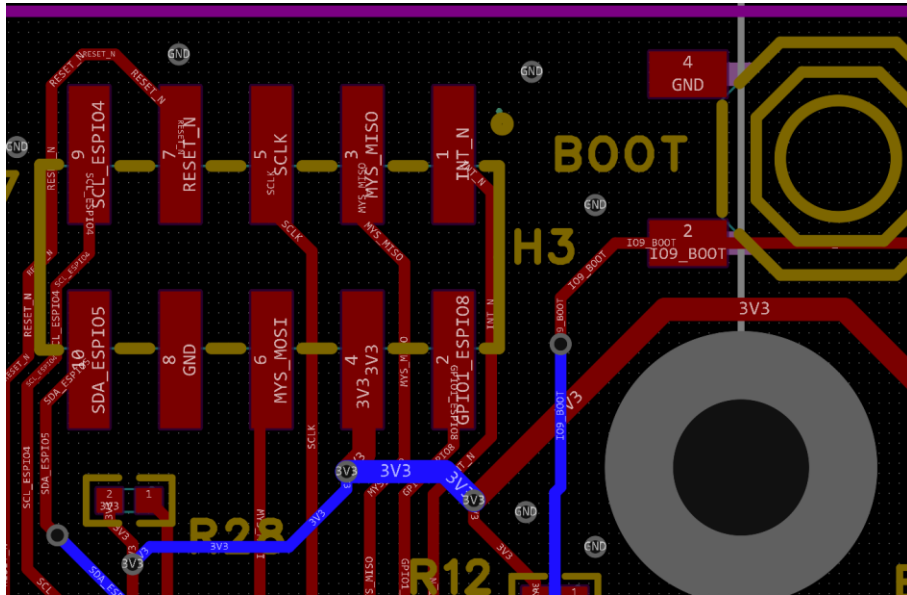
Jumper Setting 4

IO7_MOSI → MYS_MOSI
IO6_MISO → MYS_MISO

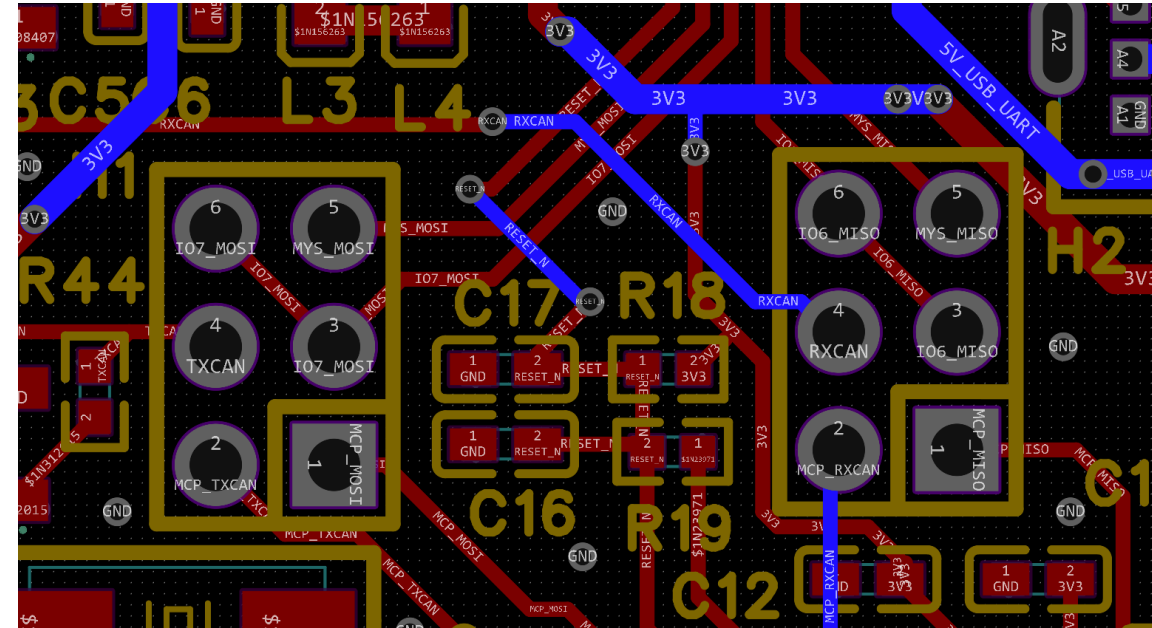




Spring Clamps



MYS Pin Header

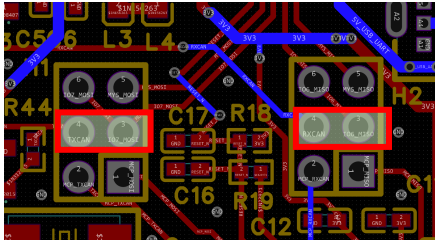


Jumper

ESP32 direct CAN mode

ESP GPIO	Description	Mapping to Spring Connector	Mapping to Pin Header
GPIO0	Alive LED (active high)	Pin 6	
GPIO4	Binary Sensor (low active)	Pin 3	Pin 9
GPIO6	Jumper 2: CAN RX		Jumper 4: Pin 3
GPIO7	Jumper 2: CAN TX		Jumper 4: Pin 6

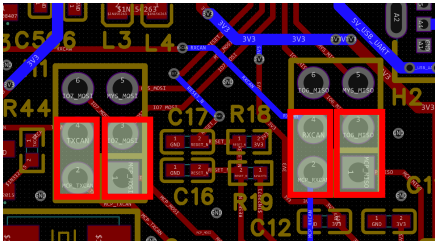
Jumper Setting 2
ESP -> Can Transceiver



CAN via MCP2515

ESP GPIO	Description	Mapping to Spring Connector	Mapping to Pin Header
GPIO0	Alive LED (active high)	Pin 6	
GPIO1	MCP2515 RESET (optional)		Pin 7
GPIO2	MCP2515 SPI CS		
GPIO3	MCP2515 INT_N (low active), optional		Pin 1
GPIO4	Binary Sensor	Pin 3 (pullup)	Pin 9
GPIO6	Jumper 1: MCP2515 SPI MISO		
GPIO7	Jumper 1: MCP2515 SPI MOSI		Jumper 4: Pin 6
GPIO10	MCP2515 SCLK		Pin 5

Jumper Setting 1
- SPI to CAN Controller
- CAN Controller to CAN transceiver



Jumper enables USB
Power of USB prog CDC
(USB Prog wrongly labelled as
„UART“)

Jumper enables 120
Ohm Termination
(between CAN_L
and CAN_H)

CAN Transceiver
SN65HVD230

0..10V Analoge Out
GP8403

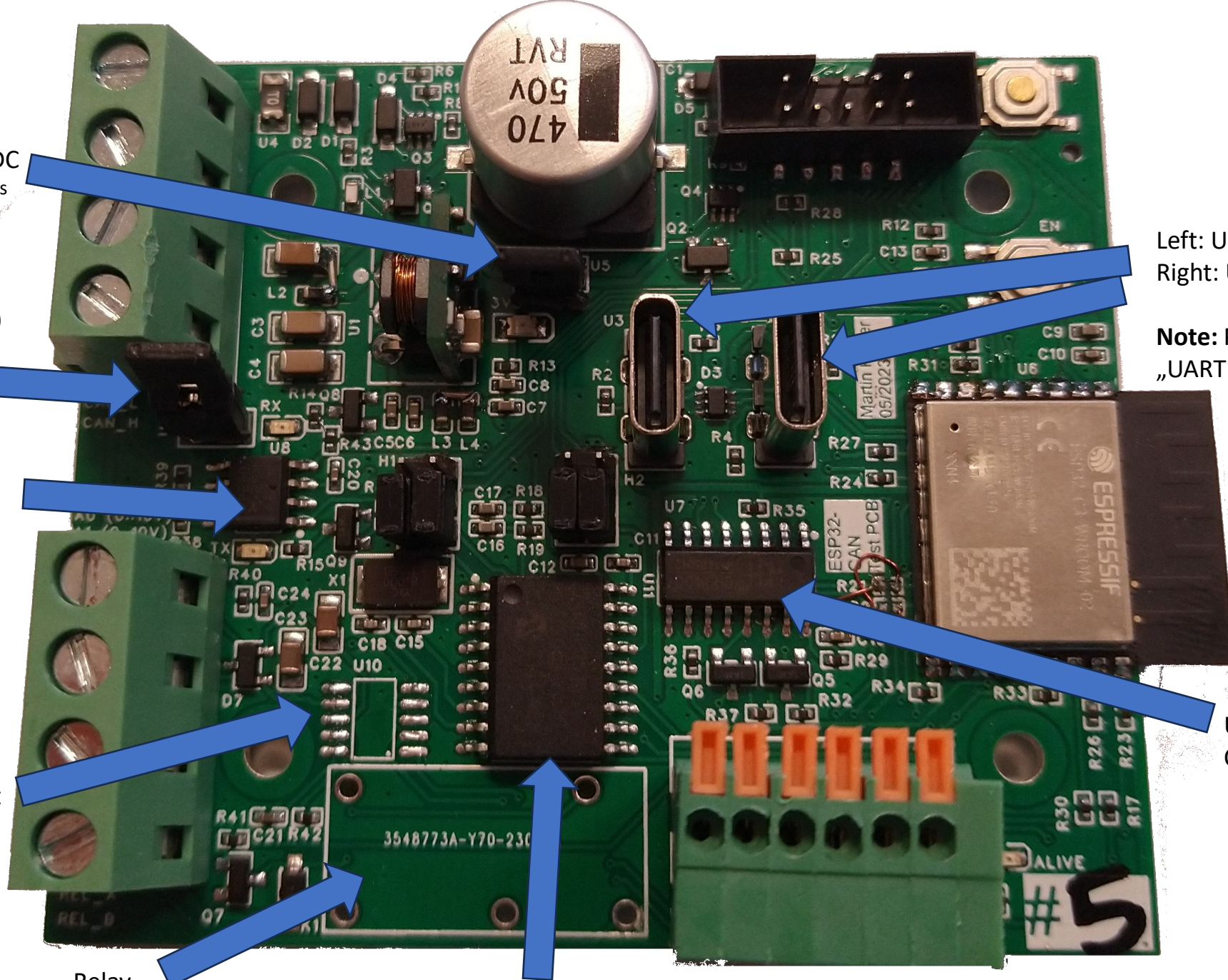
Relay

CAN Controller

Left: USB C for UART (via CH340C)
Right: USB C for Prog (via ESP CDC)

Note: PCB Labels „Prog“ and
„UART“are switched :/

USB <> UART
CH340C



VCC in: 5..28V

GND

CAN L

CAN H

MYS Pin Header

Boot
(hold while pressing EN
to enter Boot mode)

3V3
LED

EN
(press to restart)

RX
LED

Jum
per

Jum
per

TX
LED

A0 out (0..10V)

A1 out (0..10V)

Oopsie

Relay

Relay

Spring Clamps

Alive
LED

