

The schematic shows the USB Type-C connector and its internal connections. The connector pins are labeled A1 through A12 and B1 through B12. The internal IC is labeled USB-TYPE-C-018. The connections include:

- VBUS:** Connected to A1, B9, and B12.
- GND:** Connected to A4, A5, A6, A7, A8, A9, A10, A11, A12, B1, B2, B3, B4, B5, B6, B7, B8, B10, B11, B12, and B13.
- CC1:** Connected to A3 and B10.
- CC2:** Connected to A10 and B11.
- DP+ and DP-:** Connected to A9 and A10, and B11 and B12.
- NC:** Not connected to any pins.
- SH2.7B:** Connected to A12 and B12.
- ADC_V_USB:** Connected to B12.
- Resistors:** R131 (1M), R132 (4.7nF), R126 (10K), R127 (10K), R125 (5.1K), R124 (5.1K), C65 (10uF), and C66 (100nF).

RP2040 MCU

RESET RS032G05A3SM

+3V3_MCU

+1V1 +3V3_MCU

IOVDD 1*6 43

DVDD 44 45 23*2

RP_XI 20

RP_XO 21

SWDIO 25

SWCLK 24

USB2_DP_N 46

USB2_DP_P 47

R15 27R

R160 27R

C64

TESTEN 19

GND 57

IC15

GPIO0 2

GPIO1 3

GPIO2 4

GPIO3 5

GPIO4 6

GPIO5 7

GPIO6 8

GPIO7 9

GPIO8 11

GPIO9 12

GPIO10 13

GPIO11 14

GPIO12 15

GPIO13 16

GPIO14 17

GPIO15 18

GPIO16 27

GPIO17 28

GPIO18 29

GPIO19 30

GPIO20 31

GPIO21 32

GPIO22 34

GPIO23 35

GPIO24 36

GPIO25 37

GPIO26/ADC0 38

GPIO27/ADC1 39

GPIO28/ADC2 40

GPIO29/ADC3 41

QSPI_SD3 51

QSPI_SCLK 52

QSPI_SD0 53

QSPI_SD1 54

QSPI_SS_N 55

QSPI_SS 56

UART0_RX/6.3D

UART0_TX/6.3D

4D03WGJ0332T5E

I2C1_SDA/6.2C

I2C1_SCL/6.2C

I2C0_SDA/2.6D

I2C0_SCL/2.6D

LCD_DC/2.6D

LCD_BL/2.6D

LCD_MISO/2.6D

LCD_CS/2.6D

LCD_SCLK/2.6D

LCD_MOSI/2.6D

KEY_0/2.6D

KEY_1/2.6D

KEY_2/2.6D

KEY_3/2.6D

W5500_MISO/2.3C

W5500_CS/2.3C

W5500_SCK/2.3C

W5500_MOSI/2.3C

W5500_RST/2.3B

W5500_INT/2.3C

LCD_RES/2.6D

MCP_RST_RST/6.2C

MCP_DSP_RST/2.7D

BUCK_EN/3.1D

ADC_V_USB

USB_SEL

NC

+12V_ME/3.4A

REL I2C

DSP I2C

DISPALY SPI

PUSHBUTTONS

NETWORK SPI

RP2040

Rev 1.0.0
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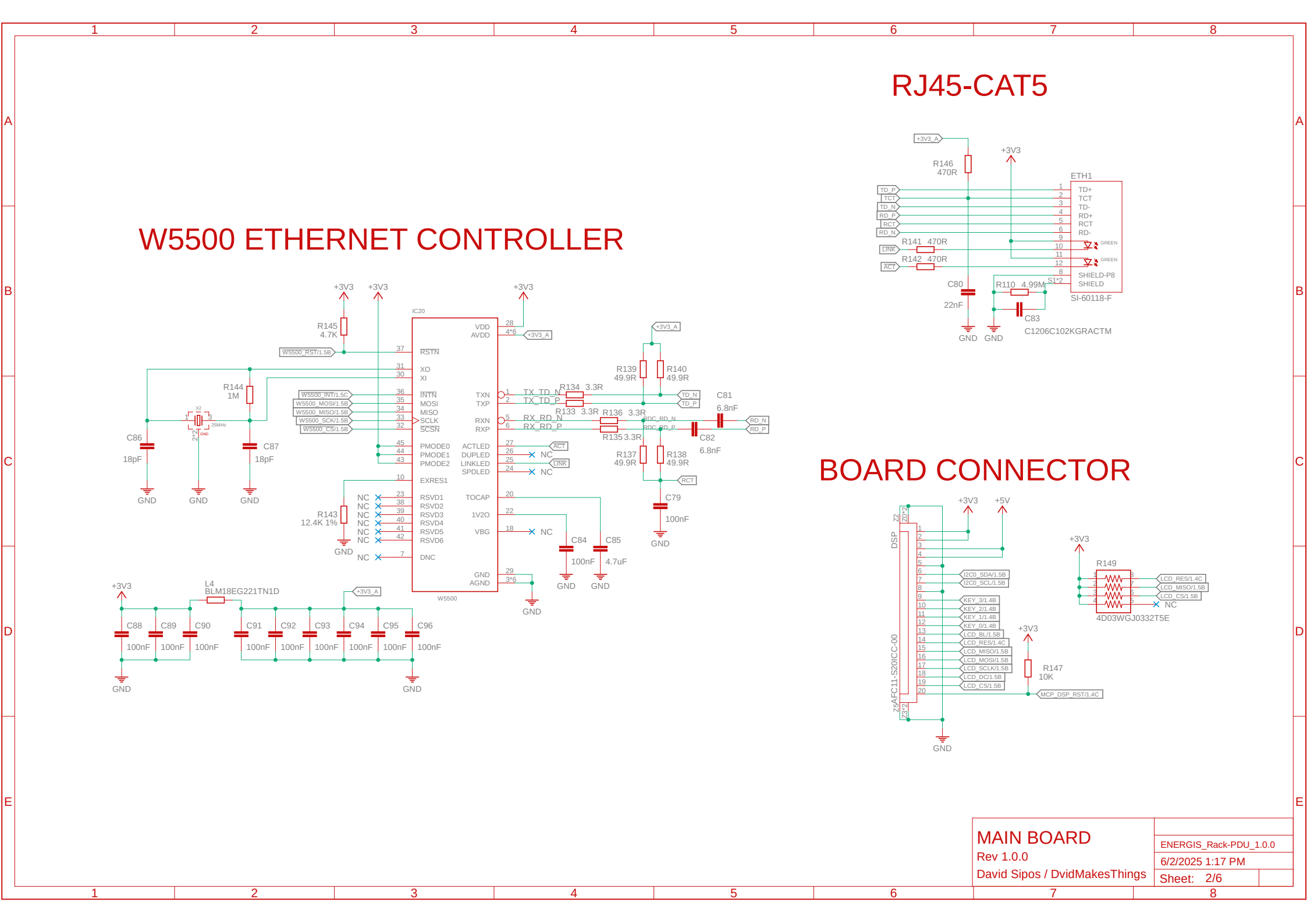
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W5500 ETHERNET CONTROLLER

RJ45-CAT5

BOARD CONNECTOR



W5500 ETHERNET CONTROLLER

RJ45-CAT5

BOARD CONNECTOR

MAIN BOARD

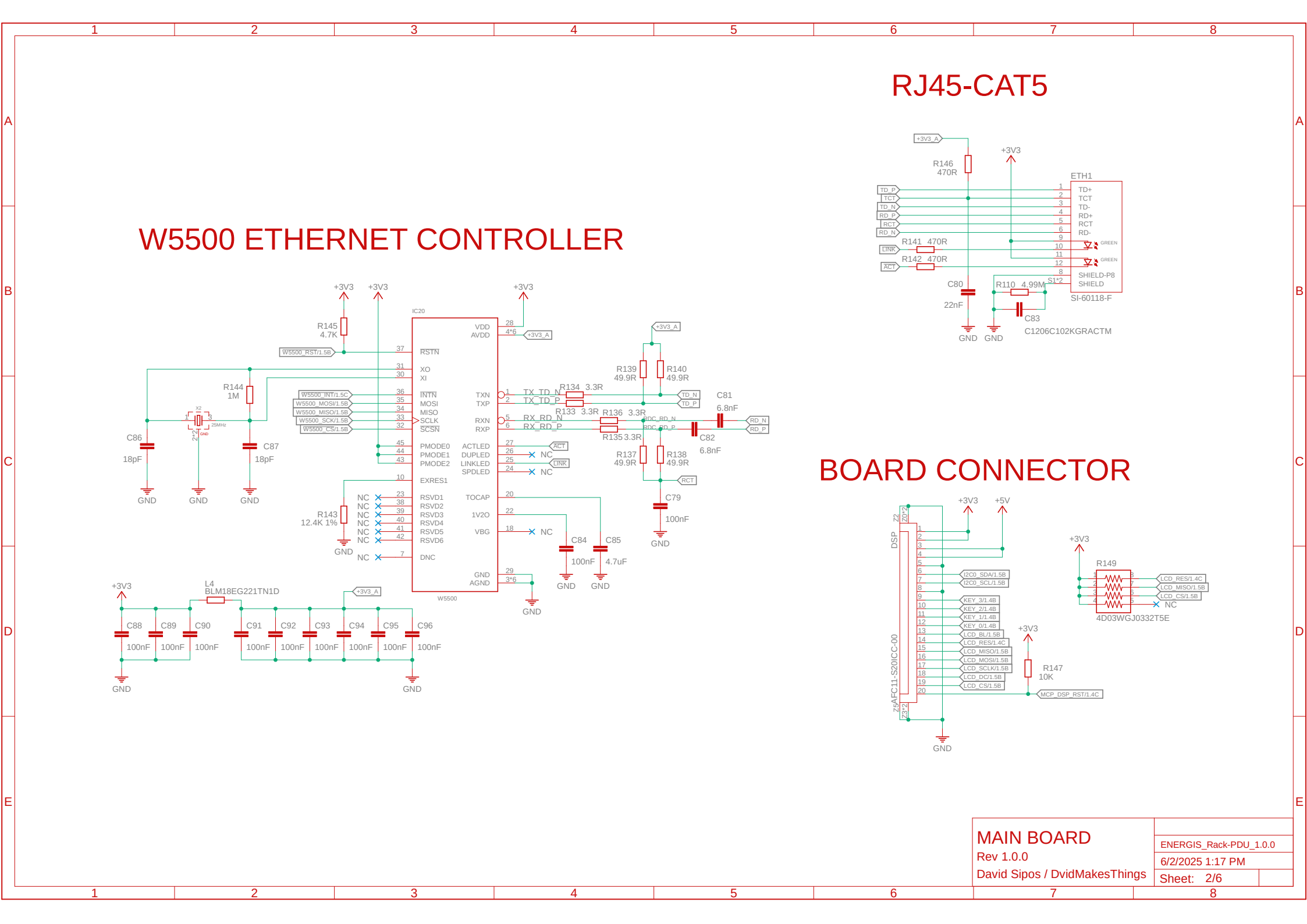
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W5500 ETHERNET CONTROLLER

RJ45-CAT5

BOARD CONNECTOR

MAIN BOARD

Rev 1.0.0

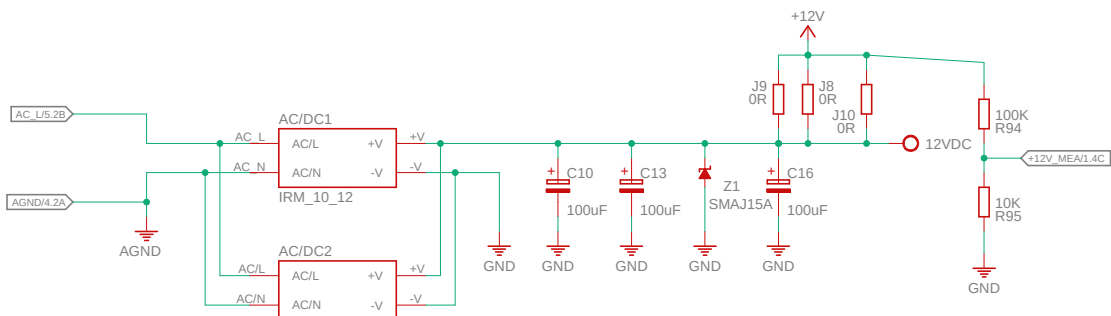
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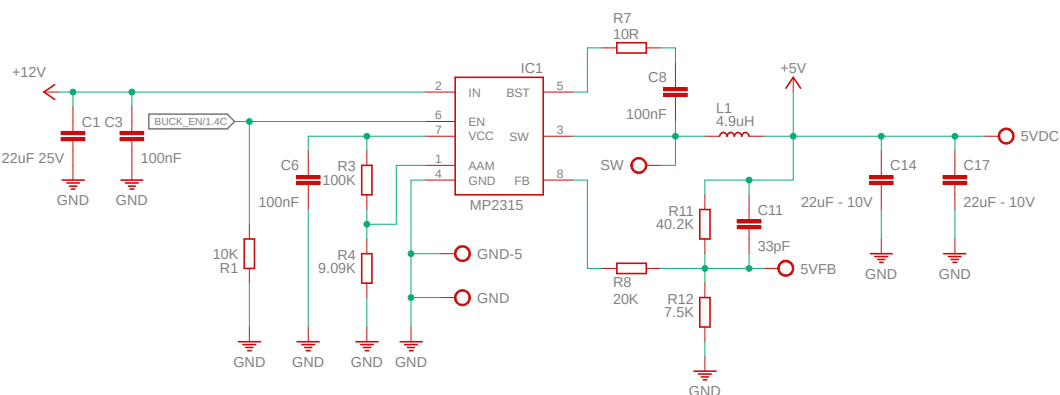
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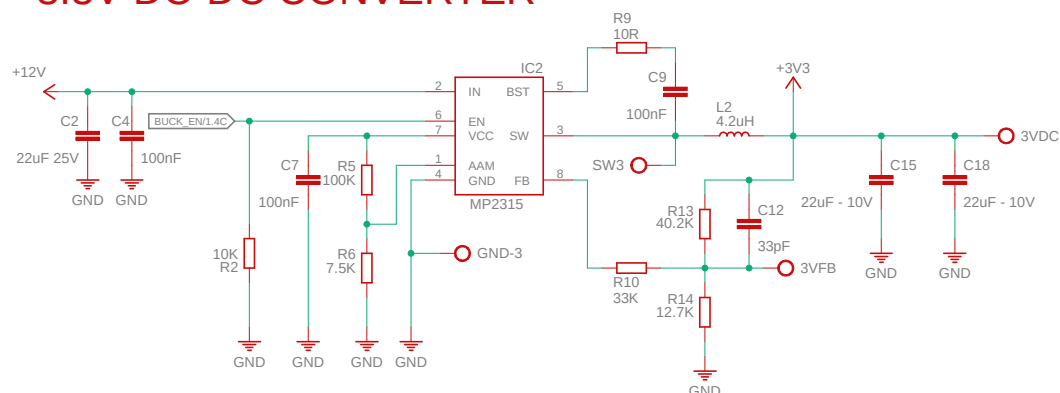
12V - 10W FLYBACK CONVERTER



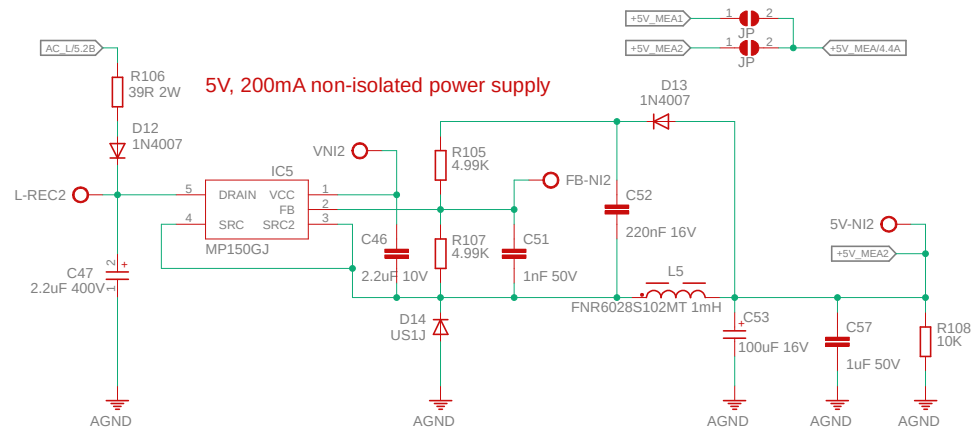
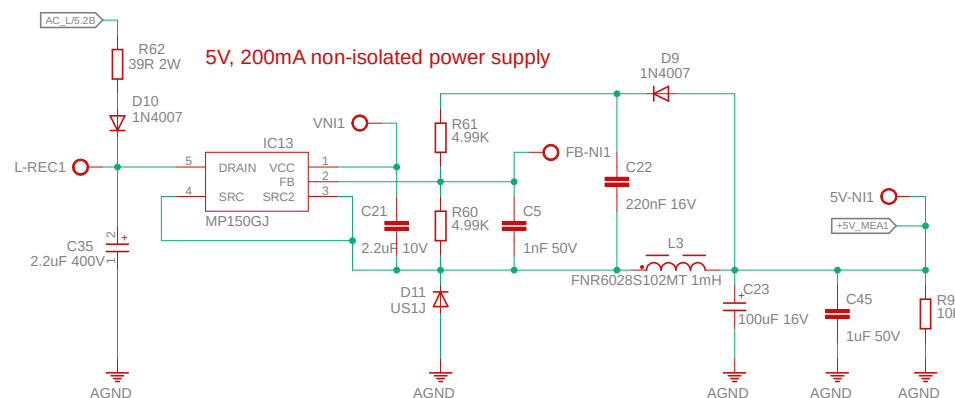
5V DC-DC CONVERTER



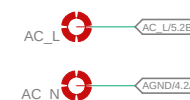
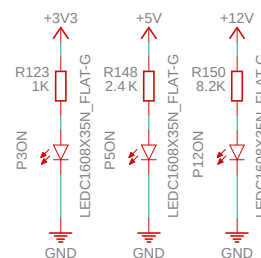
3.3V DC-DC CONVERTER



5V AC-MEASUREMENT



AC-INPUT



MAIN BOARD

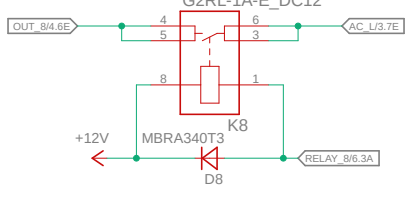
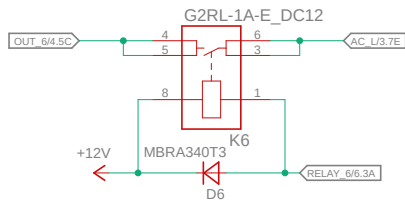
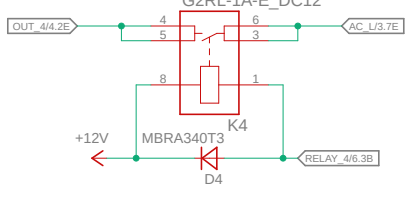
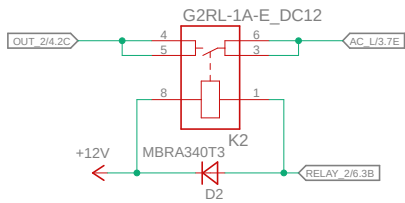
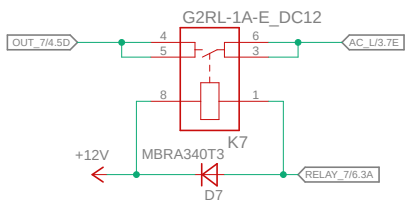
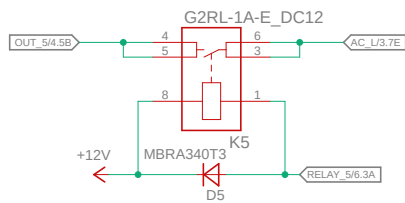
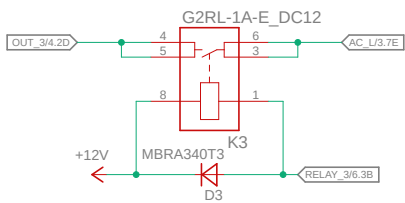
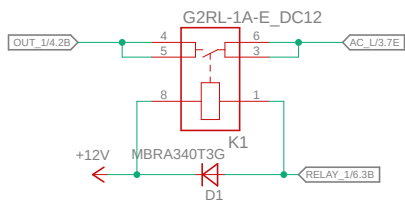
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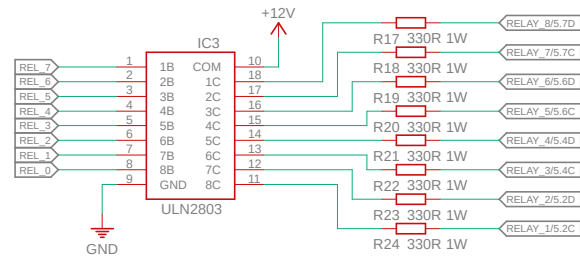
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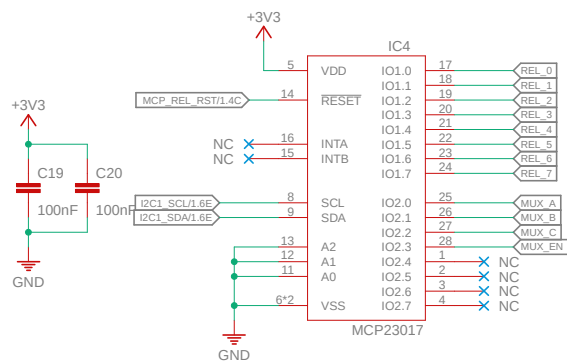
OUTPUT RELAYS



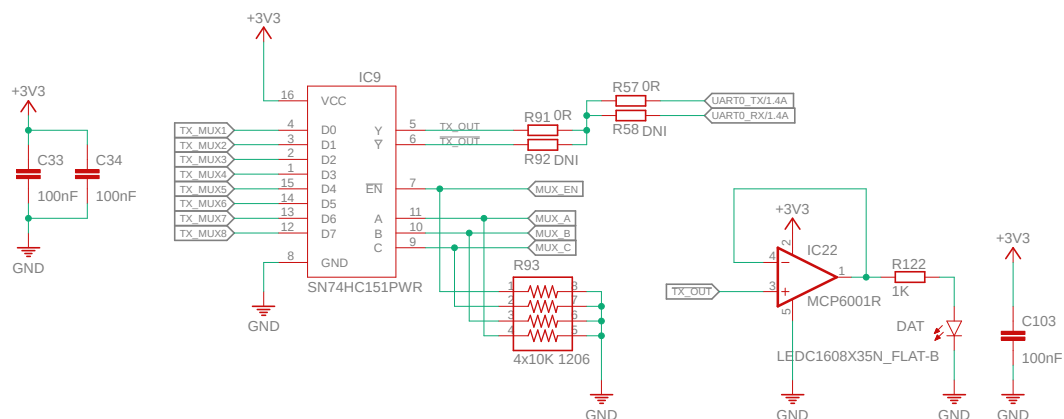
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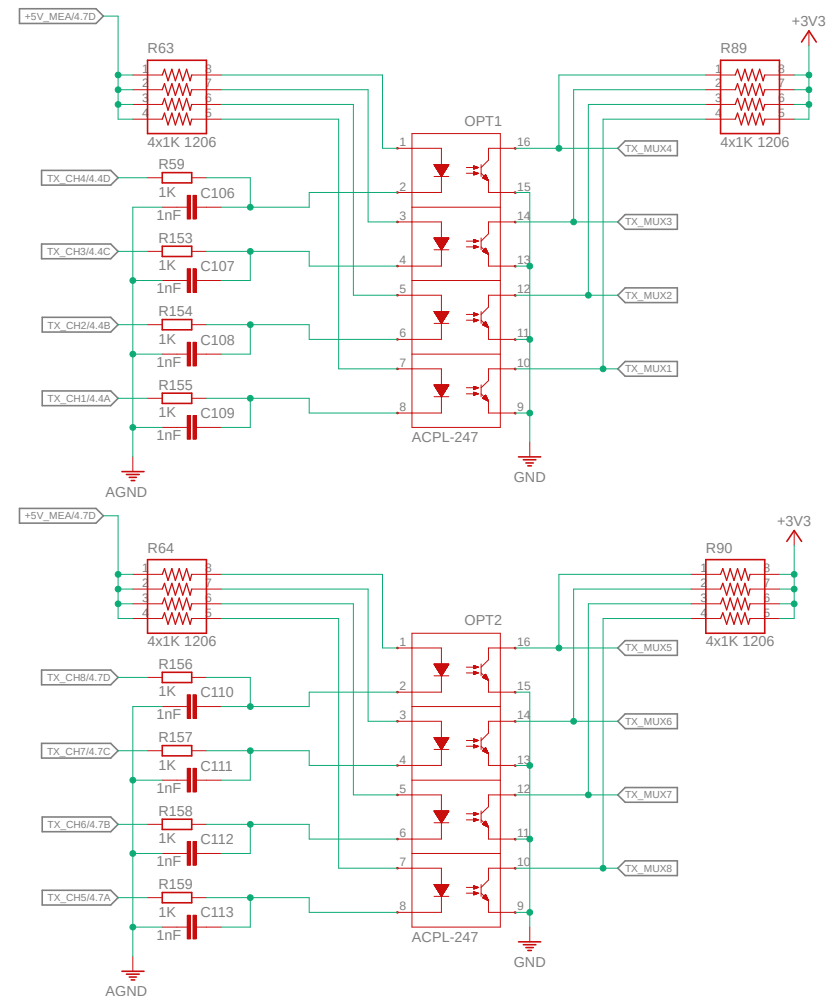
IO DRIVER



SERIAL MUX



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MAIN BOARD

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