

# 1. MCU

## RS485

RS485\_TX\_MCU >>> RS458\_TX\_MCU  
RS485\_RX\_MCU >>> RS458\_RX\_MCU  
RS485\_DIR\_MCU >>> RS458\_DIR\_MCU  
OE\_MCU >>> OE\_MCU

## RS232

RS232\_TX\_MCU >>> RS232\_TX\_MCU  
RS232\_RX\_MCU >>> RS232\_RX\_MCU  
LED1 >>> LED1  
LED2 >>> LED2

## ETHERNET

INTn >>> INTn\_MCU  
MOSI >>> MOSI\_MCU  
MISO >>> MISO\_MCU  
SCLK >>> SCLK\_MCU  
SCSn >>> SCSn\_MCU  
RSTn\_MCU >>> RSTn\_MCU

## BUTTONS

FN1\_BTN >>> FN1\_BTN  
FN2\_BTN >>> FN2\_BTN  
FN3\_BTN >>> FN3\_BTN  
FN4\_BTN >>> FN4\_BTN  
FN5\_BTN >>> FN5\_BTN

## TFT

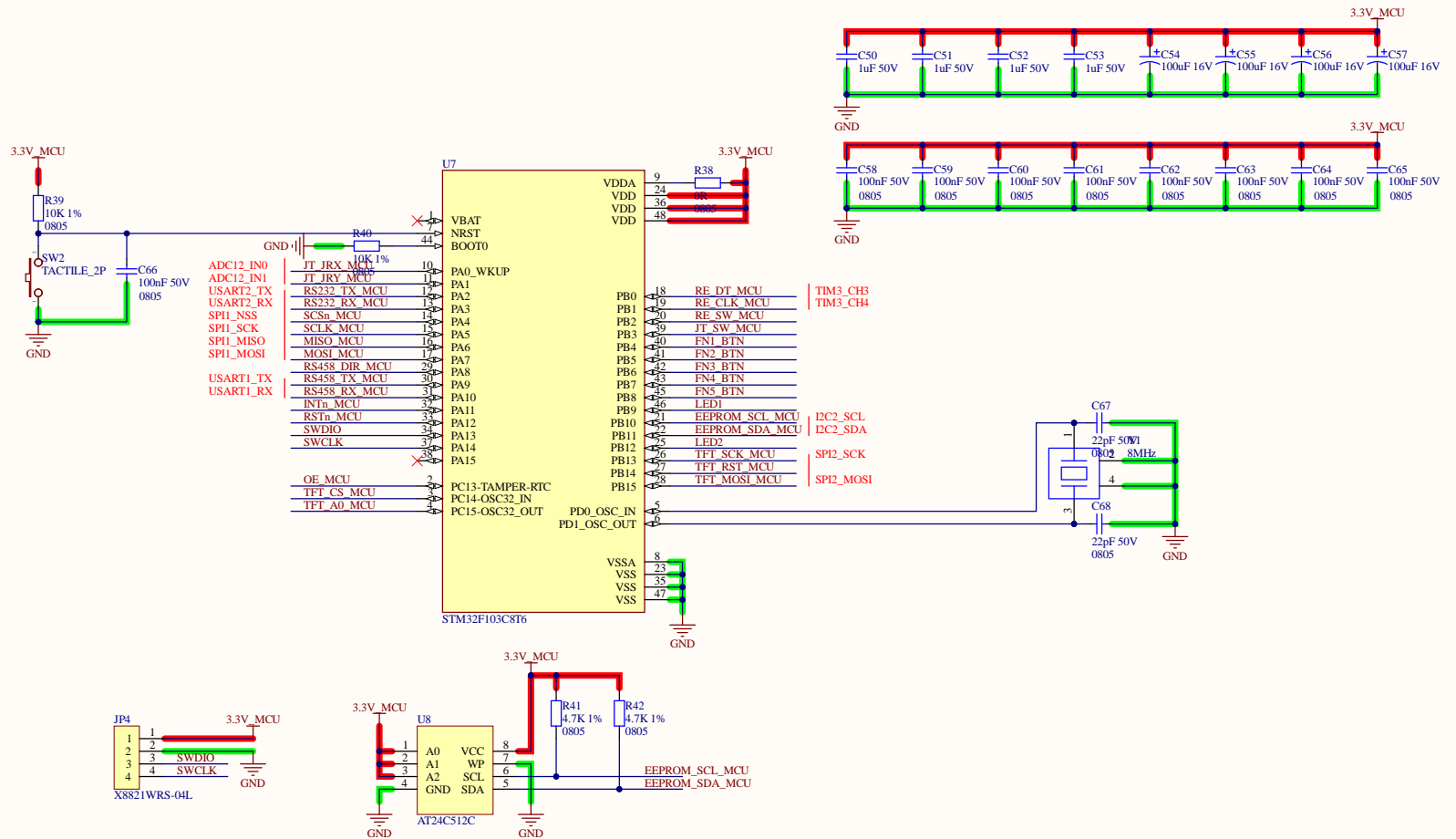
TFT\_SCK\_MCU >>> TFT\_SCK\_MCU  
TFT\_MOSI\_MCU >>> TFT\_MOSI\_MCU  
TFT\_A0\_MCU >>> TFT\_A0\_MCU  
TFT\_RST\_MCU >>> TFT\_RST\_MCU  
TFT\_CS\_MCU >>> TFT\_CS\_MCU

## ROTARY ENCODER

RE\_SW\_MCU >>> RE\_SW\_MCU  
RE\_DT\_MCU >>> RE\_DT\_MCU  
RE\_CLK\_MCU >>> RE\_CLK\_MCU

## JOYSTICK

JT\_JRX\_MCU >>> JT\_JRX\_MCU  
JT\_JRY\_MCU >>> JT\_JRY\_MCU  
JT\_SW\_MCU >>> JT\_SW\_MCU



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## 2. RS485 & RS232

## RS485

Diagram illustrating the RS485 connections for the MCUs:

- RS485\_TX\_MCU is connected to RS485\_TX\_MCU.
- RS485\_RX\_MCU is connected to RS485\_RX\_MCU.
- RS485\_DIR\_MCU is connected to RS485\_DIR\_MCU.
- OE\_MCU is connected to OE\_MCU.

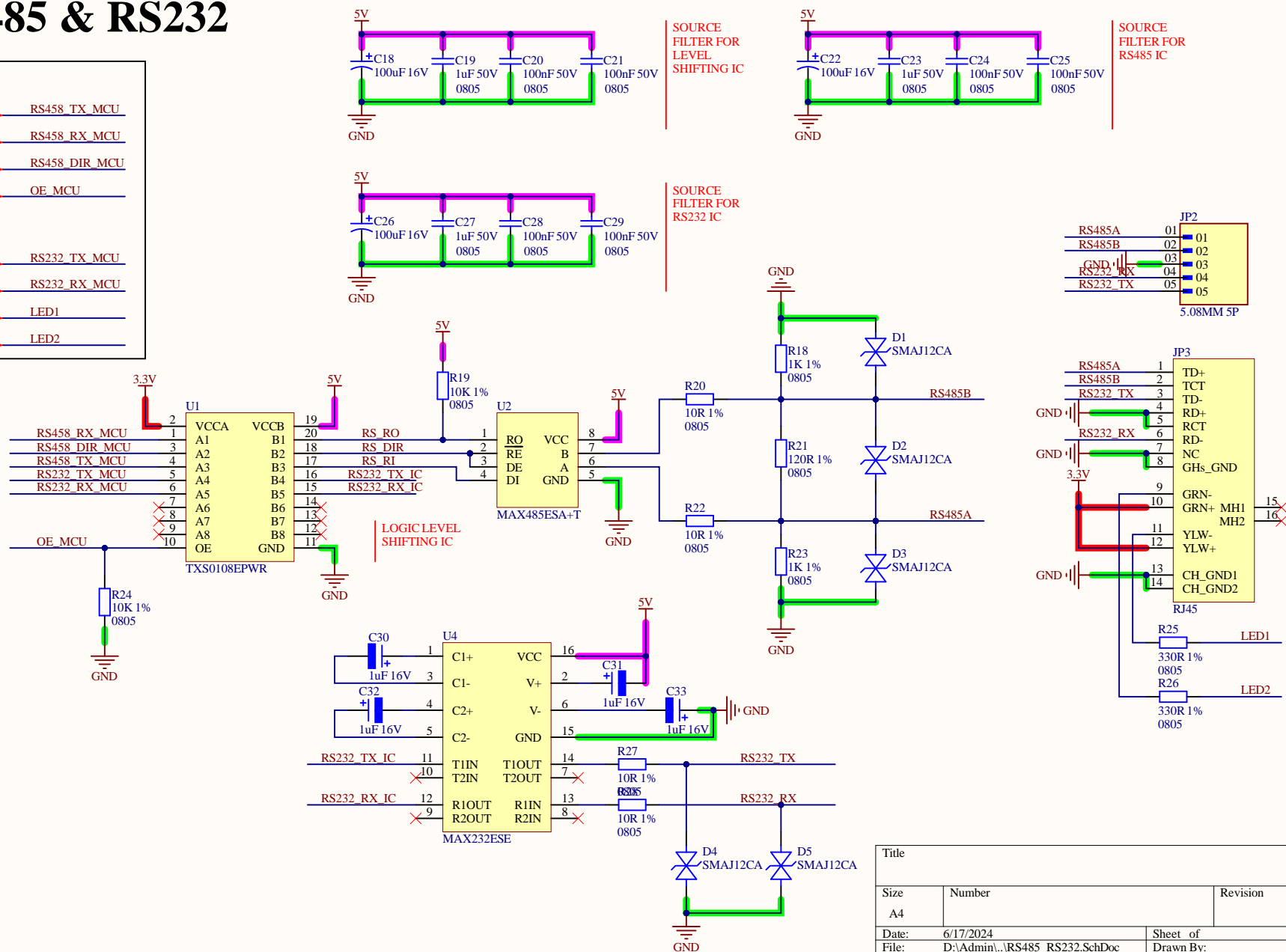
## RS232

RS232\_TX\_MCU >>> RS232\_TX\_MCU

RS232\_RX\_MCU >>> RS232\_RX\_MCU

LED1 >>> LED1

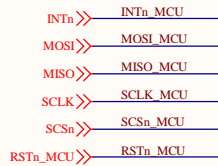
LED2 >>> LED2



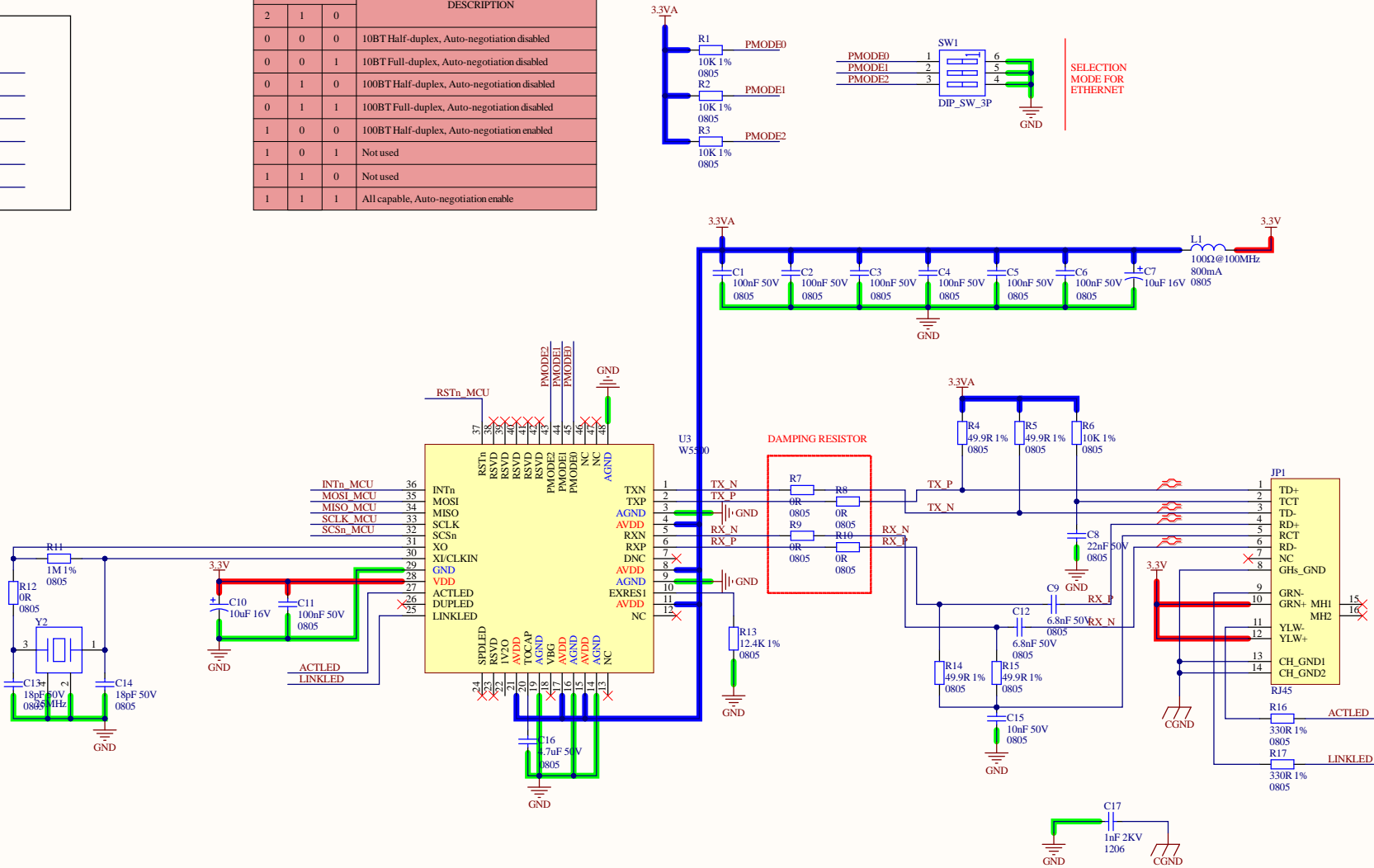
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3. ETHERNET

ETHERNET

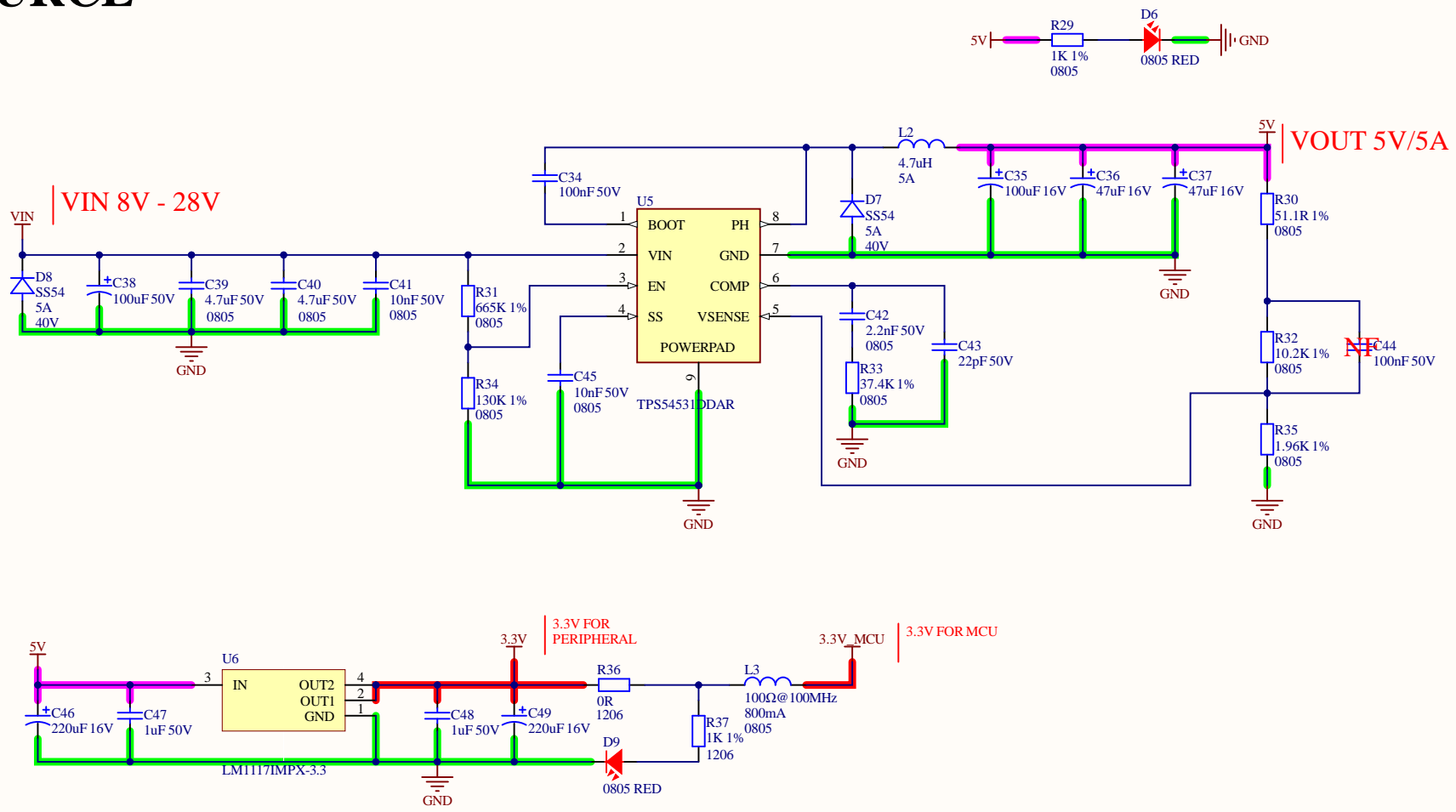


PMODE[2:0]			DESCRIPTION
2	1	0	
0	0	0	10BT Half-duplex, Auto-negotiation disabled
0	0	1	10BT Full-duplex, Auto-negotiation disabled
0	1	0	100BT Half-duplex, Auto-negotiation disabled
0	1	1	100BT Full-duplex, Auto-negotiation disabled
1	0	0	100BT Half-duplex, Auto-negotiation enabled
1	0	1	Not used
1	1	0	Not used
1	1	1	All capable, Auto-negotiation enable



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4. SOURCE



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5. PERIHERALS

BUTTONS

- FN1\_BTN >> FN1\_BTN
- FN2\_BTN >> FN2\_BTN
- FN3\_BTN >> FN3\_BTN
- FN4\_BTN >> FN4\_BTN
- FN5\_BTN >> FN5\_BTN

TFT

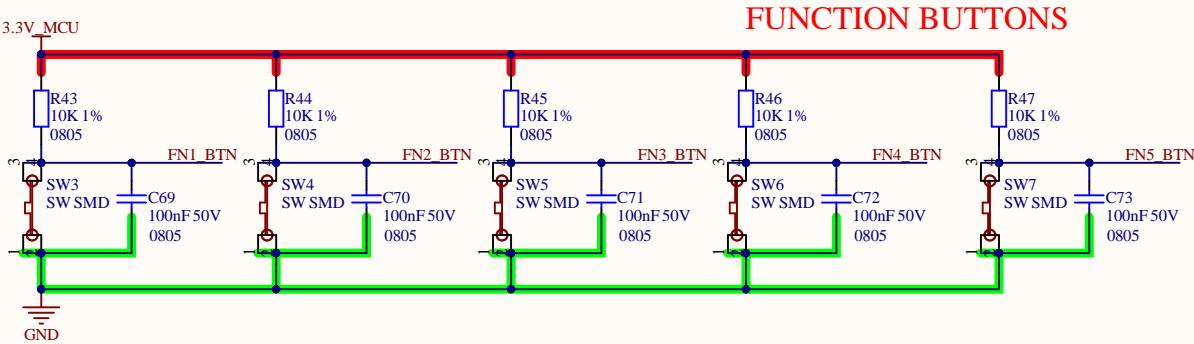
- TFT\_SCK\_MCU >> TFT\_SCK\_MCU
- TFT\_MOSI\_MCU >> TFT\_MOSI\_MCU
- TFT\_A0\_MCU >> TFT\_A0\_MCU
- TFT\_RST\_MCU >> TFT\_RST\_MCU
- TFT\_CS\_MCU >> TFT\_CS\_MCU

ROTARY ENCODER

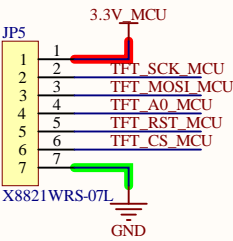
- RE\_SW\_MCU >> RE\_SW\_MCU
- RE\_DT\_MCU >> RE\_DT\_MCU
- RE\_CLK\_MCU >> RE\_CLK\_MCU

JOYSTICK

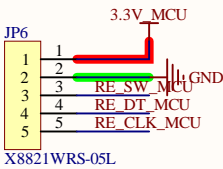
- JT\_JRX\_MCU >> JT\_JRX\_MCU
- JT\_JRY\_MCU >> JT\_JRY\_MCU
- JT\_SW\_MCU >> JT\_SW\_MCU



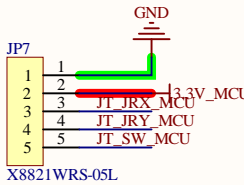
TFT 1.8INCH



ROTARY ENCODER



JOYSTICK



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