

STM32L4R9I-EVAL

MB1313

Table of contents

Sheet 1: Project overview (this page)

Sheet 2: MB1313_Top

Sheet 3: MCU

Sheet 4: Power

Sheet 5: Memory&TFT LCD

Sheet 6: Audio

Sheet 7: DSI LCD

Sheet 8: Peripherals

Sheet 9: Analog and TS

Sheet 10: ST_LINK_V2-1

Sheet 11: IDD_measurement

Sheet 12: JTAG&Trace

Sheet 13: MotorControl

Sheet 14: USB_OTG_FS

Sheet 15: Interface

Sheet 16: OctoSPI

Sheet 17: ExtensionConnector

Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

A

Notes to generate the board layout.

Open Platform License Agreement

The Open Platform License Agreement (“Agreement”) is a binding legal contract between you (“You”) and STMicroelectronics International N.V. (“ST”), a company incorporated under the laws of the Netherlands acting for the purpose of this Agreement through its Swiss branch 39, Chemin du Champ des Filles, 1228 Plan-les-Ouates, Geneva, Switzerland.

By using the enclosed reference designs, schematics, PC board layouts, and documentation, in hardcopy or CAD tool file format (collectively, the “Reference Material”), You are agreeing to be bound by the terms and conditions of this Agreement. Do not use the Reference Material until You have read and agreed to this Agreement terms and conditions. The use of the Reference Material automatically implies the acceptance of the Agreement terms and conditions.

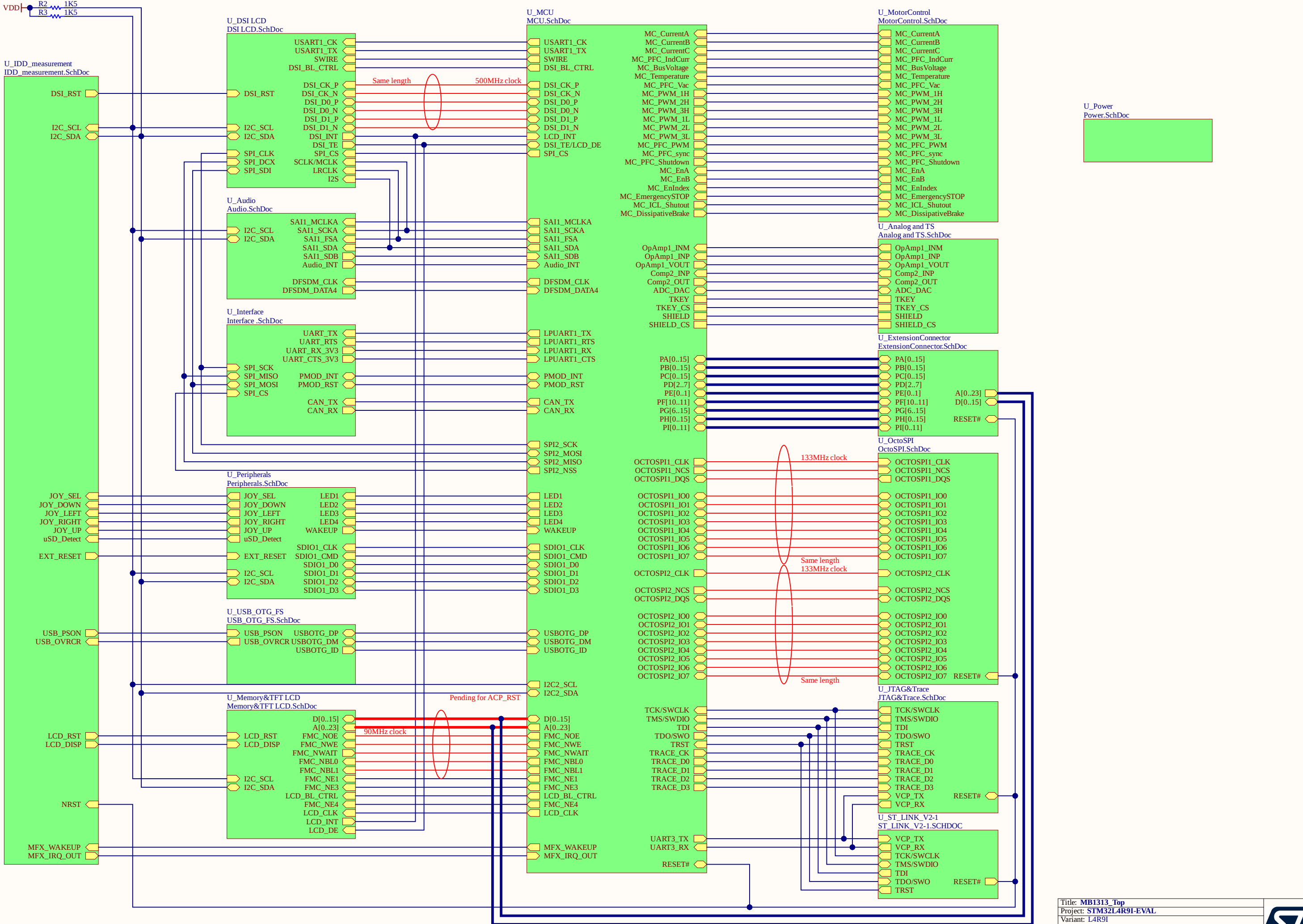
The complete Open Platform License Agreement can be found on www.st.com/opla.

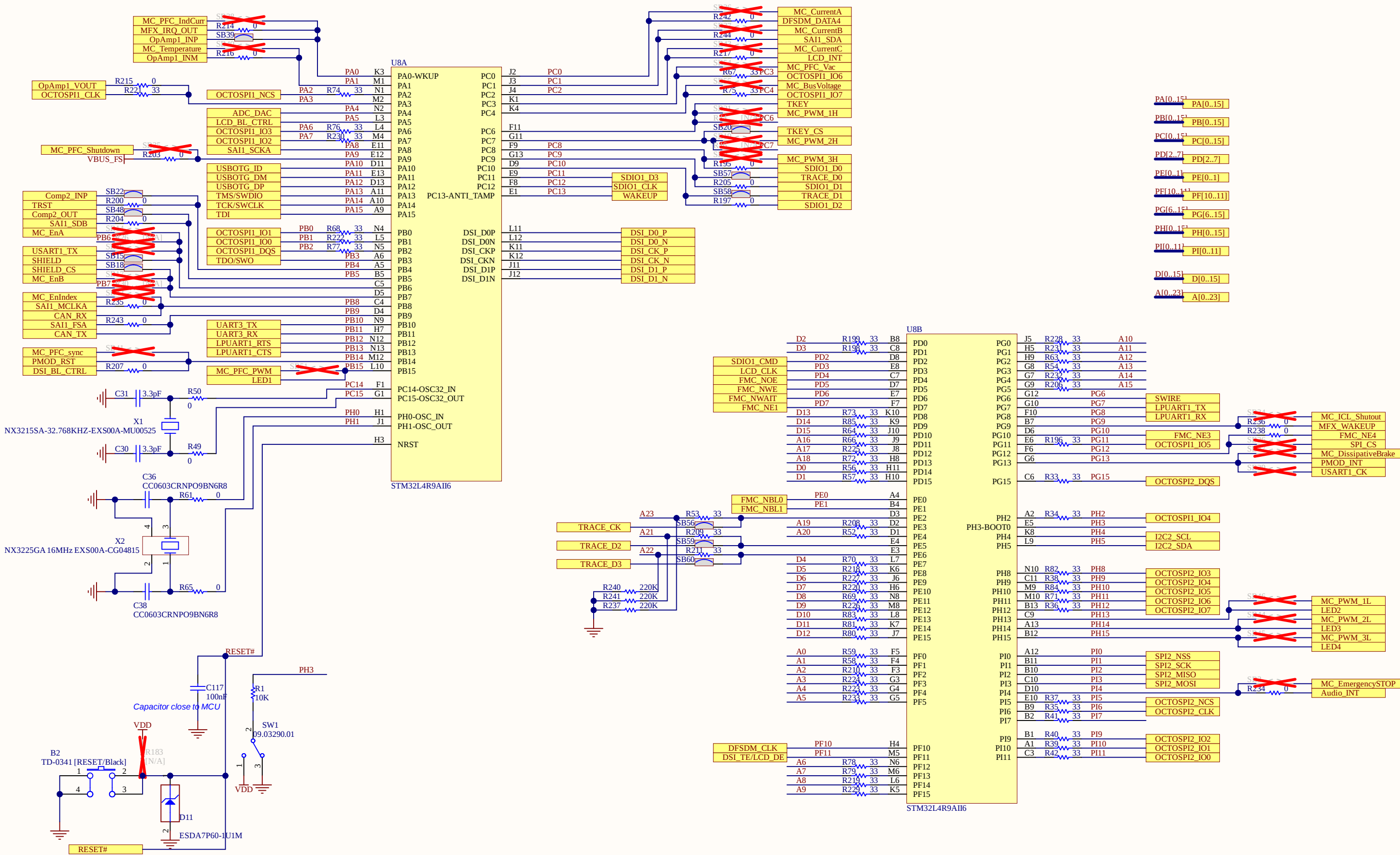
U_MB1313_Top
MB1313_Top.SchDoc

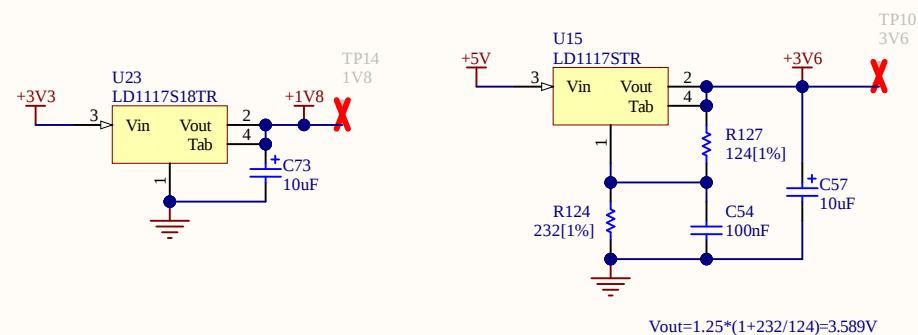


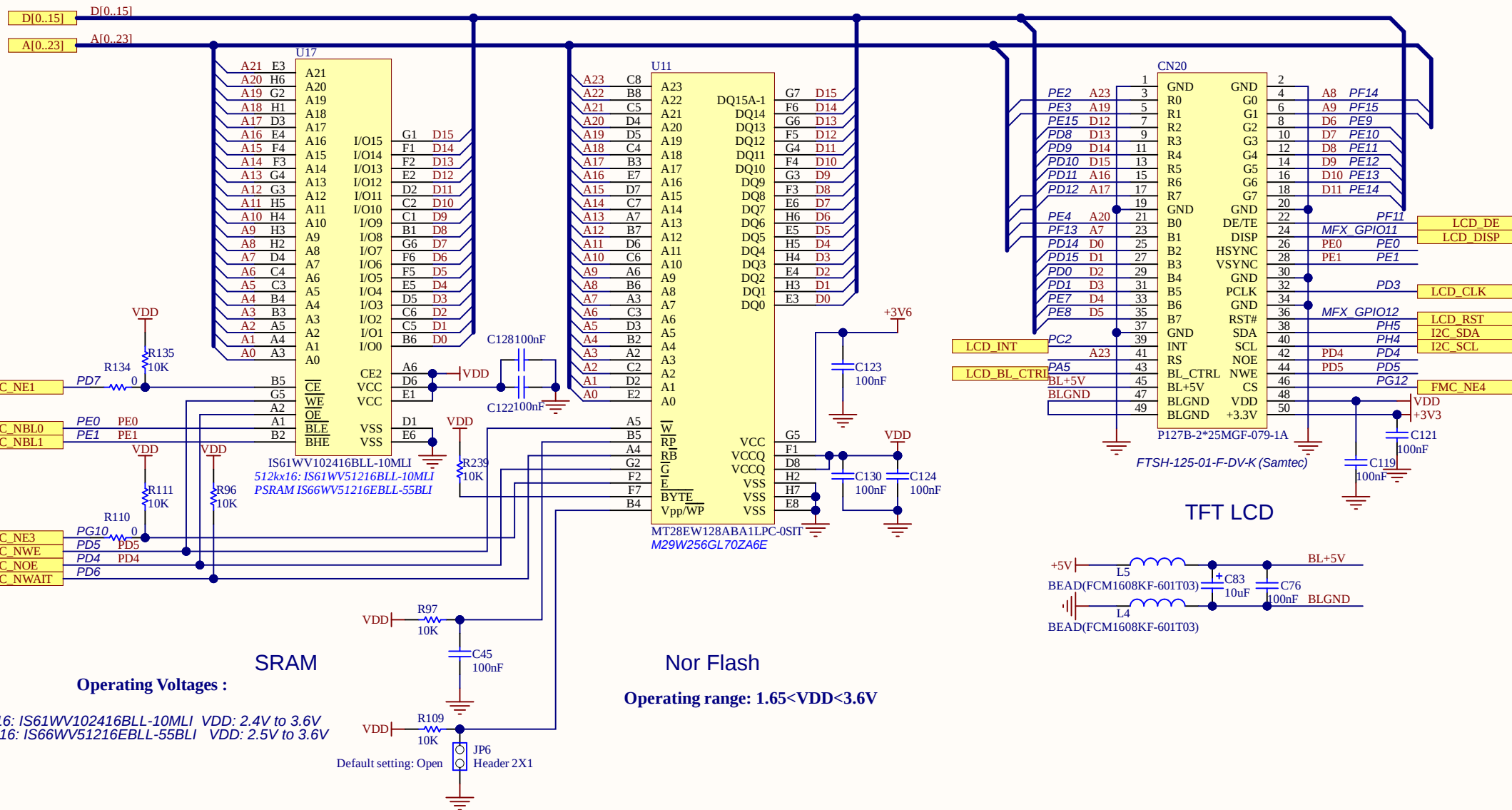
Title: Project overview		
Project: STM32L4R9I-EVAL		
Variant: L4R9I		
Revision: B-02		Reference: MB1313
Size: A4	Date: 27-JAN-21	Sheet: 1 of 17



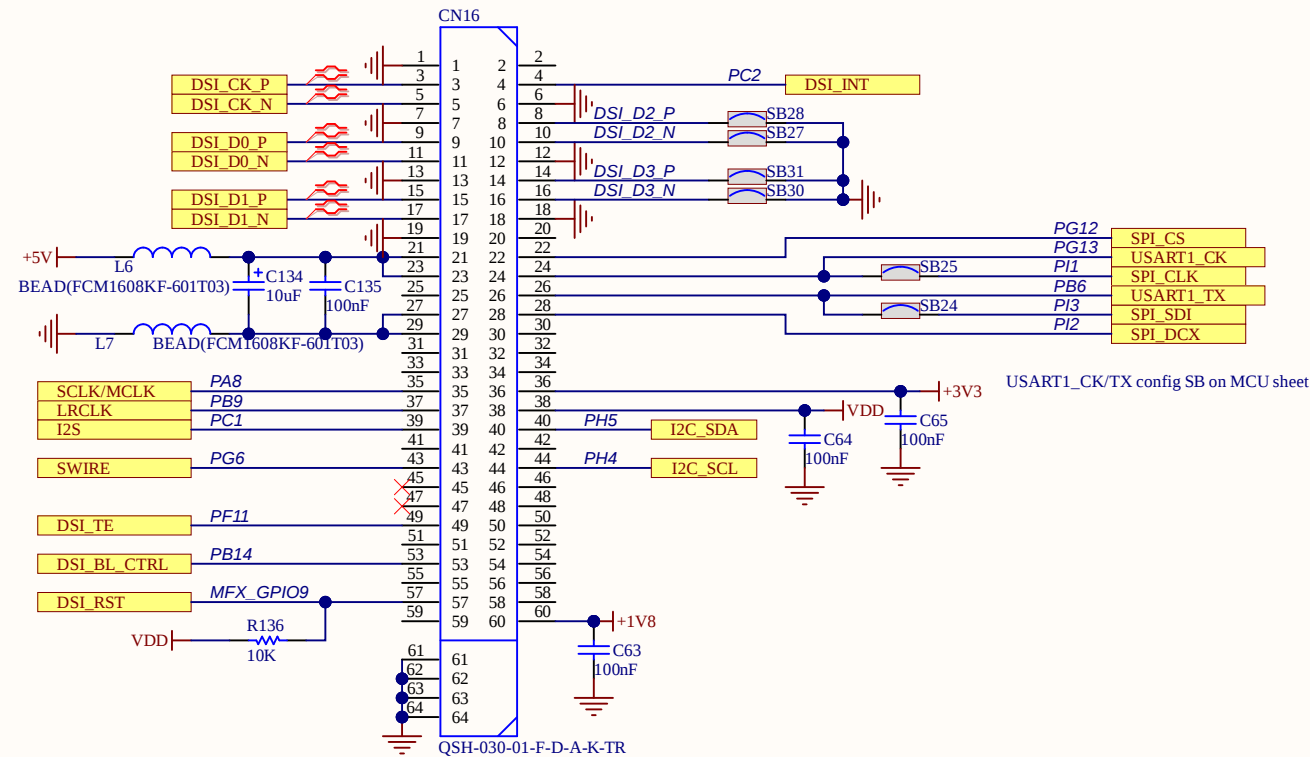








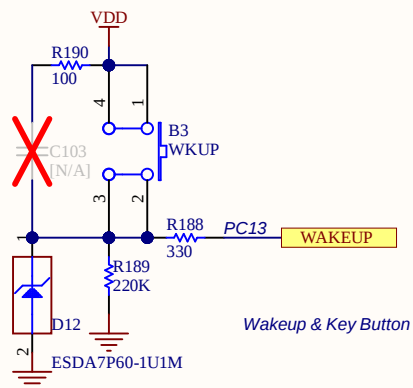
DSI LCD



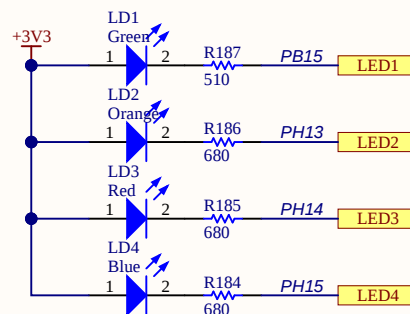
Operating range:
1. GVO LCD IEG1120TB103GF-001 works at 1.65V<VDD<3.3V
2. MB1166 board works at VDD=3.3V only



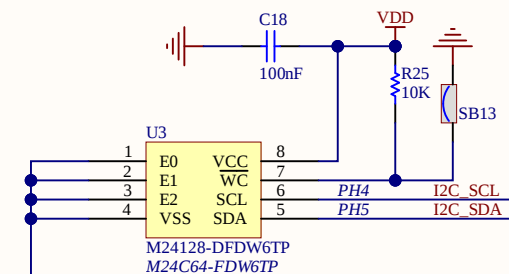
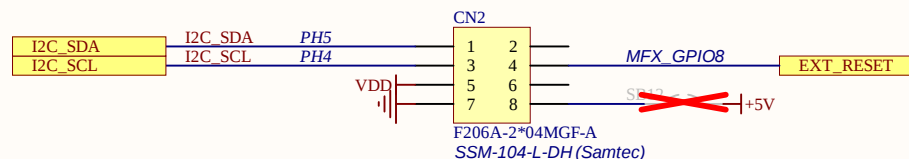
Buttons



LEDs



EXT_I2C Connector



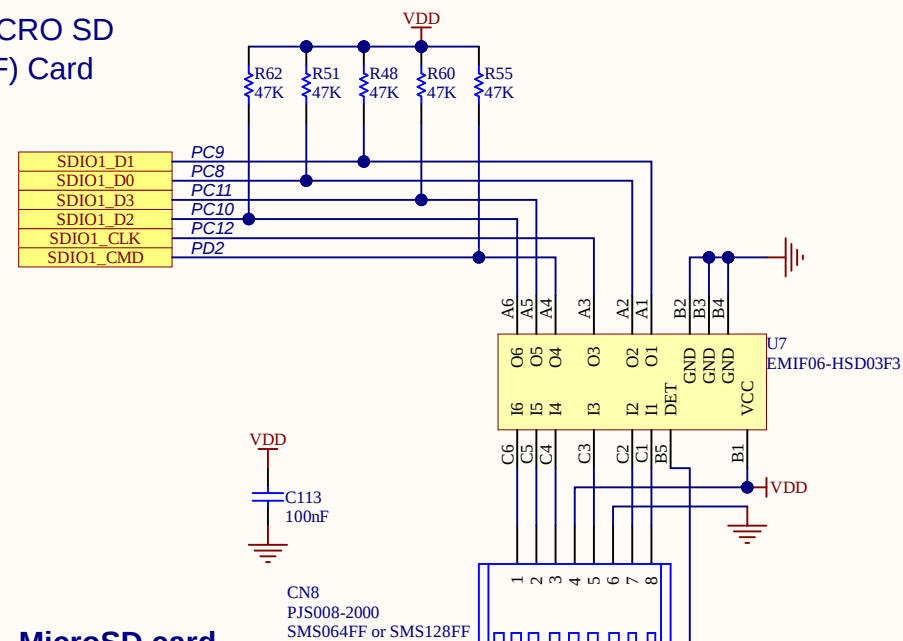
I2C EEPROM

I2C address: 0xA0

operating voltage ranges:

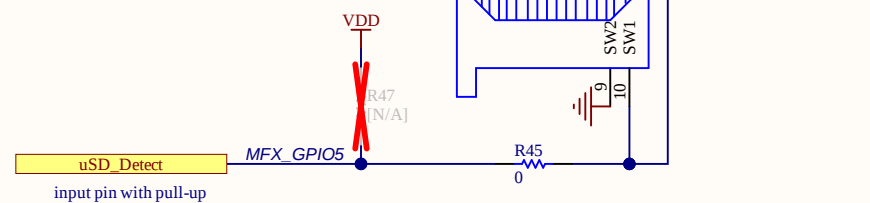
1MHz 64Kbit I2C memory M24C64-FDW6TP: 1.7 to 5.5V
1MHz 128Kbit I2C memory M24128-FDW6TP: 1.7 to 5.5V

MICRO SD (TF) Card

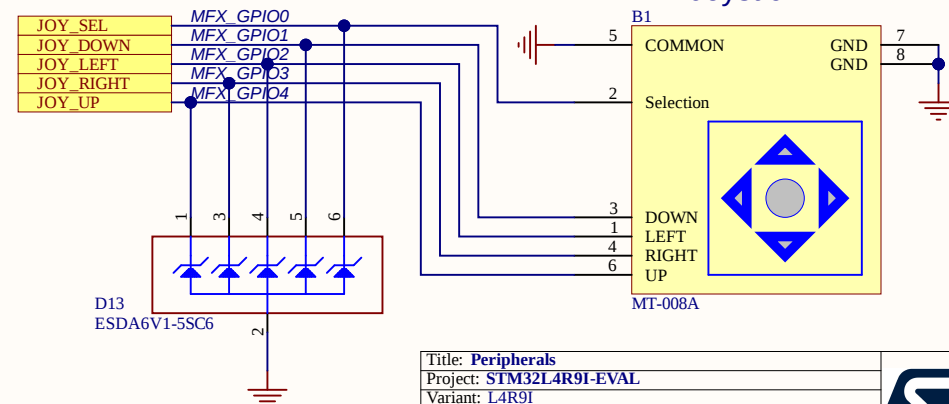


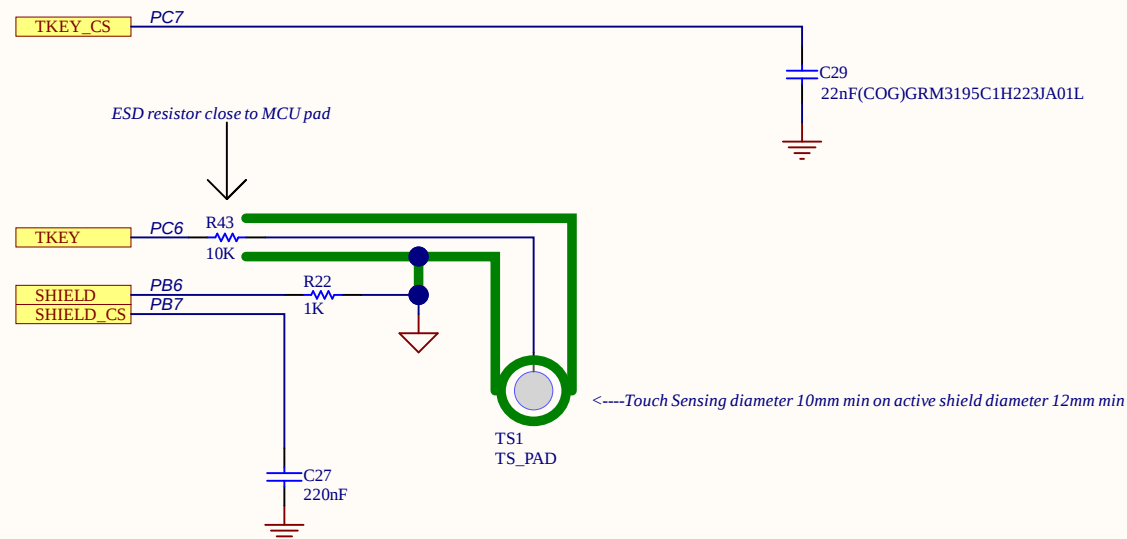
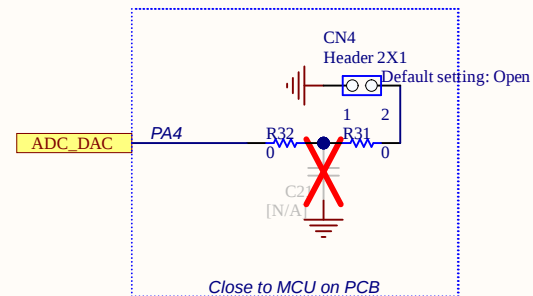
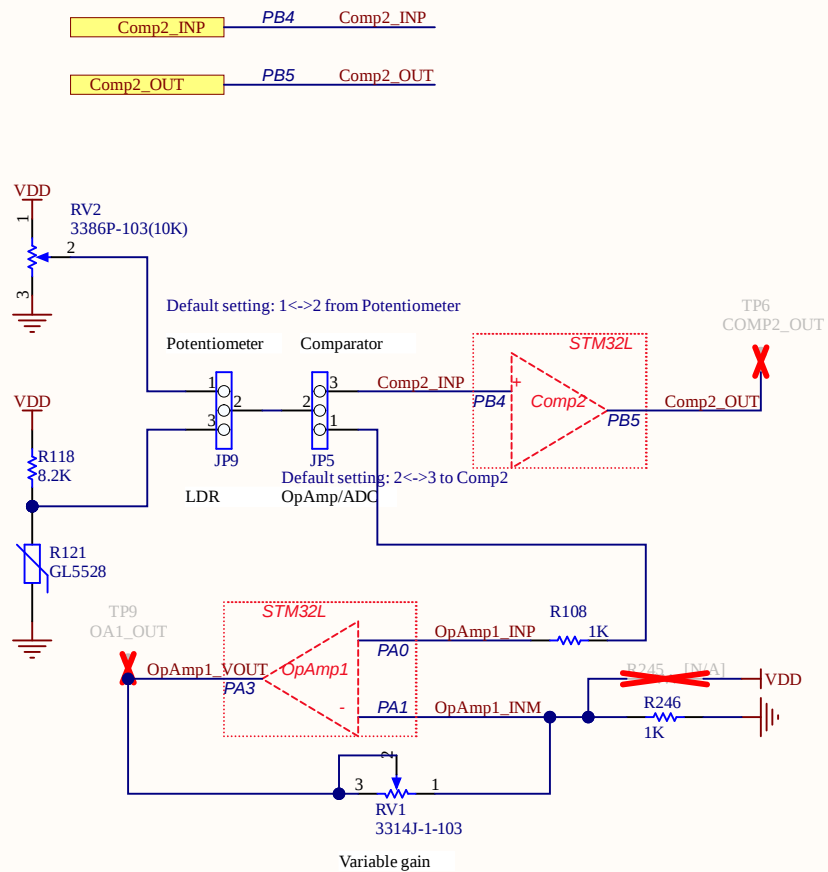
MicroSD card

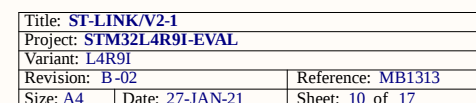
Operating Voltage: VDD no Lower than 2.7V

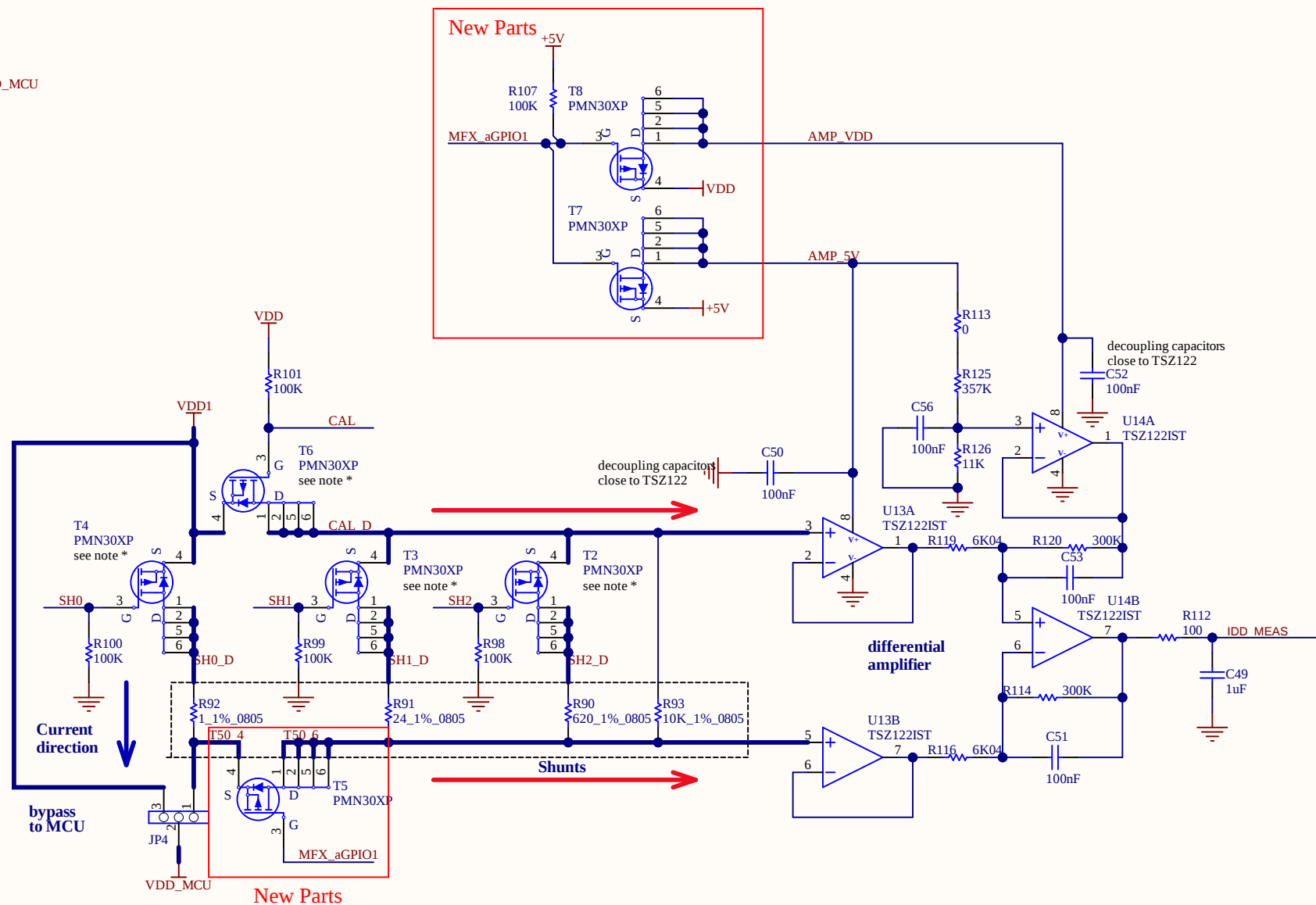
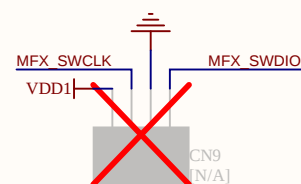
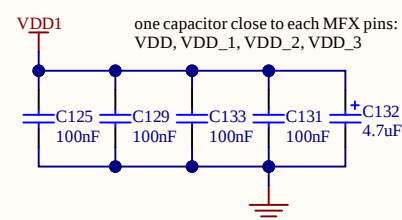
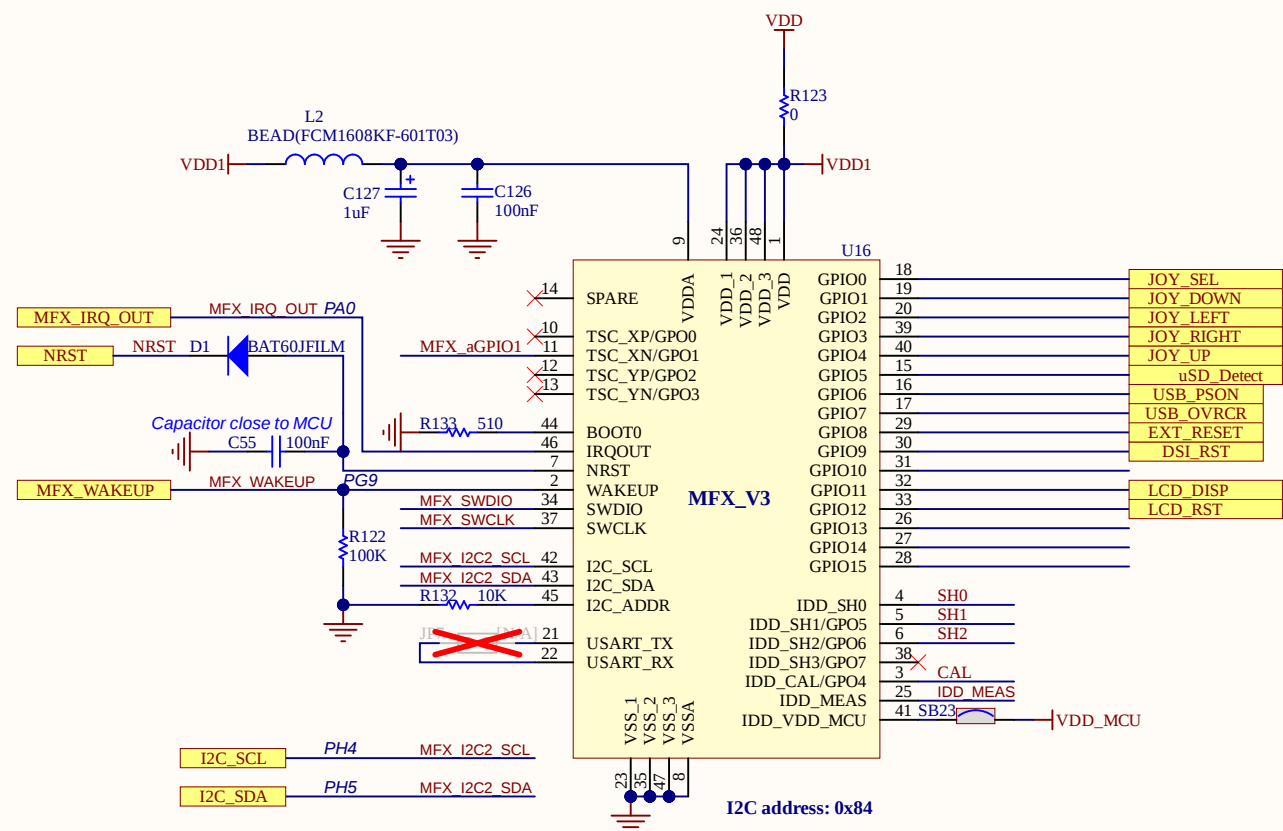


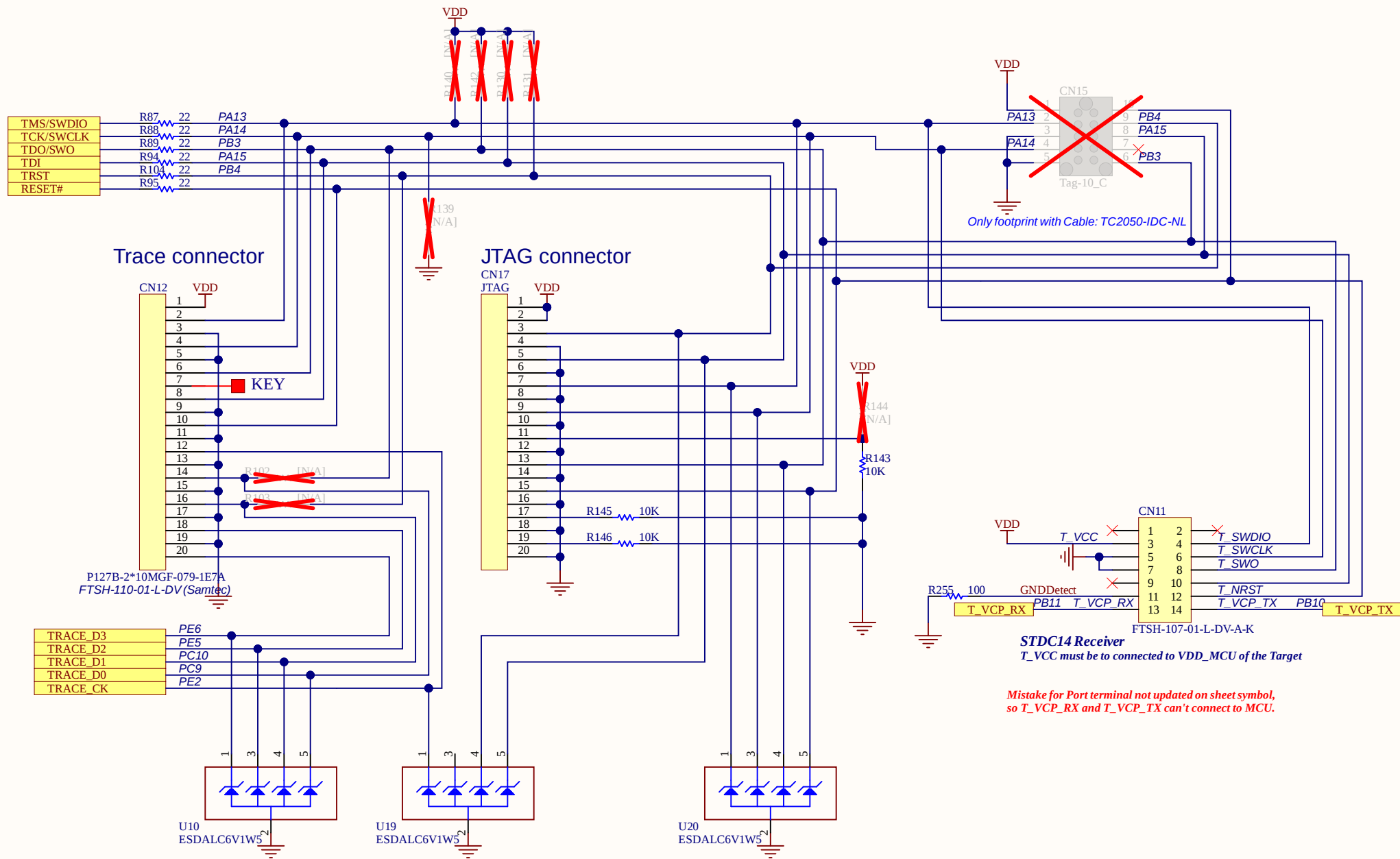
Joystick

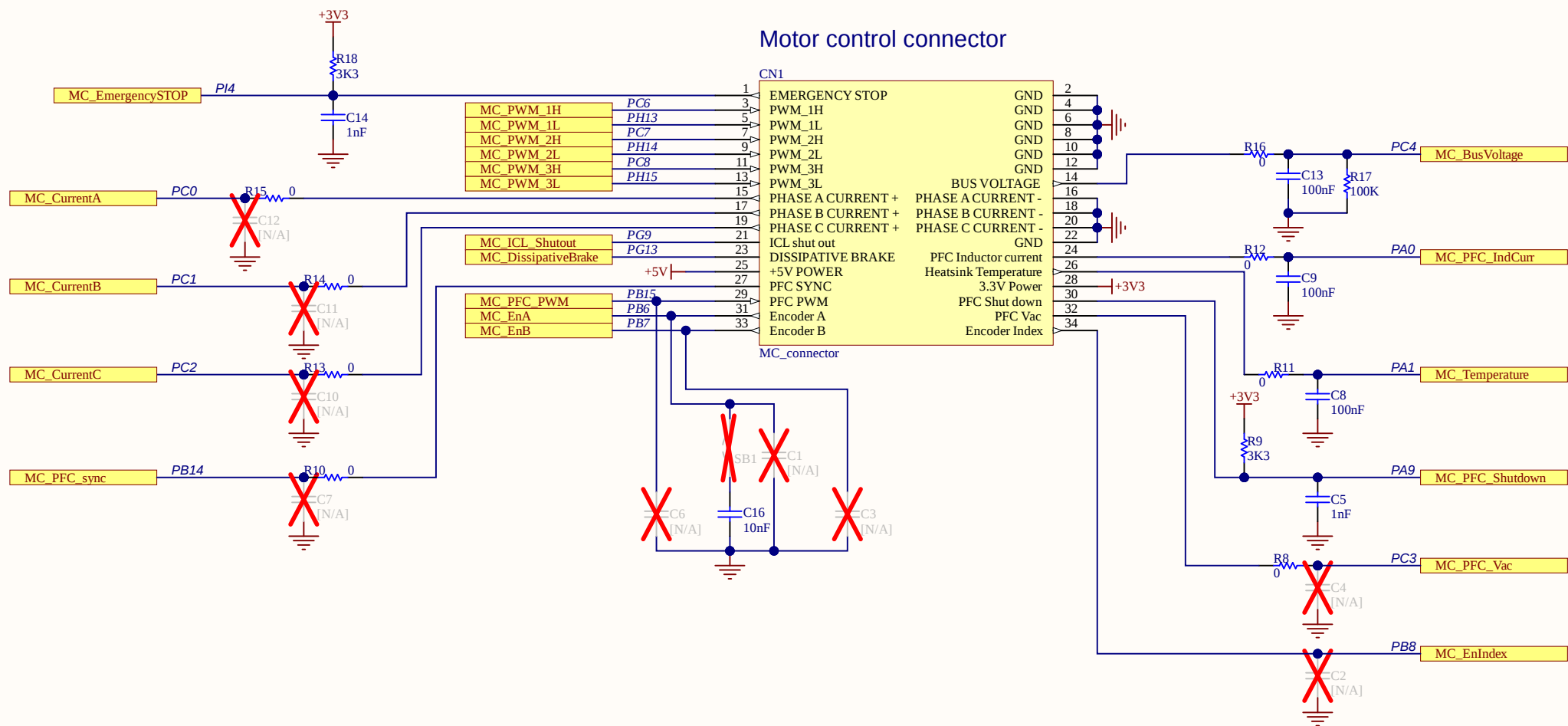






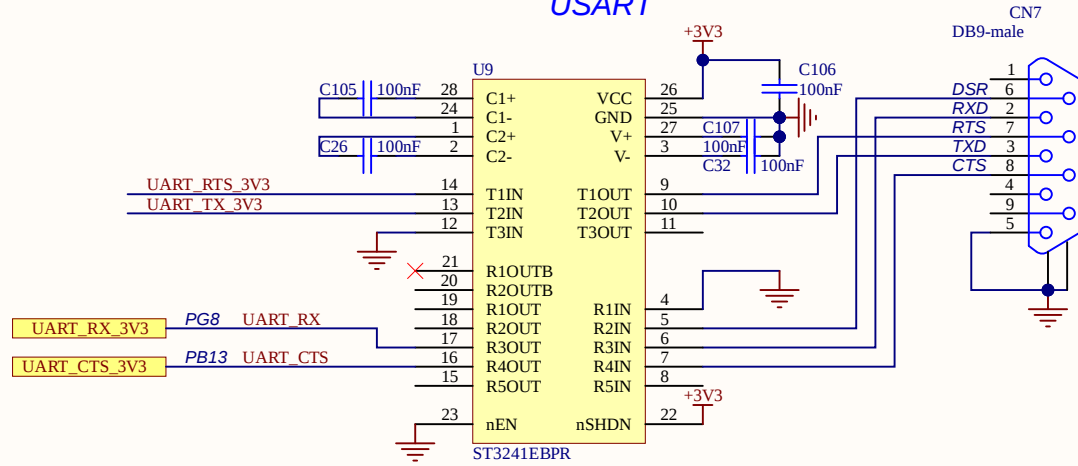




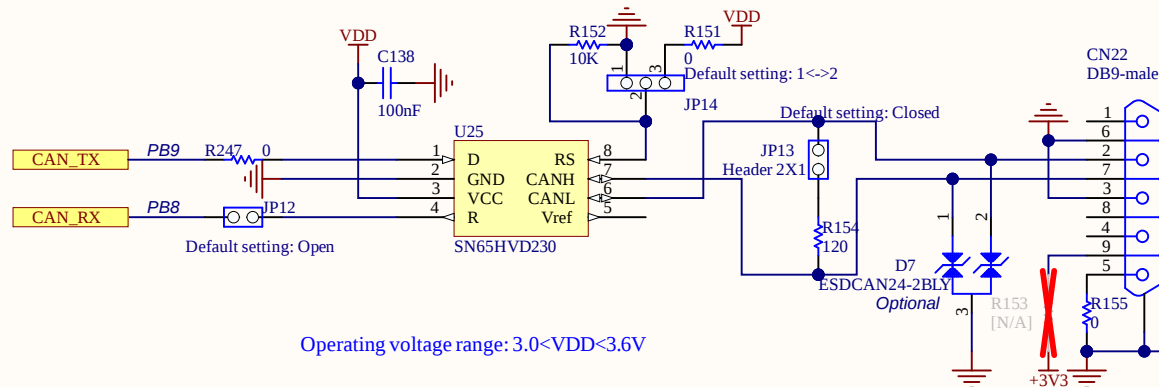
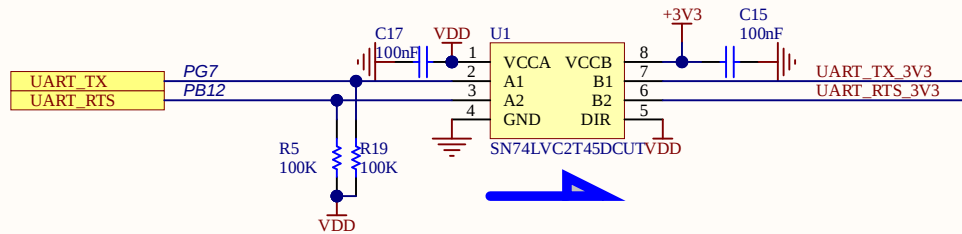
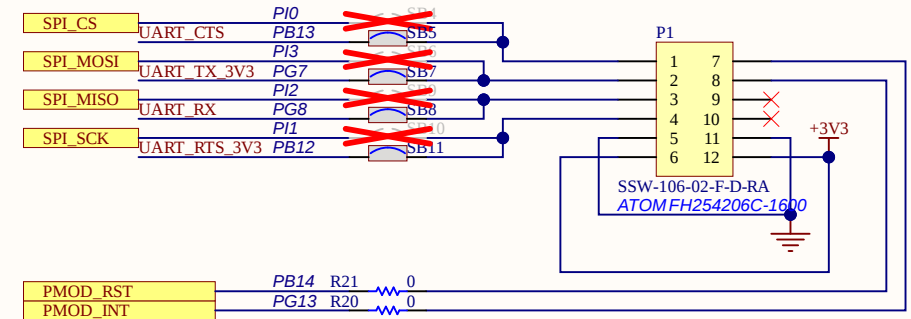




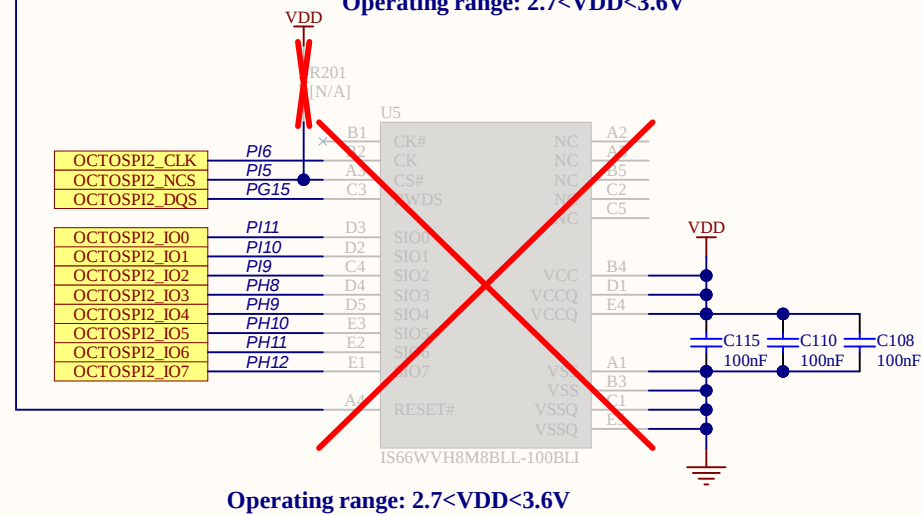
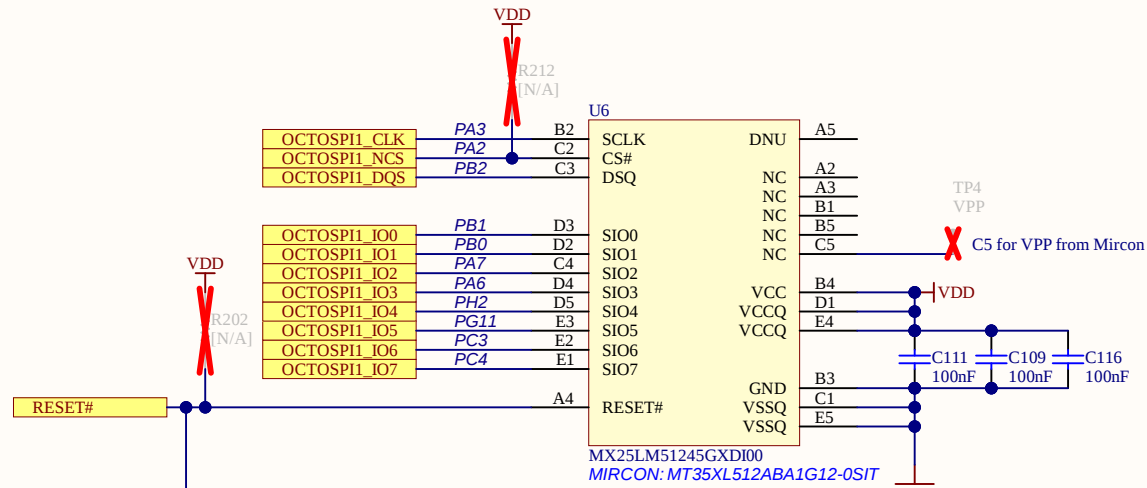
USART

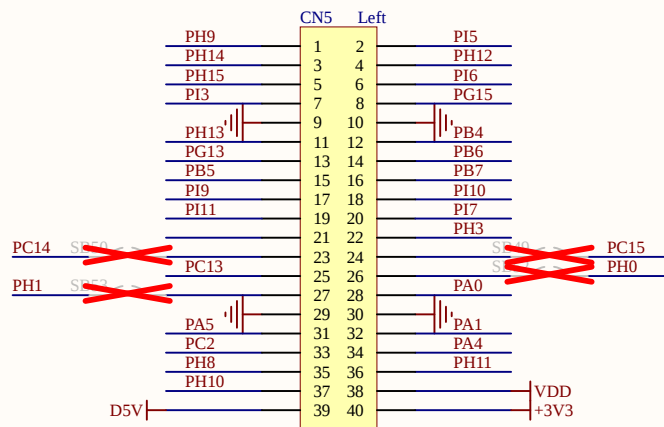


PMOD

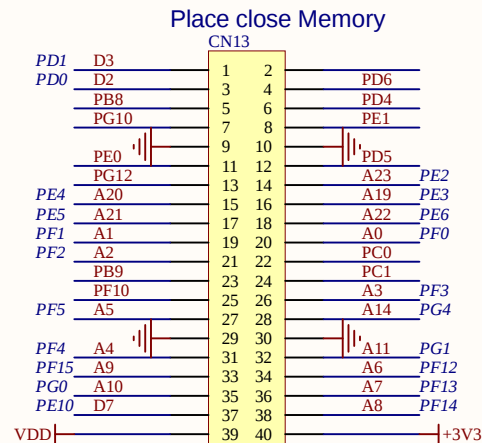


Operating voltage range: 3.0<VDD<3.6V



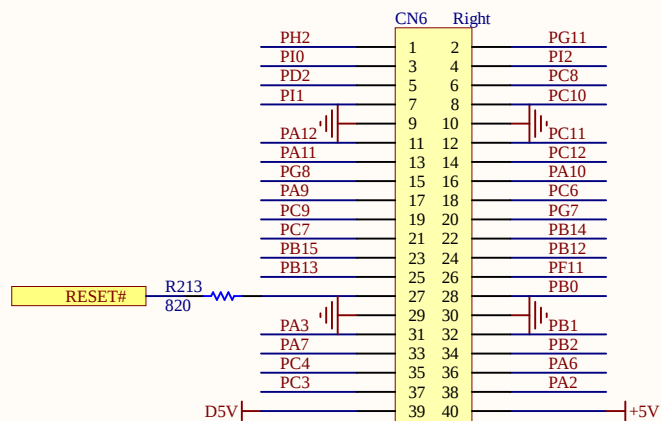


P1039-2*20MGF-089-1A

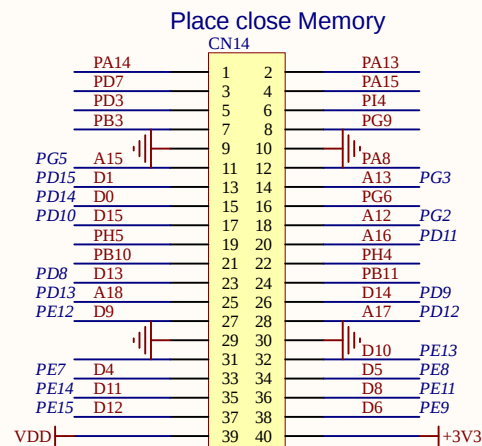


P1039-2*20MGF-089-1A
FTR-120-03-L-D-LC (Samtec)

PA[0..15] PA[0..15]
PB[0..15] PB[0..15]
PC[0..15] PC[0..15]
PD[2..7] PD[2..7]
PE[0..1] PE[0..1]
PF[10..11] PF[10..11]
PG[6..15] PG[6..15]
PH[0..15] PH[0..15]
PI[0..11] PI[0..11]
DI[0..15] DI[0..15]
A[0..23] A[0..23]



P1039-2*20MGF-089-1A



P1039-2*20MGF-089-1A
FTR-120-03-L-D-LC (Samtec)

