

STM32H747I-DISCO

MB1248

Table of contents

Sheet 1: Project overview (this page)

Sheet 2: Top

Sheet 3: MCU

Sheet 4: Power

Sheet 5: Memory

Sheet 6: Audio

Sheet 7: LCD&Camera

Sheet 8: Ethernet

Sheet 9: QSPI

Sheet 10: Peripherals

Sheet 11: PMOD_STMod+ Connector

Sheet 12: STLink_V3E_Module

Sheet 13: DEBUG

Sheet 14: Arduino connectors

Sheet 15: USB_OTG

Sheet 16: STLink_V3E_PWR

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.

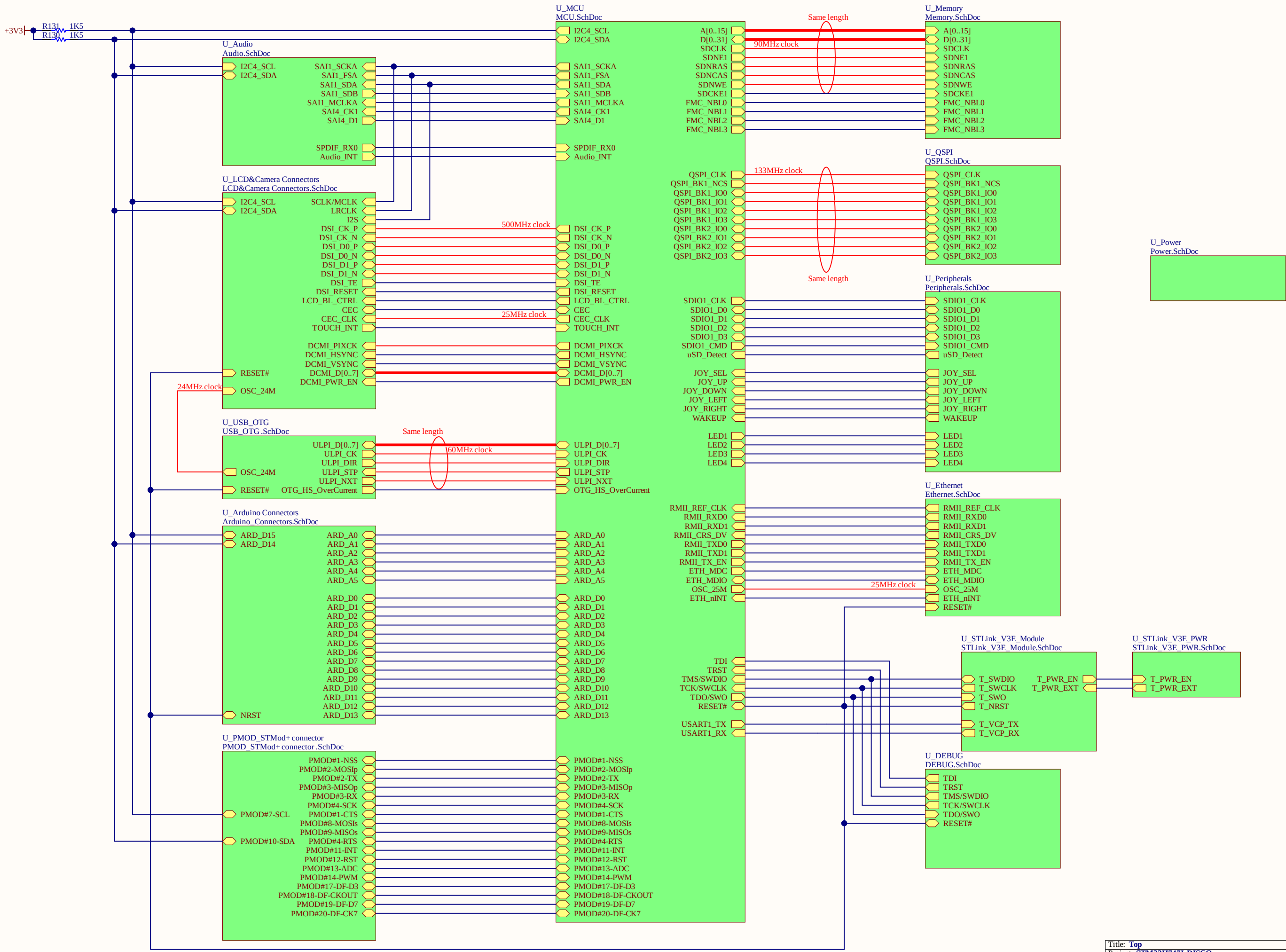
The complete Open Platform License Agreement can be found on www.st.com/opla.

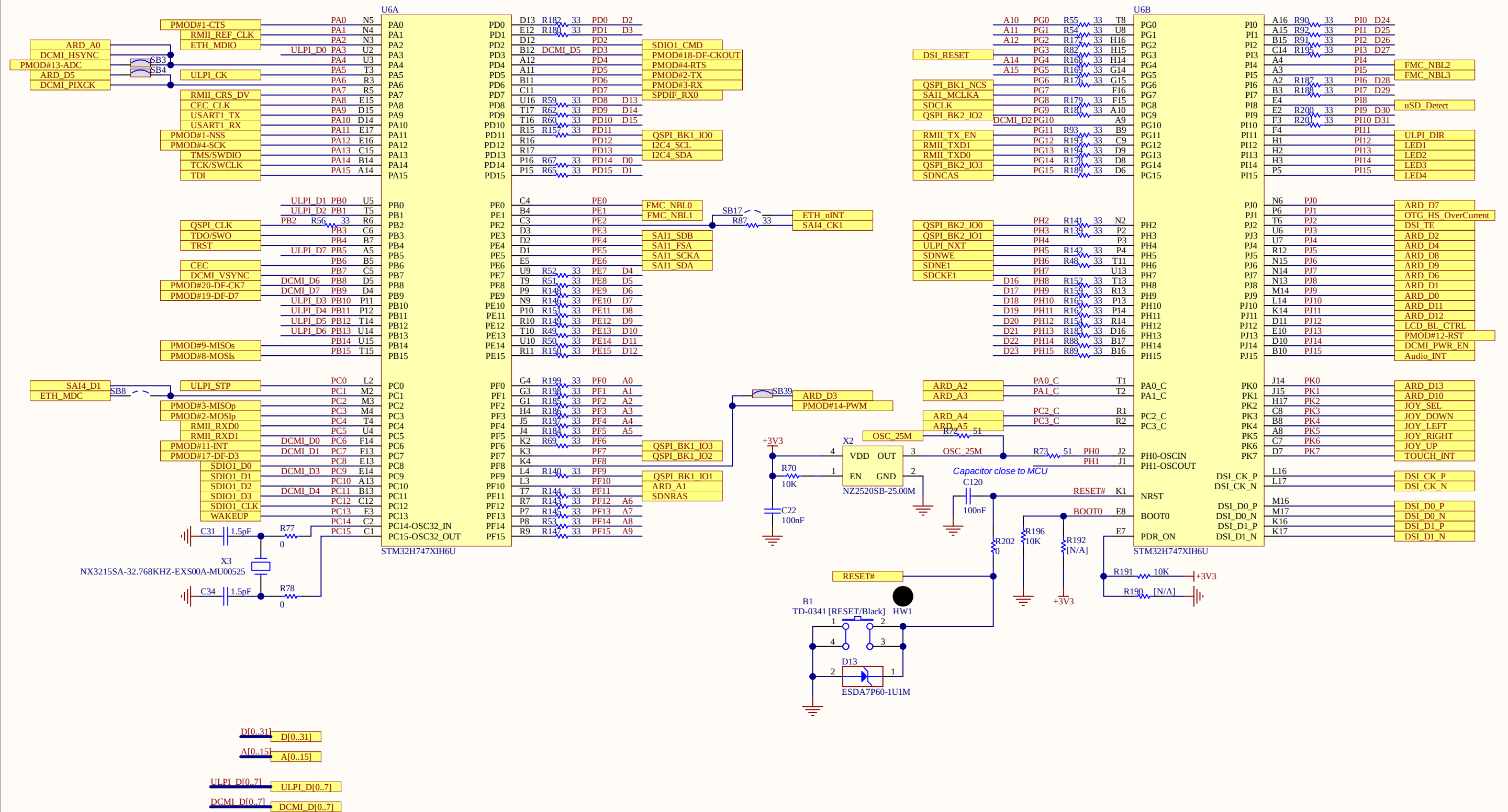
U_MB1248
Top.SchDoc



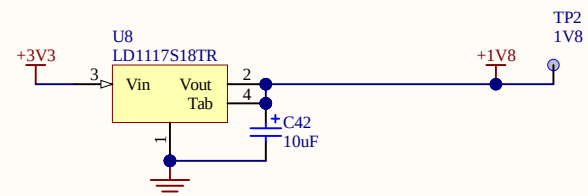
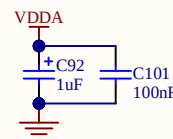
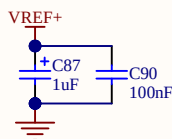
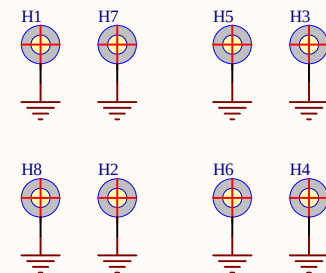
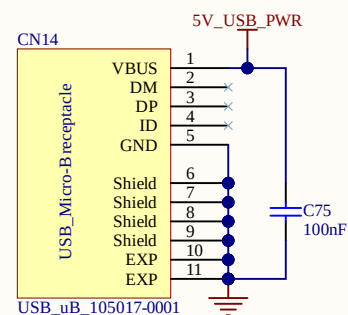
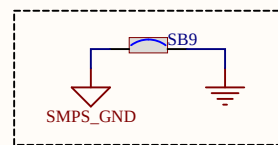
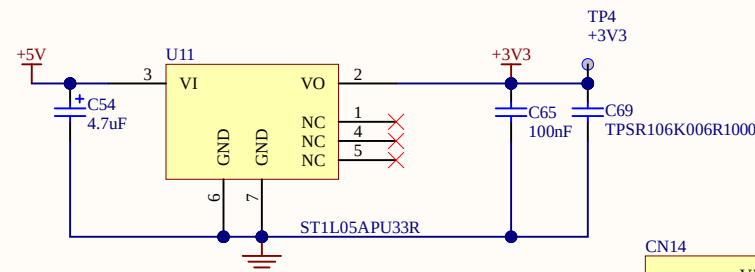
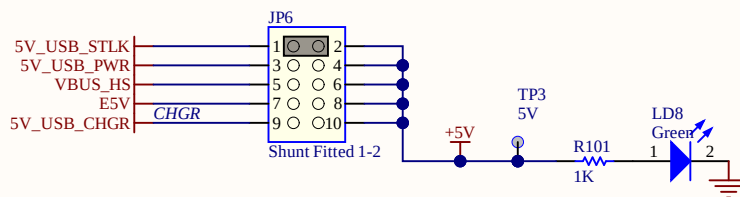
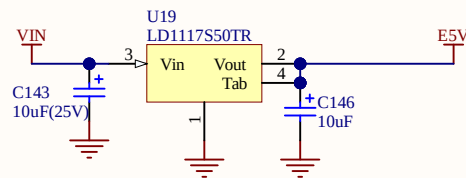
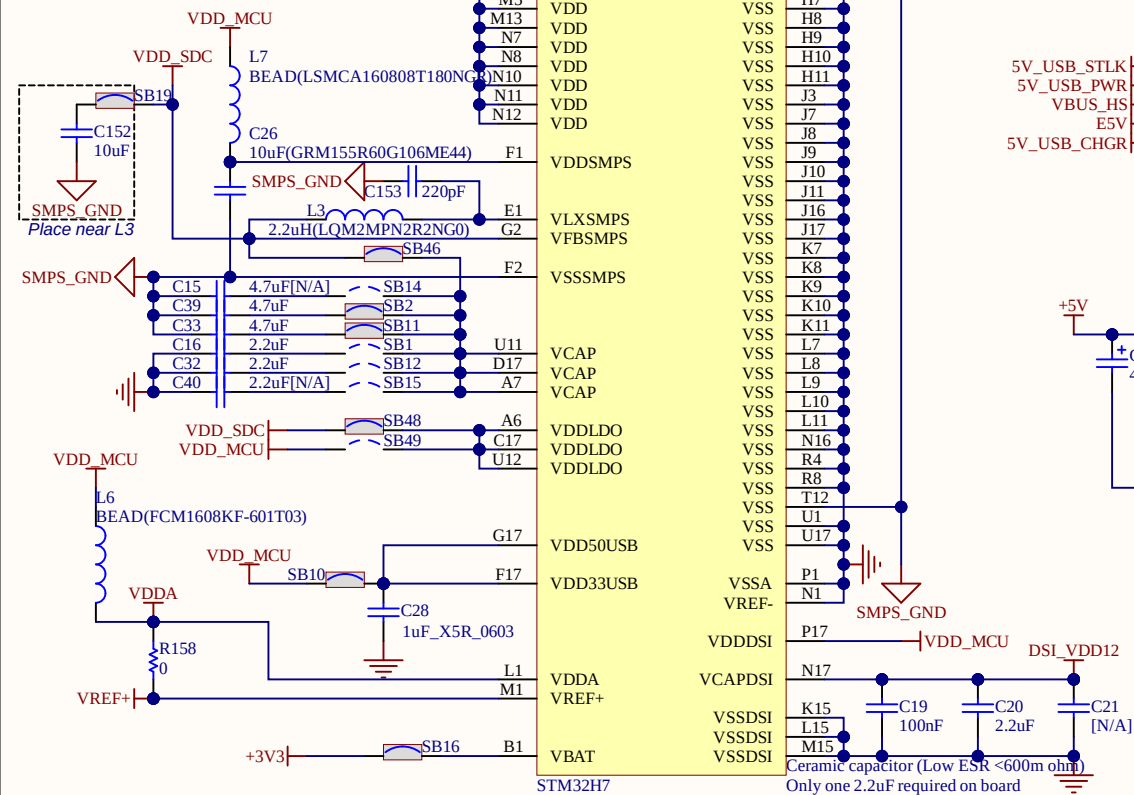
Title: Project overview		
Project: STM32H747I-DISCO		
Variant: H747I		
Revision: D-04		Reference: MB1248
Size: A4	Date: 03/04/2024	Sheet: 1 of 16

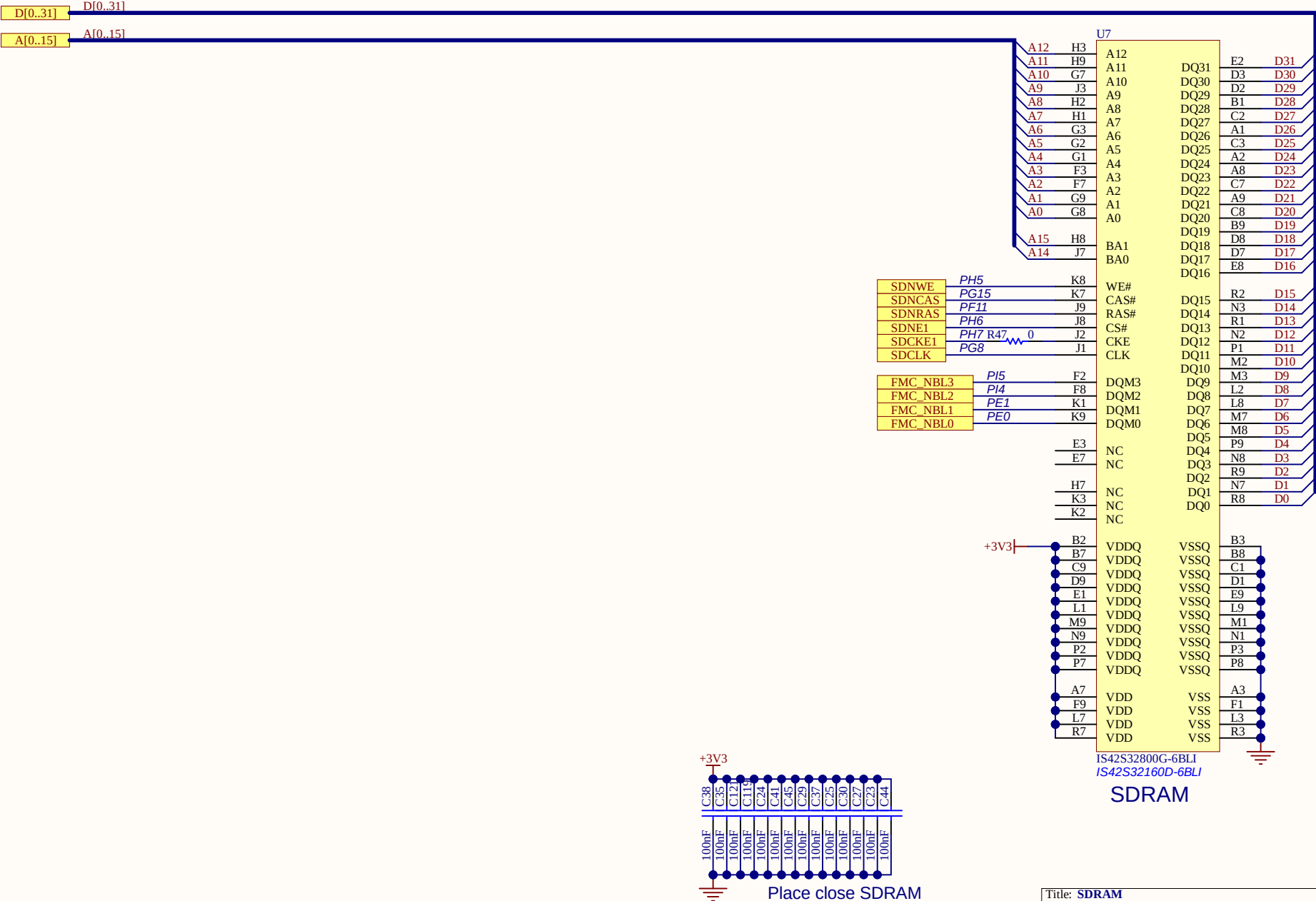


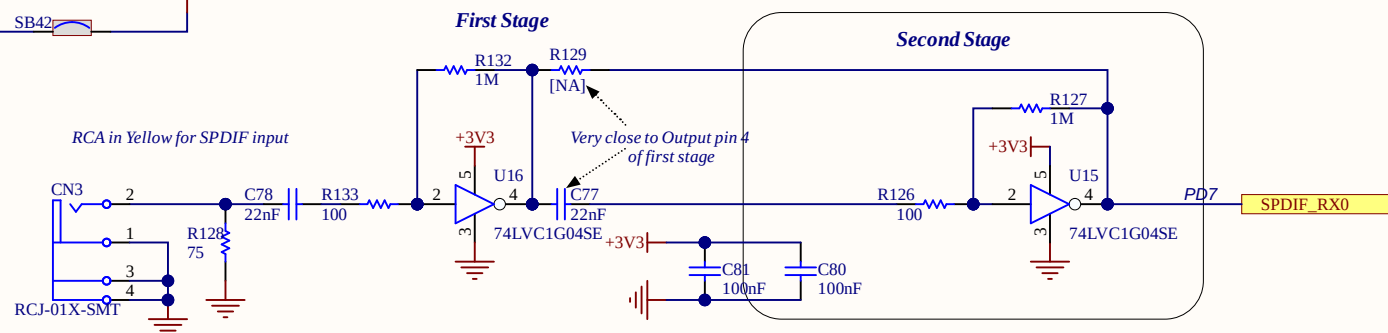
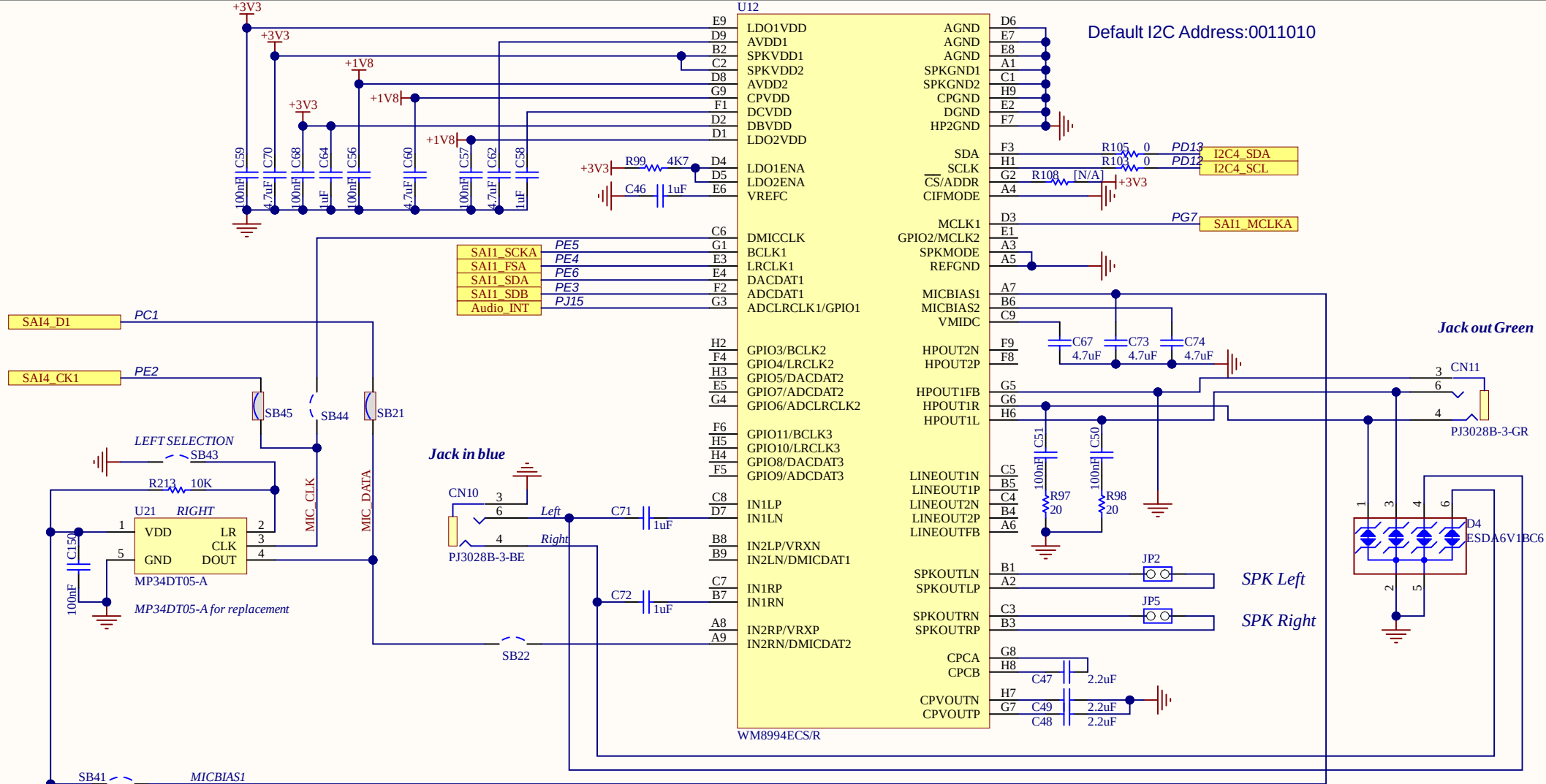




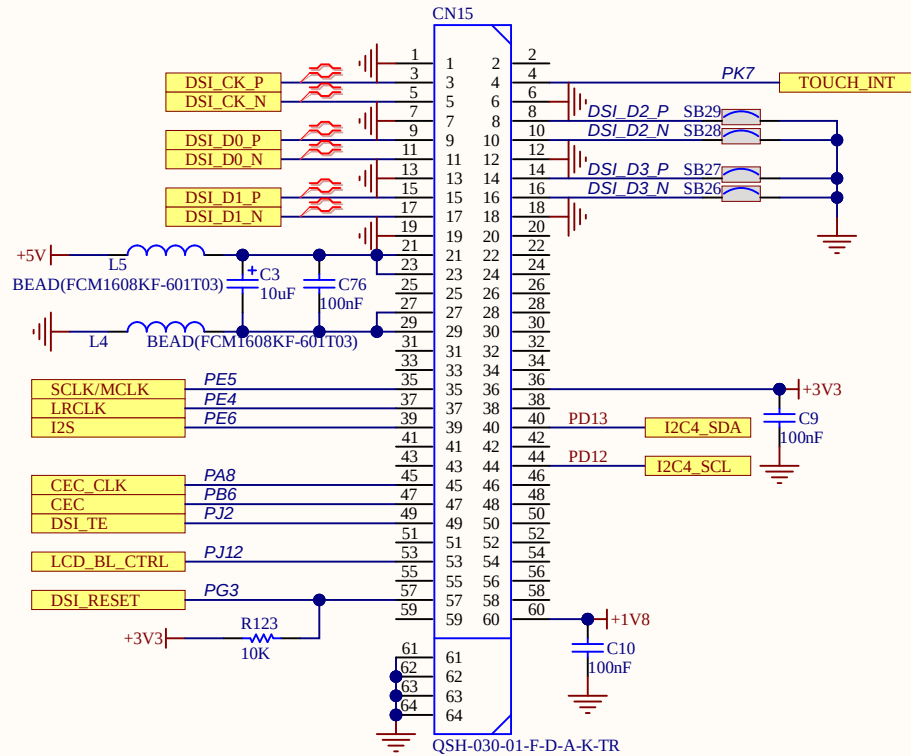
LDO mode: SB1, SB12, SB49 mounted, SB2, SB11, SB19, SB46, SB48 removed
 SMPS mode (default): SB2, SB11, SB19, SB46, SB48 mounted, SB1, SB12, SB49 removed
 SB14, SB15 are backup



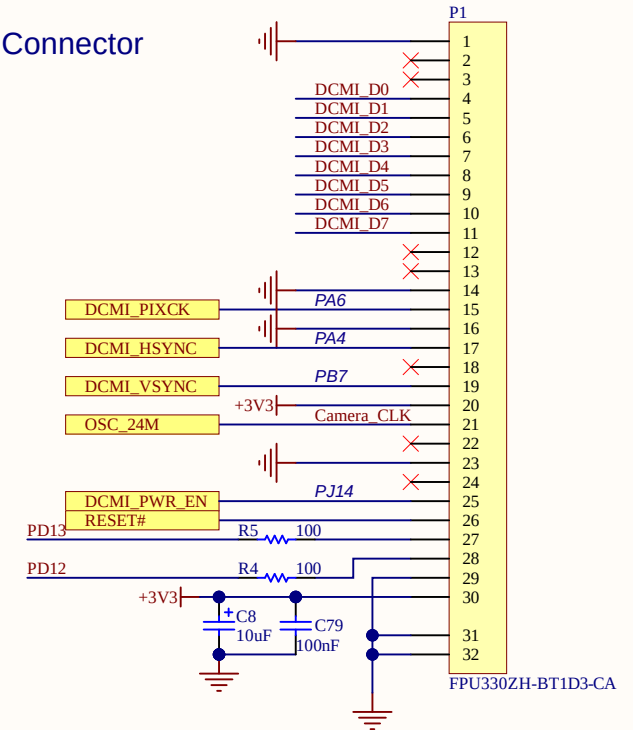


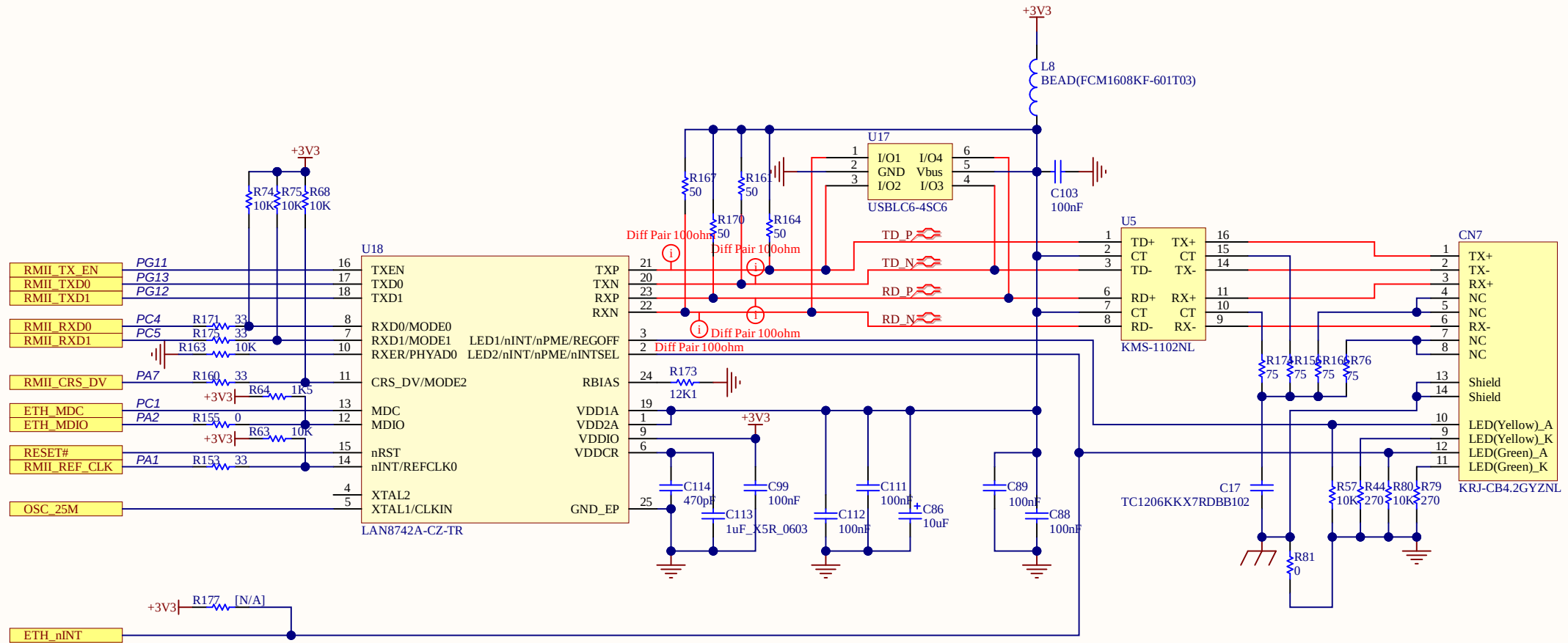


DSI LCD

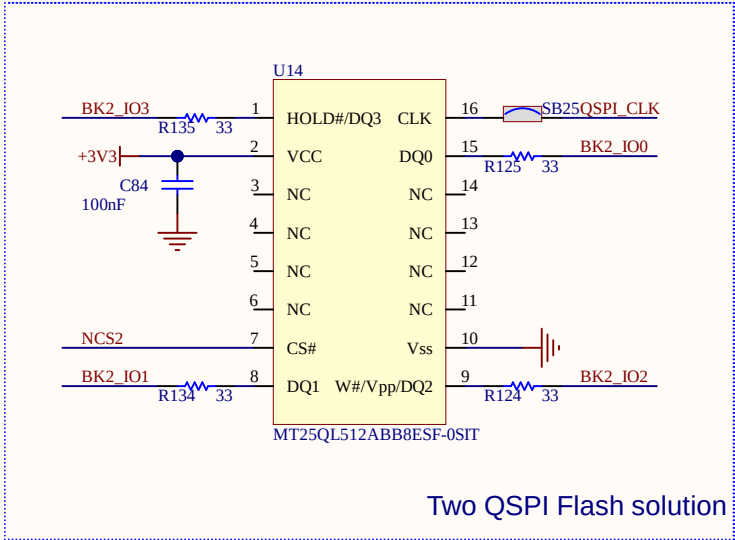
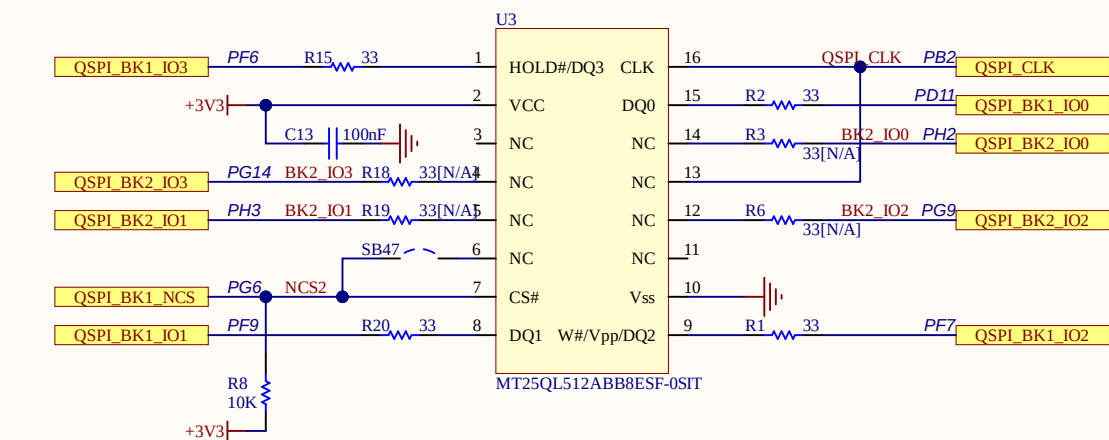


Camera Connector





Twin Quad SPI Flash

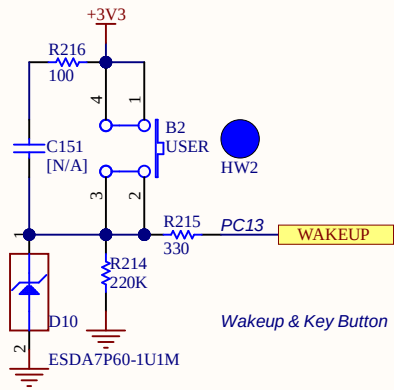


Twin Quad SPI Flash solutions:

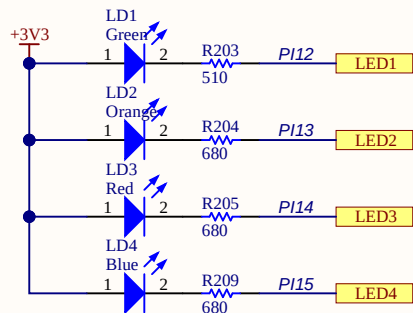
One Twin Quad SPI Fllash	U3:MT25TL01GHBB8ESF-0SIT	U14:NA	R3/R6/R18/R19, SB47 ON	R124/R125/R134/R135, SB25, C84 OFF
Two Quad SPI Flash (default)	U3:MT25QL512ABB8ESF-0SIT	U14:MT25QL512ABB8ESF-0SIT	R124/R125/R134/R135, SB25, C84 ON	R3/R6/R18/R19, SB47 OFF



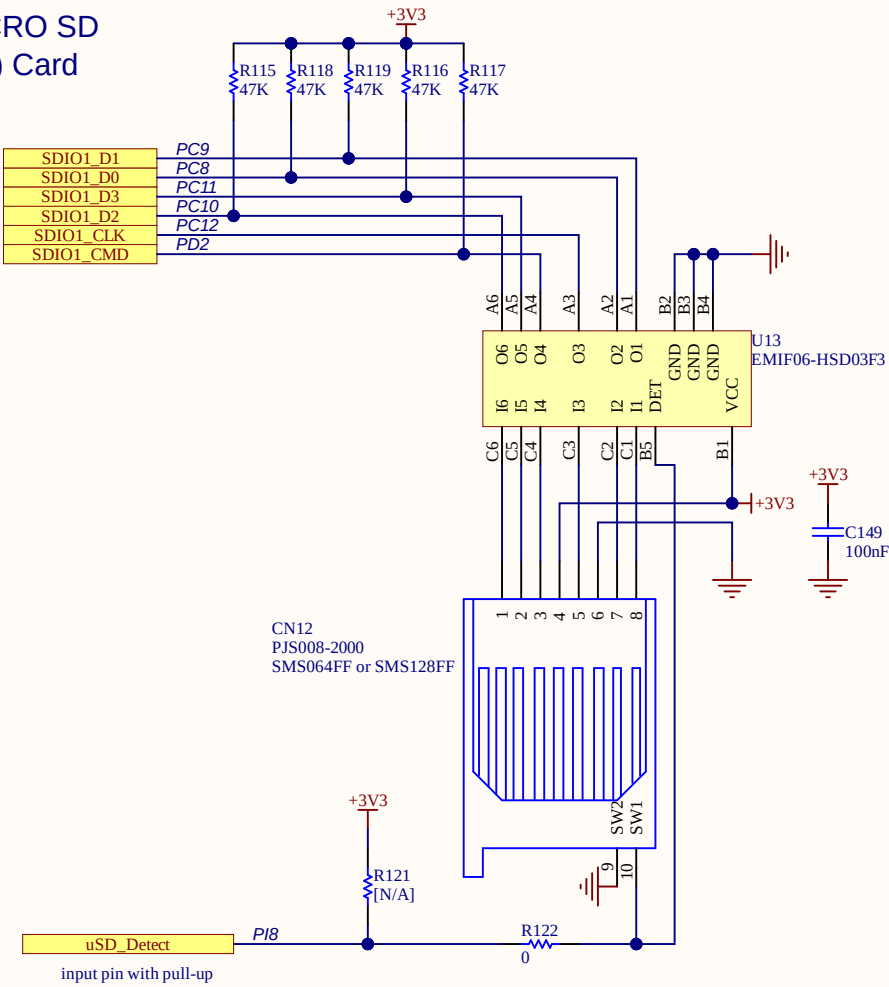
Buttons



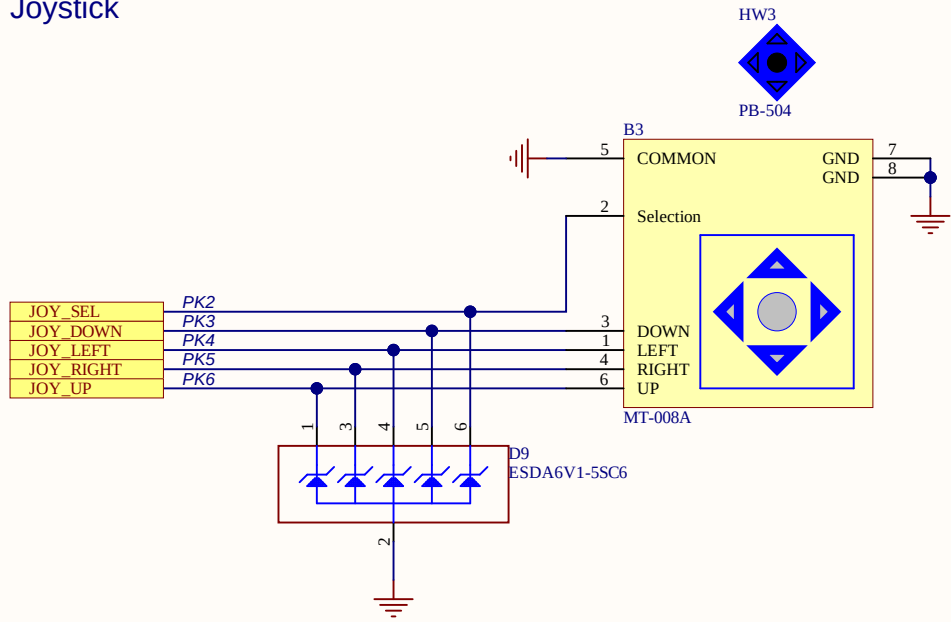
LEDs



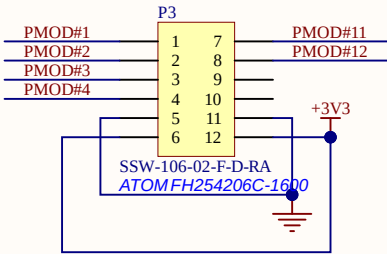
MICRO SD (TF) Card



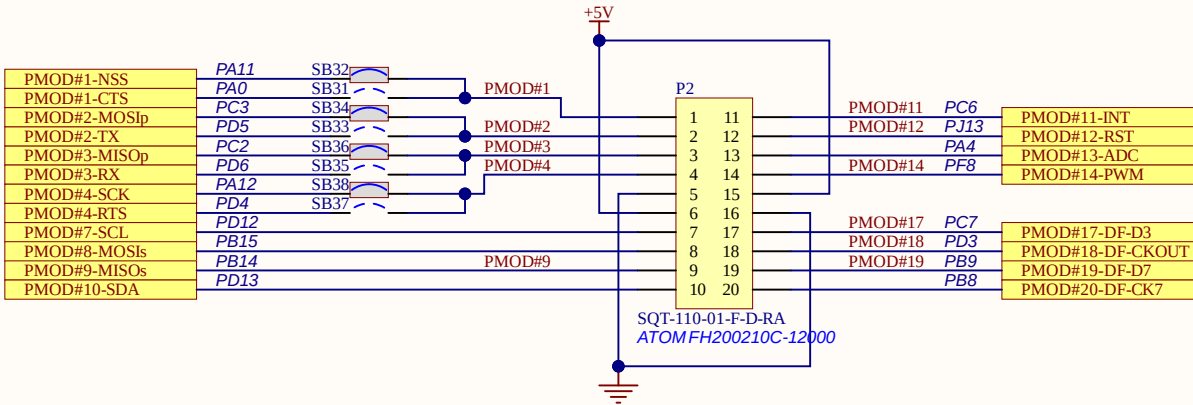
Joystick



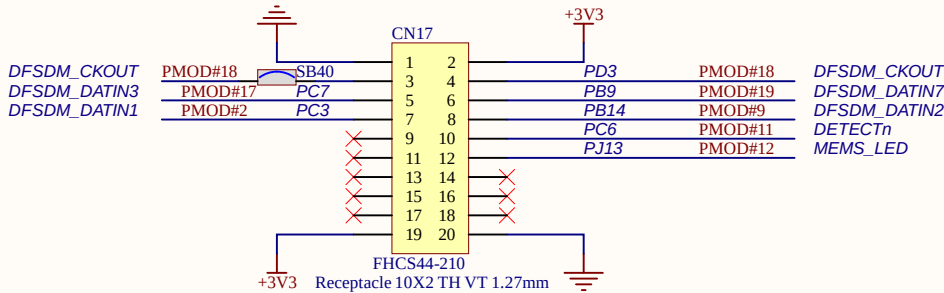
PMOD

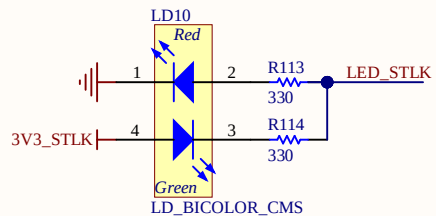
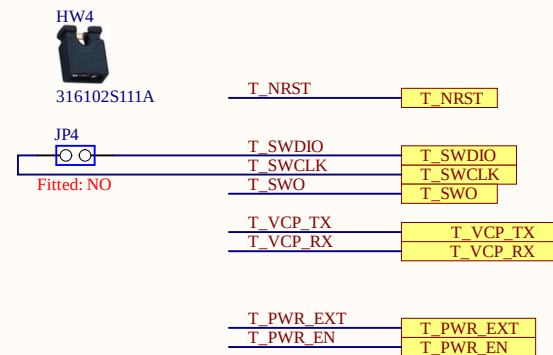
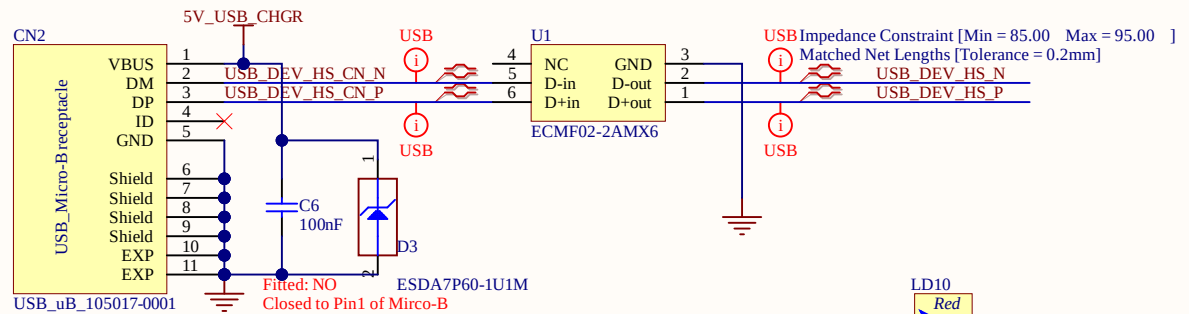


STMod+



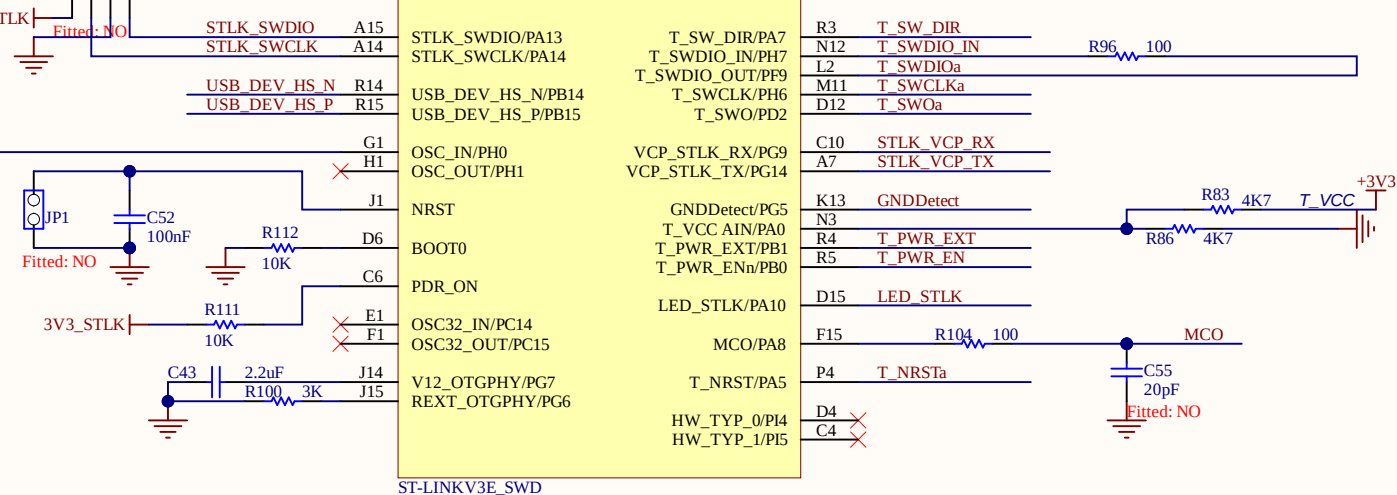
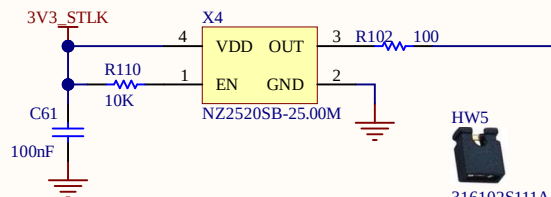
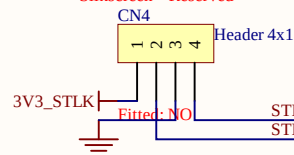
Audio Connector





Must be on a border or the PCB.

Silkscreen = Reserved



STDC14 Receiver

T_VCC must be connected to VDD_MCU of the Target

