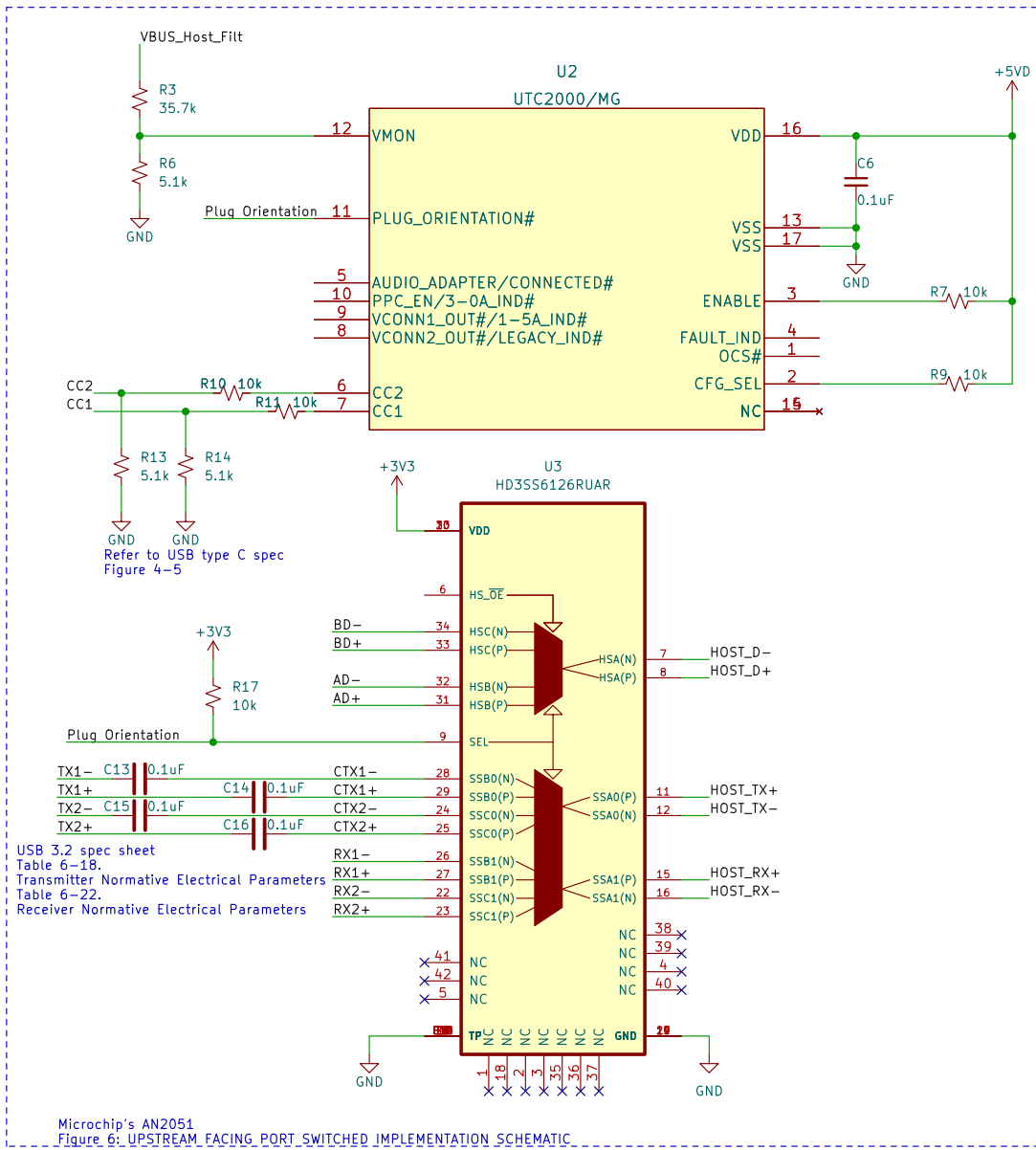
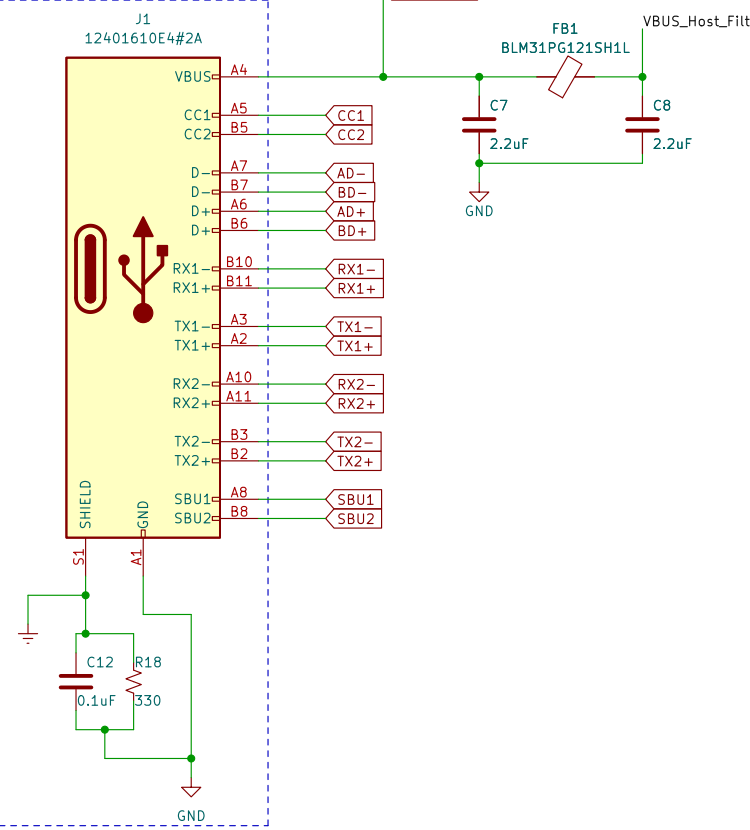
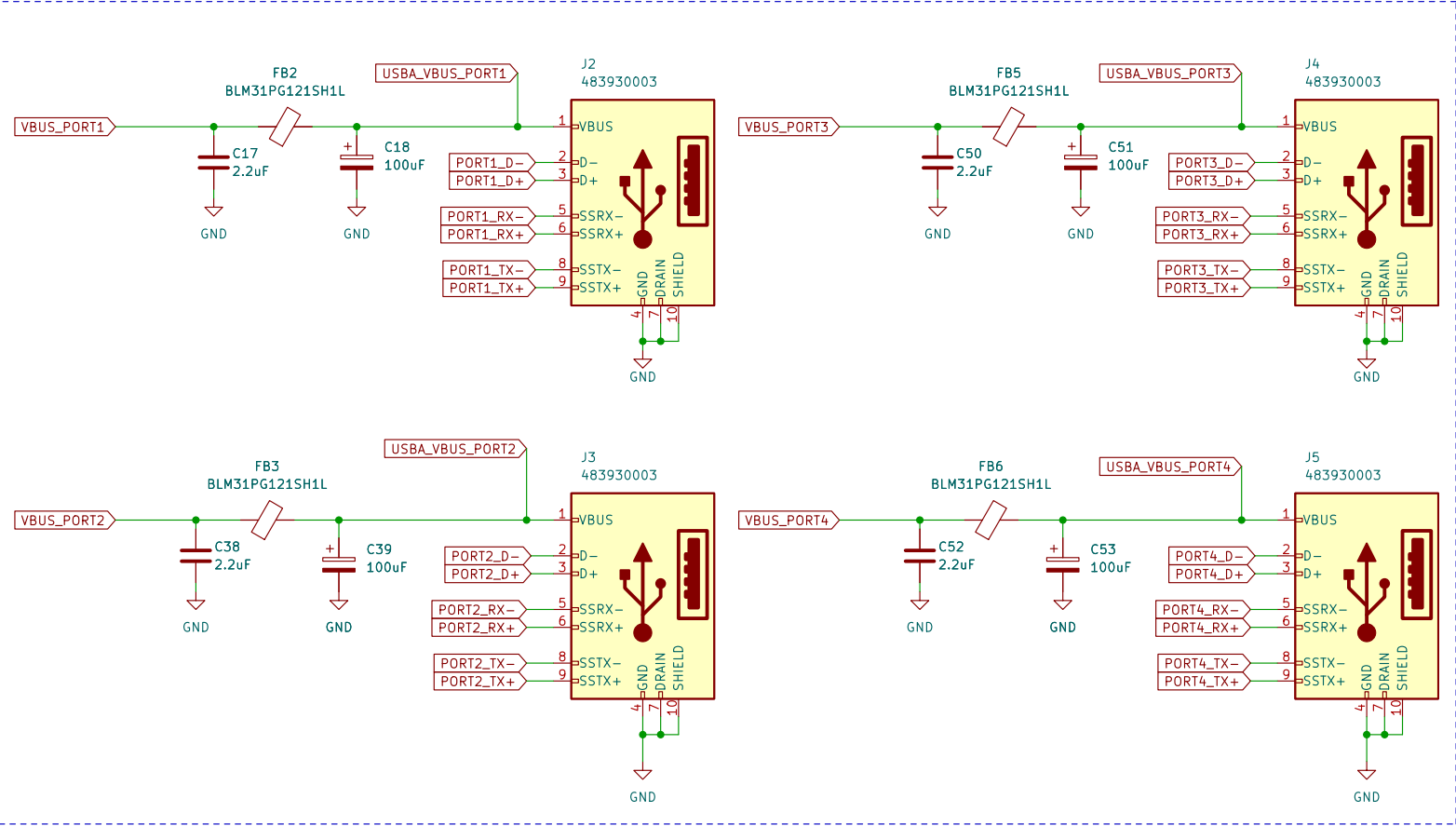


USB Type-C 3.2 Host



Microchip's AN2051
Figure 6-UPSTREAM FACING PORT SWITCHED IMPLEMENTATION SCHEMATIC

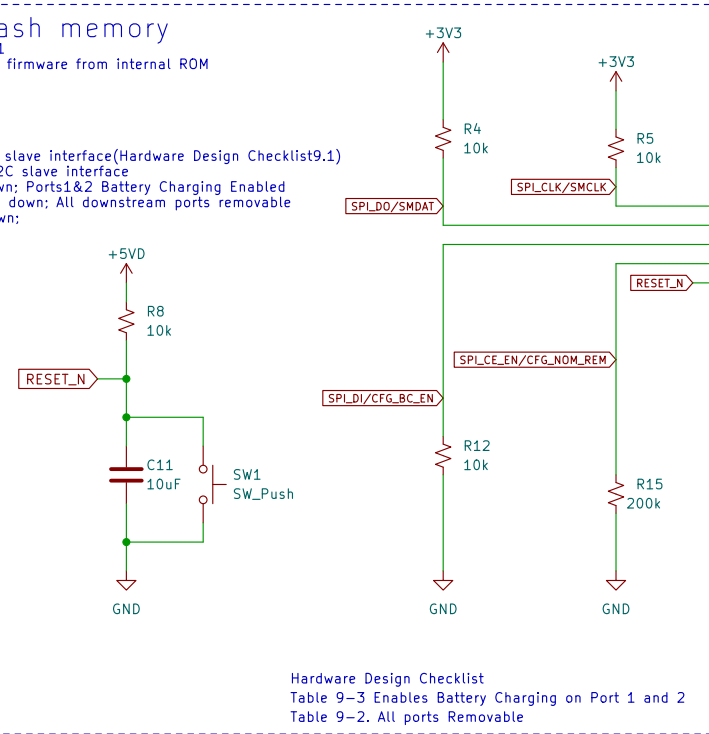
Downstream Type-A 3.1



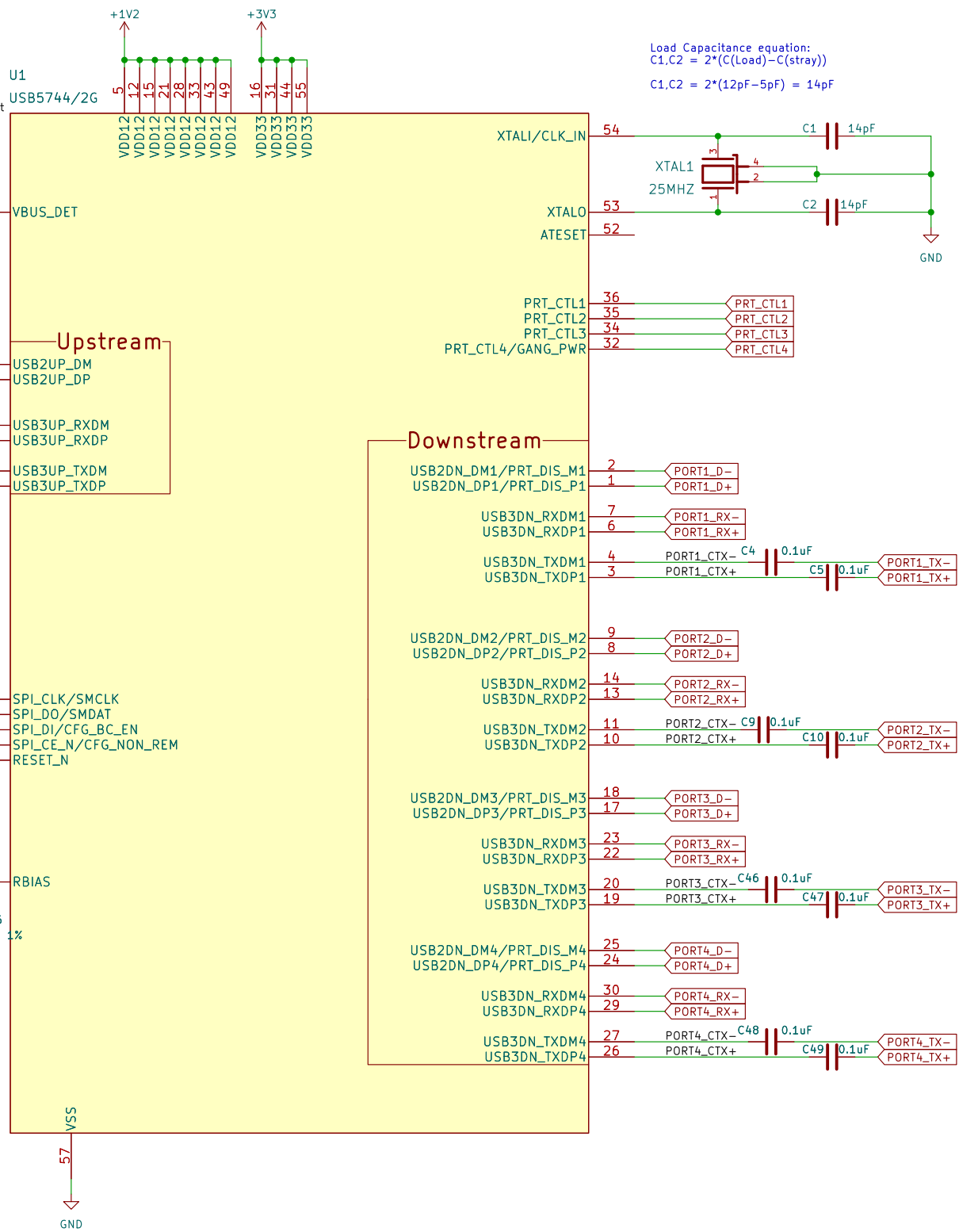
Optional spi flash memory

Hardware Design Checklist 8.1
By Default USB5744 executes firmware from internal ROM

Pins 38-42
SMCLK -> 10k pull up; I2C slave interface(Hardware Design Checklist9.1)
SMDAT -> 10k pull down; I2C slave interface
CFG_BC_EN -> 10k pull down; Ports1&2 Battery Charging Enabled
CFG_NON_REM -> 200k pull down; All downstream ports removable
RESET_N -> Button pull down;



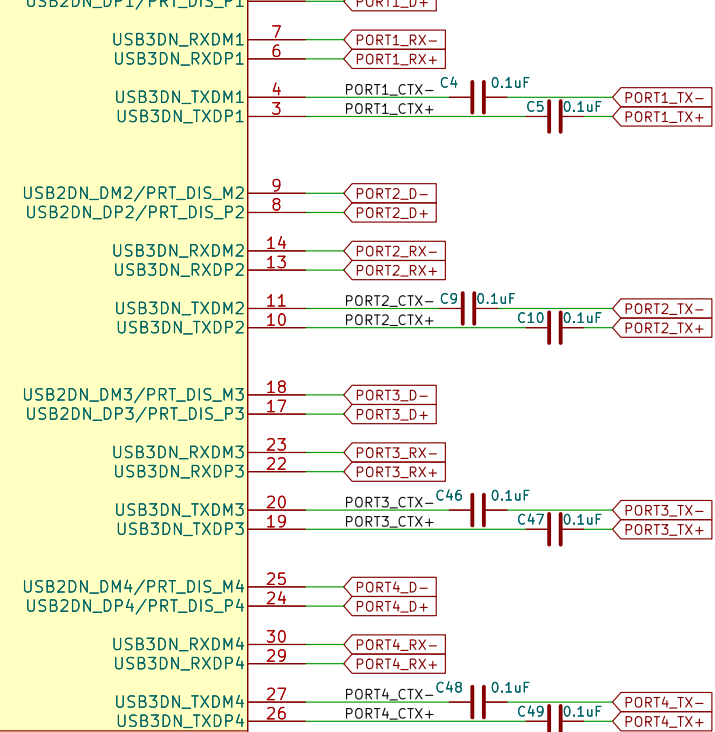
Hardware Design Checklist
Table 9-3 Enables Battery Charging on Port 1 and 2
Table 9-2. All ports Removable



Load Capacitance equation:
C1,C2 = 2*(C(Load)-C(stray))
C1,C2 = 2*(12pF-5pF) = 14pF

Upstream

Downstream



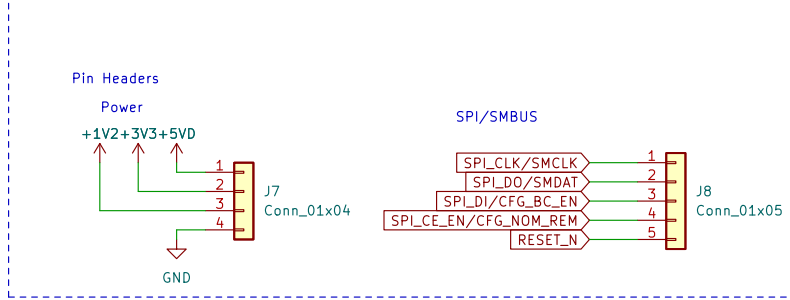
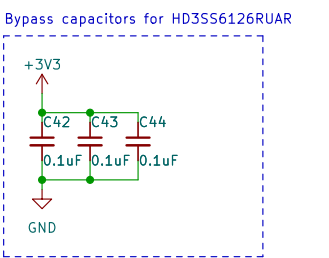
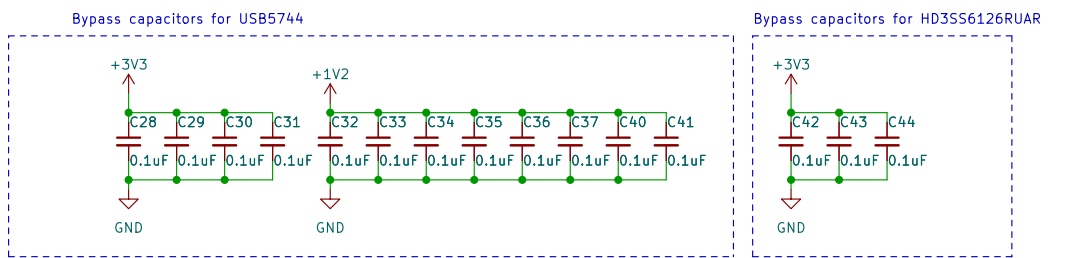
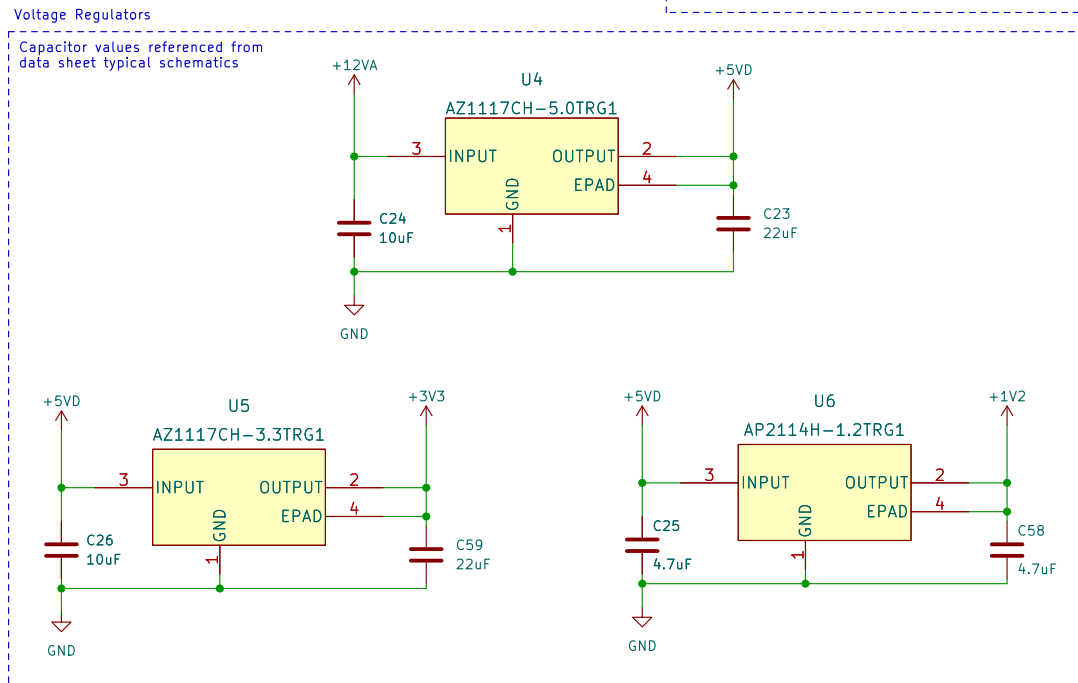
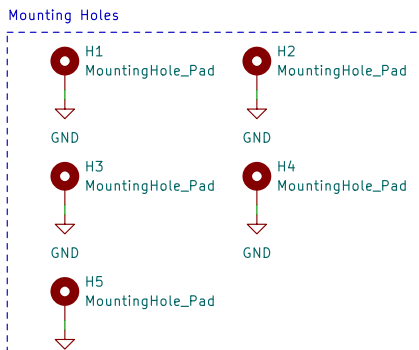
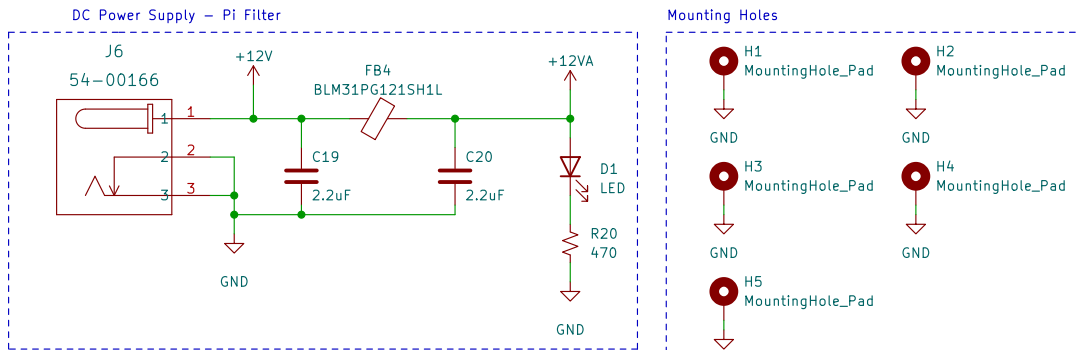
Exclusive Electronics

Sheet: /
File: USB-C-Hub v2.kicad_sch

Title: IAN'S USB HUB

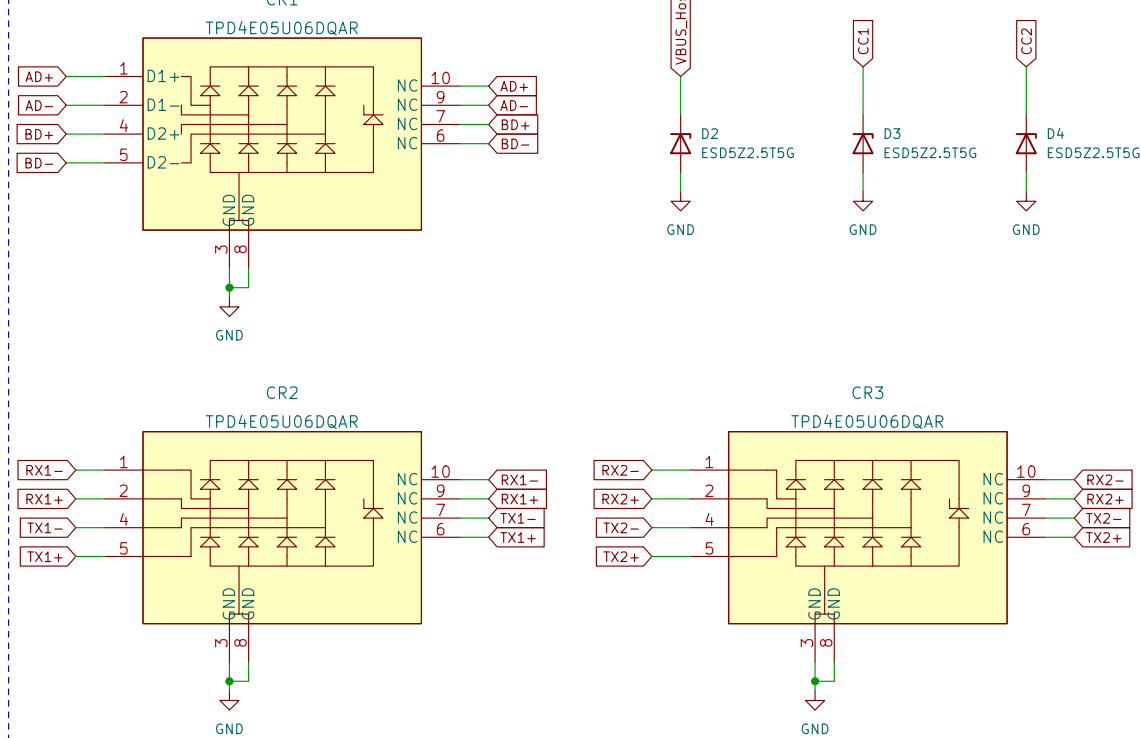
Size: A2 Date: Rev: 1.0

KiCad E.D.A. kicad (6.0.11) Id: 1/2



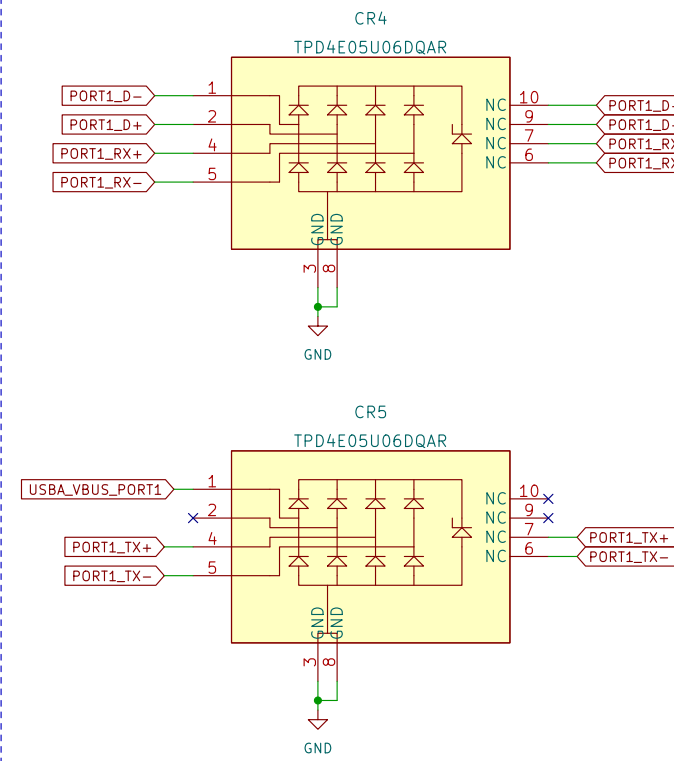
ESD protection

USB-C Host

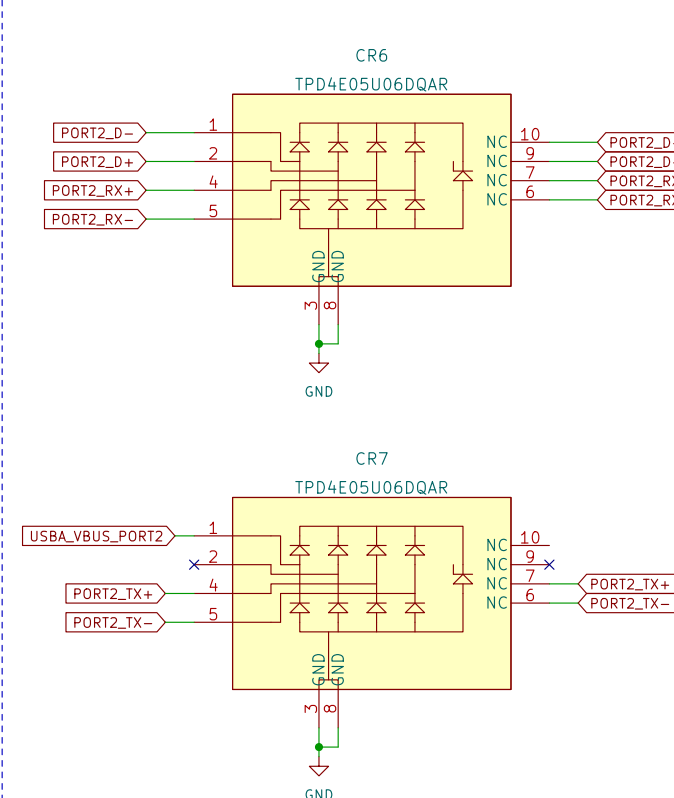


NC pins used for straight through routing

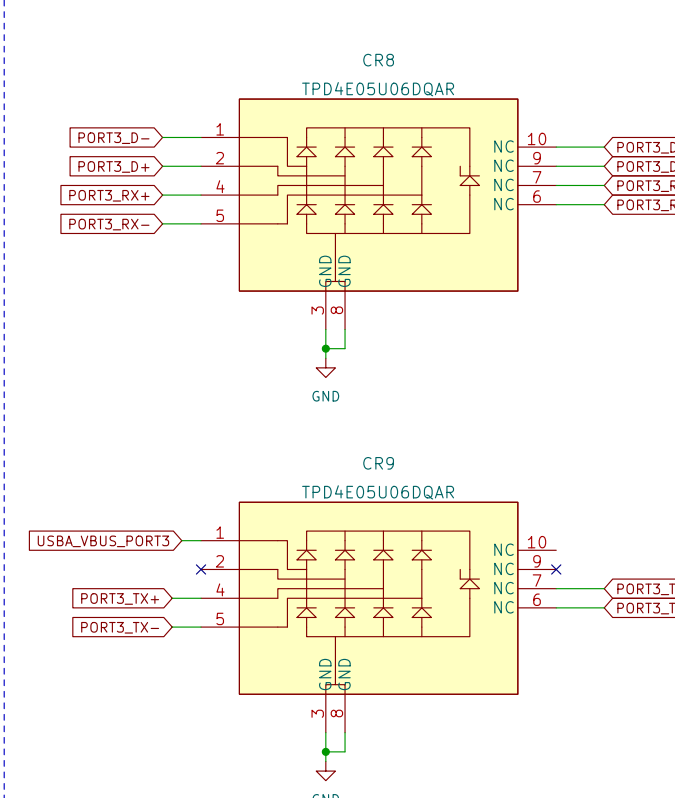
USB-A



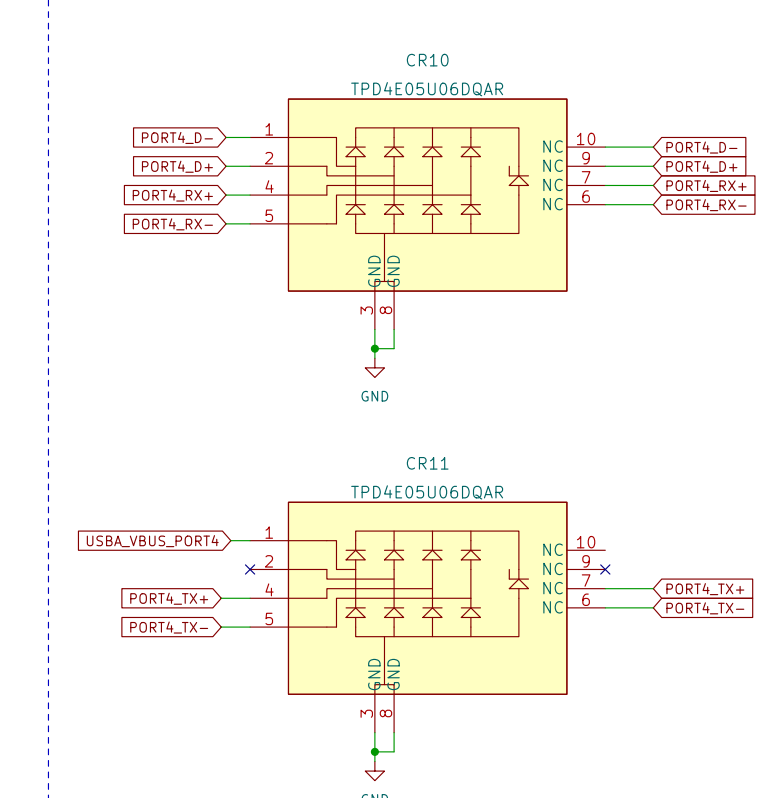
PORT1



PORT2



PORT3



PORT4

Sheet: /Power and pin headers/
File: Power_and_pin_headers.kicad_sch

Title:

Size: A2
KiCad E.D.A. kicad (6.0.11)

Date:

Rev:

Id: 4/2