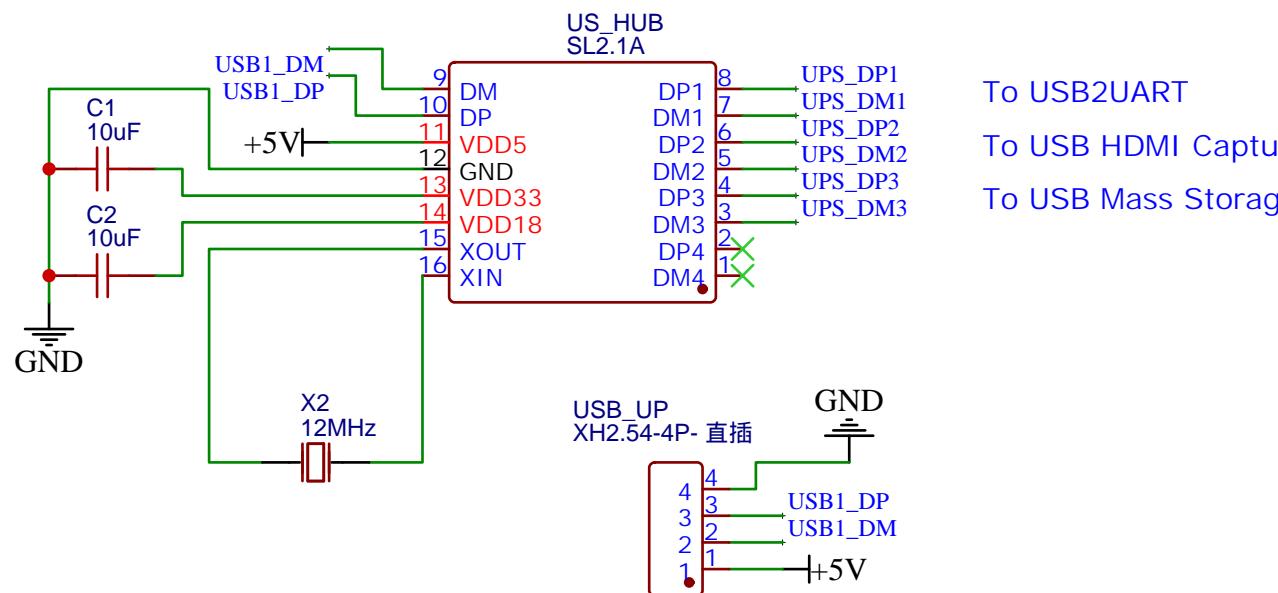
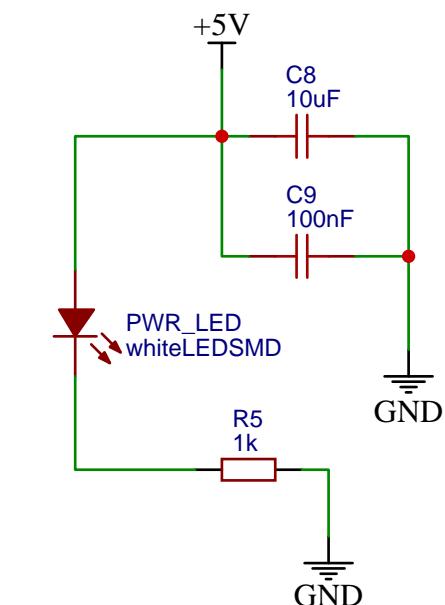


Upstream USB Port

The port connecting to the KVM control SBC (e.g. Orange Pi)

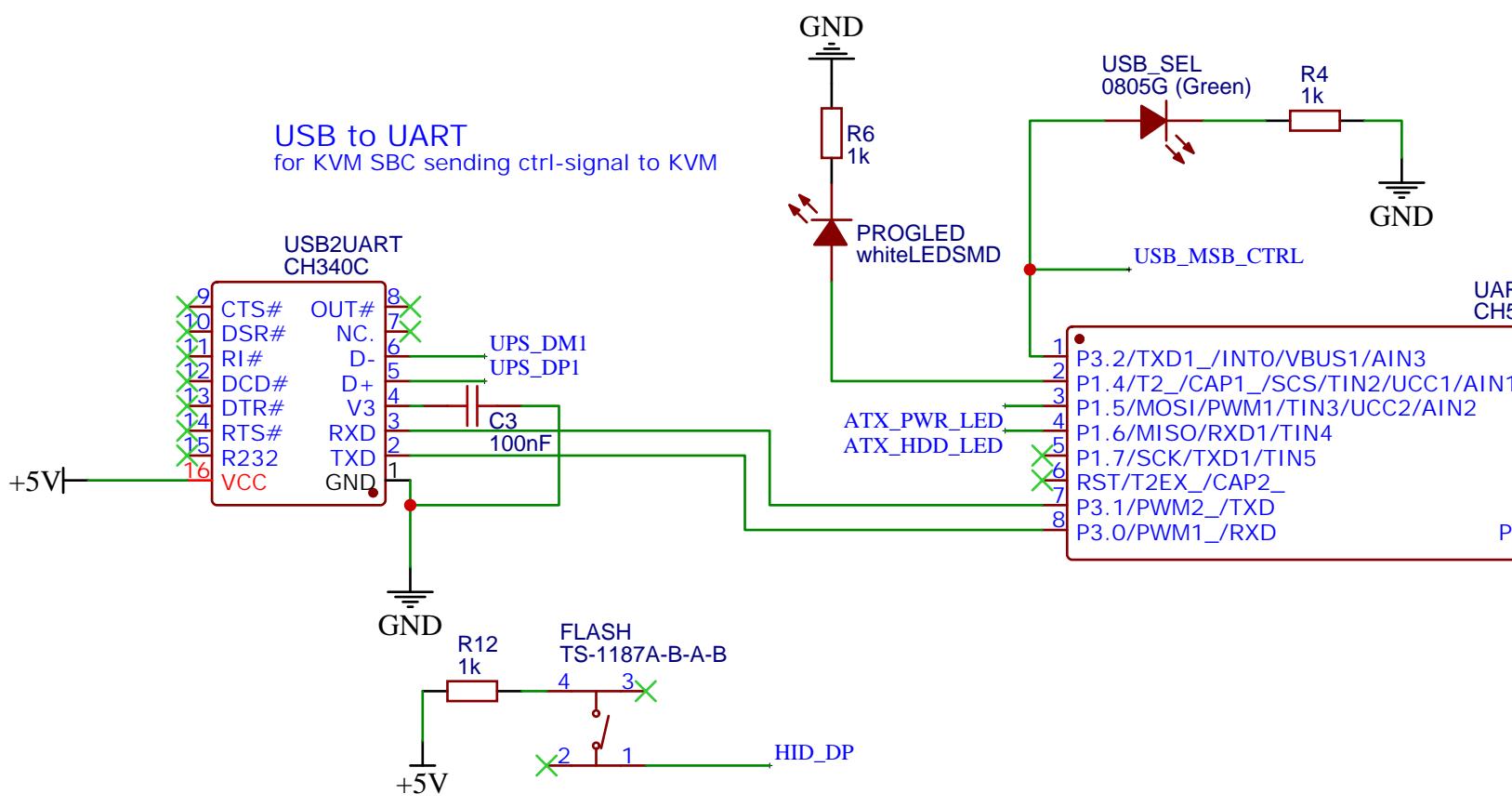


Power Ripple Filter



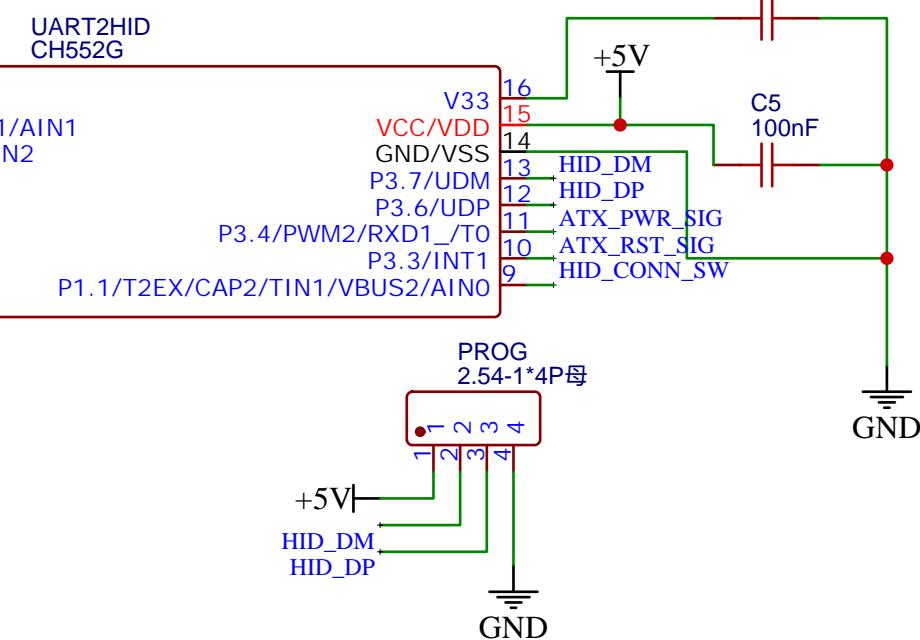
USB to UART

for KVM SBC sending ctrl-signal to KVM



UART to HID

Converting KVM software signal to HID commands



TITLE:

KVM Hub

REV: 1.0

1

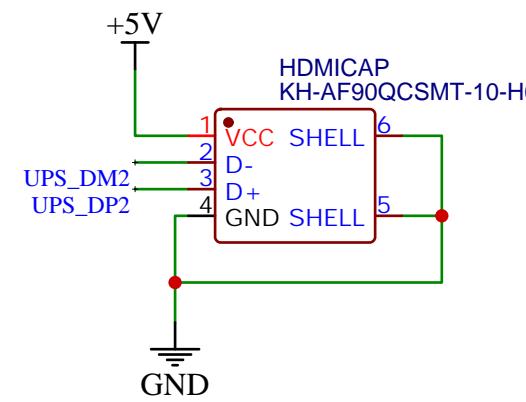
2

3

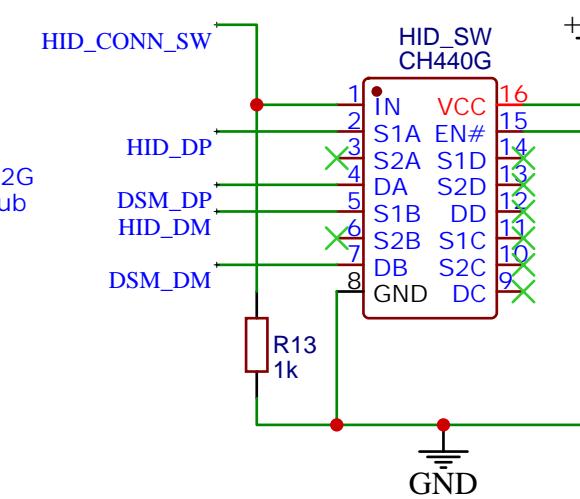
4

5

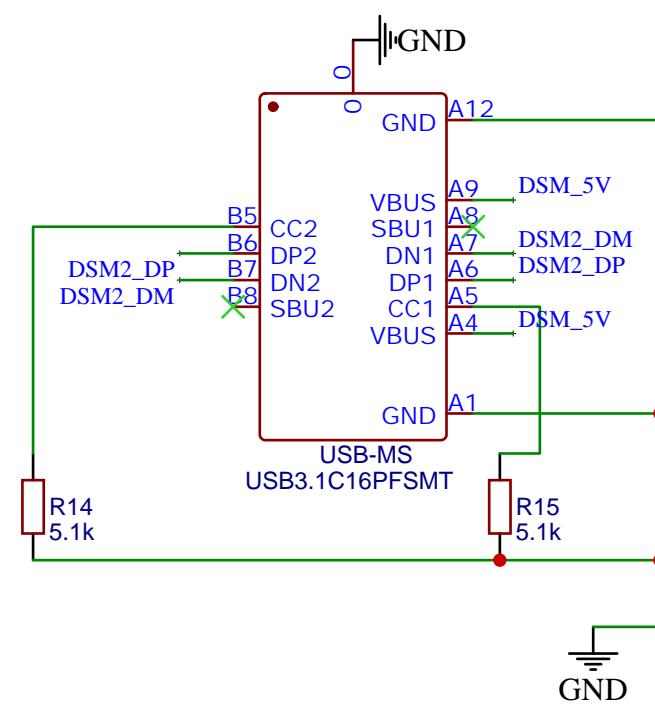
USB HDMI Capture Card
Connect MS2109 USB Capture Device



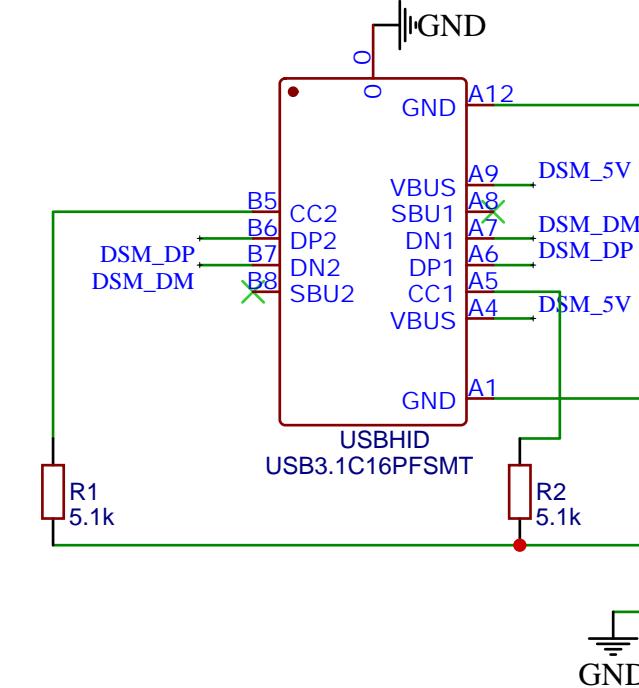
USB HID Downstream Switch
Use for remote plug & unplug for BIOS / UEFI



Guest USB Port (Mass Storage)
USB device mode for guest system (e.g. PC)



Guest USB Port (HID)
USB device mode for guest system (e.g. PC)



TITLE:

Guest Side

REV: 1.0

Company: imuslab

Sheet: 1/1

Date: 2025-02-20 Drawn By: tobychui

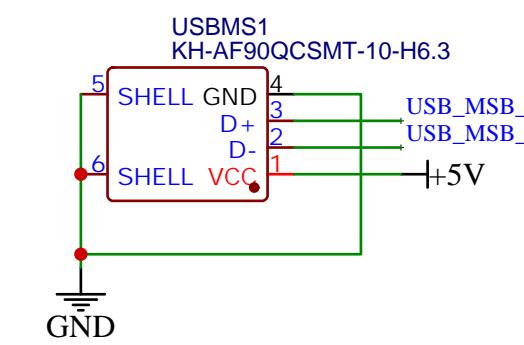
A

A

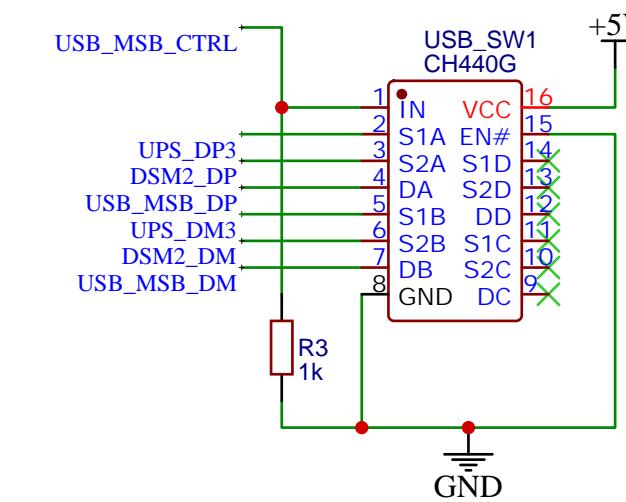
B

B

USB Mass Storage Port
For USB drive or other user required USB hardware



USB Mass Storage Switching Bus
Default to upstream (KVM Host),
set IN to HIGH to switch over to downstream (computer being controlled)



TITLE:

USB Mass Storage

REV: 1.0



Company: imuslab

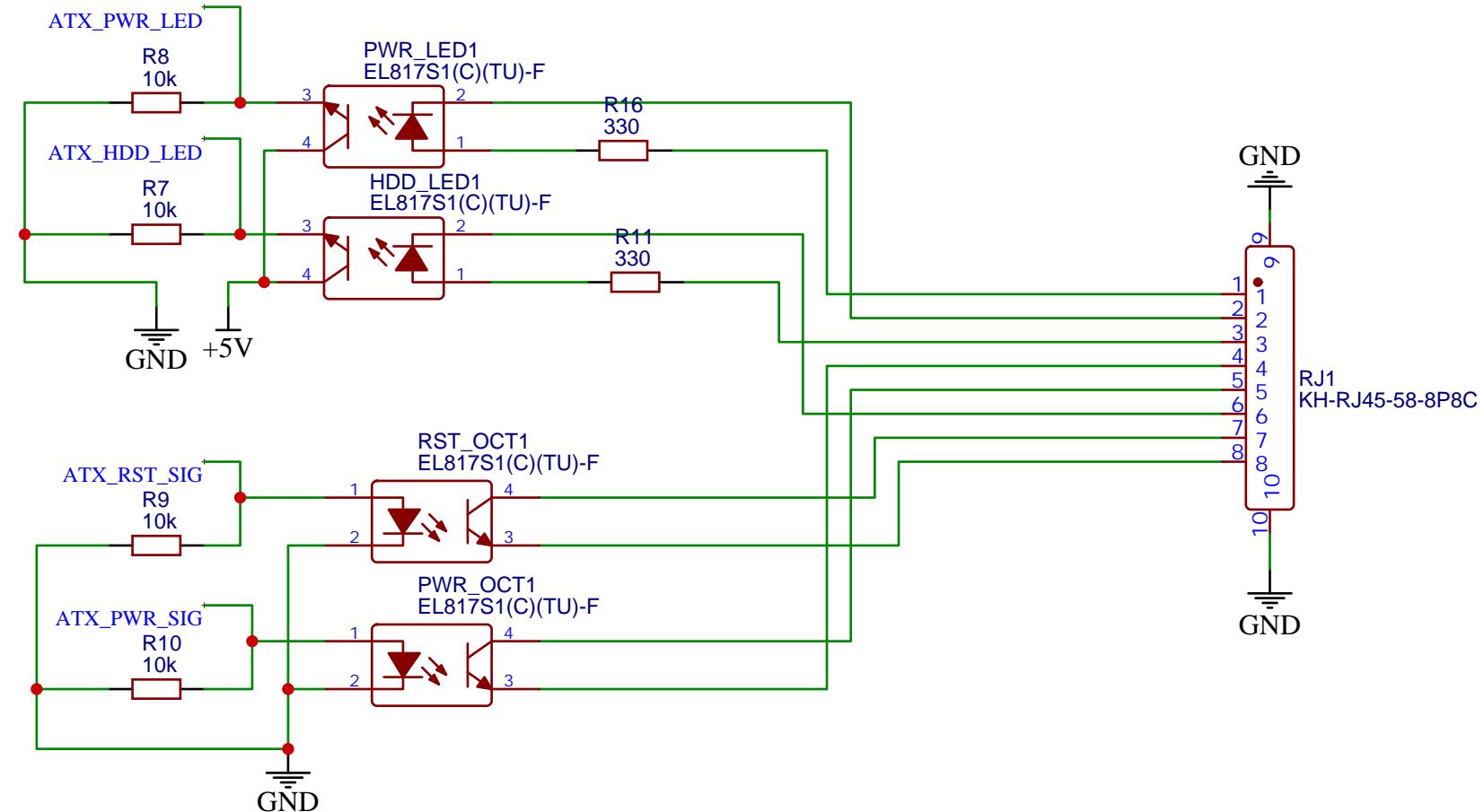
Sheet: 1/1

Date: 2025-03-30 Drawn By: tobuchui

ATX Power Control

Notes: ATX_PWR_LED and ATX_HDD_LED default to LOW, active HIGH

This design should be compatible with PiKVM ATX Board Pinsout (Not Tested)



TITLE:

ATX Rev2

REV: 1.0