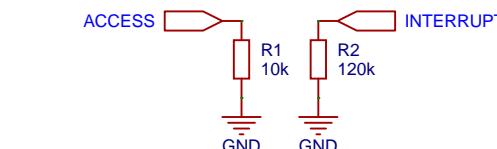
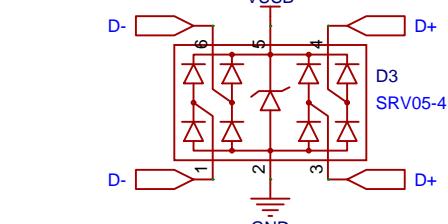
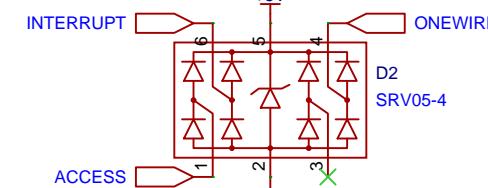
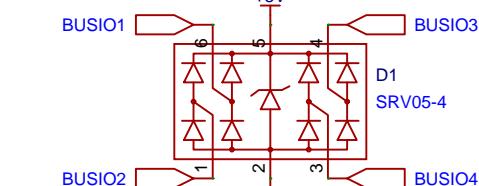


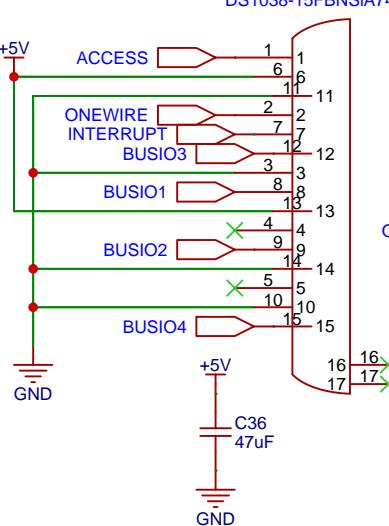
USB Hub Switch
4 port USB 2.0 switch
SL2.1A hub controller
Switch power and data to downstream ports
Overcurrent outputs all assert the interrupt pin
Can switch the ports individually or ganged
i.e. "Smart Switch"



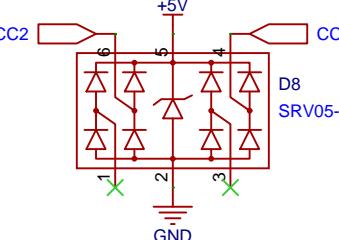
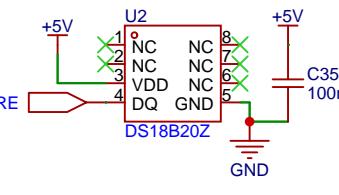
Input Pulldowns & ESD Protection



Bus 15P Connection CN1 DS1038-15FBNSIA74-0CC

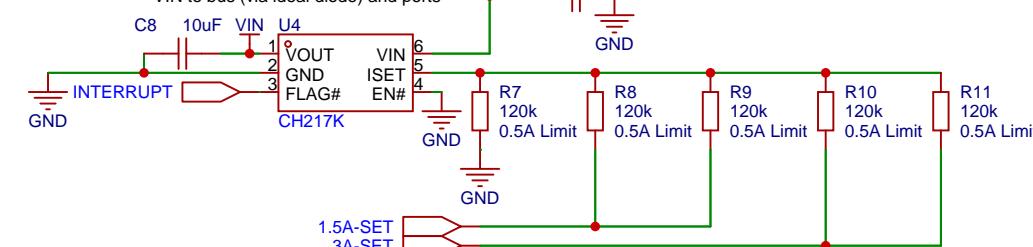


ONEWIRE Temperature & EEPROM

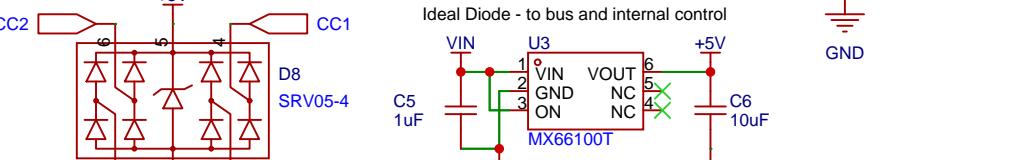
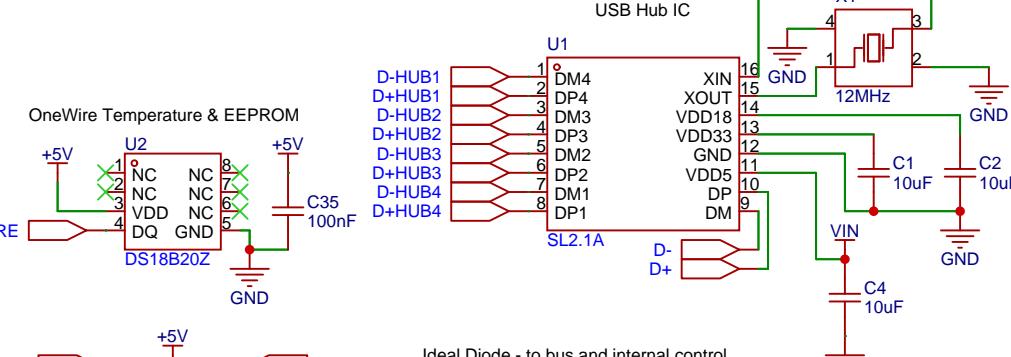


Upstream USB Port

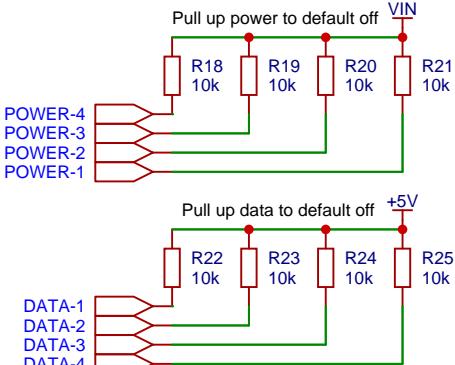
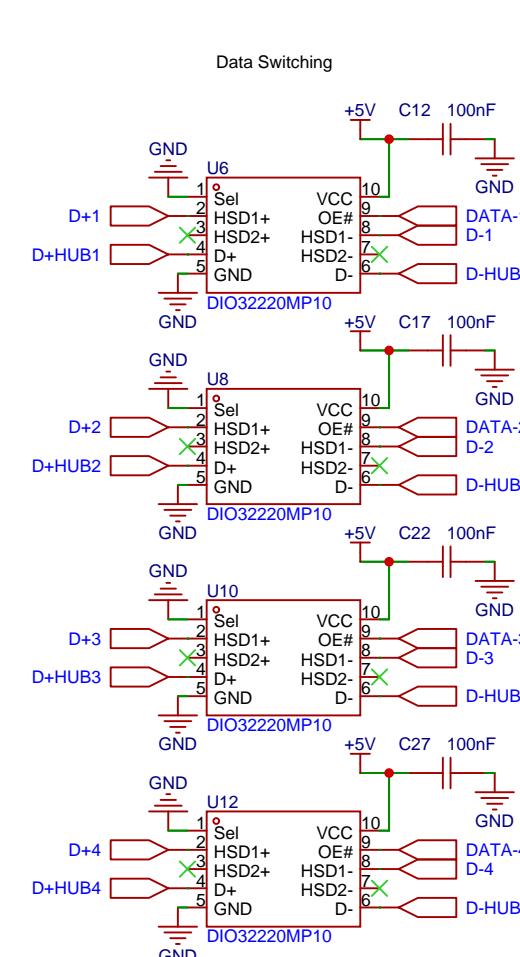
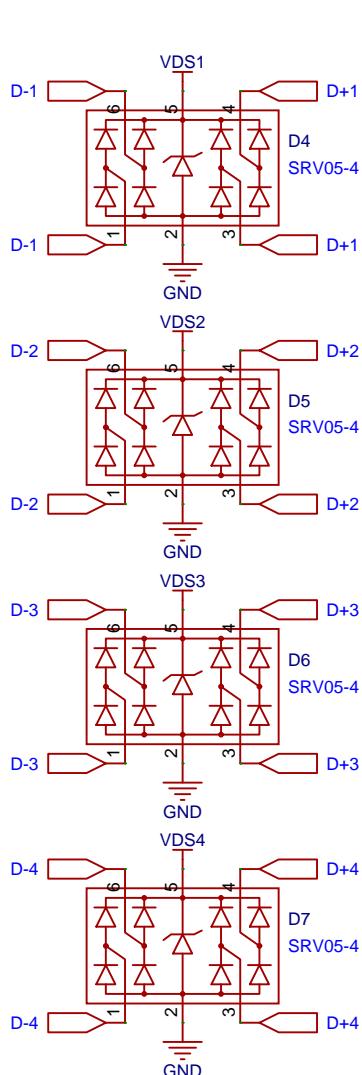
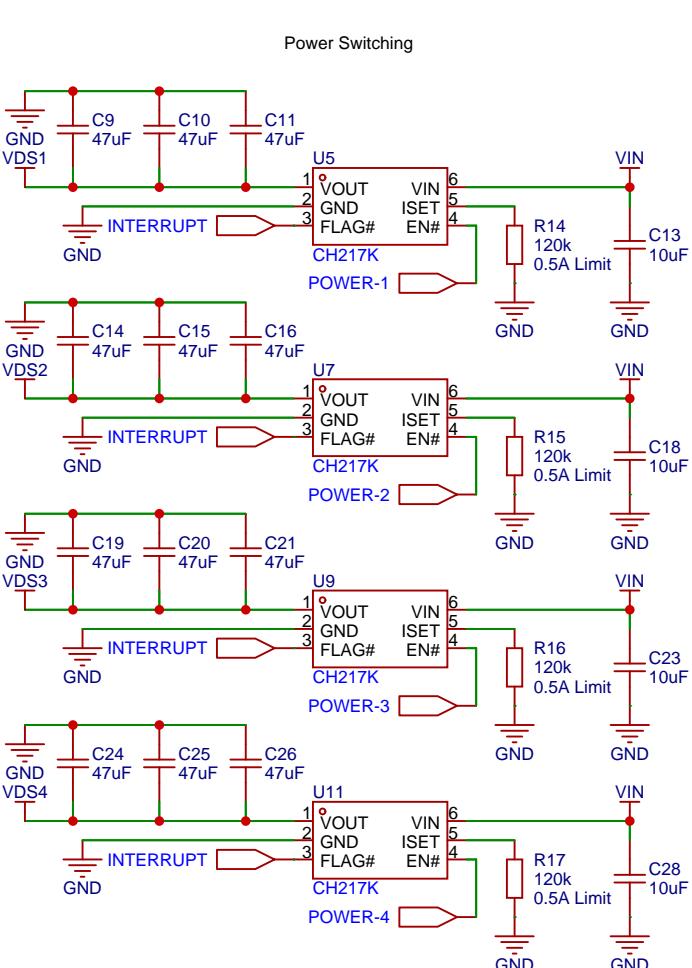
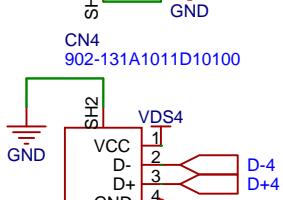
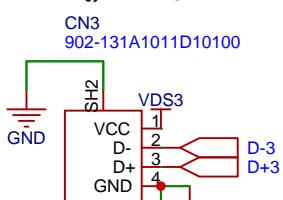
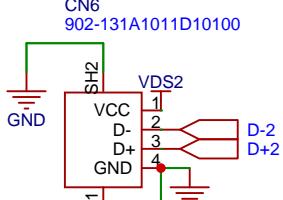
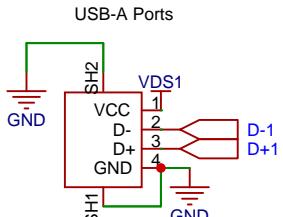
Input Current Limit (Always On)



If MCU detects higher USB-C current rating, it can increase the input current limit to 1.5A or 2.5A



Schematic Page	Upstream Ports	Page Number
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware	Total Pages
Version	3.0.0	
RIT SHED	USB Hub Switch Smart Switch Variant	
	Licensed Under CERN-OHL-S 2.0	



Schematic Page

Source Link

Version

RIT SHED

Downstream Ports

<https://github.com/rit-construct-makerspace/access-control-hardware>

3.0.0

Page Number

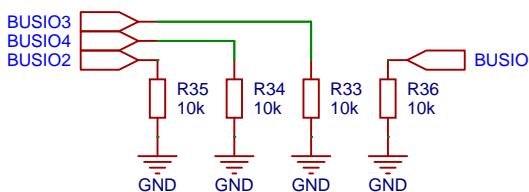
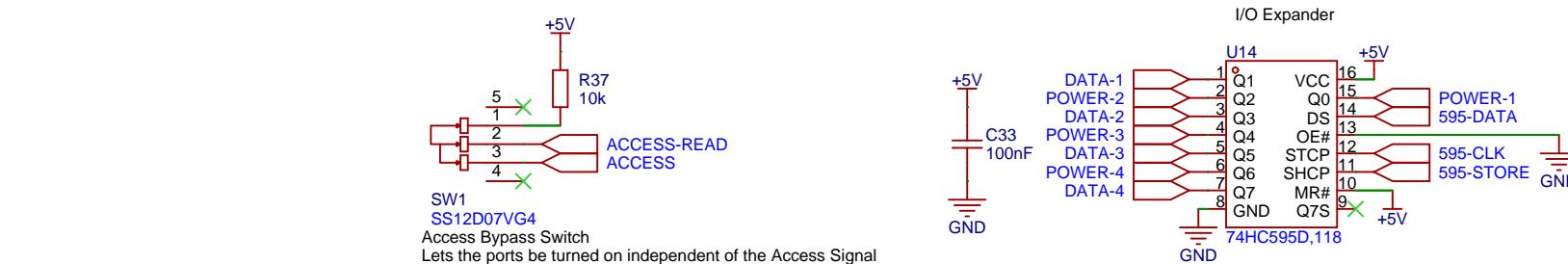
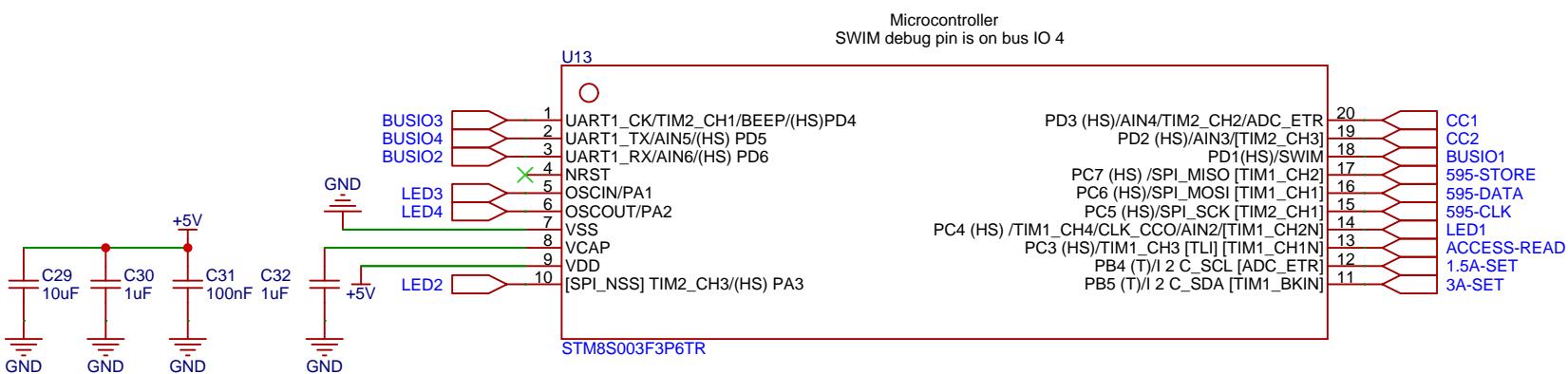
2

Total Pages

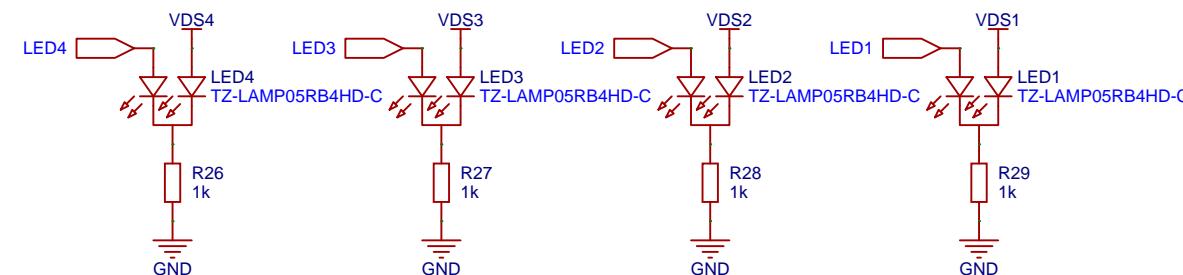
4

USB Hub Switch
Smart Switch Variant

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Schematic Page	Microcontroller	Page Number
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware	Total Pages
Version	3.0.0	4
RIT SHED	USB Hub Switch Smart Switch Variant	
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RED: Device has power but this port is not on
 Can also flash red to identify ports if server requests
 BLUE: This port is on and powered

Schematic Page	Status LEDs	Page Number
https://github.com/rit-construct-makerspace/access-control-hardware		4
Version	3.0.0	Total Pages
RIT SHED		USB Hub Switch Smart Switch Variant
		Licensed Under CERN-OHL-S 2.0