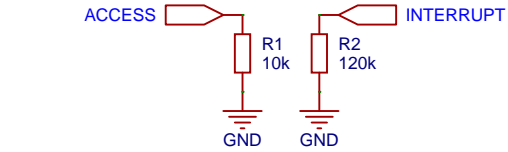
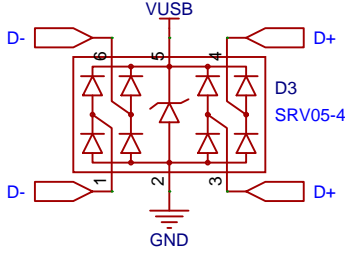
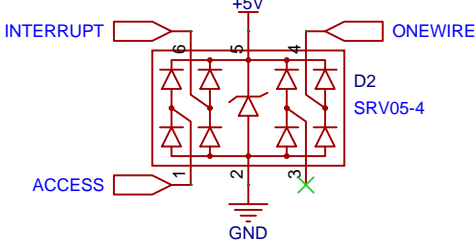
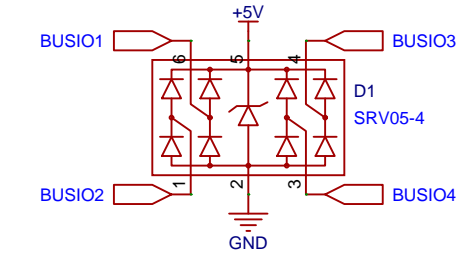
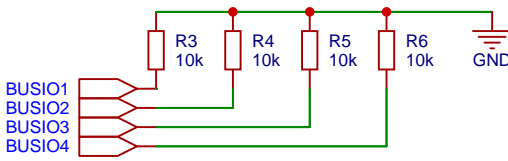


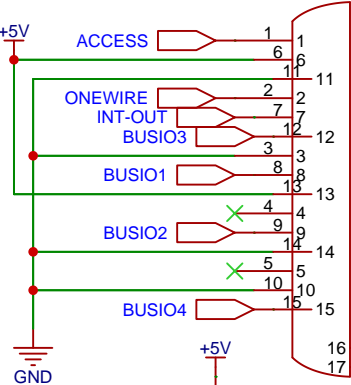
USB Hub Switch
4 port USB 2.0 switch
SL2.1A hub controller
Switch power and data to downstream ports
Overcurrent outputs all assert the interrupt pin
Can switch the ports individually or ganged
i.e. "Smart Switch"



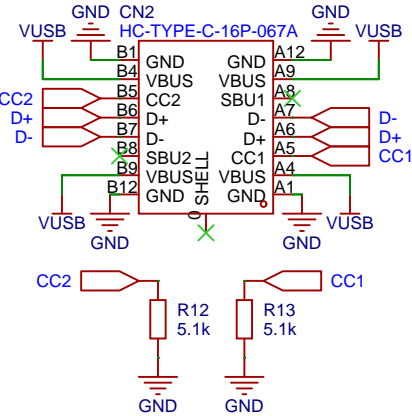
Input Pulldowns & ESD Protection



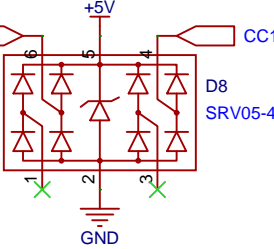
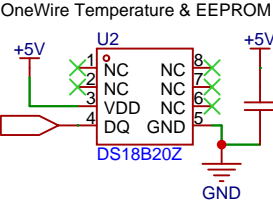
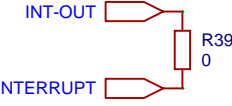
Bus 15P Connection CN1 DS1038-15FBNSIA74-0CC



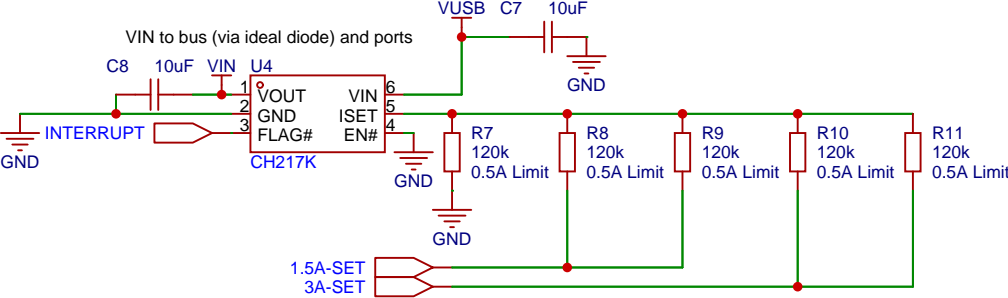
Upstream USB Port



Remove resistor to disable interrupt

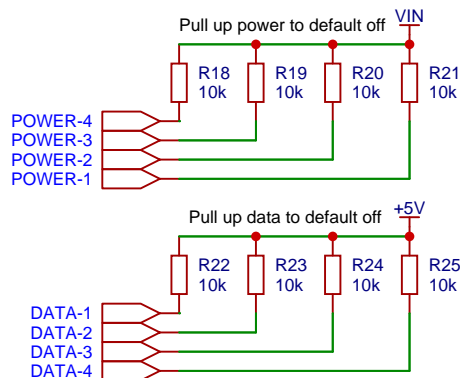
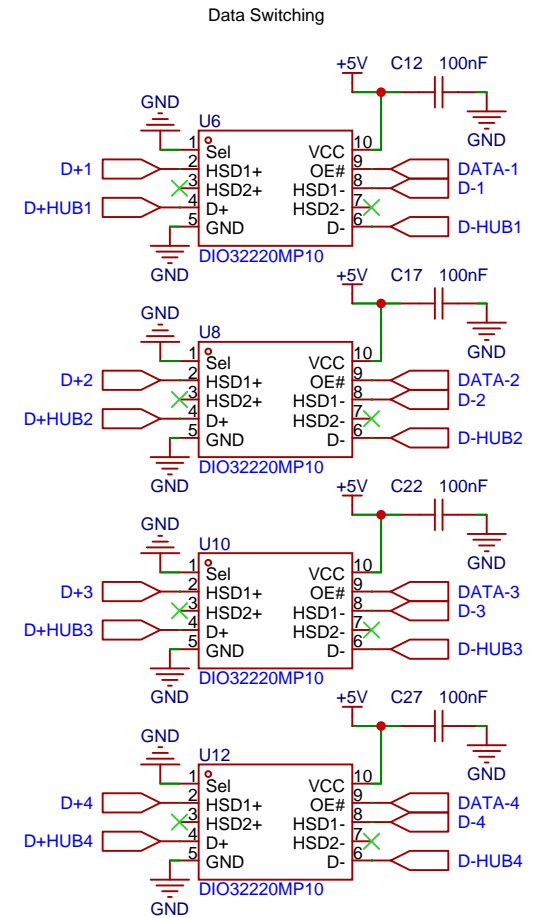
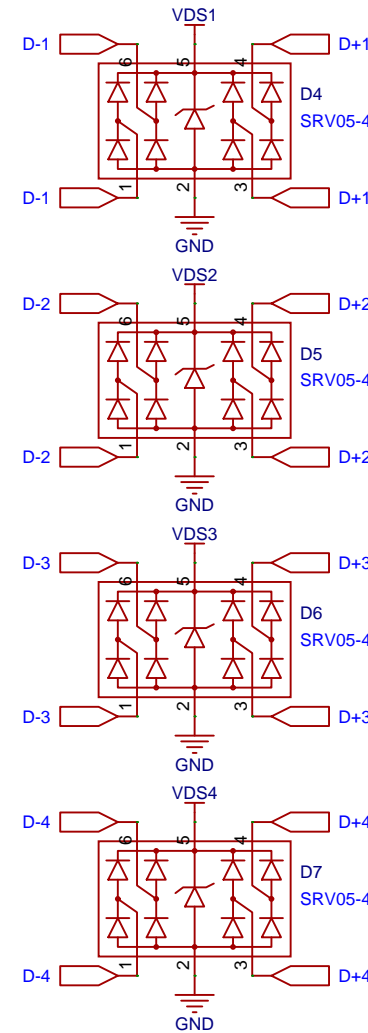
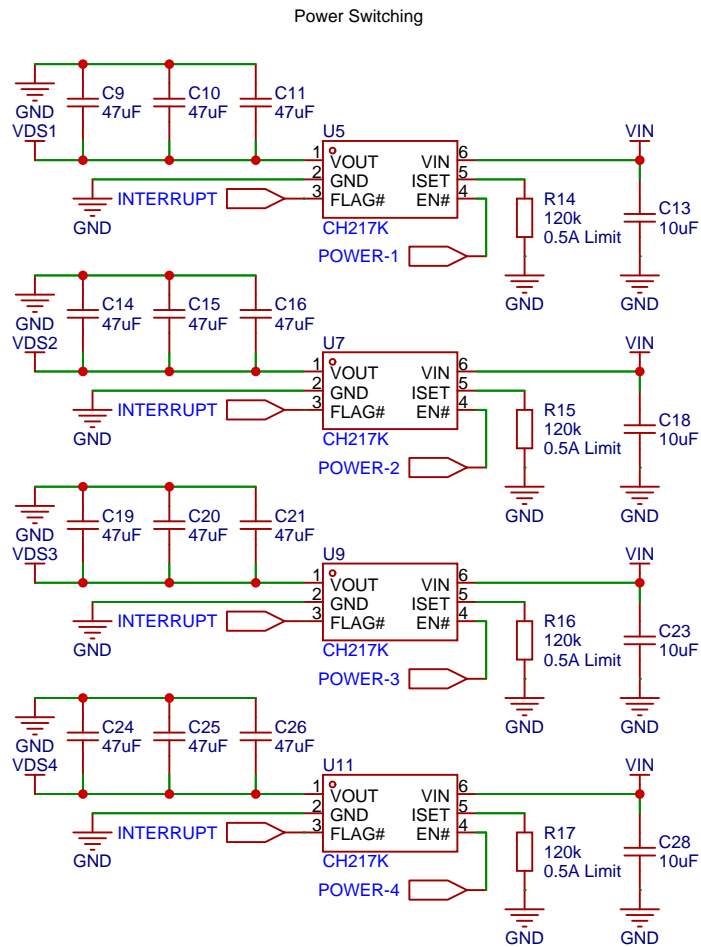
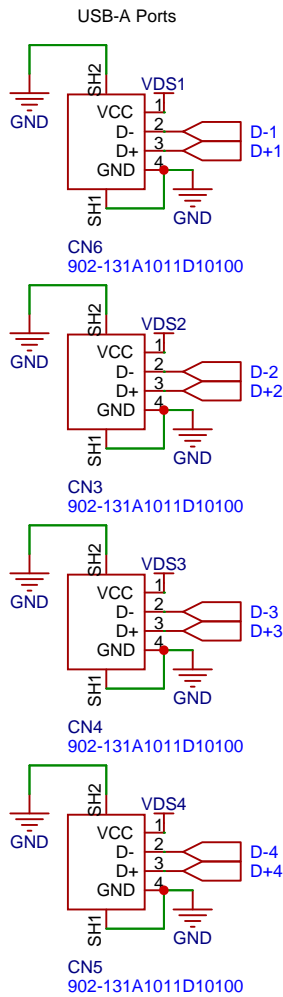


Input Current Limit (Always On)

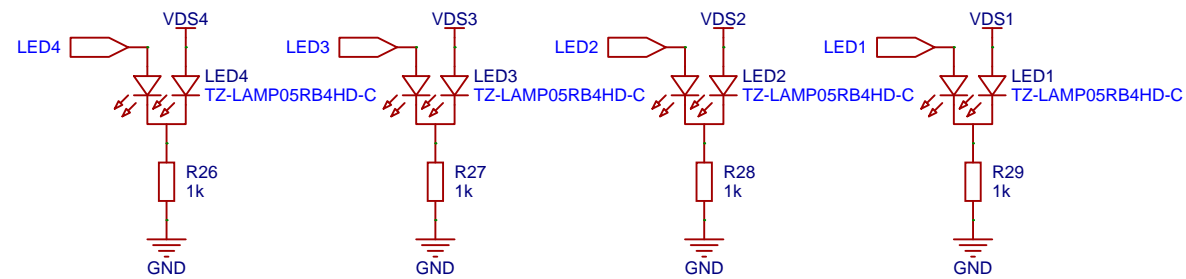


If MCU detects higher USB-C current rating, it can increase the input current limit to 1.5A or 2.5A

Schematic Page	Upstream Ports		Page Number	1
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware		Total Pages	4
Version	3.0.0	USB Hub Switch Smart Switch Variant		
<div>RIT SHED</div>				
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Schematic Page	Downstream Ports		Page Number	2
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware		Total Pages	4
Version	3.0.0	<div>USB Hub Switch Smart Switch Variant</div> <div>Licensed Under CERN-OHL-S 2.0</div>		
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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	4
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware		Total Pages	4
Version	3.0.0	<div>USB Hub Switch Smart Switch Variant</div> <div>Licensed Under CERN-OHL-S 2.0</div>		
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