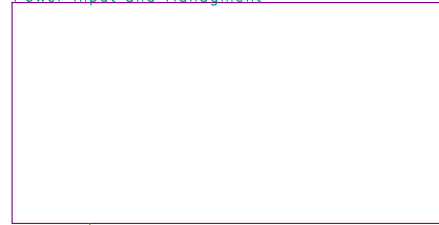


Power Input and Managment



power.sch

PCIe/104 One Bank Interface



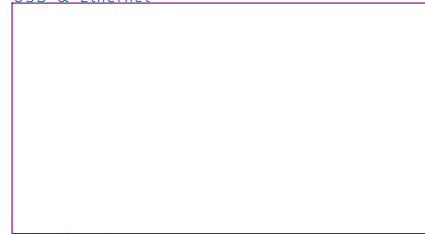
onebank.sch

Raspberry Pi Mod & I/O



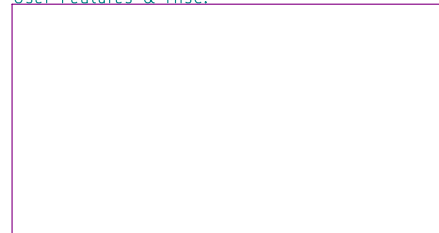
rpi_comm.sch

USB & Ethernet



usb_eth.sch

User Features & Misc.



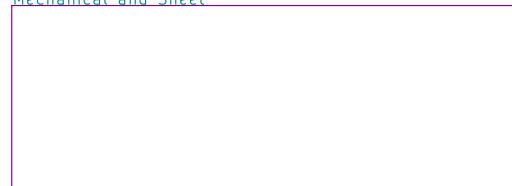
file58442349.sch

External Interface Components & Connectors

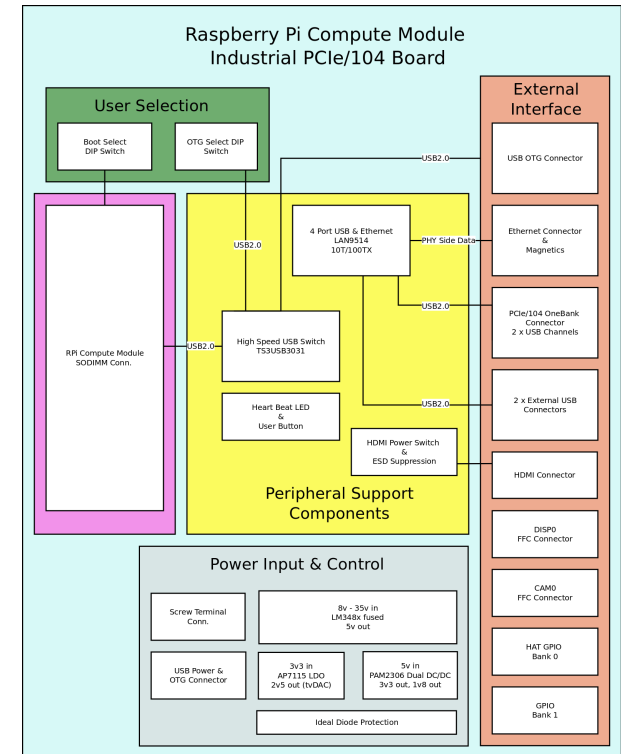


extern_interface.sch

Mechanical and Sheet



mech.sch



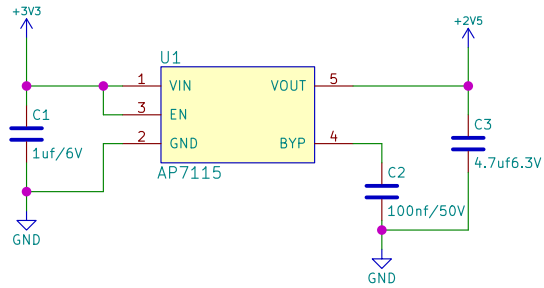
Author: Reiner Schmidt
Roboteurs

Sheet: /
File: RPi PCIe104 OB Compute Mod.sch

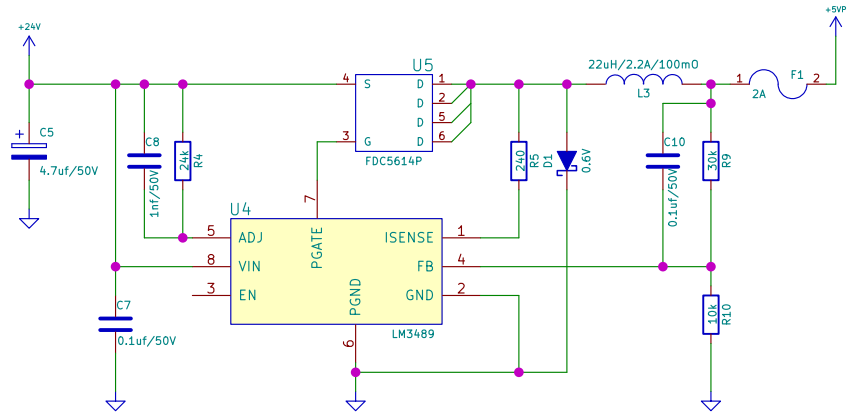
Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

Size: A4	Date: 2016-12-16	Rev: 0.14(Dev)
KiCad E.D.A. kicad no-vcs-found-740056ubuntu16.04.1		Id: 1/8

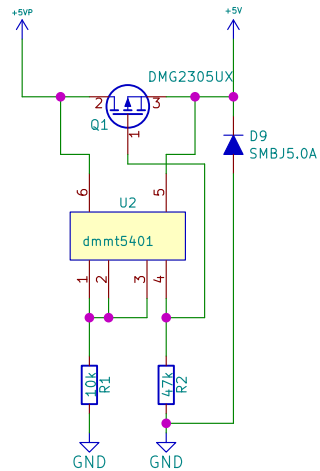
2V5 For Video DAC



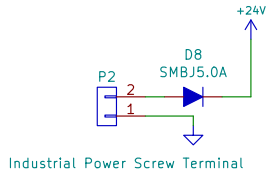
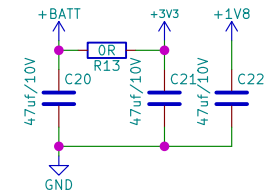
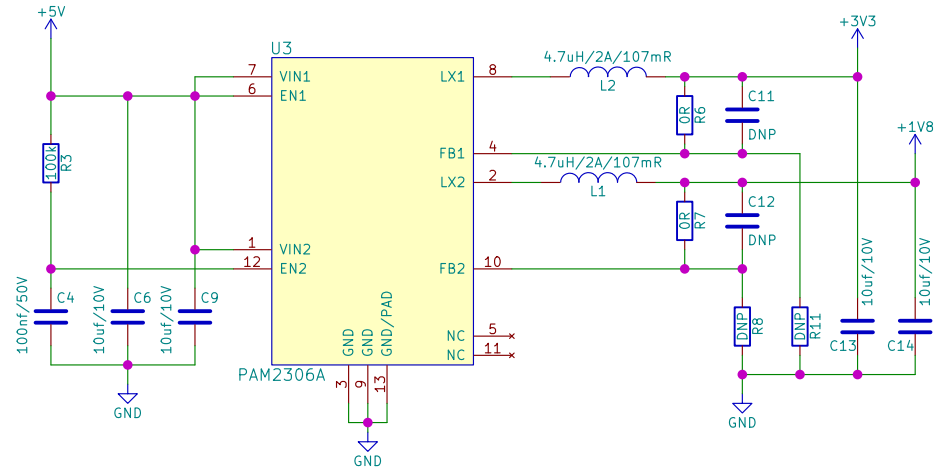
5v @ 2.0A DC/DC supply



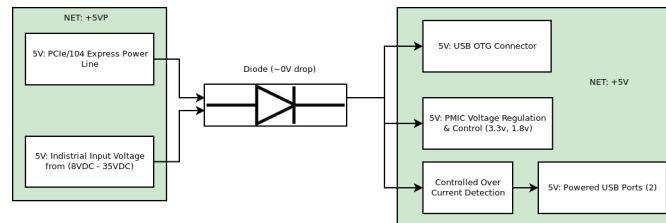
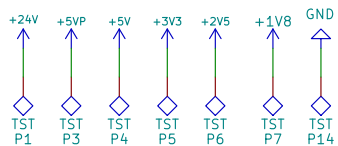
Backfeed Protection Diode



3V3 & 1V8 DC/DC



Test Points



Author: Reiner Schmidt

Roboteurs

Sheet: /Power Input and Managment/

File: power.sch

Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

Size: A4

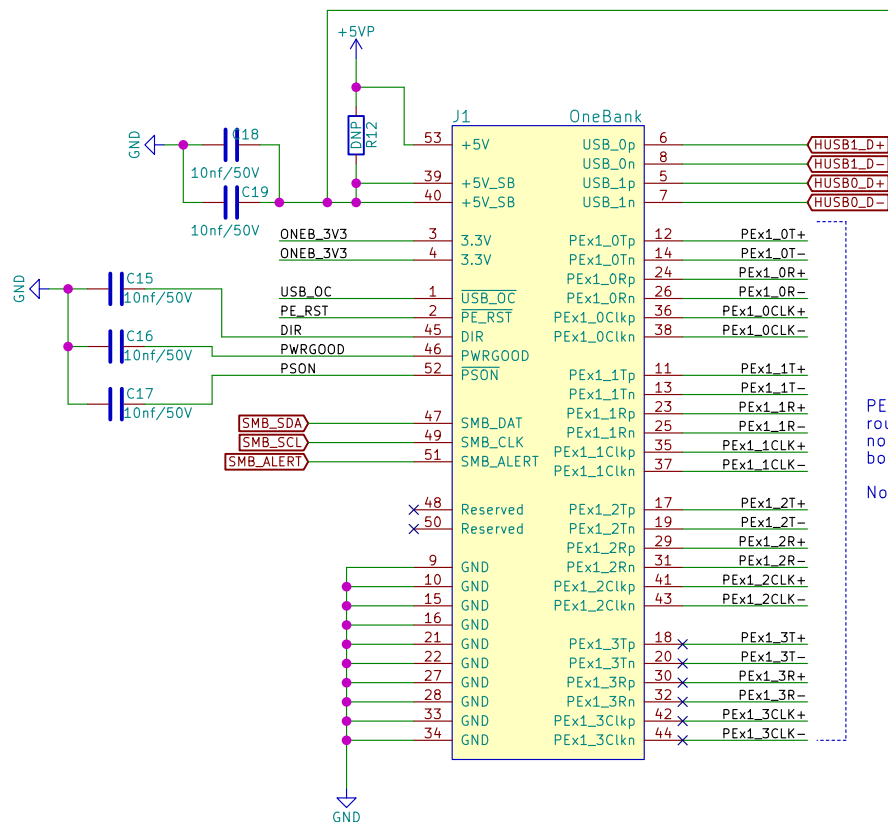
Date: 2016-12-16

Rev: 0.14(Dev)

KiCad E.D.A. kicad no-vcs-found-740056ubuntu16.04.1

Id: 2/8

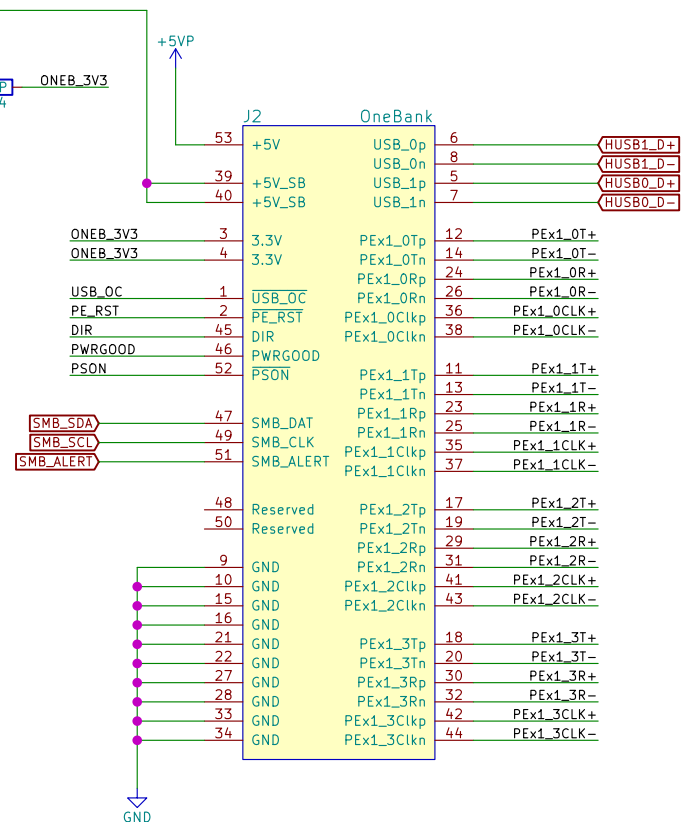
OneBank Top Connector



PEx Connections only
routed between connector,
no other connection on
board

No Link Shift

OneBank Bottom Connector



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Sheet: /PCle/104 One Bank Interface/

File: onebank.sch

Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

Size: A4

Date: 2016-12-16

Rev: 0.14(Dev)

KiCad E.D.A. kicad no-vcs-found-740056ubuntu16.04.1

Id: 3/8

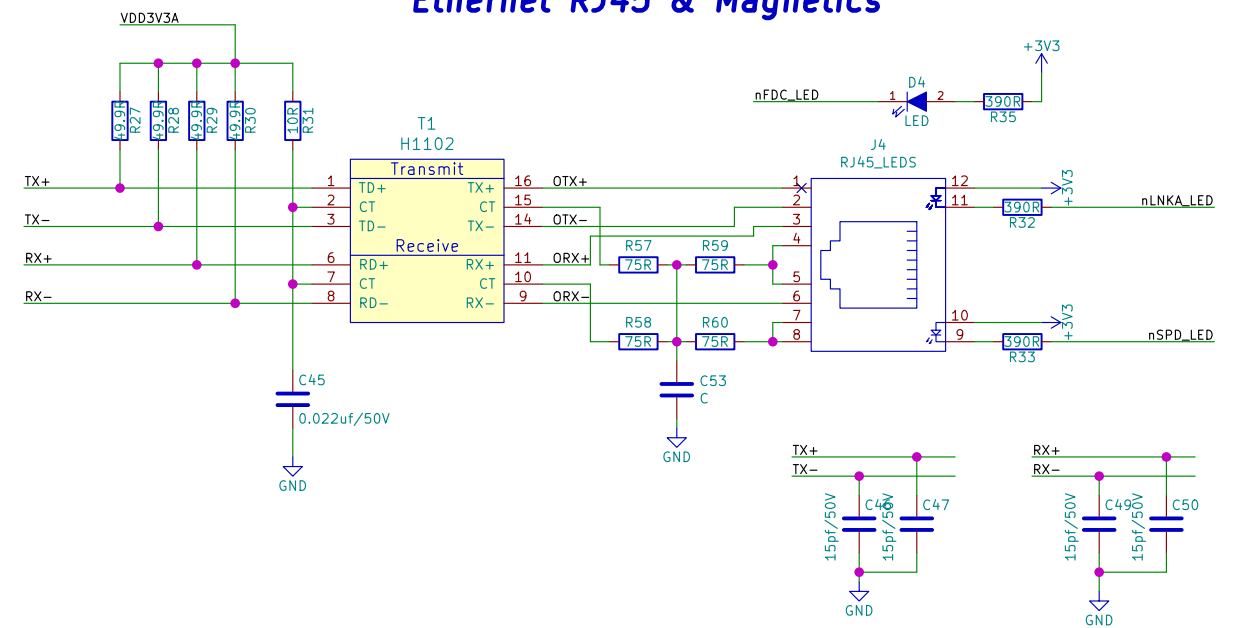
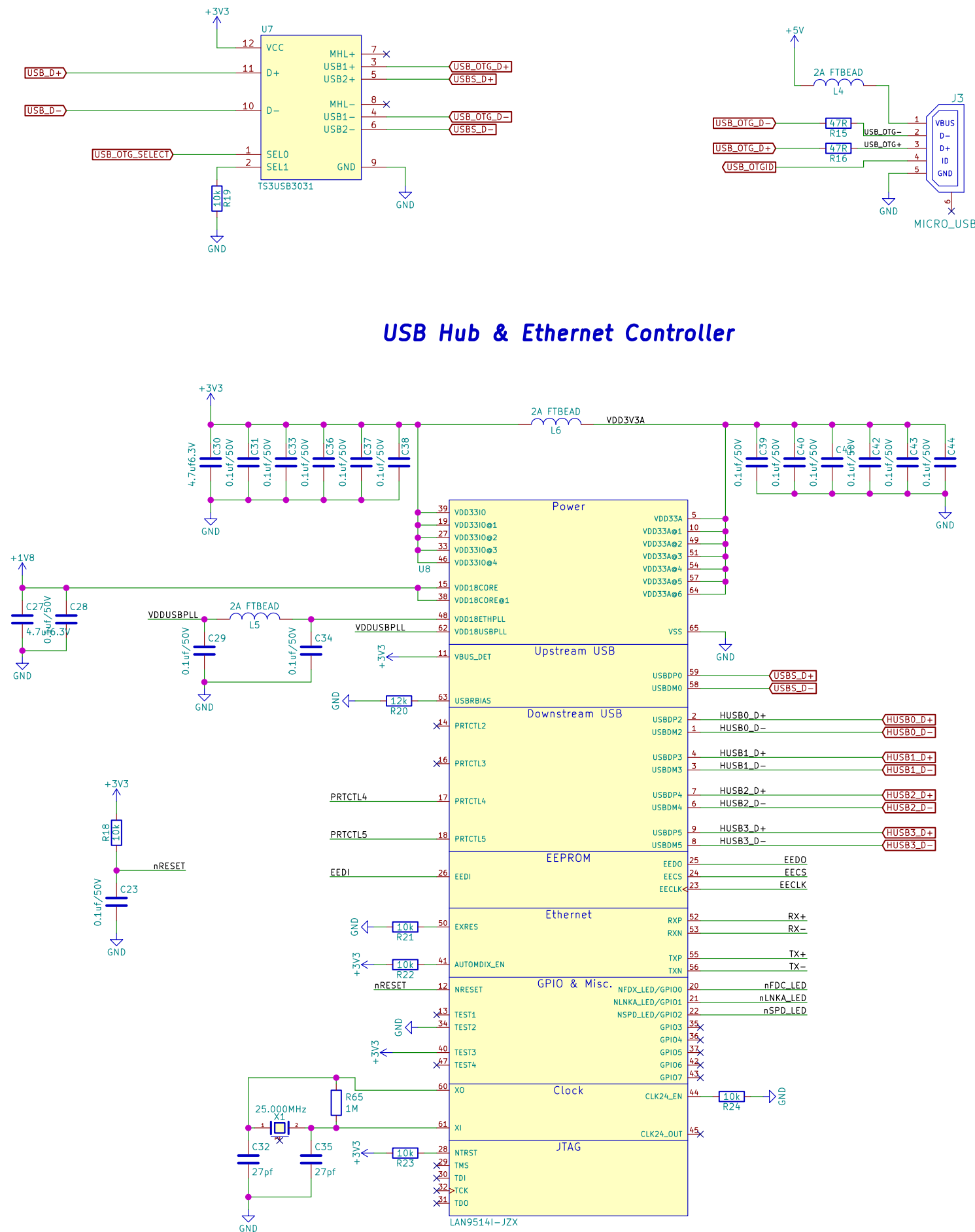
USB Mux.

USB OTG

Dual USB A Conn. with Port Control

USB Hub & Ethernet Controller

Ethernet RJ45 & Magnetics



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Sheet: /USB & Ethernet/

File: usb_eth.sch

Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

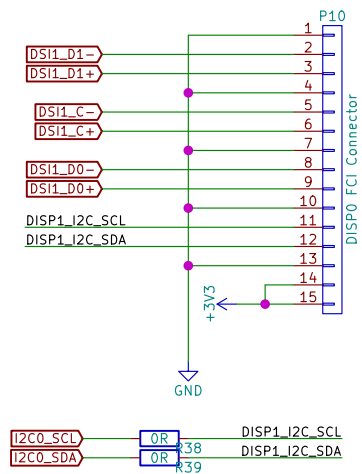
Size: A3 Date: 2016-12-16

Rev: 0.14(Dev)

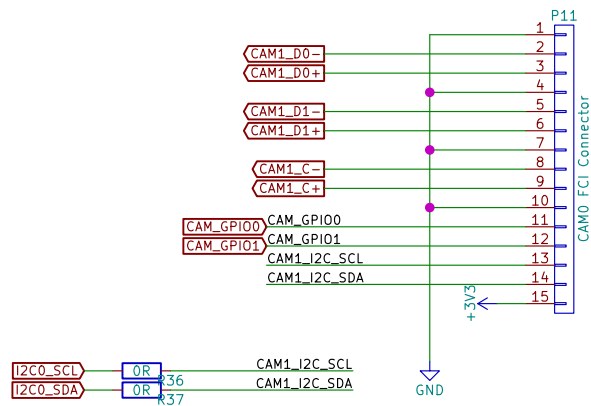
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Id: 4/8

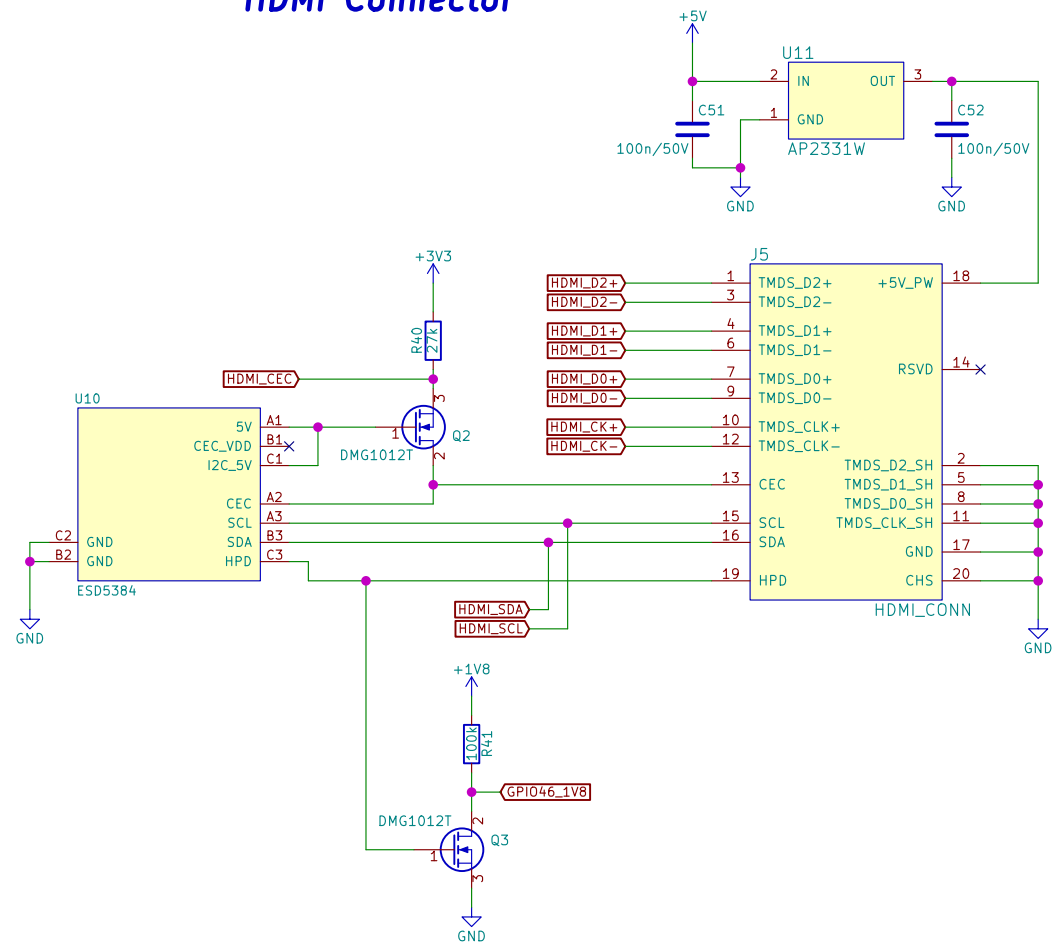
Display Connector



Camera Connector



HDMI Connector



Author: Reiner Schmidt

Roboteurs

Sheet: /External Interface Components & Connectors/
File: extern_interface.sch

Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

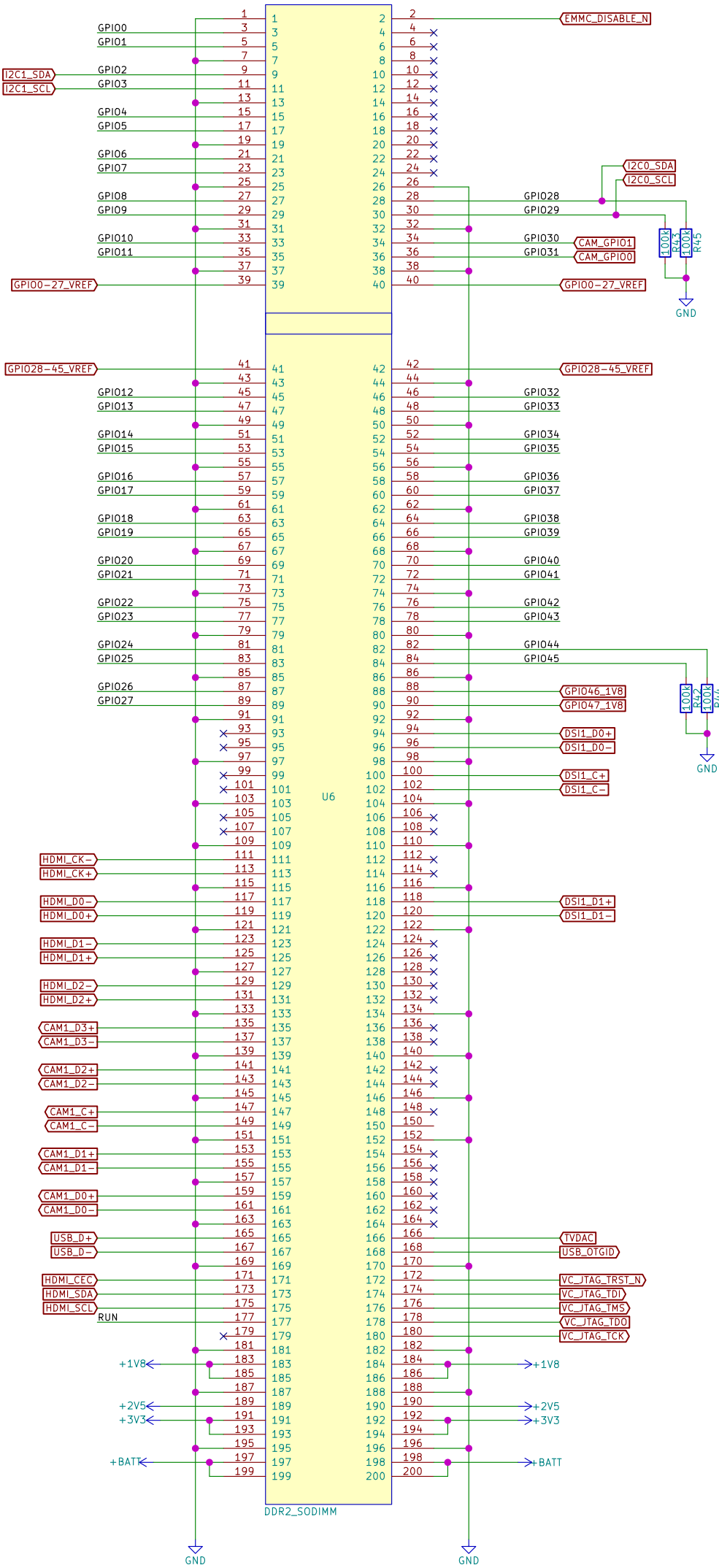
Size: A4	Date: 2016-12-16
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Rev: 0.14(Der)

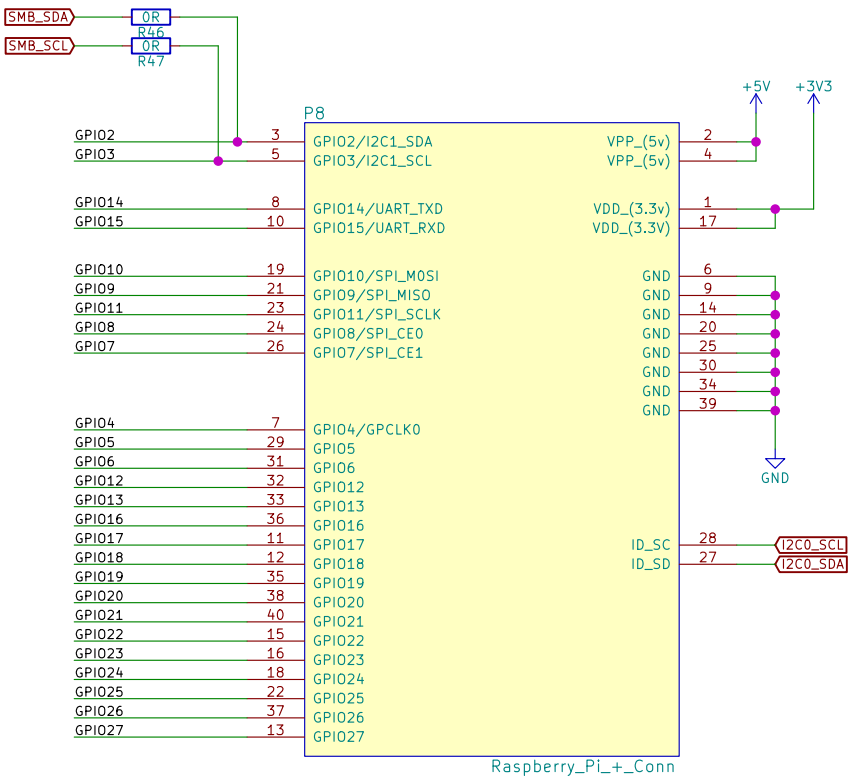
KiCad E.D.A.	kiCad no-vcs-found-740056ubuntu16.04.1
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Id: 5/8

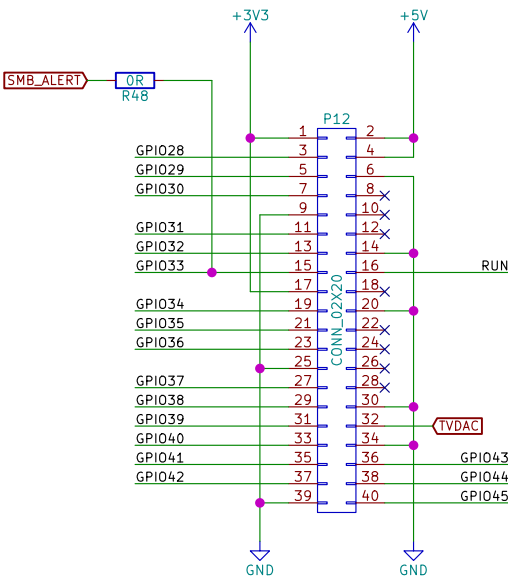
Raspberry Pi Compute Module
SODIMM Connector



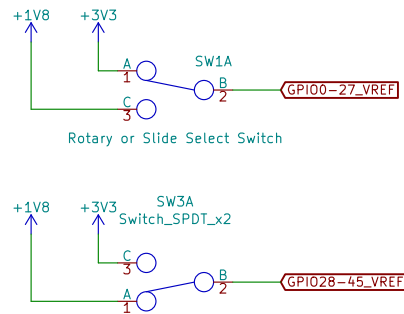
Raspberry Pi Standard Hat/IDE
Connector (Bank0)



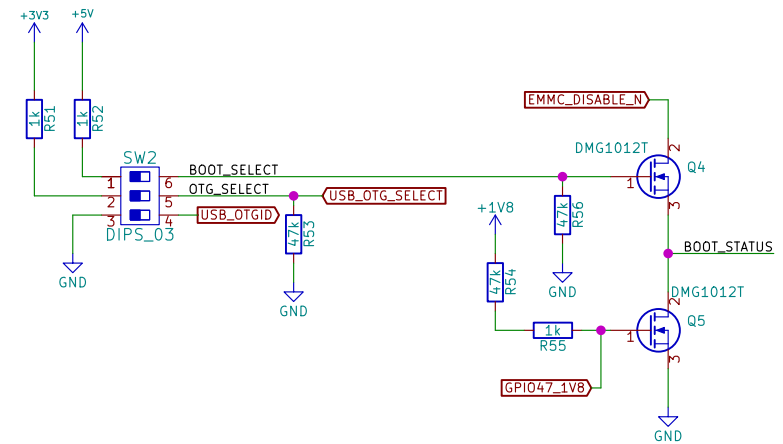
Additional IO (Bank1)



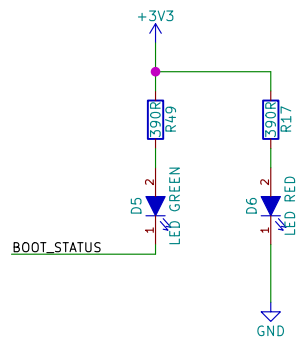
GPIO Bank Voltage Select



User Mode Selection



Status and Display LEDs



Author: Reiner Schmidt

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Sheet: /User Features & Misc./

File: file58442349.sch

Title: PCIe/104 OneBank Raspberry Pi Compute Module Board

Size: A4 Date: 2016-12-16

Rev: 0.14(Dev)

KiCad E.D.A. kicad no-vcs-found-740056ubuntu16.04.1

Id: 7/8

Mechanical Mounting Holes



SODIMM Card Fixture Holes



Author: Reiner Schmidt		
Roboteurs		
Sheet: /Mechanical and Sheet/		
File: mech.sch		
Title: PCIe/104 OneBank Raspberry Pi Compute Module Board		
Size: A4	Date: 2016-12-16	Rev: 0.14(Dev)
KiCad E.D.A. kicad no-vcs-found-740056ubuntu16.04.1		Id: 8/8