

DEVUZ - Student Essential Development Board Addon

Input Switchmode Power Supply

DC In : 28V to 6V -> DC Out : 5V

Fiducials

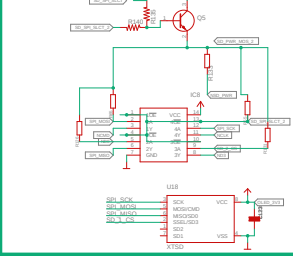
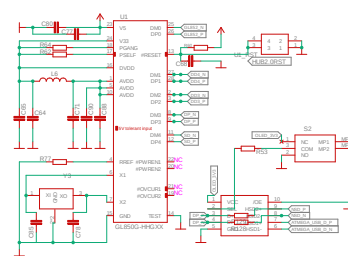
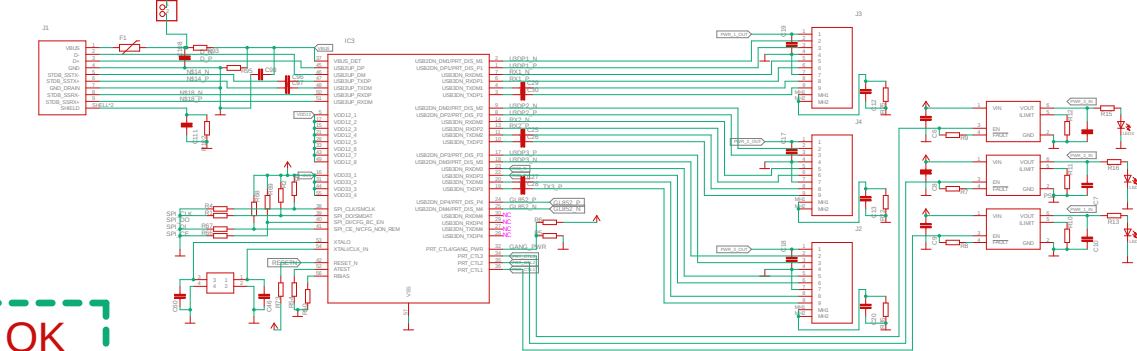
OK

Microchip 5744 Quad Port USB 3.0 HUB / W 2A CHG

GL852 USB 2.0 Hub

Upstream , Main Hub IC & Downstream Ports & Current Limiters

Internal USB 2.0 HUB



Single Lithium Charger

Decoupling Caps

Hub Power Rails

VDD1V2

VDD3V3

VDD1V2

VDD3V3

USB Ports & Crnt Lmts IC

USB ESD Protection

Port Power Monitor's

Internal SD CARD READERS

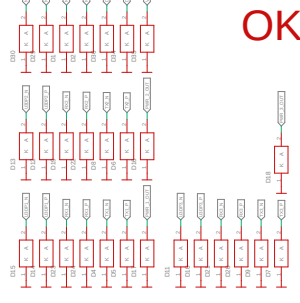
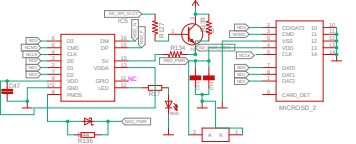
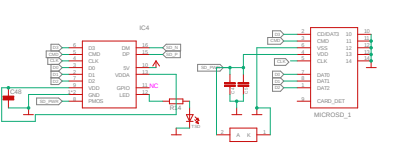
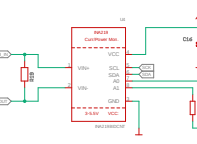
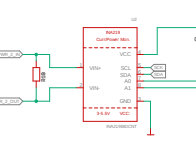
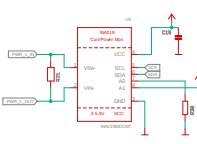
USB PORT 1

USB PORT 2

USB PORT 3

TOP

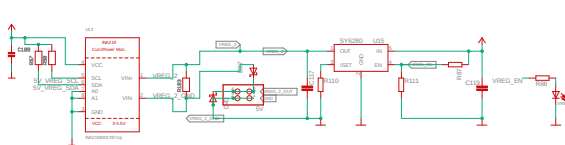
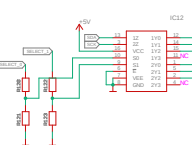
BOTTOM



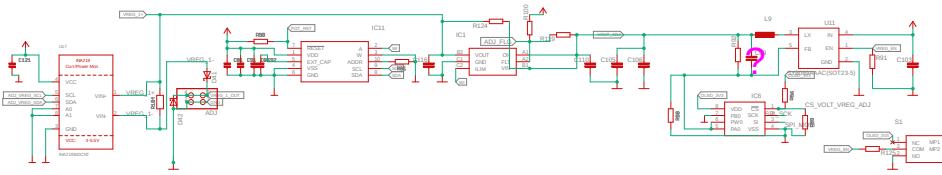
Protected DC Power Supplies

Multiplexer

Fixed 5V Power Supply W/ Power Monitor



ADJ Current & Voltage Power Supply W/ Power Monitor

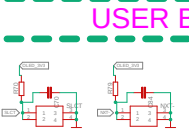
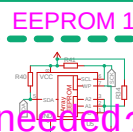
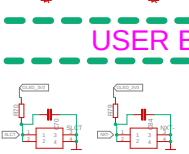
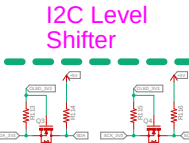
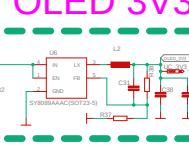
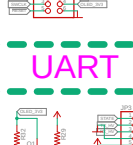
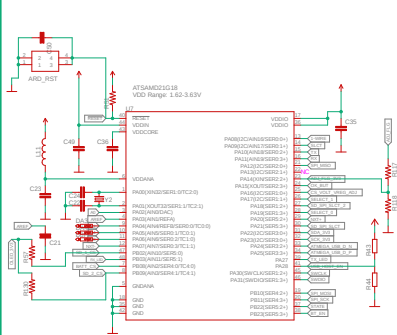


User Monitor and Control

SAMD21 Main IC

ICSP

User Interface



OK

EEPROM 2 ? needed?

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Founder of EEPUX_Projects

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