

# 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

OK

Decoupling Caps

Hub Power Rails

VDD1V2

VDD3V3

VDD1V2

VDD3V3

Port Power Monitor's

USB PORT 1

USB PORT 2

USB PORT 3

Internal SD CARD READERS

TOP

BOTTOM

ignore

not needed

Onboard sd card

Single Lithium Charger

USB Ports & Crnt Lmts IC

USB ESD Protection

OK

## 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

OLED 3V3

0.96" OLED

UART

I2C Level Shifter

EEPROM 1

USER Buttons

OK

EEPROM 2 ? needed?

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