

Sheet: Power

File: power.sch

Sheet: FFC conns

AUX_RX

File: front_panel_conn.sch

AUX_TXD

Sheet: MCU / Bluepill

File: f103_bluepill.sch

USART3_TXD

USART3_RXC

R101

100R

Sheet: F429Discovery connection

File: f429disco_conn.sch

AUXUART7_TX

AUXUART7_RX



H101
MountingHole_Pad



H102
MountingHole_Pad



H103
MountingHole_Pad



H104
MountingHole_Pad



M101



M102



M103

JLC_tooling_hole



JLC_tooling_hole



JLC_tooling_hole

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MJ Logo101

Sheet: /

File: frontpanel_dev_adapter.sch

Title: FFC Adapter board

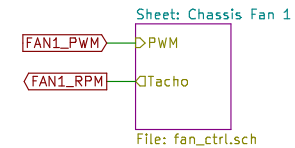
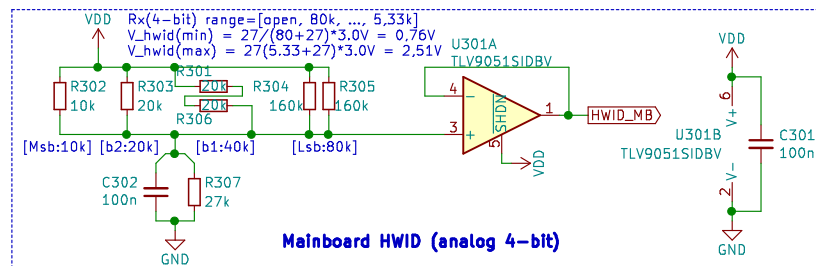
Size: A4

Date: 2020-12-13

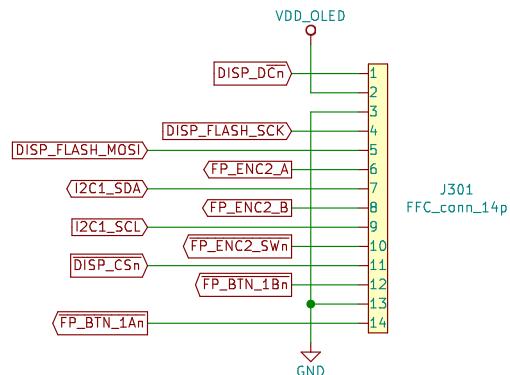
Rev: r0.1

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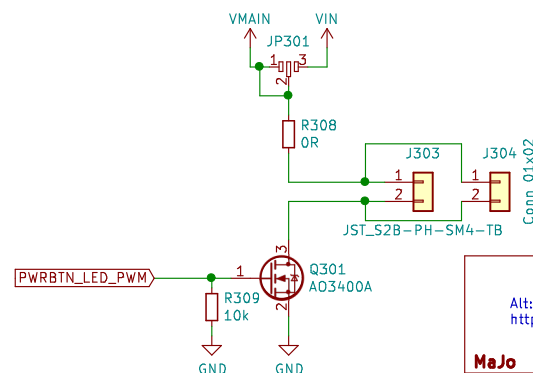
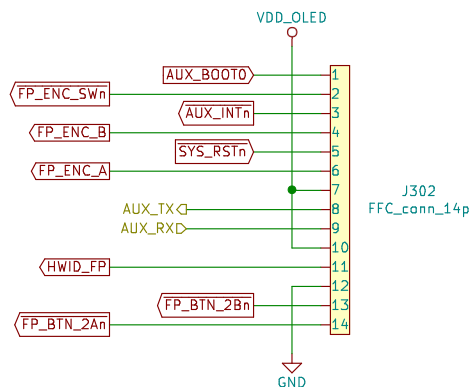
Id: 1/6



Place vDD_OLED LDO close to FFC connectors



The left-side of front panel supports either an on/off Power-button OR optionally a 2nd rotary encoder. HWID_FP should be used to indicate which option is chosen



FancyBtn LED connector
(PWM ctrl low-side; 5V/12V selectable V+)

Alt: Molex Molex_MicroClasp-55935-0210 (OTS Cable: e.g. 15136-0203)
https://www.molex.com/molex/products/part-detail/pcb_headers/0559350210

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Sheet: /FFC conns/
File: front_panel_conn.sch

Title: Front-side and internal connectors

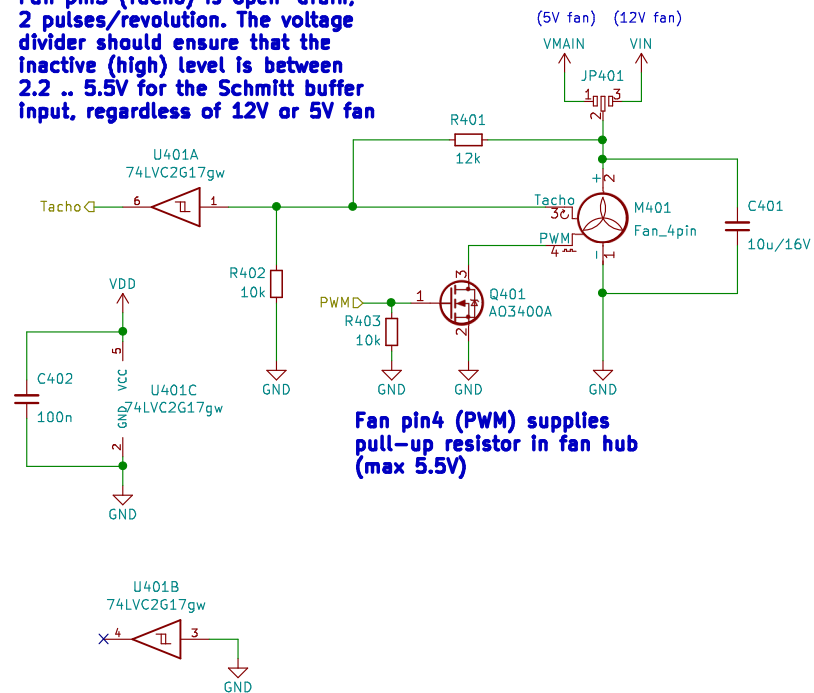
Size: A4	Date: 2020-12-13
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Rev: r0.1

Id: 3/6

Fan pin3 (Tacho) is open-drain, 2 pulses/revolution. The voltage divider should ensure that the inactive (high) level is between 2.2 .. 5.5V for the Schmitt buffer input, regardless of 12V or 5V fan



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Sheet: /FFC conns/Chassis Fan 1/

File: fan_ctrl.sch

Title: Fan controller

Size: A4

Date: 2020-12-13

Rev: r0.1

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Id: 4/6

