

Ren1=390k, Ren2=68k --> (Lower Vin alt.:  
 Vstart=8.029V, Ren1=220k, Ren2=56k -->  
 Vstop=6.859V, Vstart=5.94V,  
 Vphys=1.17V, Vstop=5.28V,  
 Vphys=0.66V)

Pluto DC/DC BUCK  
 (Values updated from TI WebBench)  
 Vin=11.5-12.5V, Vout\_nom=5.25V, Iout\_nom=1.0A

VDD\_OLED - Place LDO near  
 the frontpanel FFC connectors

3.0V digital  
 (MCU etc)

12V Board supply input  
 and reverse voltage PFET

Power LED Indicators

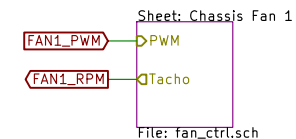
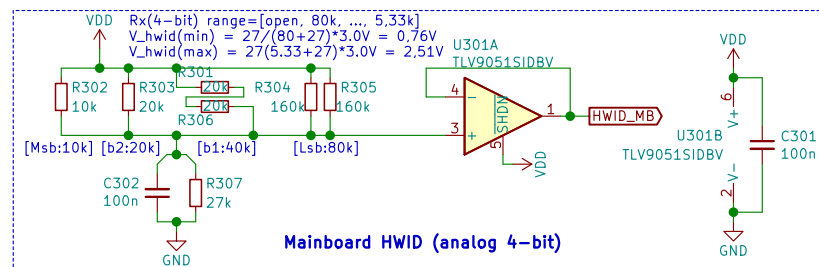
MaJo

Sheet: /Power/  
 File: power.sch

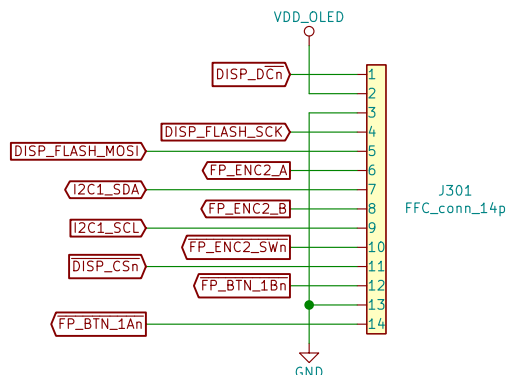
Title: DC/DC Buck, LDOs & power-LEDs

Size: A4 Date: 2020-12-13  
 KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

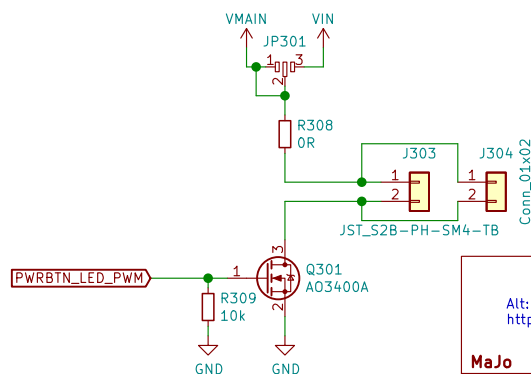
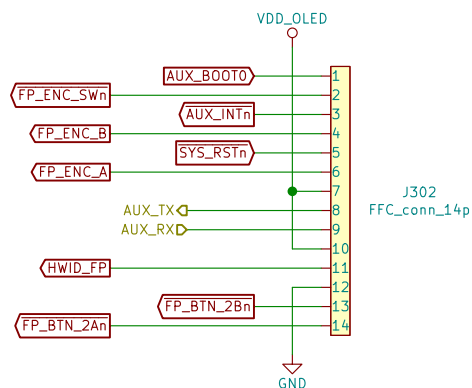
Rev: r0.1  
 Id: 2/6



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](https://www.molex.com/molex/products/part-detail/pcb_headers/0559350210)

**MaJo**

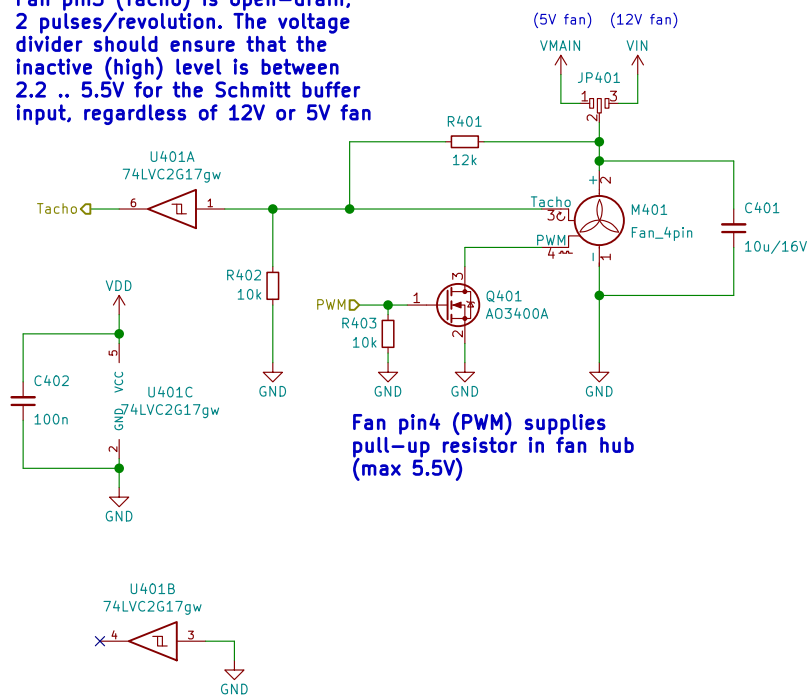
Sheet: /FFC conns/  
File: front\_panel\_conn.sch

**Title: Front-side and internal connectors**

Size: A4 Date: 2020-12-13  
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

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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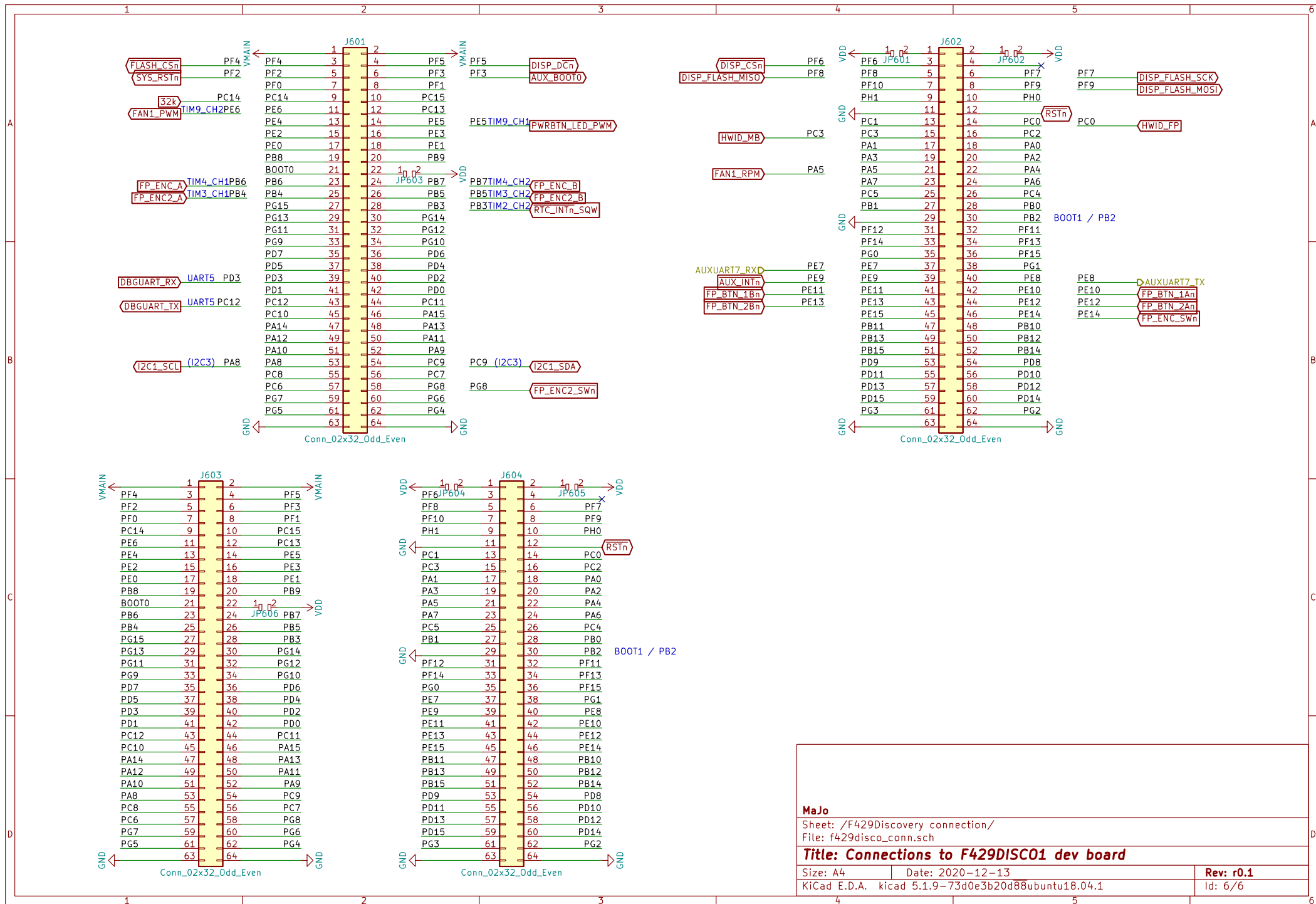
Sheet: /FFC conns/Chassis Fan 1/  
File: fan\_ctrl.sch

**Title: Fan controller**

Size: A4 Date: 2020-12-13  
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

Rev: r0.1  
Id: 4/6





<b>MaJo</b>		
Sheet: /F429Discovery connection/ File: f429disco_conn.sch		
<b>Title: Connections to F429DISCO1 dev board</b>		
Size: A4	Date: 2020-12-13	Rev: r0.1
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1		Id: 6/6