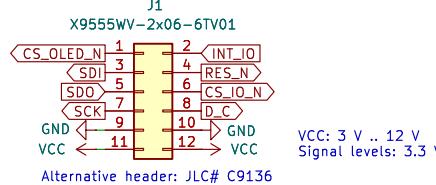


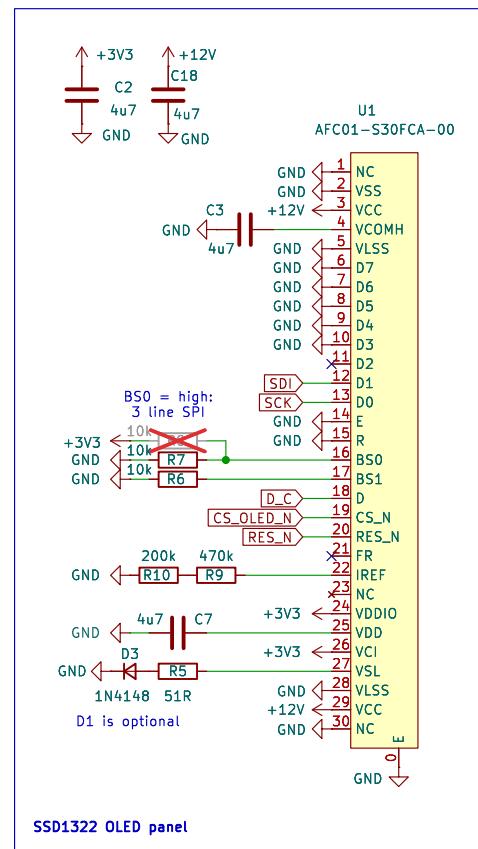
A



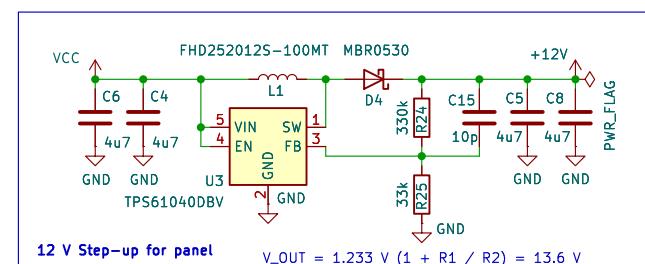
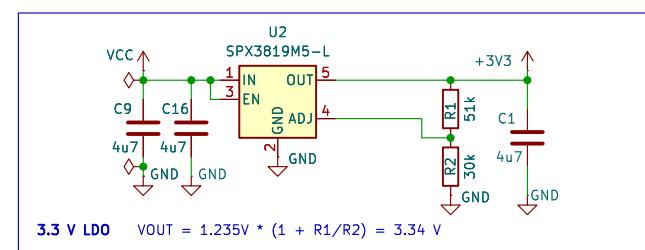
Use IDC ribbon-cable to get a 1:1 connection to a PMOD2A host

When plugging the display directly into a PMOD port, be aware that the columns (even and odd pin numbers) will be swapped compared to the PMOD standard

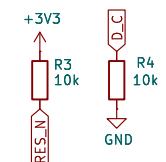
For a matching cable, search for:  
FC-FD DC4 IDC 2.54mm pitch Male to Female connector



Switches and LEDs



C



Betz Engineering

Sheet: /  
File: ui\_board\_1u.kicad\_sch

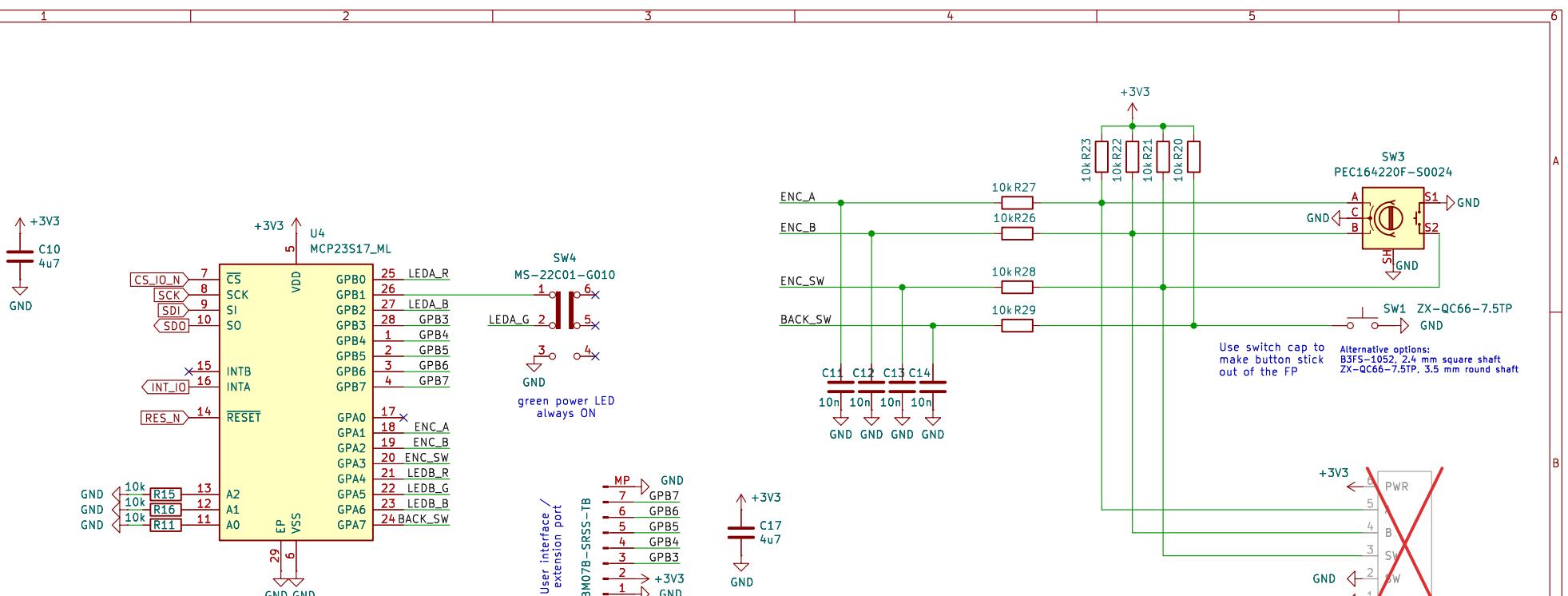
Title: ui\_board\_1u – User interface board

Size: A4 Date: 2025-12-17  
KiCad E.D.A. 9.0.0-rc3-dirty

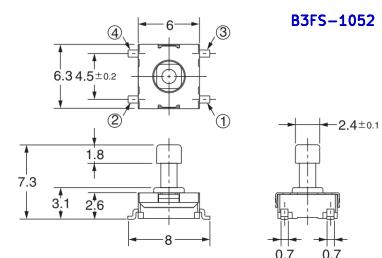
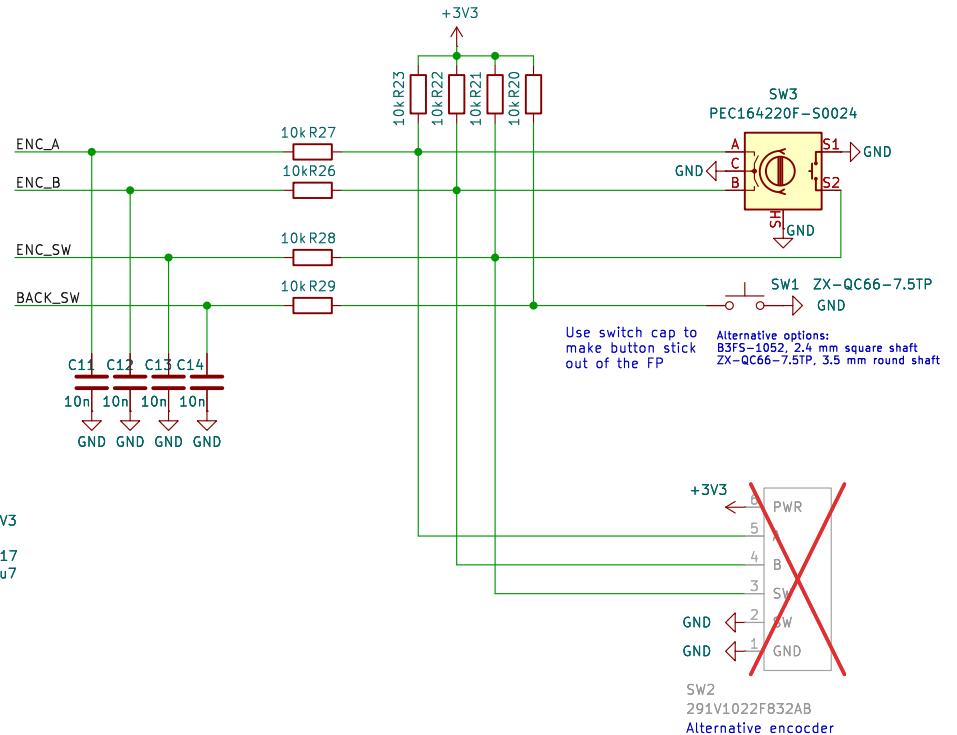
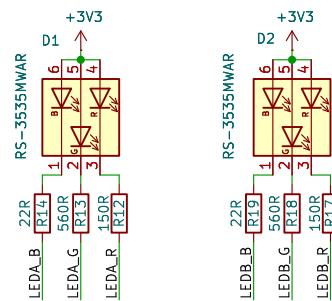
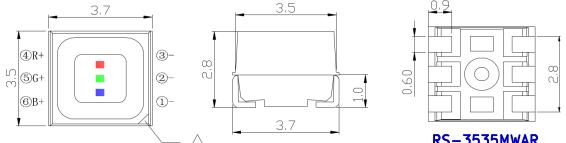
H16	H17	H21	H22
D2.7	D2.7	D2.7	D2.7
H1	H12	H32	H40
D2.7	D2.7	D2.7	D2.7

Rev: –  
Id: 1/2

D



RS-3535MWAR	R	G	B
Lum @ 20 mA [mcd]	950	2200	500
Lum target [mcd]	400	400	400
I target [mA]	8.0	1.8	1.30
V FWD [V]	2.0	2.3	3.0
R [Ohm]	162.5	555.6	25.4
R chosen [Ohm]	150	560	22



Betz Engineering

Sheet: /Switches and LEDs/  
File: switches.kicad\_sch

Title: ui\_board\_1u – User interface board

Size: A4 Date: 2025-12-17

KiCad E.D.A. 9.0.0-rc3-dirty

Rev: –  
Id: 2/2