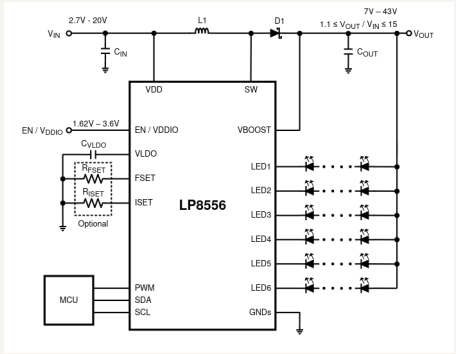
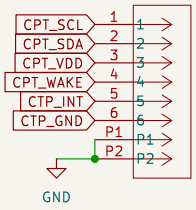
Mega65Modular LCD panel v0.1
gardners
License: CERN-OHL-S v2
Year: 2025





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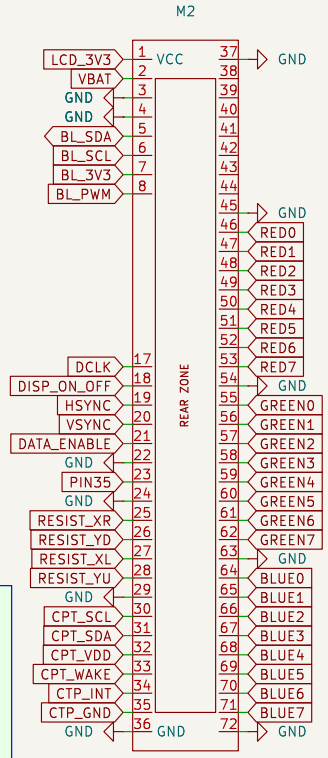
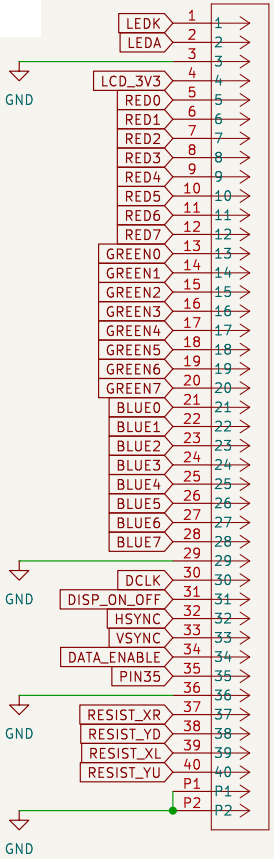
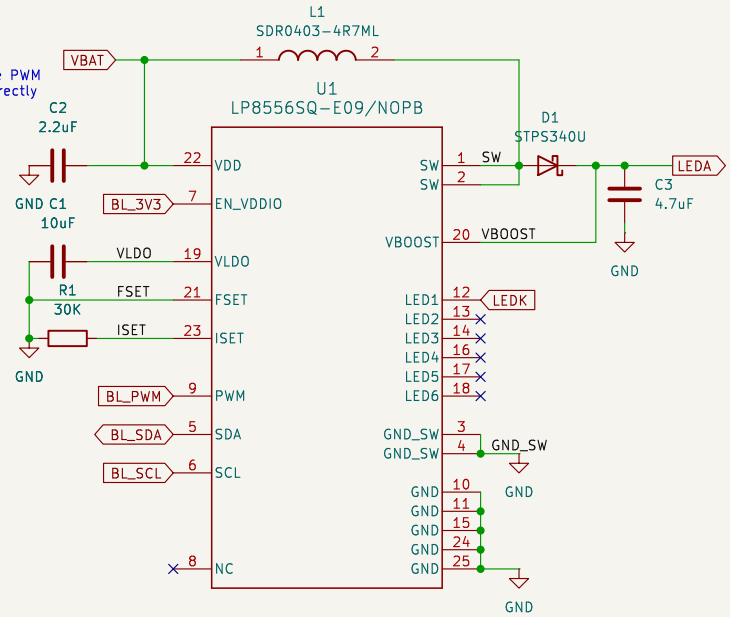




FSET to GND = use PWM input frequency directly



R_ISET:
I_LED = (CURRENT/4095) x IMAX x (24,000 / R_ISET)
CURRENT is the I2C settable fraction, so just set to 4095.
We want IMAX = 40mA.
IMAX = 50mA with 24K R_ISET
Current is effectively 1200A / R_ISET
So for IMAX = 40mA, we want:
0.04A = 1200A / R
R = 1200A / 0.04A
R = 30K

3D top side

CERN-OHL-S v2
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Sheet: /
File: lcd-panel.kicad_sch

Title: Mega65Modular LCD panel

Size: A4	Date: 2025-11-10	**Rev: v0.1**
KiCad E.D.A. 9.0.1		Id: 1/1