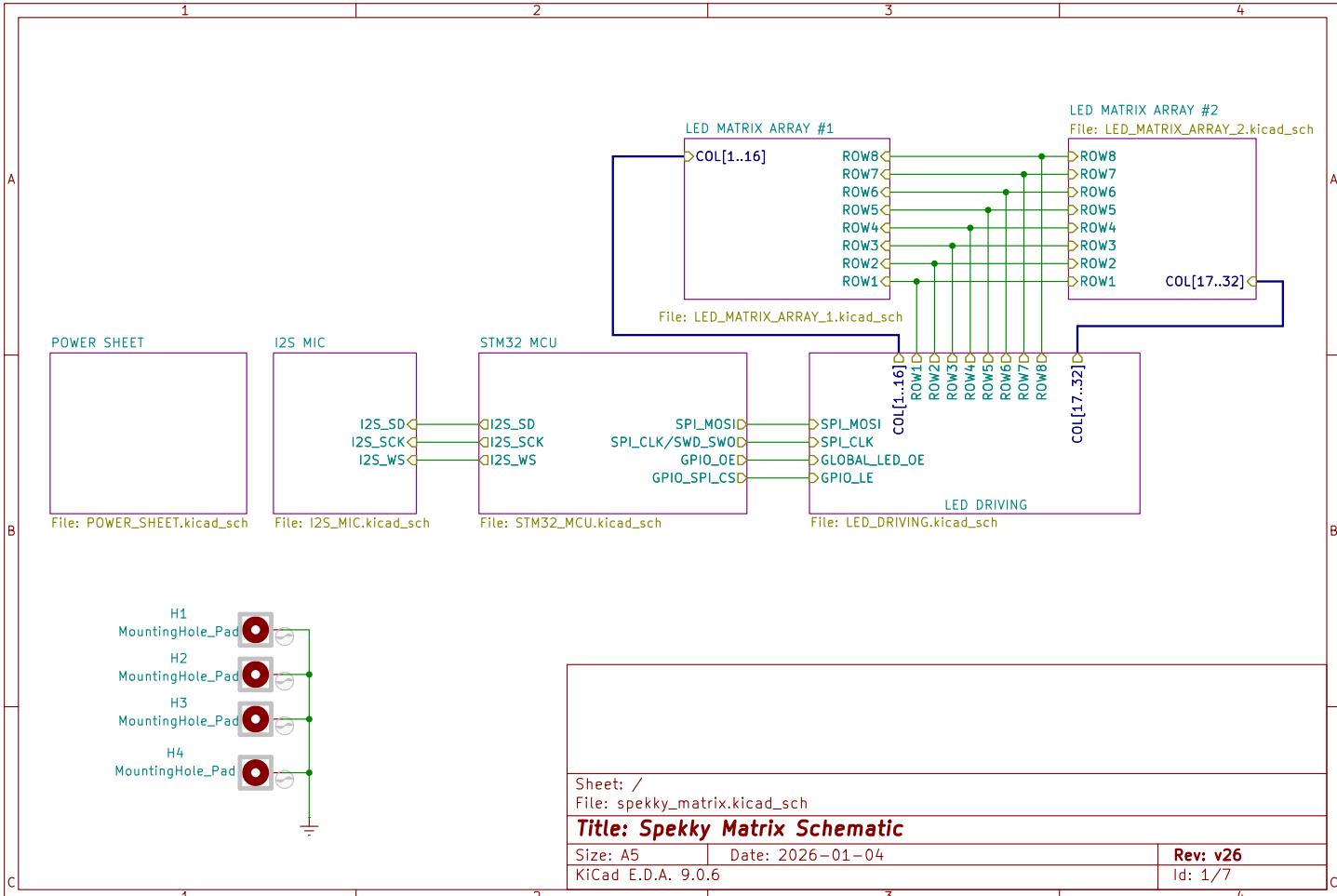
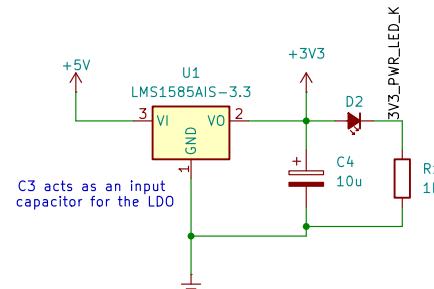
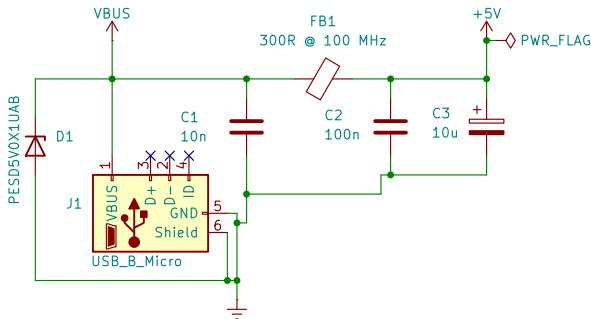


1 2 3 4

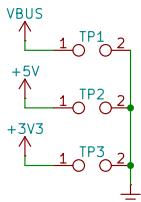


1 2 3 4

A



B



All things power related

Sheet: /POWER SHEET/
File: POWER_SHEET.kicad_sch

Title: Power Sheet

Size: A5	Date: 2025-06-26
KiCad E.D.A. 9.0.6	

Rev: v08
Id: 2/7

C

1 2 3 4

A

B

C

1 2 3 4

A

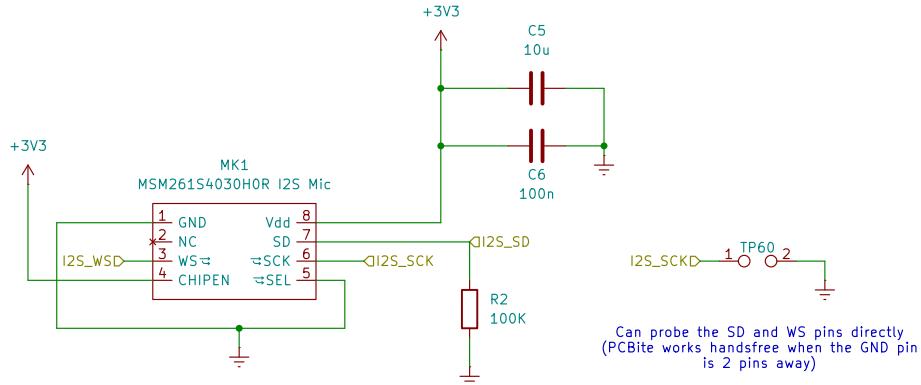
A

B

B

C

C



Same as Fermion I2S mic breakout board

Sheet: /I2S MIC/
File: I2S_MIC.kicad_sch

Title: I2S Mic

Size: A5 Date: 2026-01-04
KiCad E.D.A. 9.0.6

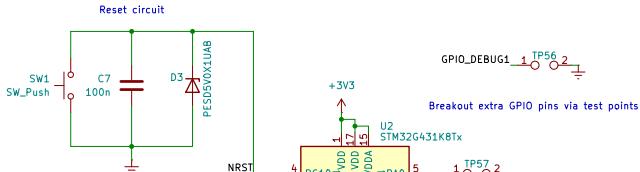
Rev: v03
Id: 3/7

1 2 3 4

1 2 3 4 5 6

A

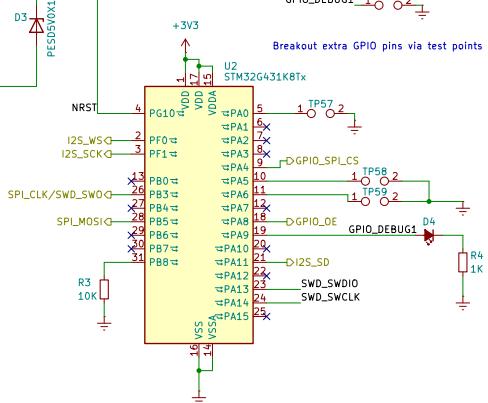
Recommended external reset circuit:
via DS12589 Rev 6 (STM32G4x datasheet)
(plus additional ESD protection)



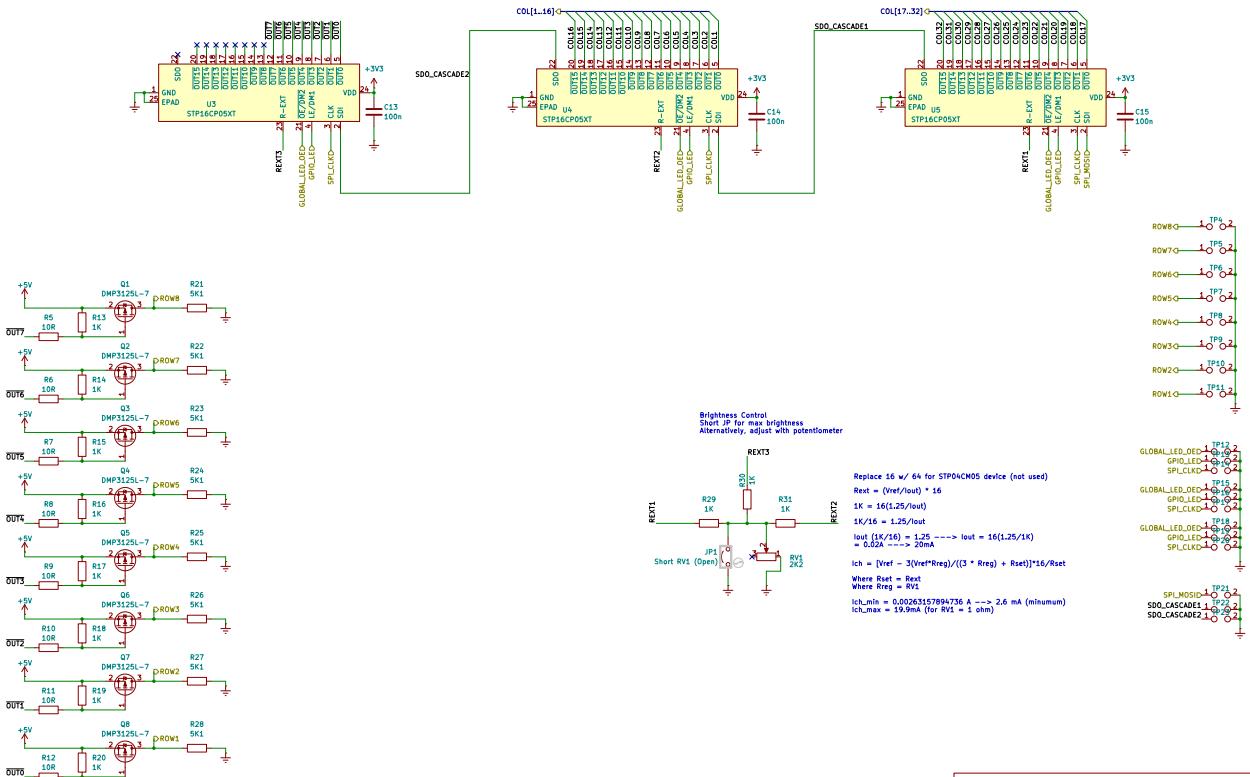
GPIO_DEBUG1 1 TP56 2

Breakout extra GPIO pins via test points

PB3 cannot be used for both SPLCLK and SWO
Programmer must configure between them
Spekky matrix doesn't use SWO



Cascade Direction Last (in chain) <--- First (in chain)



STP16CP05 based cascaded LED matrices

Sheet: /LED DRIVING/

File: LED_DRIVING.kicad_sch

Title: 8x32 LED Matrix

Size: A3 Date: 2025-11-01

KICad E.D.A. 9.0.6

Rev: v08

Id: 5/7



8x16 matrix

Sheet: /LED MATRIX ARRAY #1/
File: LED_MATRIX_ARRAY_1.kicad_sch

Title: LED Matrix #1

Size: A4 Date: 2024-11-23

KiCad E.D.A. 9.0.6

Rev: v01

Id: 6/7

