

1	2	3	4	5	6
A					
B	01 Change.list 文件: 01 Change.list.kicad_sch	02 Block Diagram 文件: 02 Block Diagram.kicad_sch	03 Power Sheet and PAM8403 文件: 03 Power Sheet and PAM8403.kicad_sch		
C	04 SAM2695 文件: 04 SAM2695.kicad_sch	05 Connect 文件: 05 Connect.kicad_sch			
D	seeed studio Sheet: / File: XIAO MIDI Synthesizer.kicad_sch Title: XIAO MIDI Synthesizer CC BY-SA 4.0 Size: A4 Date: 2025-04-18 Design: Rev: v1.0 KiCad E.D.A. 9.0.0 Id: 1/6				
1	2	3	4	5	6

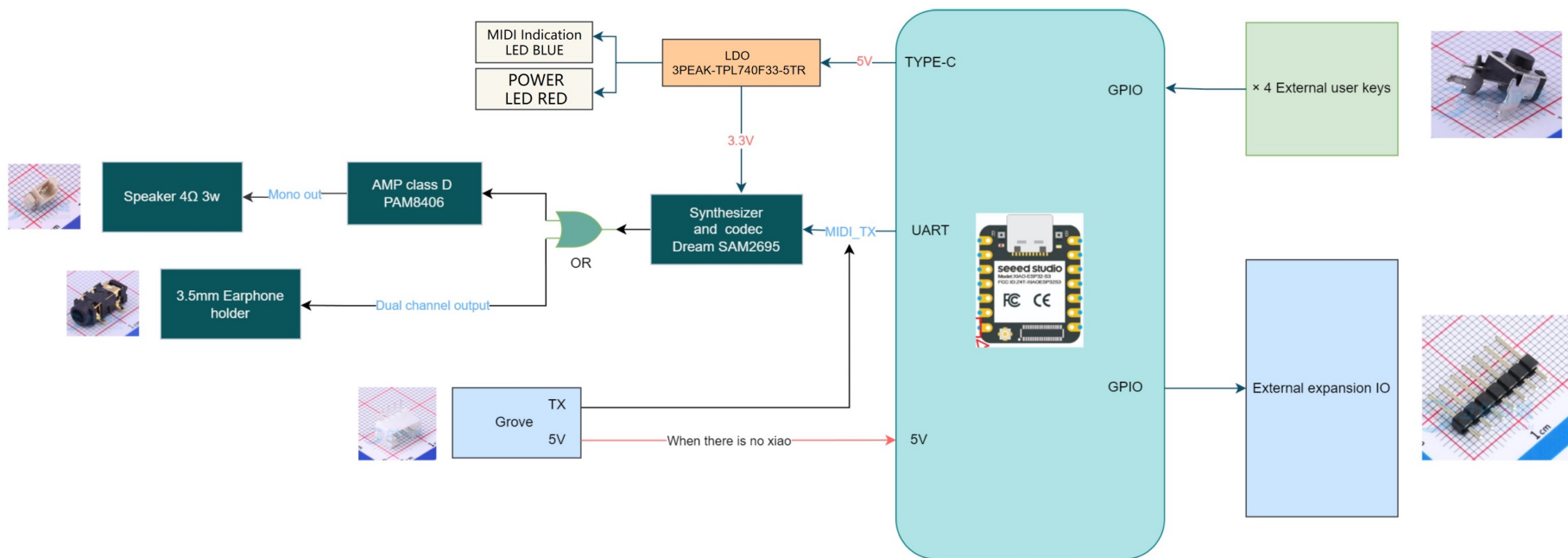
1	2	3	4	5	6
A					
B					
C					
D					

Revision History

DATE	REVISION	DESCRIPTION
2025/04/18	v1.0	1.Initial



Sheet: /01 Change.list/ File: 01 Change.list.kicad_sch			
Title: XIAO MIDI Synthesizer			CC BY-SA 4.0
Size: A4	Date: 2025-04-18	Design:	Rev: v1.0
KiCad E.D.A. 9.0.0			Id: 2/6



seeed studio

Sheet: /02 Block Diagram/

File: 02 Block Diagram.kicad_sch

Title: XIAO MIDI Synthesizer

CC BY-SA 4.0

Size: A4

Date: 2025-04-18

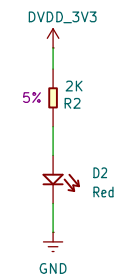
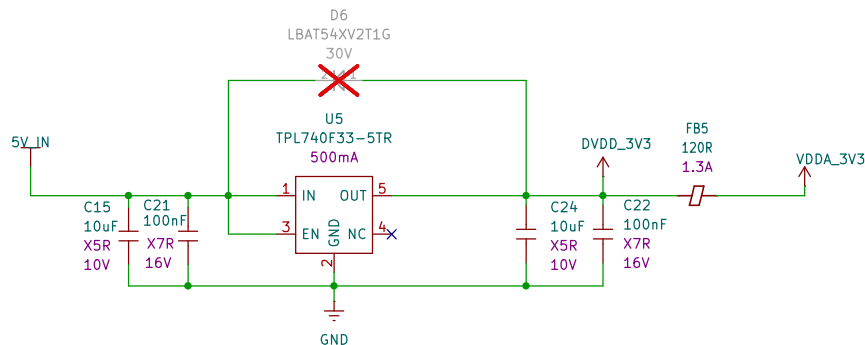
Design:

Rev: v1.0

KiCad E.D.A. 9.0.0

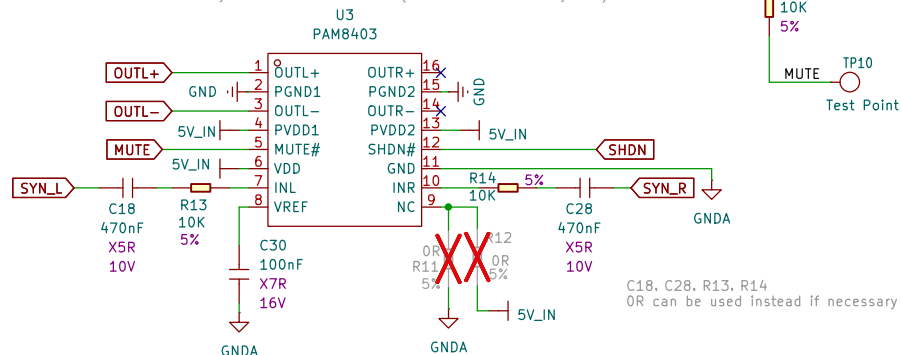
Id: 3/6

3V3-LDO



PAM8406/3

MUTE- Mute control input (low level mute)
SHDN- System shutdown control (low level shutdown system)

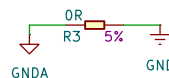
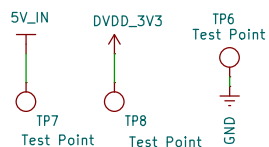


Pin level pull-up is configured here.
In fact, the chip has been pulled up internally.
But let's configure it here

notice:
- With PAM8403, R11 and R12 not assembled

- Using PAM8406:
Then R11 assembled and R12 not assembled -> Class AB power amplifier mode
Then R12 assembled and R11 not assembled -> D class power amplifier mode

The replacement chip PAM8403 / PAM8406 can be selected



seeed studio

Sheet: /03 Power Sheet and PAM8403/
File: 03 Power Sheet and PAM8403.kicad_sch

Title: XIAO MIDI Synthesizer

Size: A4

Date: 2025-04-18

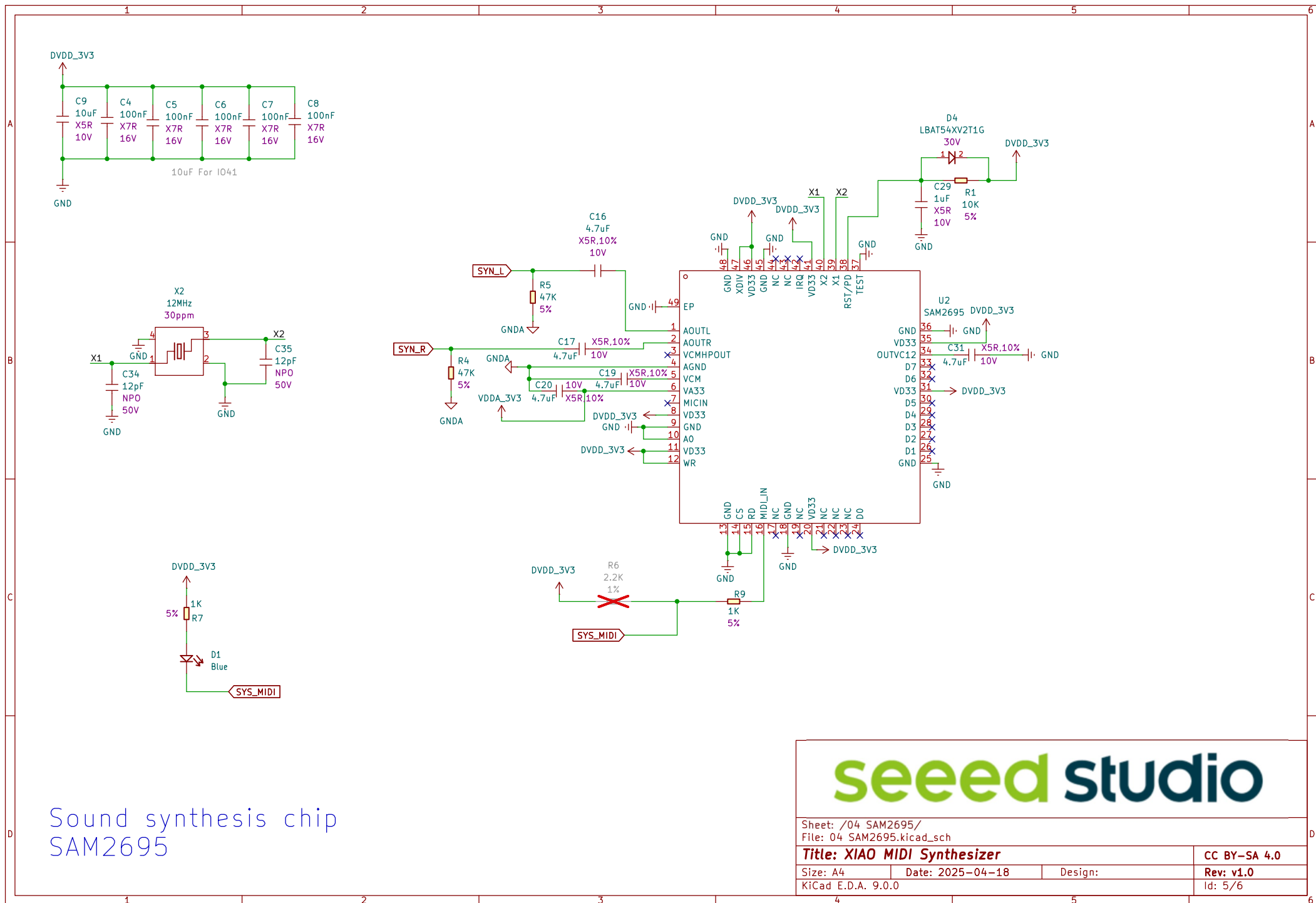
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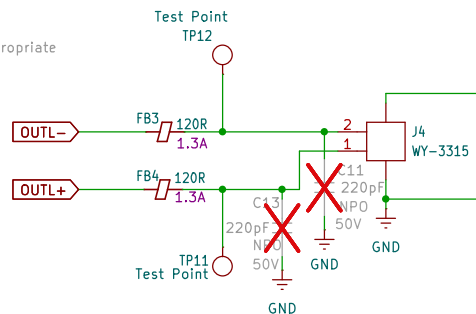
KiCad E.D.A. 9.0.0

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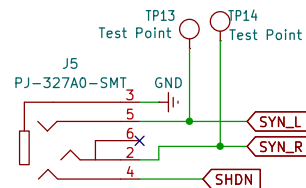
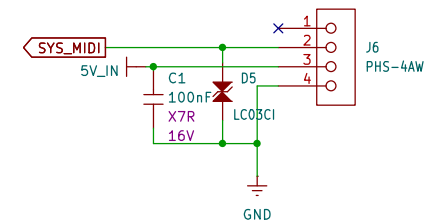
Rev: v1.0

Id: 4/6

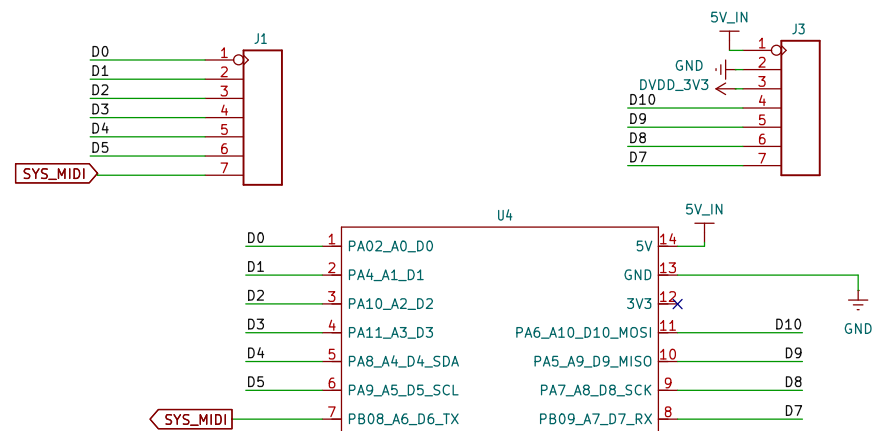




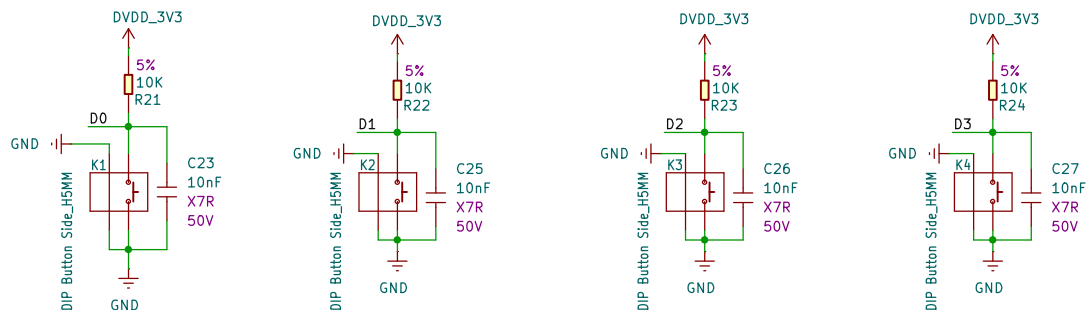
Grove interface



The 3.5 mm
Headphone jack



XIAO



BUTTON



Id: 6/6