

# Heartrate-HW

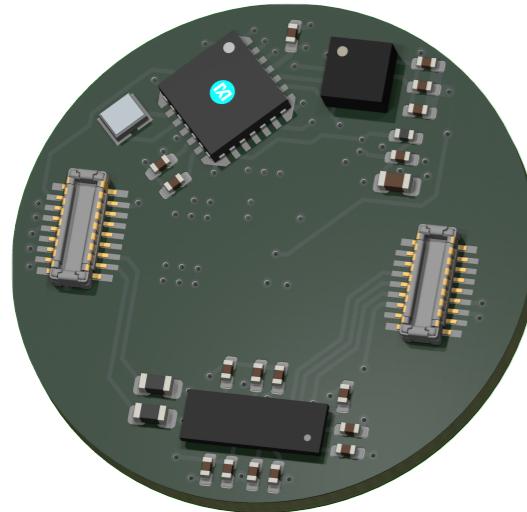
Variant: **CHECKED**

2026-02-20

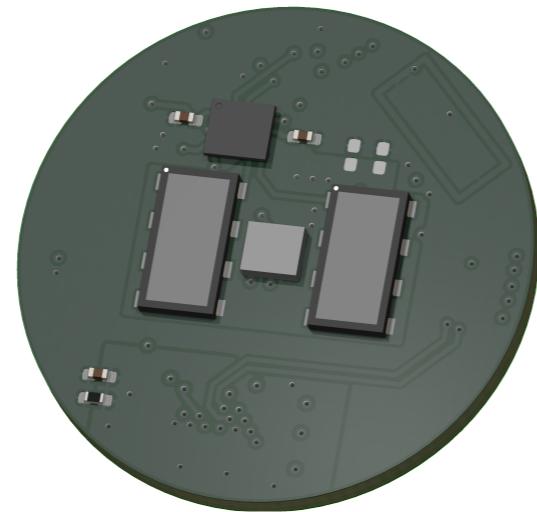
**Rev + (Unreleased)**

Page	Index	Page	Index	Page	Index	Page	Index
1	Cover Page	11	.....	21	.....	31	.....
2	Block Diagram	12	.....	22	.....	32	.....
3	Power - Topology	13	.....	23	.....	33	.....
4	Project Architecture	14	.....	24	.....	34	.....
5	Heartrate	15	.....	25	.....	35	.....
6	Audio	16	.....	26	.....	36	.....
7	Connectors	17	.....	27	.....	37	.....
8	Revision History	18	.....	28	.....	38	.....
9	.....	19	.....	29	.....	39	.....
10	.....	20	.....	30	.....	40	.....

**TOP VIEW**



**BOTTOM VIEW**



## DESIGN CONSIDERATIONS

**DESIGN NOTE:**  
Example text for informational design notes.

**DESIGN NOTE:**  
Example text for debug notes.

**DESIGN NOTE:**  
Example text for cautionary design notes.

**DESIGN NOTE:**  
Example text for critical design notes.

**LAYOUT NOTE:**  
Example text for critical layout guidelines.

## NOTES

Comment

Not fitted components are marked as **X**

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There shouldn't be any mistakes. Contact the engineer if you find any.

RELEASED - A board with this schematic has been sent to production.

Date: 20-Feb-2026

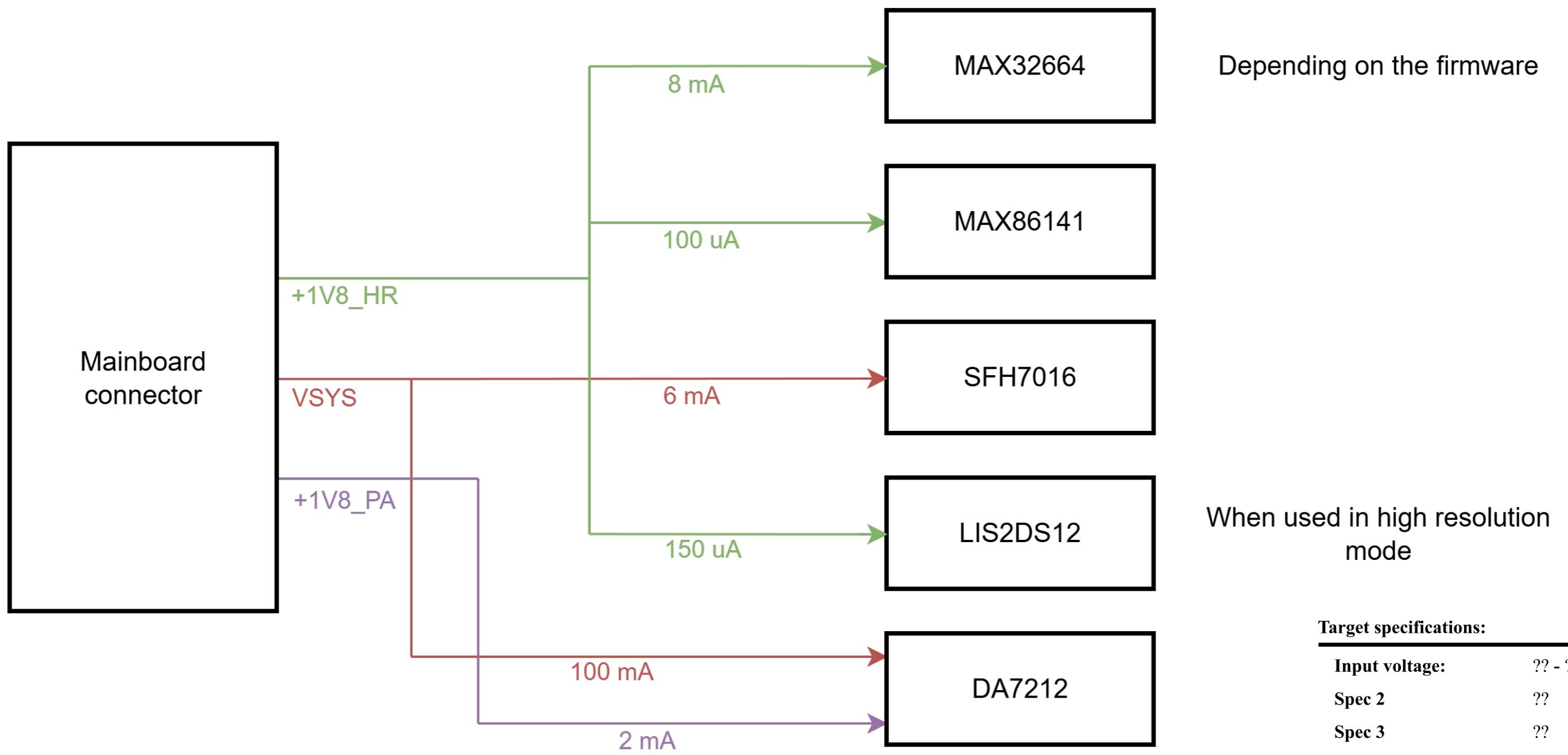
	Comments:	Company: <b>ZSWatch</b>	Variant: <b>CHECKED</b>	Git Hash: <b>6736584</b>
	Board Name: <b>Heartrate-HW</b>	Project Name: <b>ZSWatch Heartrate</b>		
	Sheet Title: /	File Name: <b>ZSWatch-Extension.kicad_sch</b>	Designer: Daniel Kampert	Date: 2025-07-13
	Sheet Path: /	Reviewer:	Size: <b>A3</b>	Revision: + (Unreleased)

## [2] Block Diagram

1	2	3	4	5	6	7	8
A							A
B							B
C							C
D							D
E							E
F							F
1	2	3	4	5	6	7	8

Comments:	Company: <b>ZSWatch</b>		Variant: CHECKED	Git Hash: 6736584	
	Board Name: <b>Heartrate-HW</b>		Project Name: <b>ZSWatch Heartrate</b>		
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13	Revision: + (Unreleased)
	Sheet Path: /Block Diagram/		Reviewer:	Size: <b>A3</b>	Sheet: <b>2 of 8</b>

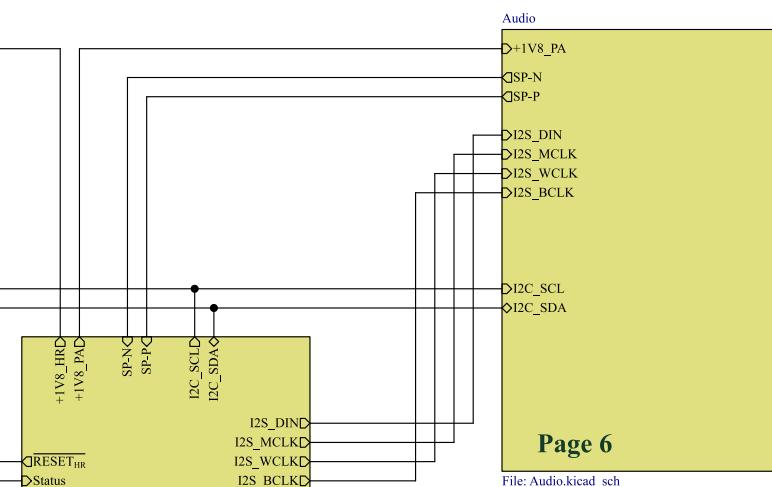
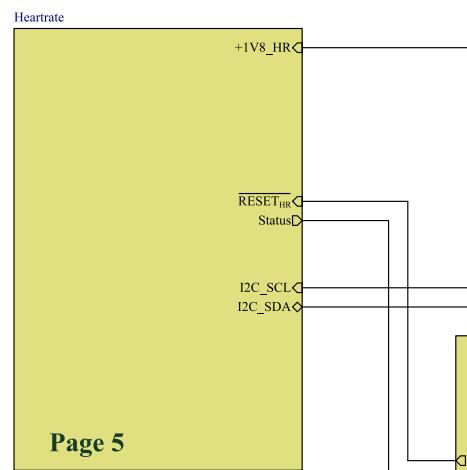
### [3] Power - Topology



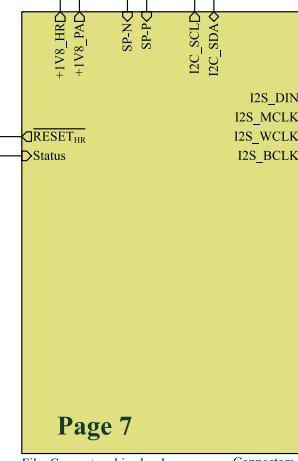
Comments:	Company: ZSWatch	Variant: CHECKED	Git Hash: 6736584
Board Name: <b>Heartrate-HW</b>	Project Name: <b>ZSWatch Heartrate</b>		
Sheet Title: Power - Topology	File Name: Power - Topology.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13 + (Unreleased)
Sheet Path: /Power - Topology/	Reviewer:	Size: <b>A3</b>	Sheet: <b>3 of 8</b>

# [4] Project Architecture

A

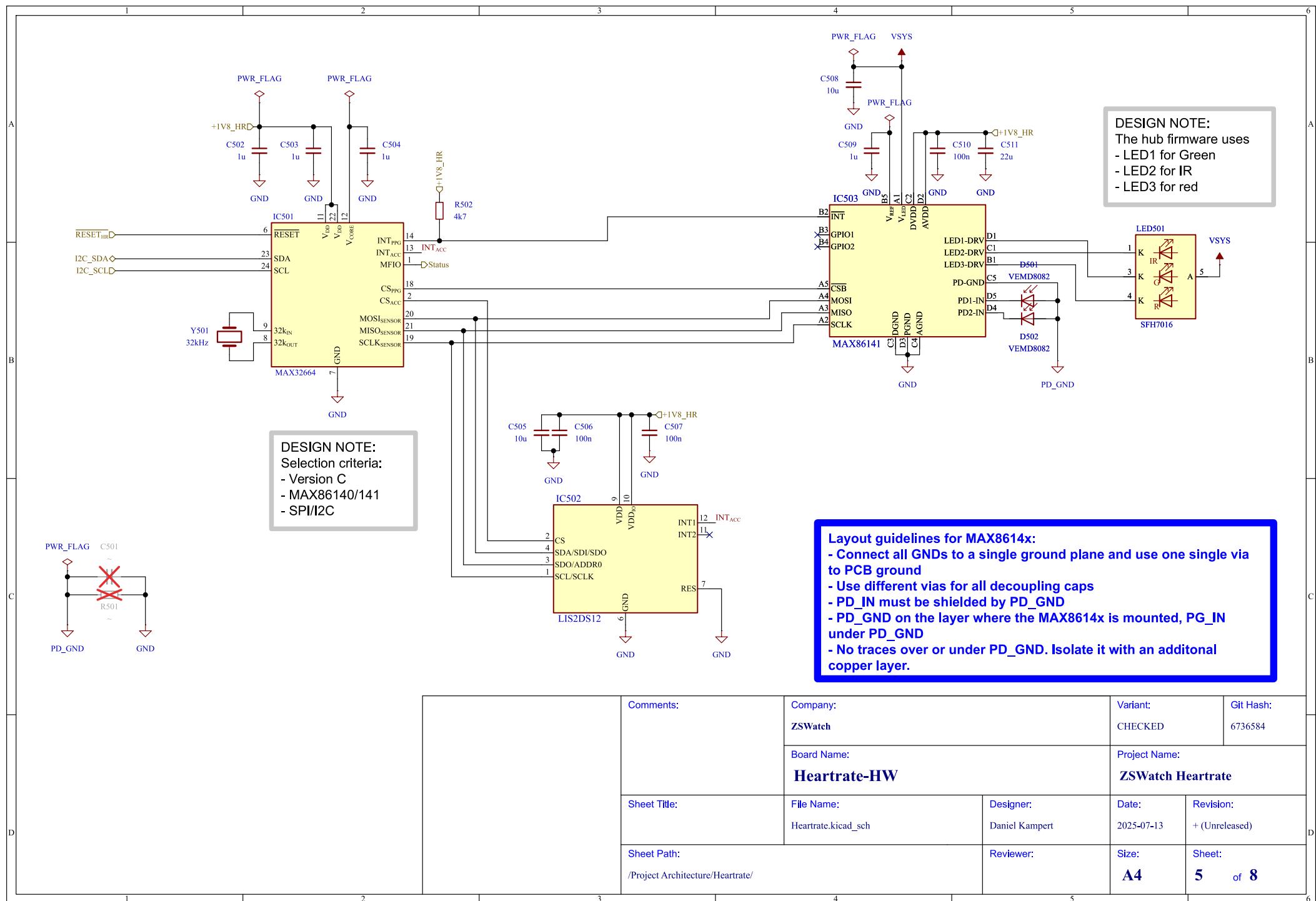


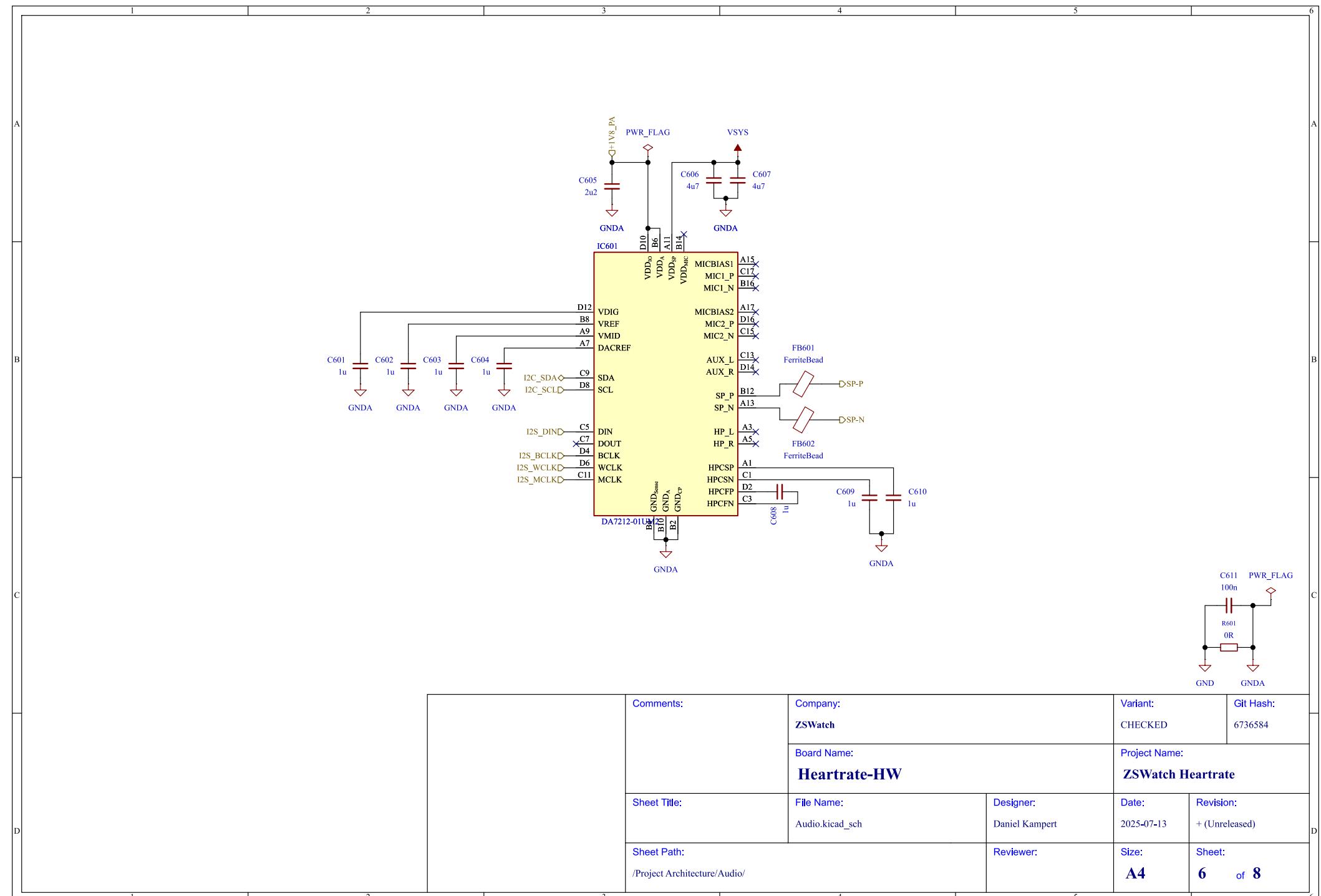
B

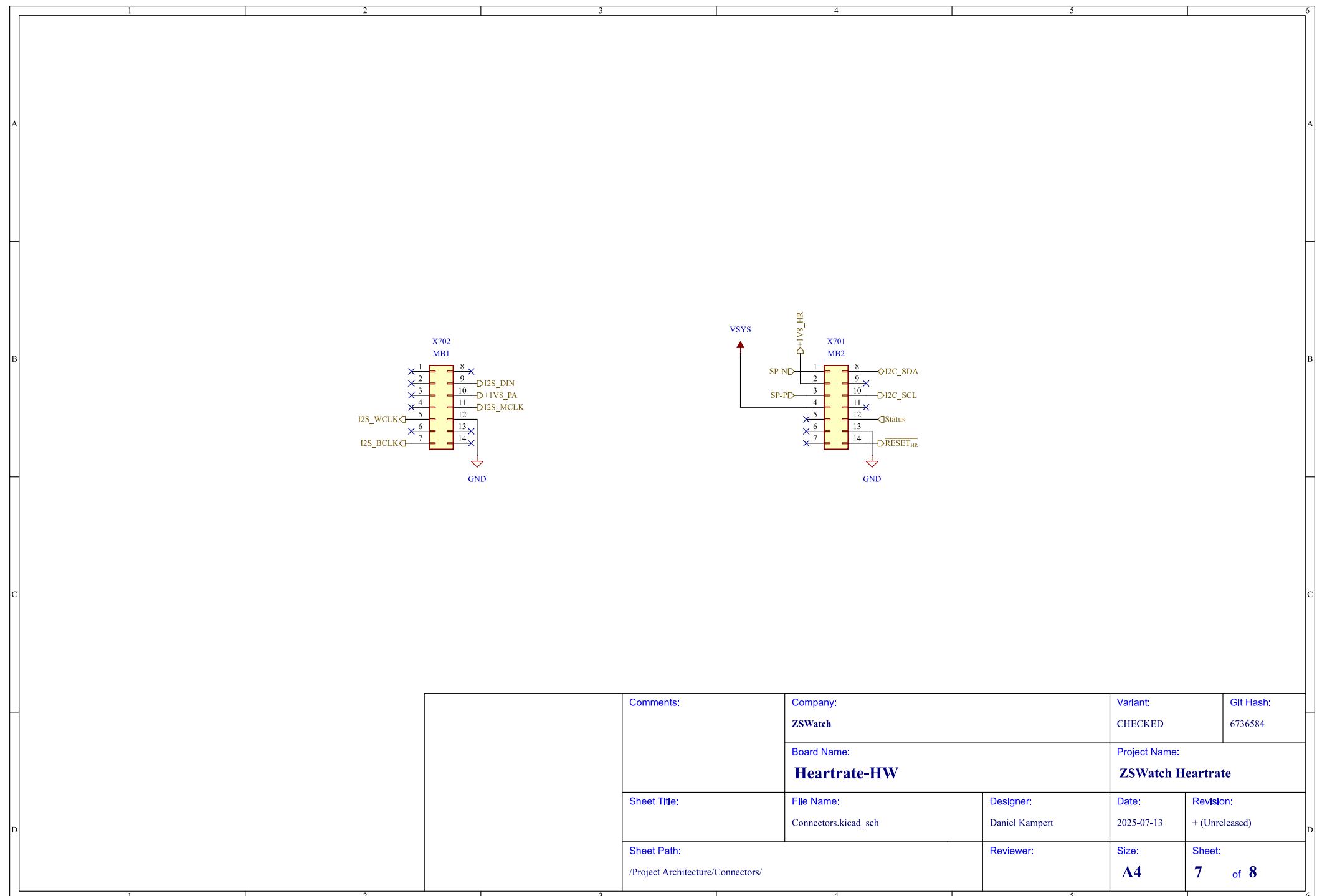


C

	Comments:	Company: <b>ZSWatch</b>	Variant: CHECKED	Git Hash: 6736584
	Board Name: <b>Hearrate-HW</b>	Project Name: <b>ZSWatch Hearrate</b>		
	Sheet Title: Project Architecture	File Name: Project Architecture.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13 Revision: + (Unreleased)
	Sheet Path: /Project Architecture/		Reviewer:	Size: <b>A4</b> Sheet: <b>4 of 8</b>







# [8] Revision History

A	<pre> \${RELEASE_TITLE_1.0.0}  \${RELEASE_BODY_1.0.0}</pre>	<pre> \${RELEASE_TITLE_...}  \${RELEASE_BODY_...}</pre>	<pre> \${RELEASE_TITLE_...}  \${RELEASE_BODY_...}</pre>	<pre> \${RELEASE_TITLE_...}  \${RELEASE_BODY_...}</pre>	A
B					B
C					C
D					D
		<p>Comments:</p> <p>Sheet Title: Revision History</p> <p>Sheet Path: /Revision History/</p>	<p>Company: <b>ZSWatch</b></p> <p>Board Name: <b>Heartrate-HW</b></p> <p>File Name: Revision History.kicad_sch</p> <p>Reviewer:</p>	<p>Variant: CHECKED</p> <p>Project Name: <b>ZSWatch Heartrate</b></p> <p>Designer: Daniel Kampert</p> <p>Date: 2025-07-13</p> <p>Revision: + (Unreleased)</p>	<p>Git Hash: 6736584</p> <p>Size: <b>A4</b></p> <p>Sheet: <b>8</b> of <b>8</b></p>