

Heartrate-DevKit-HW

Variant: RELEASED

2025-09-06

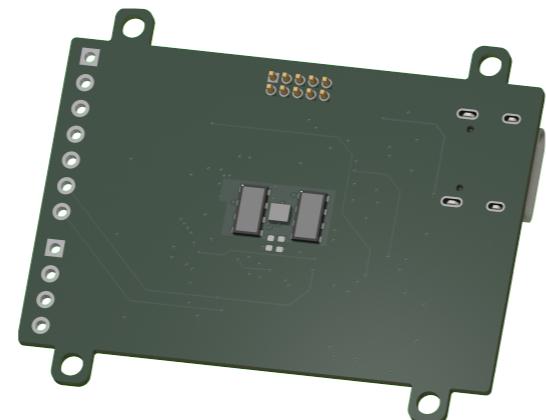
Rev 1.3.0

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TOP VIEW



BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as

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: 06-Sep-2025

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational design notes.

DESIGN NOTE:
Example text for debug notes.

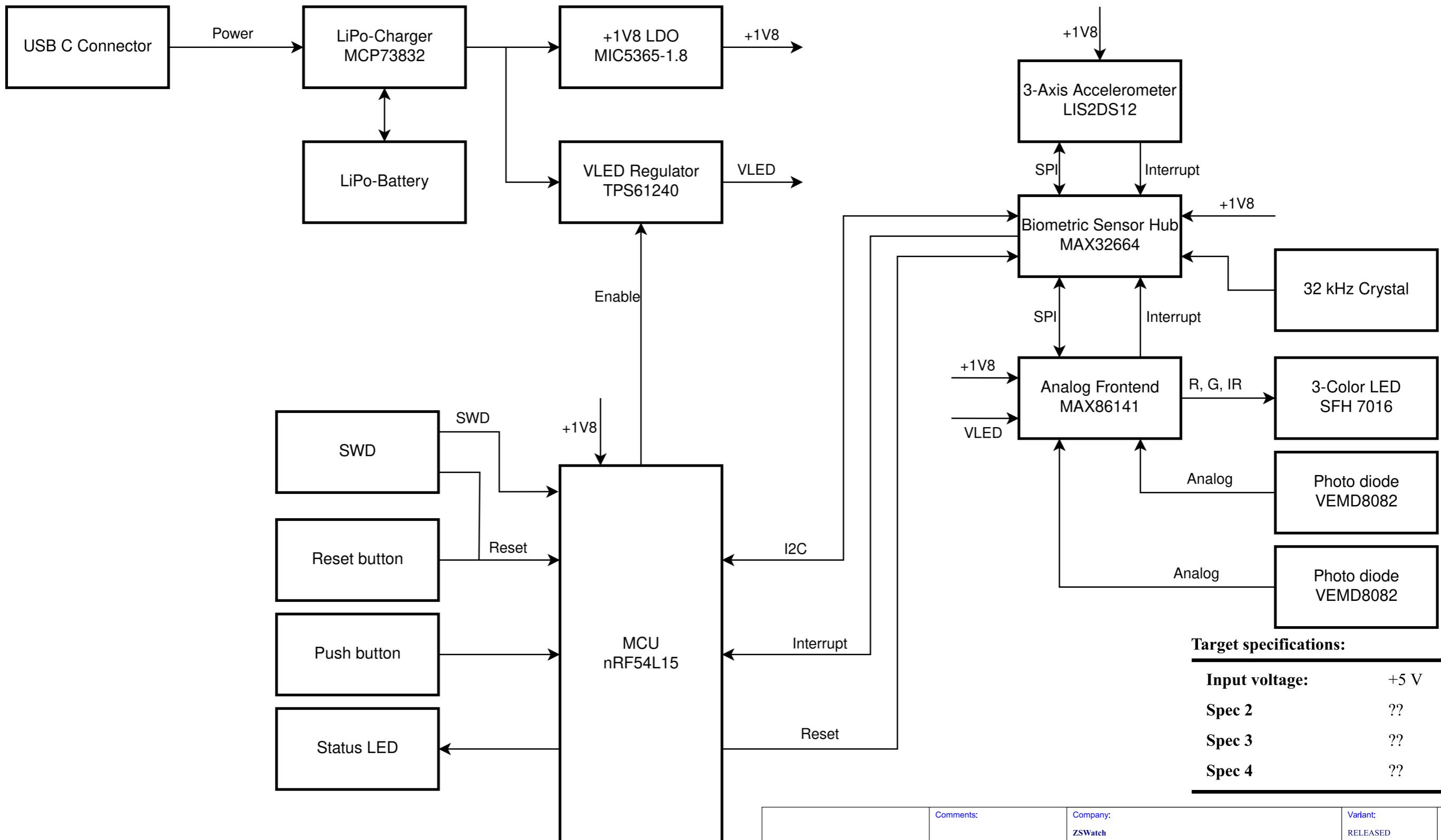
DESIGN NOTE:
Example text for cautionary design notes.

DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments:	Company:		Variant: RELEASED	Git Hash: 10ac9d5
		ZSWatch			
	Board Name:	Heartrate-DevKit-HW		Project Name: ZSWatch Heartrate-DevKit	
		Heartrate-DevKit-HW			
	Sheet Title:	File Name:	Designer:	Date:	Revision:
	Dock-HW	ZSWatch-Heartrate-DevKit.kicad_sch	Daniel Kampert	2025-07-13	1.3.0
	Sheet Path:	/	Reviewer:	Size:	Sheet:
				A3	1 of 5

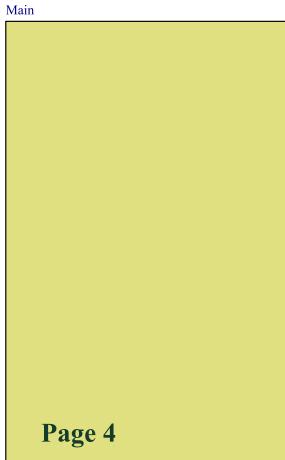
[2] Block-Diagram



Target specifications:

Input voltage:	+5 V
Spec 2	??
Spec 3	??
Spec 4	??

Comments:	Company: ZSWatch	Variant: RELEASED	Git Hash: 10ac9d5
Board Name: Heartrate-DevKit-HW	Project Name: ZSWatch Heartrate-DevKit		
Sheet Title: Block-Diagram	File Name: Block Diagram.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13
Sheet Path: /Block Diagram/	Reviewer:	Size: A3	Sheet: 2 of 5

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A											A																								
B											B																								
C											C																								
D											D																								
 <p>Main</p> <p>Page 4</p> <p>File: Main.kicad_sch</p>	1		2		3		4		5		6																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;">Comments:</td> <td colspan="2">Company: ZSWatch</td> <td style="width: 15%;">Variant: RELEASED</td> <td style="width: 15%;">Git Hash: 10ac9d5</td> </tr> <tr> <td></td> <td colspan="3">Board Name: Heartrate-DevKit-HW</td> <td colspan="2">Project Name: ZSWatch Heartrate-DevKit</td> </tr> <tr> <td></td> <td>Sheet Title: Power-Management</td> <td>File Name: Project Architecture.kicad_sch</td> <td>Designer: Daniel Kampert</td> <td>Date: 2025-07-13</td> <td>Revision: 1.3.0</td> </tr> <tr> <td></td> <td colspan="2">Sheet Path: /Project Architecture/</td> <td>Reviewer:</td> <td>Size: A4</td> <td>Sheet: 3 of 5</td> </tr> </table>		Comments:	Company: ZSWatch		Variant: RELEASED	Git Hash: 10ac9d5		Board Name: Heartrate-DevKit-HW			Project Name: ZSWatch Heartrate-DevKit			Sheet Title: Power-Management	File Name: Project Architecture.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13	Revision: 1.3.0		Sheet Path: /Project Architecture/		Reviewer:	Size: A4	Sheet: 3 of 5	1		2		3		4		5		6
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	Sheet Path: /Project Architecture/		Reviewer:	Size: A4	Sheet: 3 of 5																														

[5] Revision-History

A	Version 1.3.0 - 2025-09-06	<p>Release Title: \${RELEASE_TITLE_...} Release Body: \${RELEASE_BODY_...}</p> <hr/> <p>Fixed</p> <ul style="list-style-type: none"> - Fix wrong status LED - Fix wrong I2C pins <hr/> <p>Added</p> <ul style="list-style-type: none"> - Add MFIO signal to SPI header - New KiBot template - Add second photo diode <hr/> <p>Changed</p> <ul style="list-style-type: none"> - Replace VEMD8080 with VEMD8082 - Replace single LEDs with tripple color LED - Move SWD connector away from battery connector 	<p>Release Title: \${RELEASE_TITLE_...} Release Body: \${RELEASE_BODY_...}</p>	<p>Release Title: \${RELEASE_TITLE_...} Release Body: \${RELEASE_BODY_...}</p>	<p>Release Title: \${RELEASE_TITLE_...} Release Body: \${RELEASE_BODY_...}</p>
B					
C					
D		<p>Comments:</p>	<p>Company: ZSWatch</p>	<p>Variant: RELEASED</p>	<p>Git Hash: 10ac9d5</p>
			<p>Board Name: Heartrate-DevKit-HW</p>	<p>Project Name: ZSWatch Heartrate-DevKit</p>	
		<p>Sheet Title: Revision-History</p>	<p>File Name: Revision History.kicad_sch</p>	<p>Designer: Daniel Kampert</p>	<p>Date: 2025-07-13</p>
		<p>Sheet Path: /Revision History/</p>		<p>Reviewer:</p>	<p>Size: A4</p>
					<p>Sheet: 5 of 5</p>

