

# Heartrate-DevKit-HW

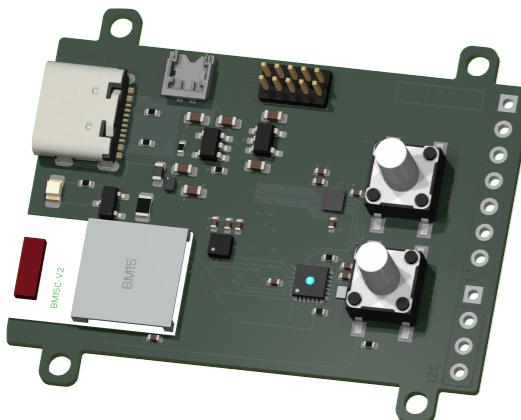
Variant: RELEASED

2025-09-07

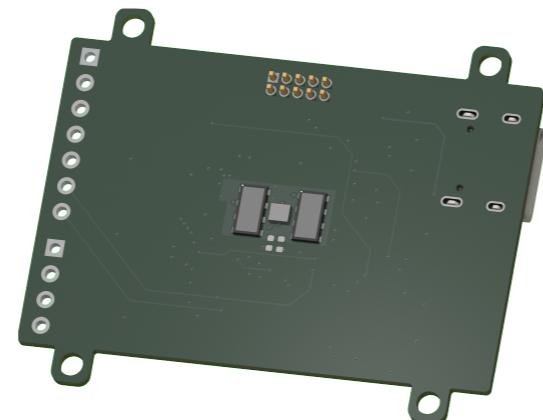
Rev 1.3.0

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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: 07-Sep-2025

## DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational design notes.

DESIGN NOTE:  
Example text for debug notes.

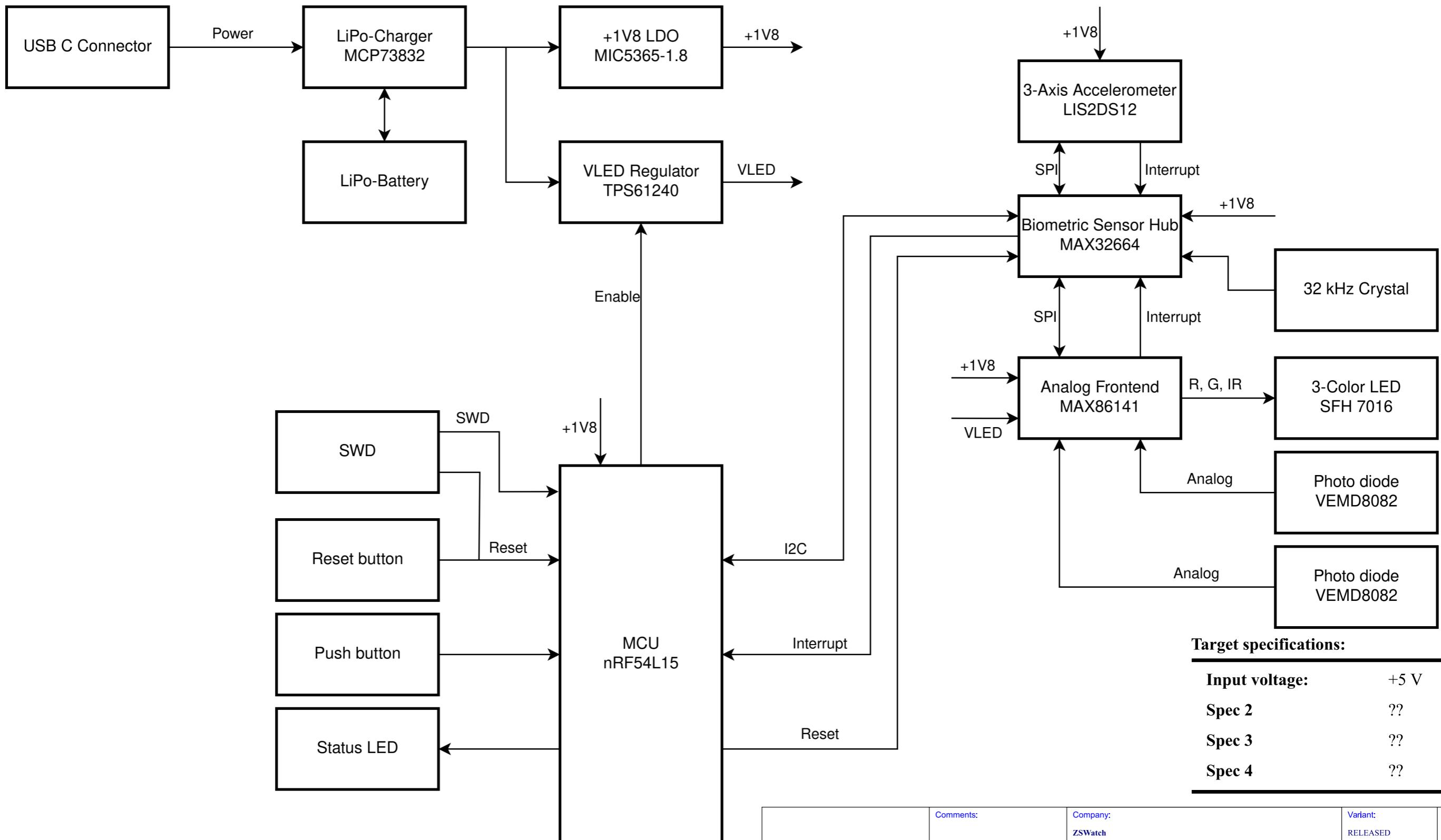
DESIGN NOTE:  
Example text for cautionary design notes.

DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company: ZSWatch	Variant: RELEASED	Git Hash: c7f6e1d
	Board Name: <b>Heartrate-DevKit-HW</b>	Project Name: <b>ZSWatch Heartrate-DevKit</b>		
	Sheet Title: Heartrate-DevKit-HW	File Name: ZSWatch-Heartrate-DevKit.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13
	Sheet Path: /	Reviewer:	Size: <b>A3</b>	Revision: 1.3.0

## [2] Block-Diagram



### Target specifications:

<b>Input voltage:</b>	+5 V
<b>Spec 2</b>	??
<b>Spec 3</b>	??
<b>Spec 4</b>	??

Comments:	Company: ZSWatch	Variant: RELEASED	Git Hash: e7f6c1d
Board Name: <b>Heartrate-DevKit-HW</b>	Project Name: <b>ZSWatch Heartrate-DevKit</b>		
Sheet Title: Block-Diagram	File Name: Block Diagram.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13
Sheet Path: /Block Diagram/	Reviewer:	Size: <b>A3</b>	Sheet: <b>2</b> of <b>5</b>

A	1	2	3	4	5	6	
B	 Main File: Main.kicad_sch					B	
C							C
D		Comments:  ZSWatch	Company:  ZSWatch	Variant:  RELEASED	Git Hash:  e7f6e1d		
D			Board Name:  <b>Heartrate-DevKit-HW</b>	Project Name:  <b>ZSWatch Heartrate-DevKit</b>			
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:  <b>A4</b>	Sheet:  <b>3 of 5</b>		

# [5] Revision-History

A	<b>Version 1.3.0 - 2025-09-07</b>	<p><b>Release Title:</b> \${RELEASE_TITLE_...}  <b>Release Body:</b> \${RELEASE_BODY_...}</p> <hr/> <p><b>Fixed</b></p> <ul style="list-style-type: none"> <li>- Fix wrong status LED (#2)</li> <li>- Fix wrong I2C pins (#5)</li> </ul> <hr/> <p><b>Added</b></p> <ul style="list-style-type: none"> <li>- Add MFIO signal to SPI header (#16)</li> <li>- New KiBot template</li> <li>- Add second photo diode (#4)</li> </ul> <hr/> <p><b>Changed</b></p> <ul style="list-style-type: none"> <li>- Replace VEMD8080 with VEMD8082 (#8)</li> <li>- Replace single LEDs with tripple color LED (#7)</li> <li>- Move SWD connector away from battery connector (#14)</li> </ul>	<p><b>Release Title:</b> \${RELEASE_TITLE_...}  <b>Release Body:</b> \${RELEASE_BODY_...}</p>	<p><b>Release Title:</b> \${RELEASE_TITLE_...}  <b>Release Body:</b> \${RELEASE_BODY_...}</p>	<p><b>Release Title:</b> \${RELEASE_TITLE_...}  <b>Release Body:</b> \${RELEASE_BODY_...}</p>
B					
C					
D		<p><b>Comments:</b></p>	<p><b>Company:</b>  <b>ZSWatch</b></p>	<p><b>Variant:</b>  <b>RELEASED</b></p>	<p><b>Git Hash:</b>  <b>e7f6e1d</b></p>
			<p><b>Board Name:</b>  <b>Heartrate-DevKit-HW</b></p>	<p><b>Project Name:</b>  <b>ZSWatch Heartrate-DevKit</b></p>	
		<p><b>Sheet Title:</b>  <b>Revision-History</b></p>	<p><b>File Name:</b>  <b>Revision History.kicad_sch</b></p>	<p><b>Date:</b>  <b>2025-07-13</b></p>	<p><b>Revision:</b>  <b>1.3.0</b></p>
		<p><b>Sheet Path:</b>  <b>/Revision History/</b></p>	<p><b>Reviewer:</b></p>	<p><b>Size:</b>  <b>A4</b></p>	<p><b>Sheet:</b>  <b>5 of 5</b></p>

