

Watch-DevKit-HW

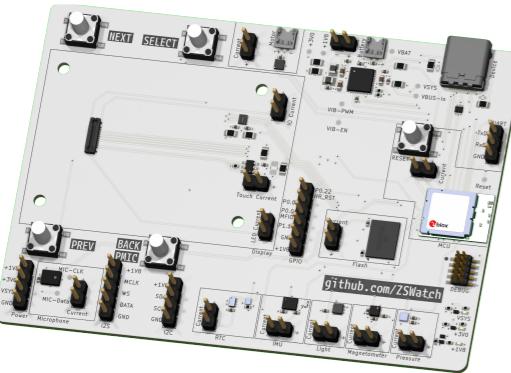
Variant: RELEASED

2025-09-07

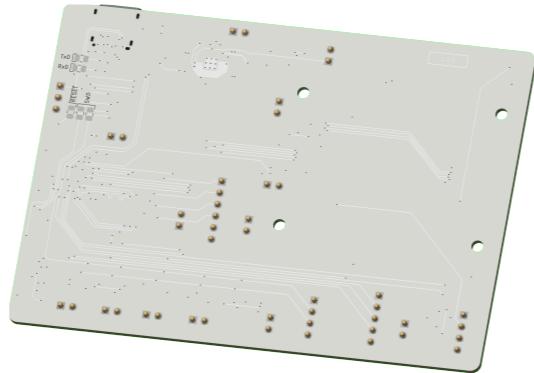
Rev 1.2.0

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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.

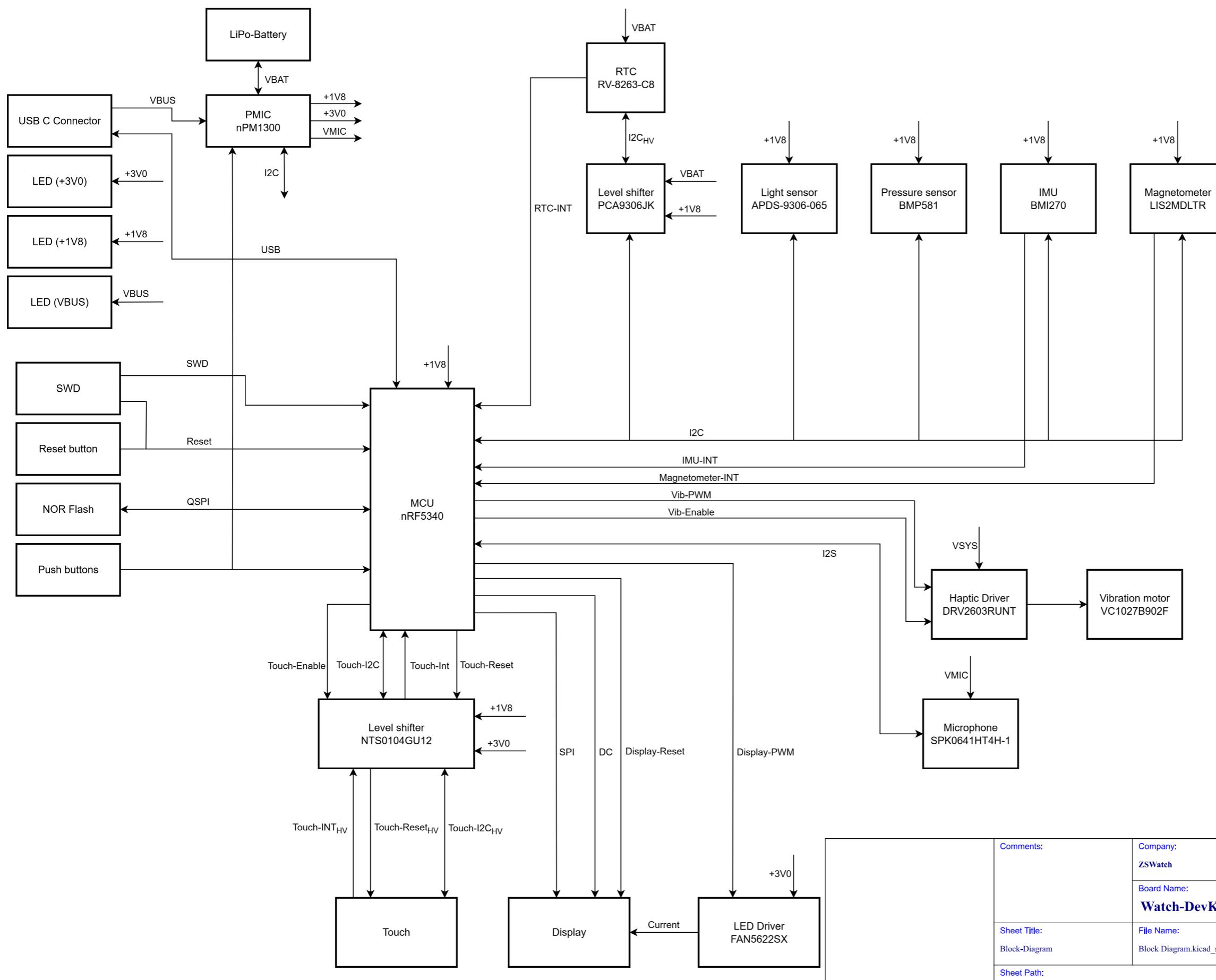
DESIGN NOTE:
Example text for cautionary design notes.

DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments:	Company: ZSWatch	Variant: RELEASED	Git Hash: c205610
	Board Name: Watch-DevKit-HW	Project Name: ZSWatch Watch-DevKit		
	Sheet Title: ZSWatch-Watch-DevKit	File Name: ZSWatch-Watch-DevKit.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13 Revision: 1.2.0
	Sheet Path: /		Reviewer:	Size: A3 Sheet: 1 of 7

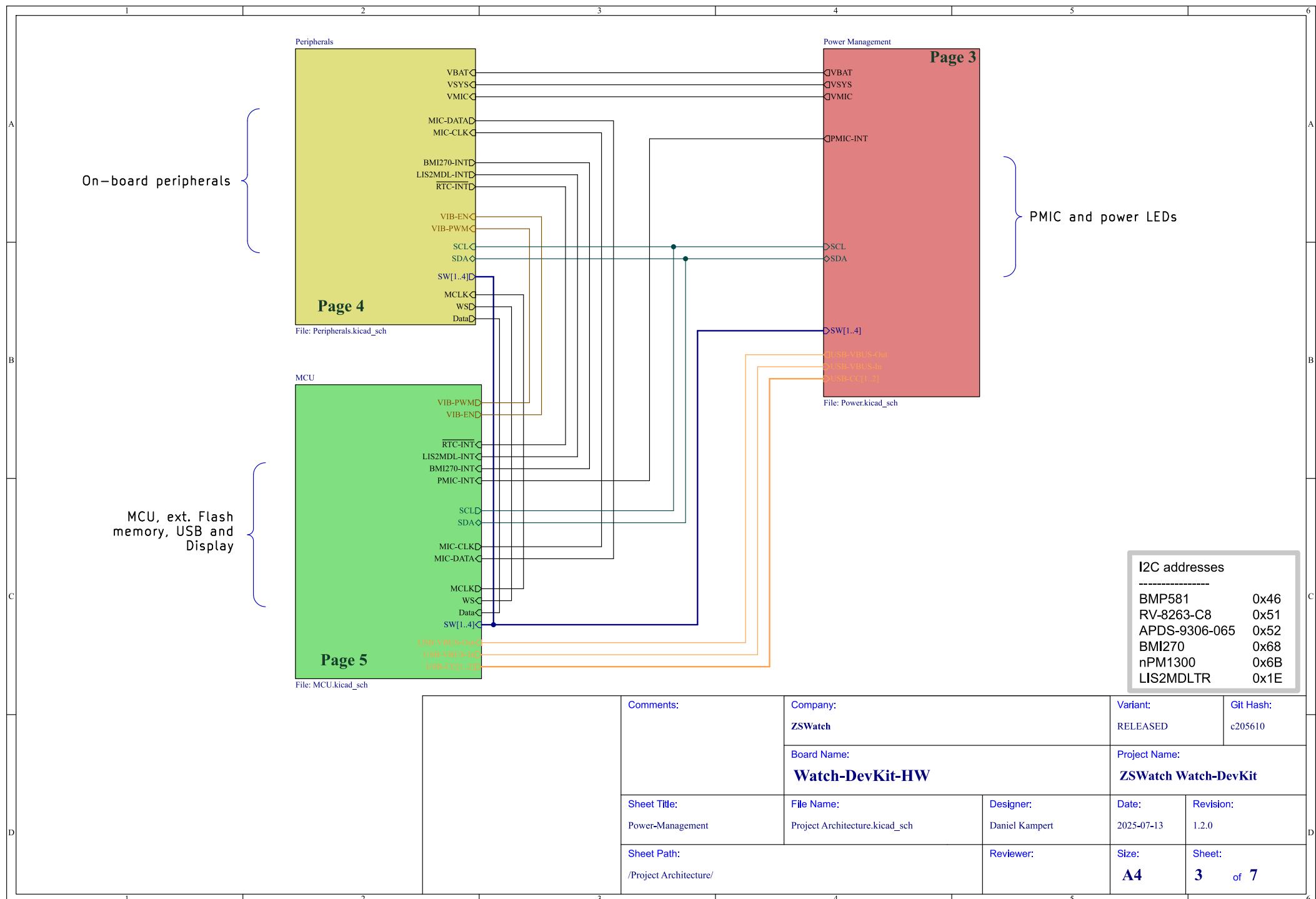
[2] Block-Diagram



Target specifications:

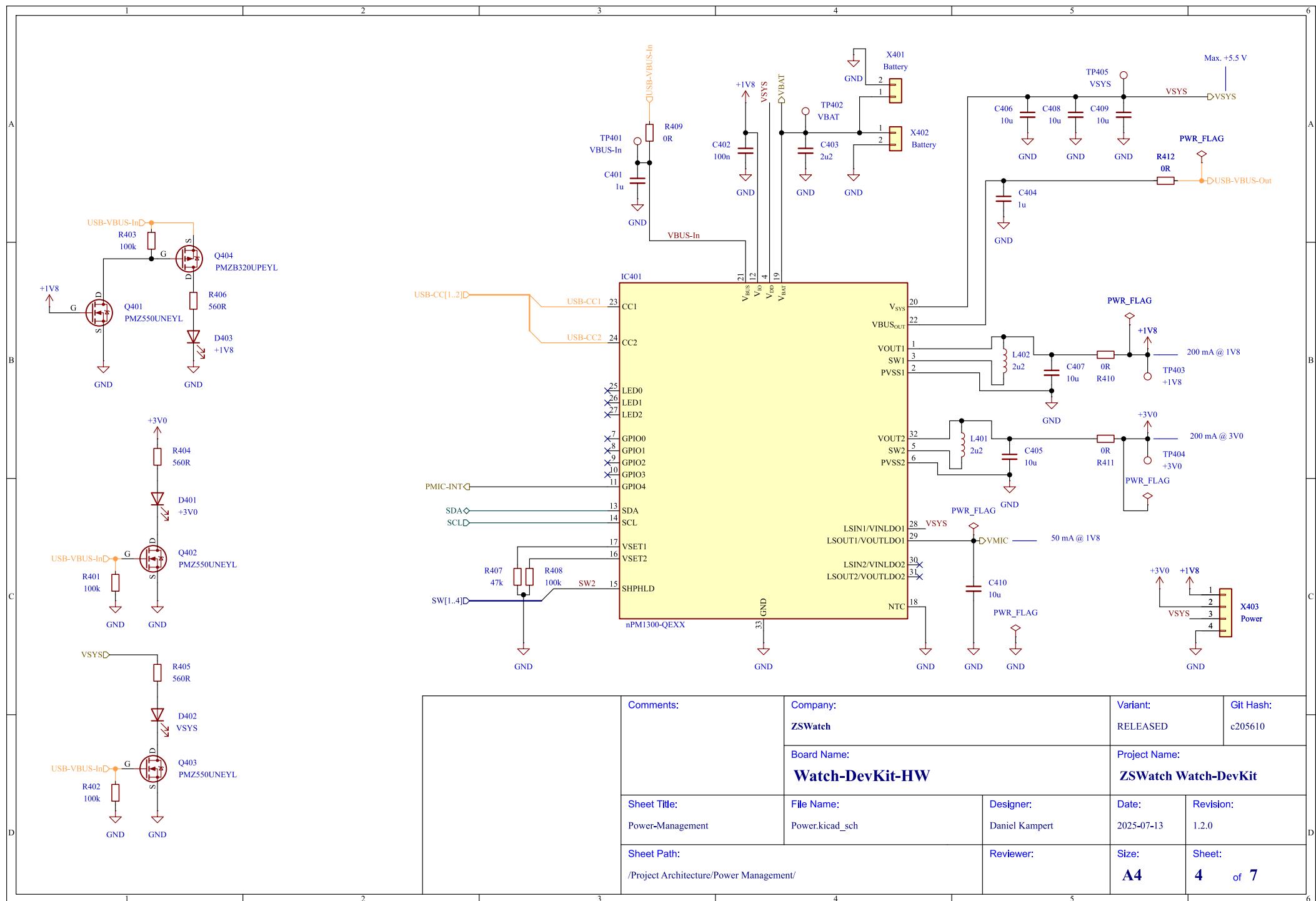
Input voltage:	$5 \text{ V} \pm 5\%$
Battery voltage	3.2 V to 4.2 V
Spec 3	??
Spec 4	??

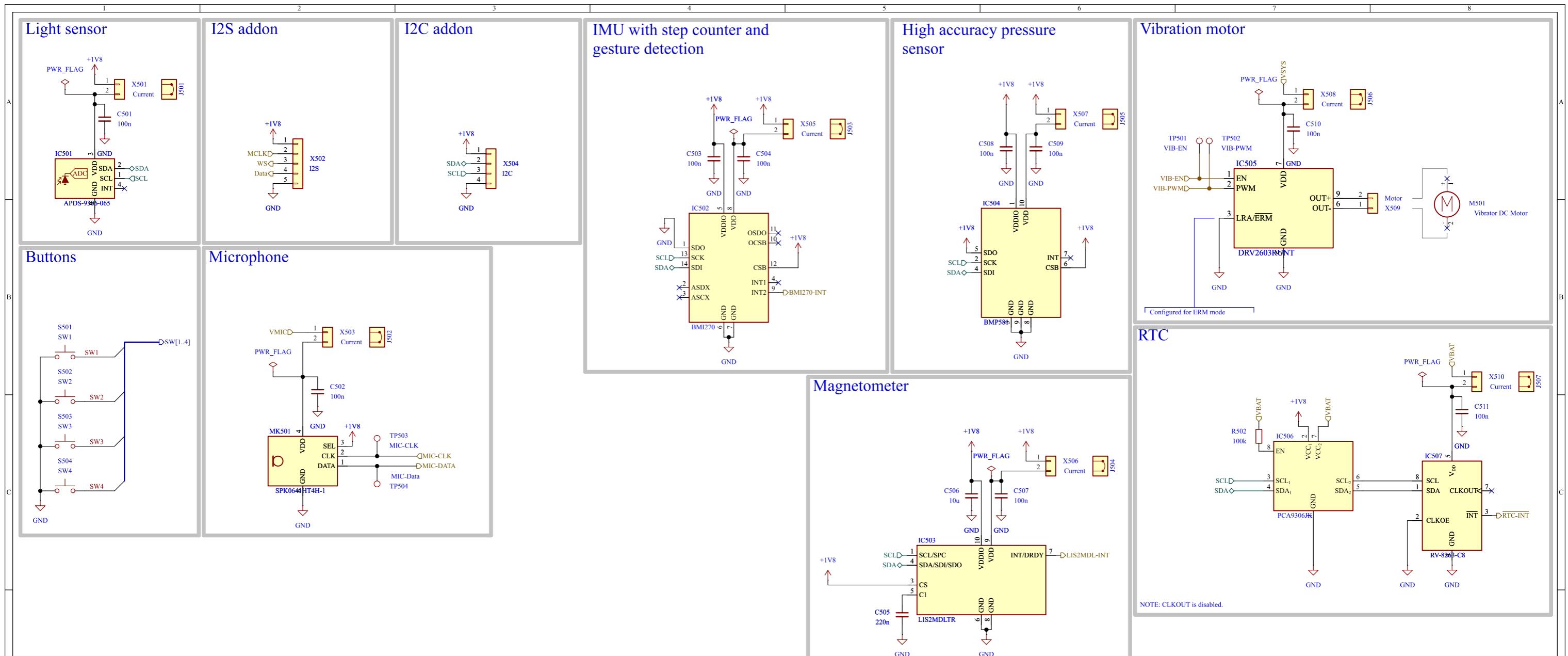
Comments:	Company: ZSWatch	Variant: RELEASED	Git Hash: c205610
Board Name: Watch-DevKit-HW	Project Name: ZSWatch Watch-DevKit		
Sheet Title: Block-Diagram	File Name: Block Diagram.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13
Sheet Path: /Block Diagram/	Reviewer:	Size: A3	Sheet: 2 of 7



[7] Revision-History

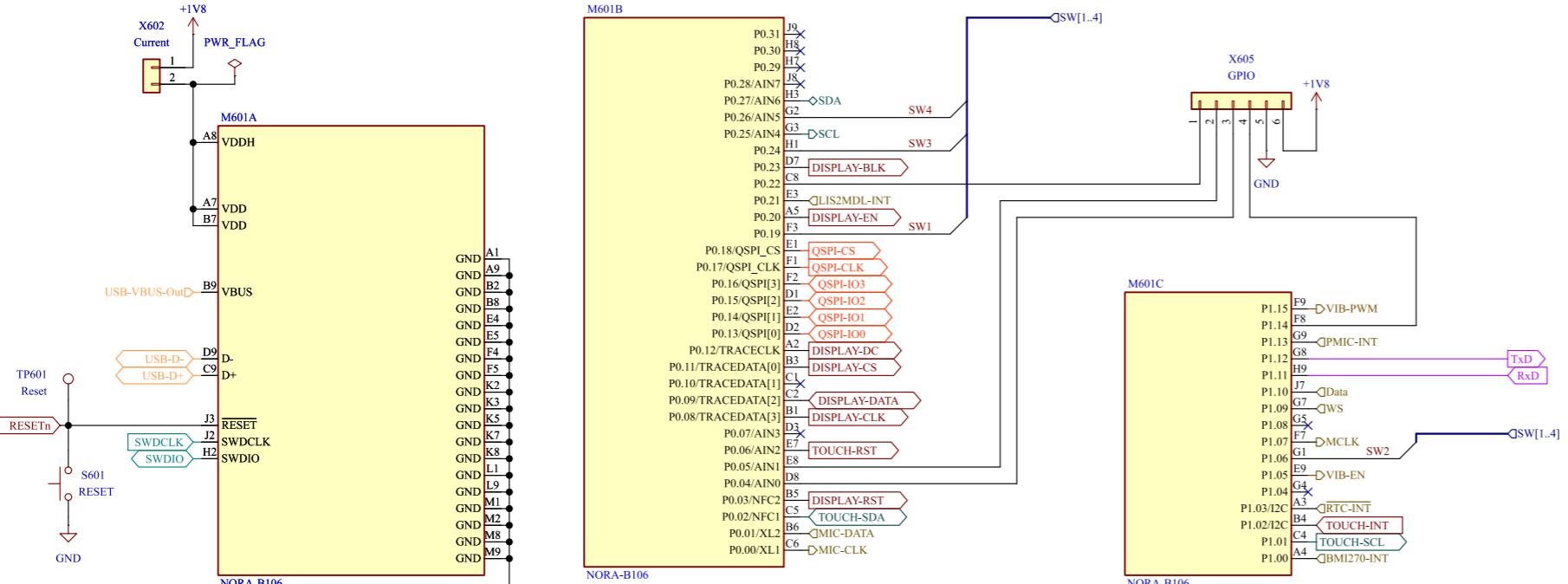
A	Version 1.2.0 - 2025-09-07	<p>Release Title: \${RELEASE_TITLE}... Release Body: \${RELEASE_BODY}...</p>	<p>Release Title: \${RELEASE_TITLE}... Release Body: \${RELEASE_BODY}...</p>	<p>Release Title: \${RELEASE_TITLE}... Release Body: \${RELEASE_BODY}...</p>
B	<p>Fixed</p> <ul style="list-style-type: none"> - Fix wrong orientation for SWD header (#117) <hr/> <p>Added</p> <ul style="list-style-type: none"> - Add pull-up resistor for display enable signal. Can be disabled via GPIO. (#123) - Add new KiBot template (#116) - Add orientation marker for IMU (#124) - Add power LEDs (#128) - Add reset button (#131) - Add testpoints for microphone I2S (#145) <hr/> <p>Changed</p> <ul style="list-style-type: none"> - Shrink down the PCB to save costs (#115) - Replace pin headers with THT to make them more robust (#121) - Rename "Power" jumpers to "Current" (#129) - Replace level shifter for RTC with PCA9306GF (#133) - Switch back to old LED driver (#134) - Power microphone from PMIC (#145) <hr/> <p>Removed</p> <ul style="list-style-type: none"> - Remove APDS-9306 interrupt (#122) 			
C				
D		<p>Comments:</p>	<p>Company: ZSWatch</p> <p>Board Name: Watch-DevKit-HW</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>Revision: 1.2.0</p> <p>Sheet Path: /Revision History/</p>	<p>Variant: RELEASED</p> <p>Git Hash: e205610</p> <p>Project Name: ZSWatch Watch-DevKit</p> <p>Reviewer:</p> <p>Size: A4</p> <p>Sheet: 7 of 7</p>



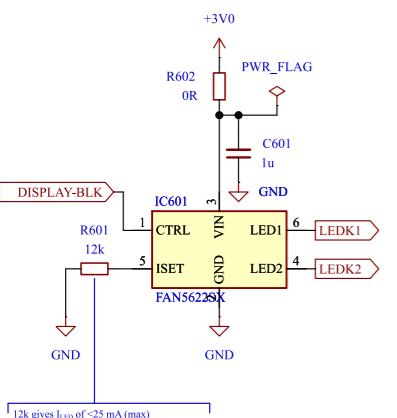


	Comments: ZSWatch	Company: ZSWatch	Variant: RELEASED	Git Hash: c205610
	Board Name: Watch-DevKit-HW	Project Name: ZSWatch Watch-DevKit		
	Sheet Title: Peripherals	File Name: Peripherals.kicad_sch	Designer: Daniel Kampert	Date: 2025-07-13
	Sheet Path: /Project Architecture/Peripherals/		Reviewer:	Revision: 1.2.0
			Size: A3	Sheet: 5 of 7

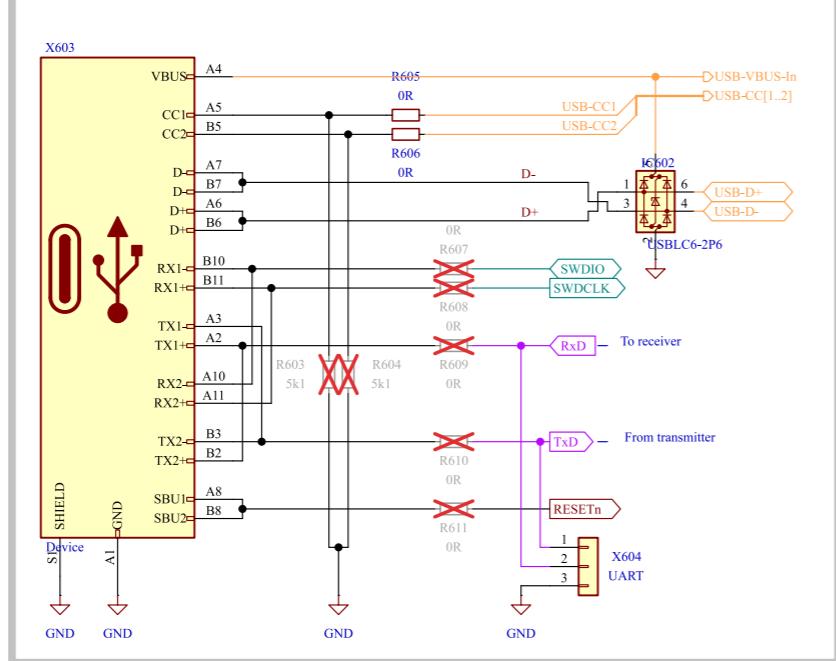
Microcontroller (NORA-B106/nRF5340)



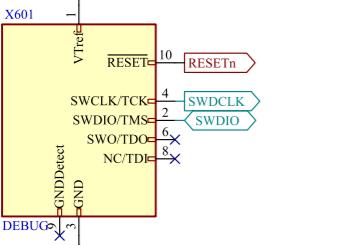
Display backlight



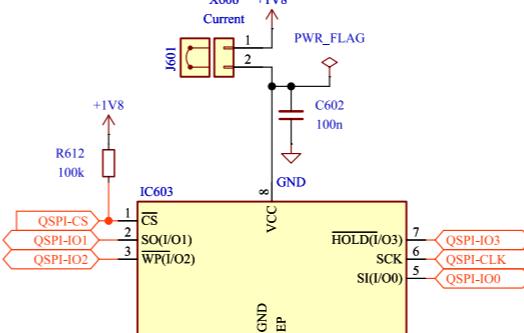
USB



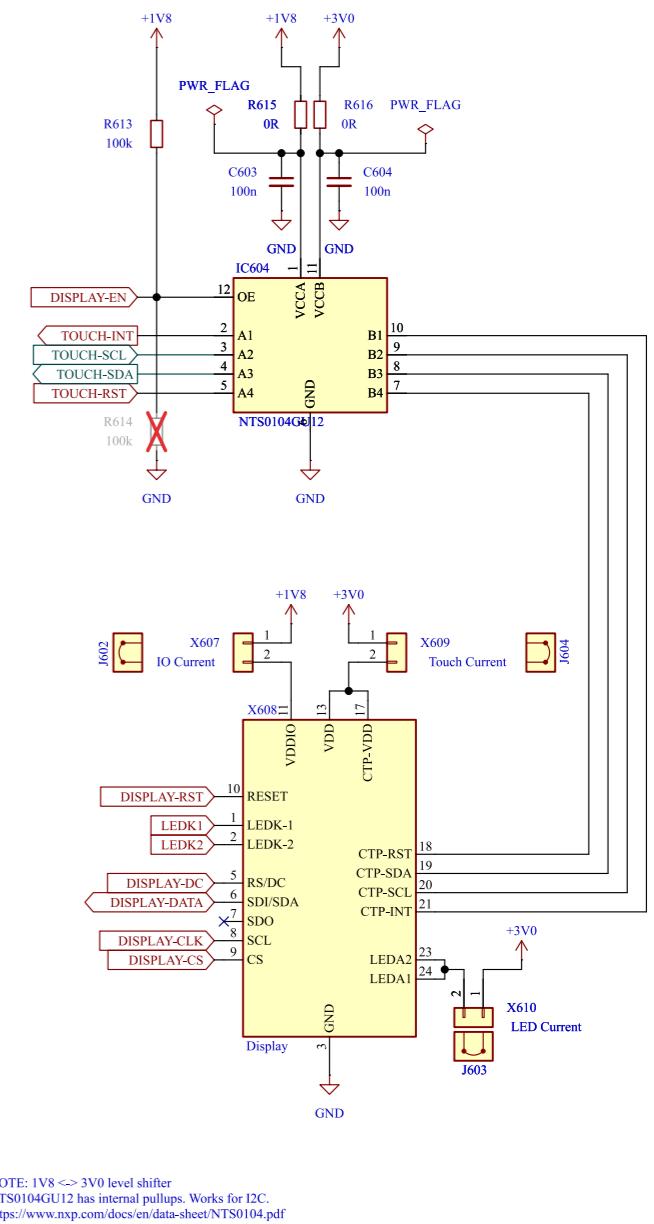
Debug connector



External Flash



Display



Comments:	Company:	Variant:	Git Hash:
ZSWatch		RELEASED	c205610
Board Name:	Project Name:		
Watch-DevKit-HW	ZSWatch Watch-DevKit		
Sheet Title:	File Name:	Designer:	Date:
MCU	MCU.kicad_sch	Daniel Kampert	2025-07-13
Sheet Path:	Reviewer:		
/Project Architecture/MCU/			
Size:	Sheet:		
A3	6	of	7