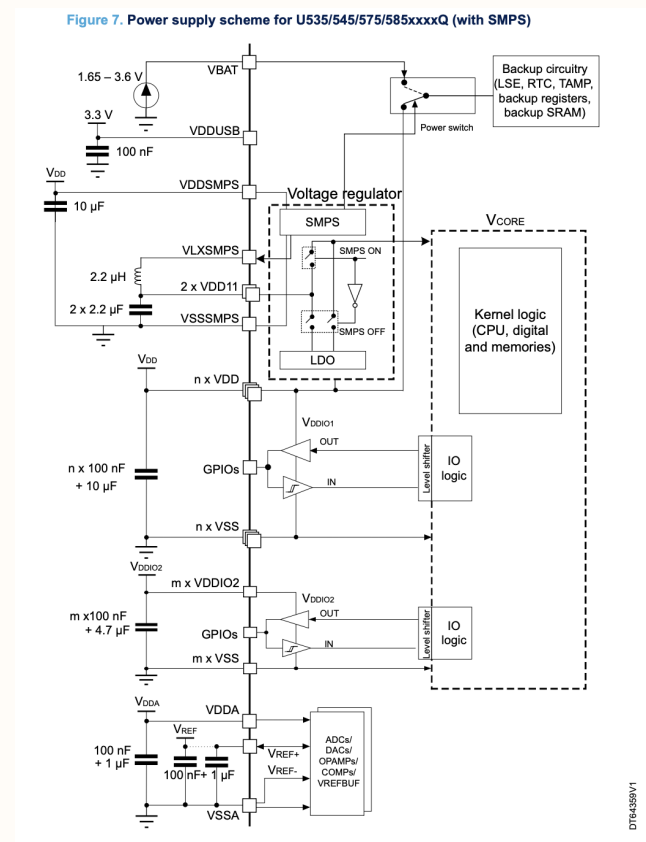
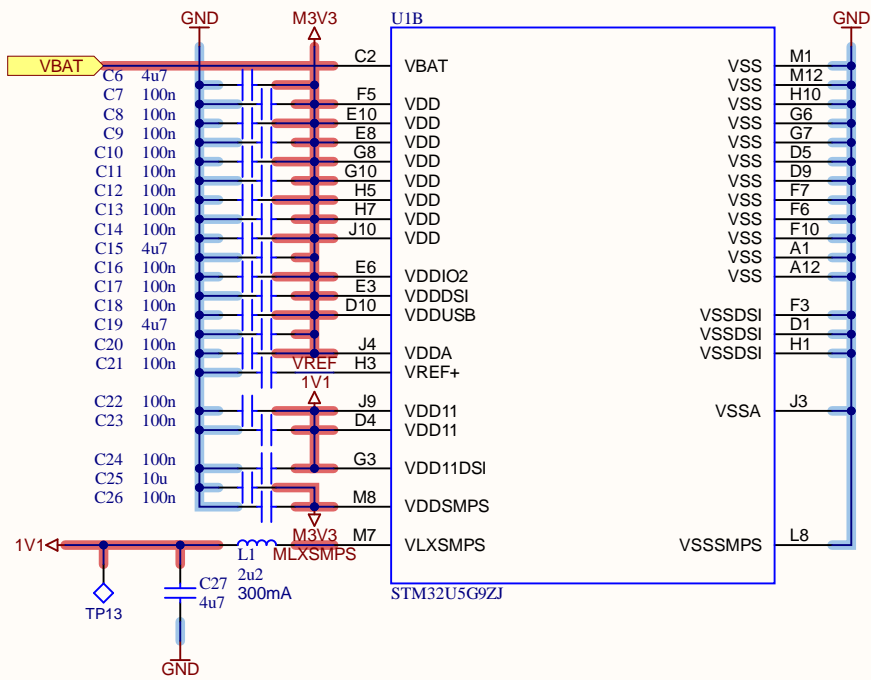
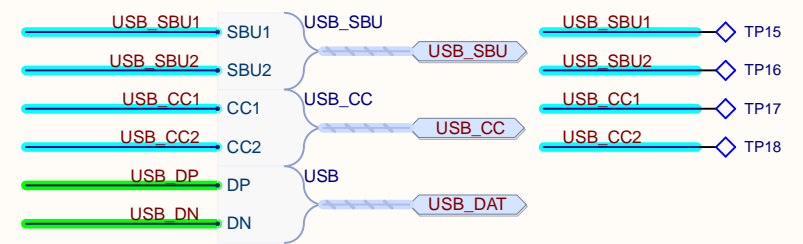
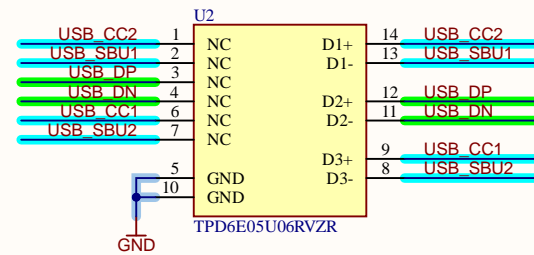
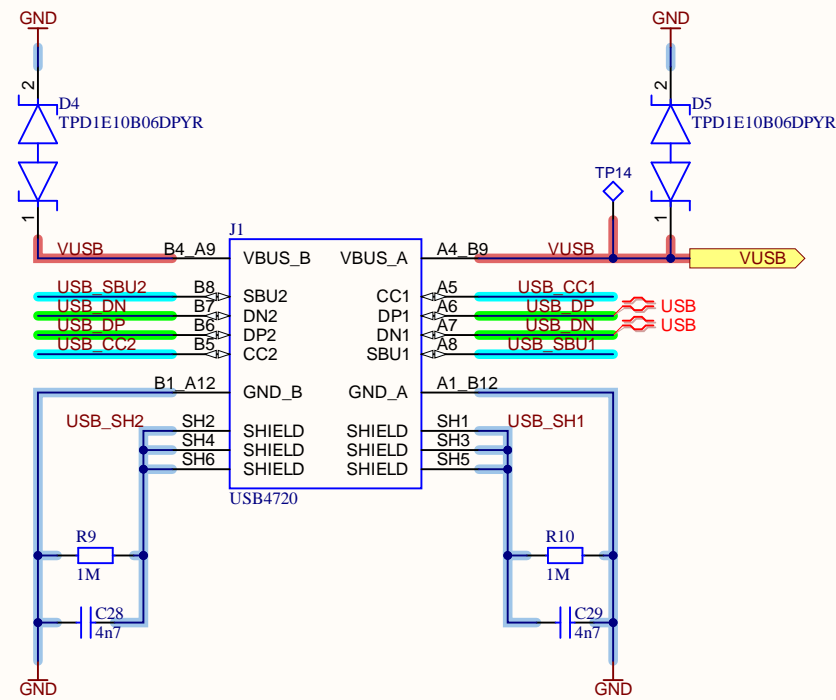



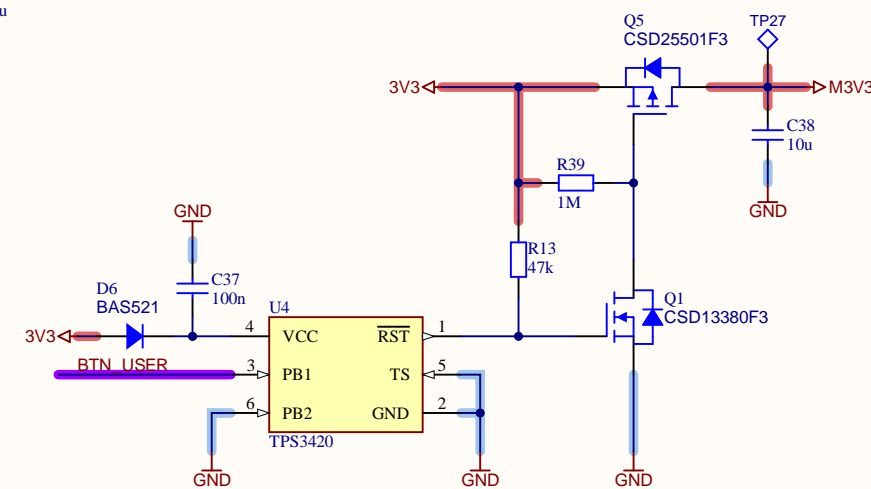
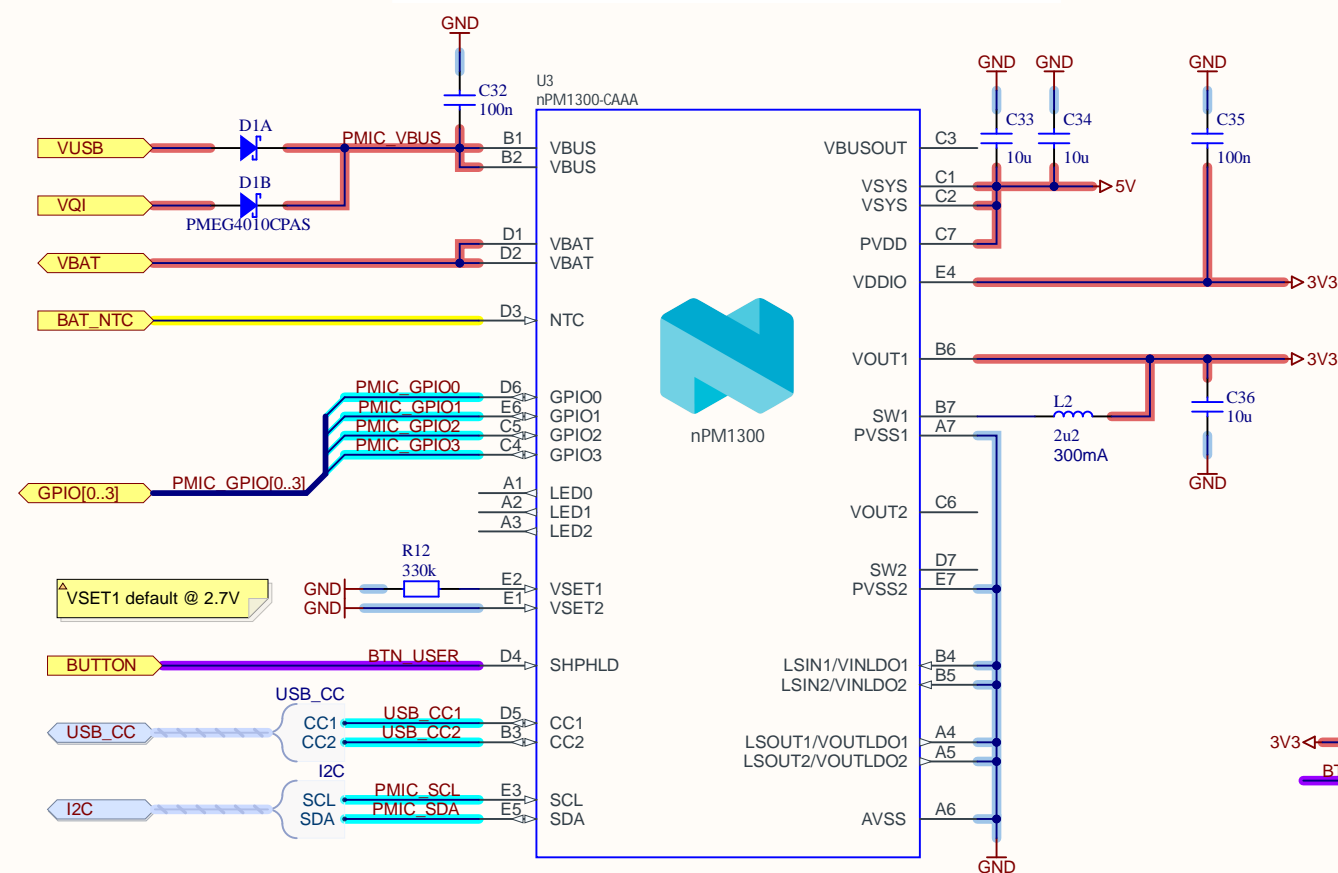
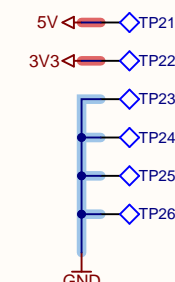
Title Trezor Safe 7		
Variant Standard	Revision D	
Document TS7_Top.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s. Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic	
Size A3	Sheet no. 1 / 16	



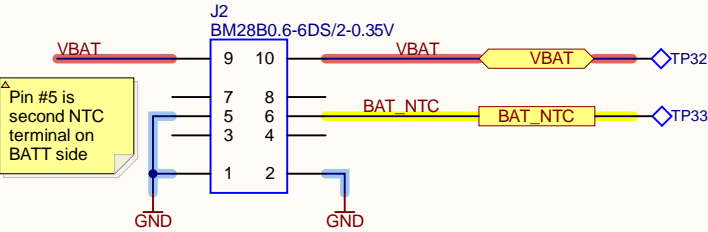
	Title Microcontroller power	
	Variant Standard	Revision B
	Document TS7_MCU_Power.SchDoc	Date 10/23/2025
	Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s. Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic
	Size A3	Sheet no. 3 / 16




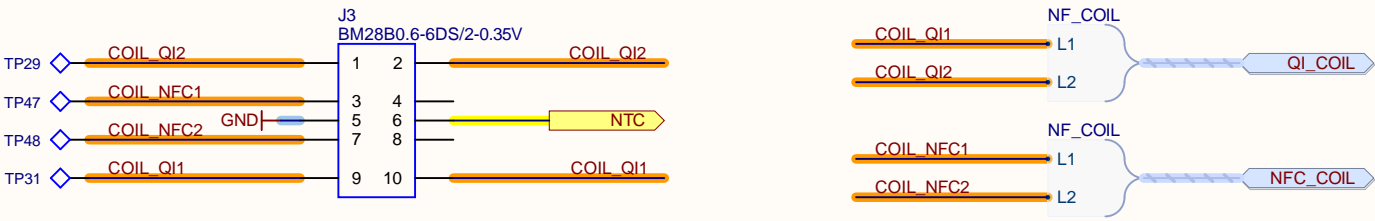
	Title USB connector & protections	
	Variant Standard	Revision B
	Document TS7_USB.SchDoc	Date 10/23/2025
	Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s.
	Size A3	Sheet no. 4 / 16 Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic



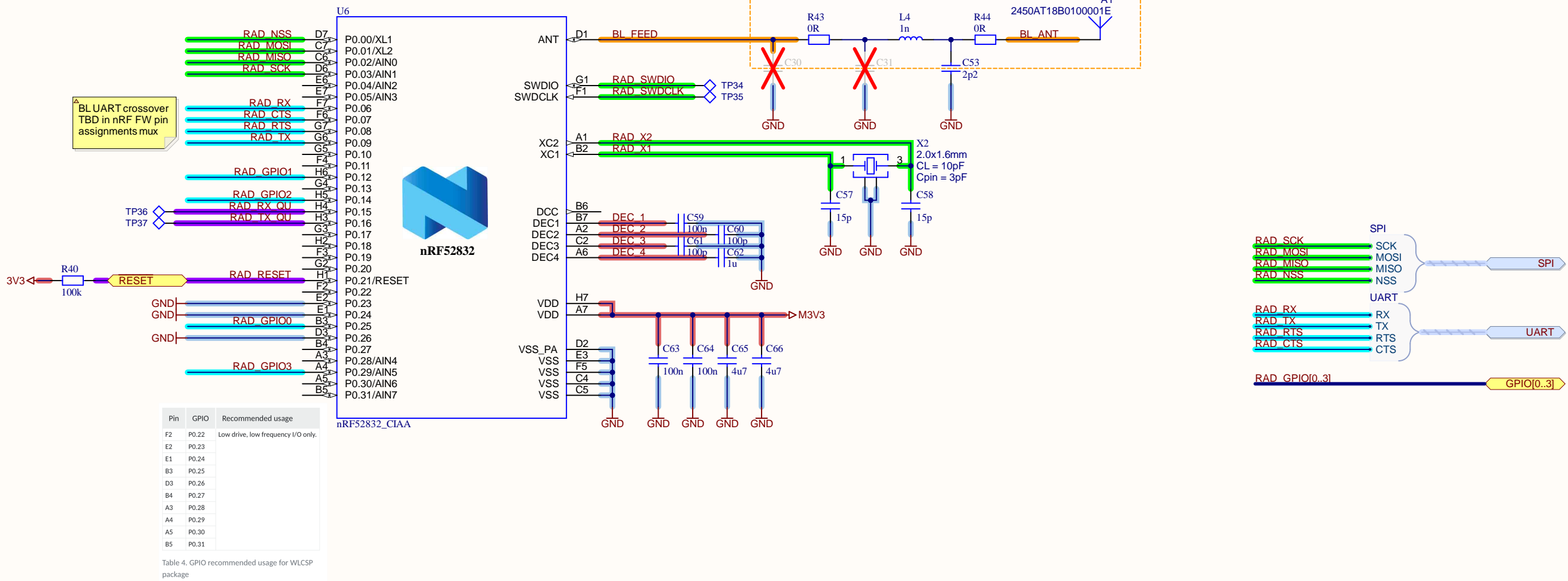
Variant Standard		Revision C
Document TS7_Power.SchDoc		Date 10/23/2025
Author Stanislav Tomášek		Trezor Company s.r.o. <i>part of SatoshiLabs Group a.s.</i>
Size A3	Sheet no. 5 / 16	Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic



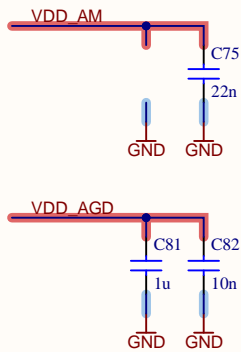
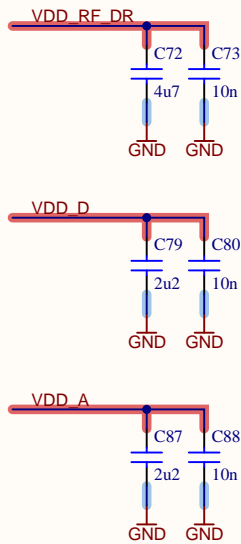
	Title Battery interface	
	Variant Standard	Revision B
	Document TS7_Power_Batt.SchDoc	Date 10/23/2025
	Author Stanislav Tomášek	Trezor Company s.r.o. <small>part of SatoshiLabs Group a.s.</small>
	Size A3	Sheet no. 7 / 16 <small>Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic</small>



Title			Near-field (NFC/Qi) coils interface		
Variant			Revision		
Standard			B		
Document			Date		
TS7_Conn_NF.SchDoc			10/23/2025		
Author			Trezor Company s.r.o.		
Stanislav Tomášek			part of SatoshiLabs Group a.s.		
Size		Sheet no.	Kundratka 2359/17A		
A3		8 / 16	18000 Praha 8 - Libeň		
			Czech Republic		



Title BLE/NFC radio		
Variant Standard	Revision D	
Document TS7_Radio_BLE.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s.	
Size A3	Sheet no. 9 / 16	Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic



When AWS feature is needed, 2.2 μ F capacitor is not used and only capacitor 22 nF is connected to the VDD_AM pin. More details in the DS, chapters 4.2.10 (part VDD_AM regulator), 4.2.12.

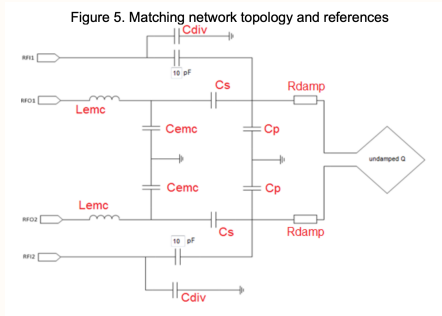
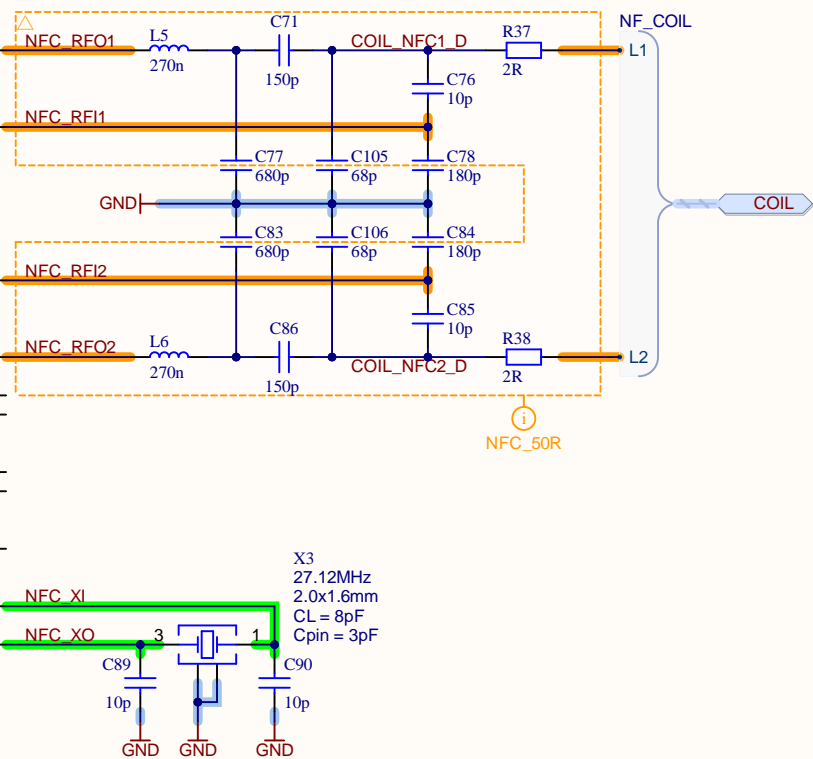
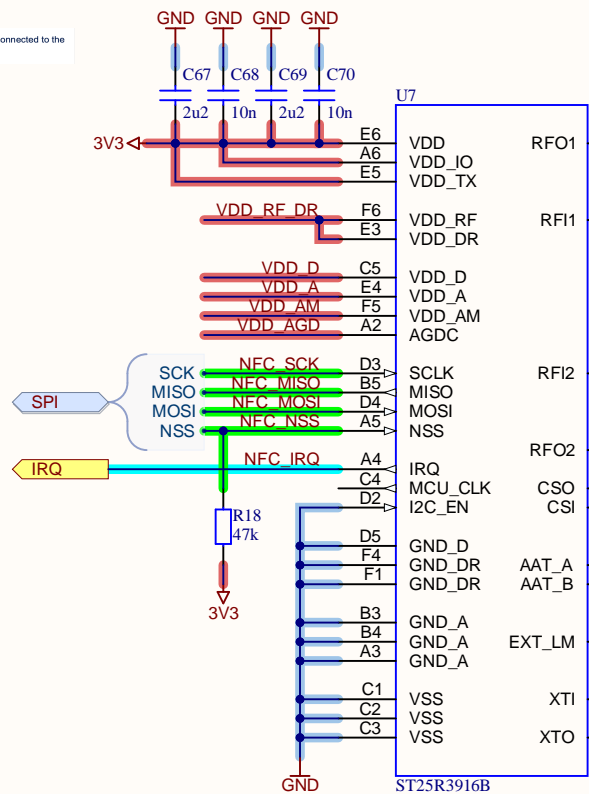


Table 2. Estimation of matching network components

Lemc	270 nH
Ccmc	680 pF
Cs	150 pF
Cp	70 pF
Rdamp	2 Ω
Cdiv	180 pF



Title NFC Reader		
Variant Standard	Revision B	
Document TS7_Radio_NFC.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s.	
Size A3	Sheet no. 10 / 16	Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic

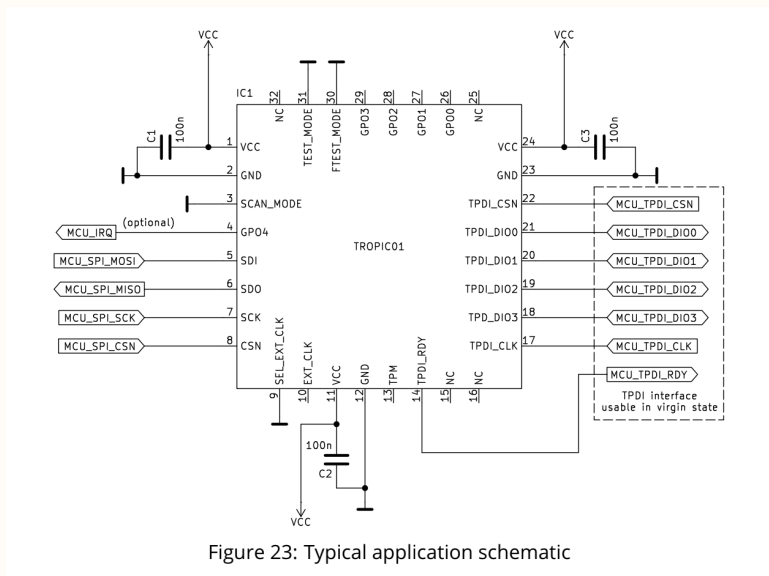
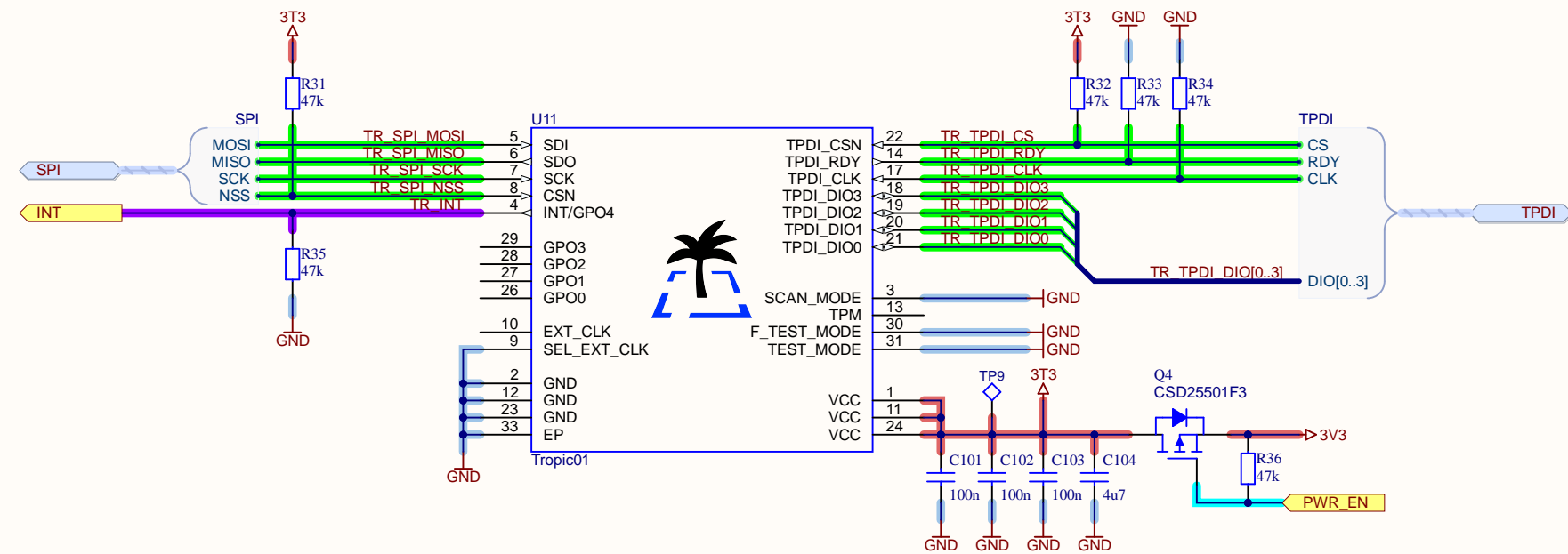

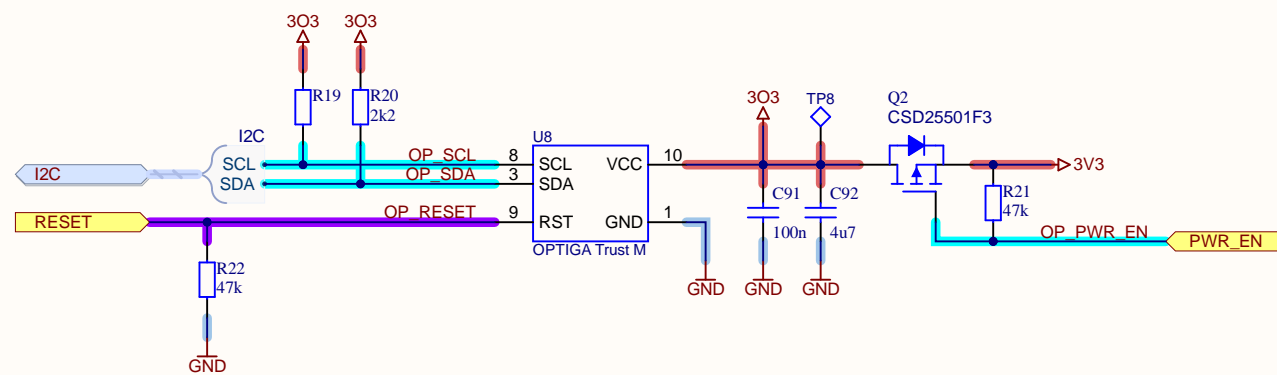


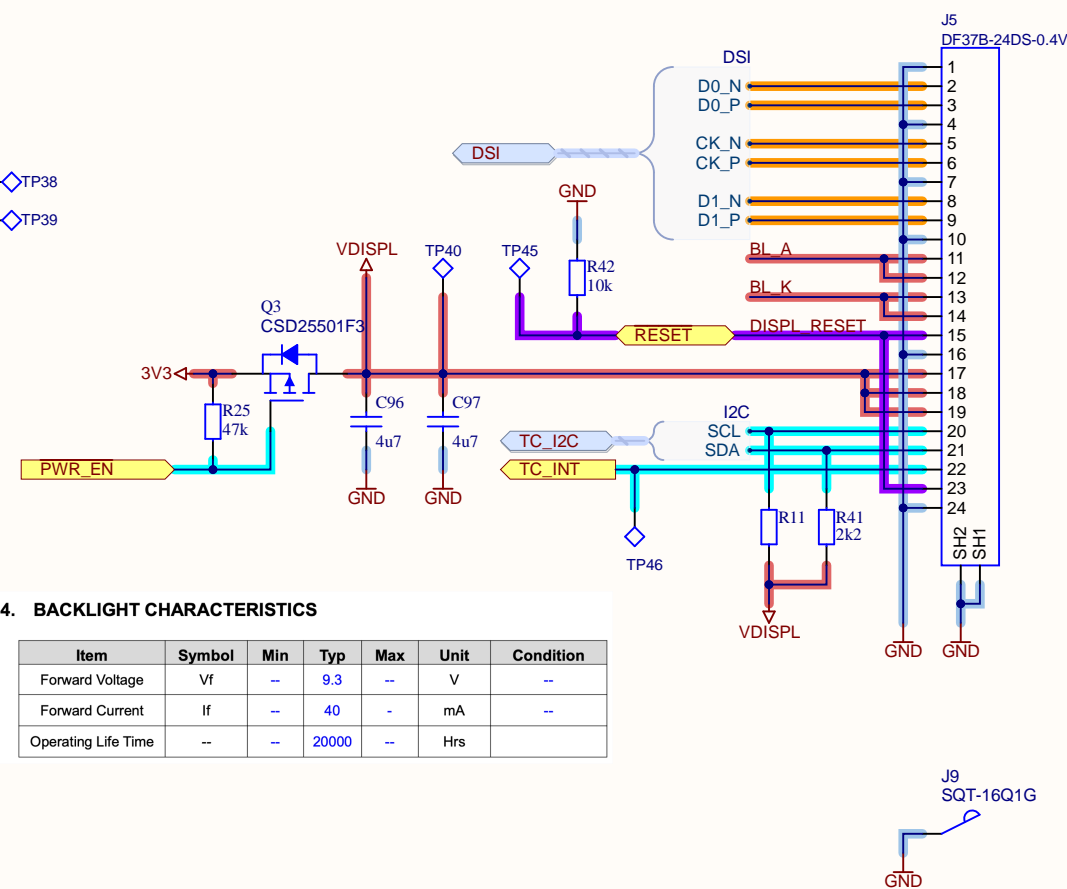
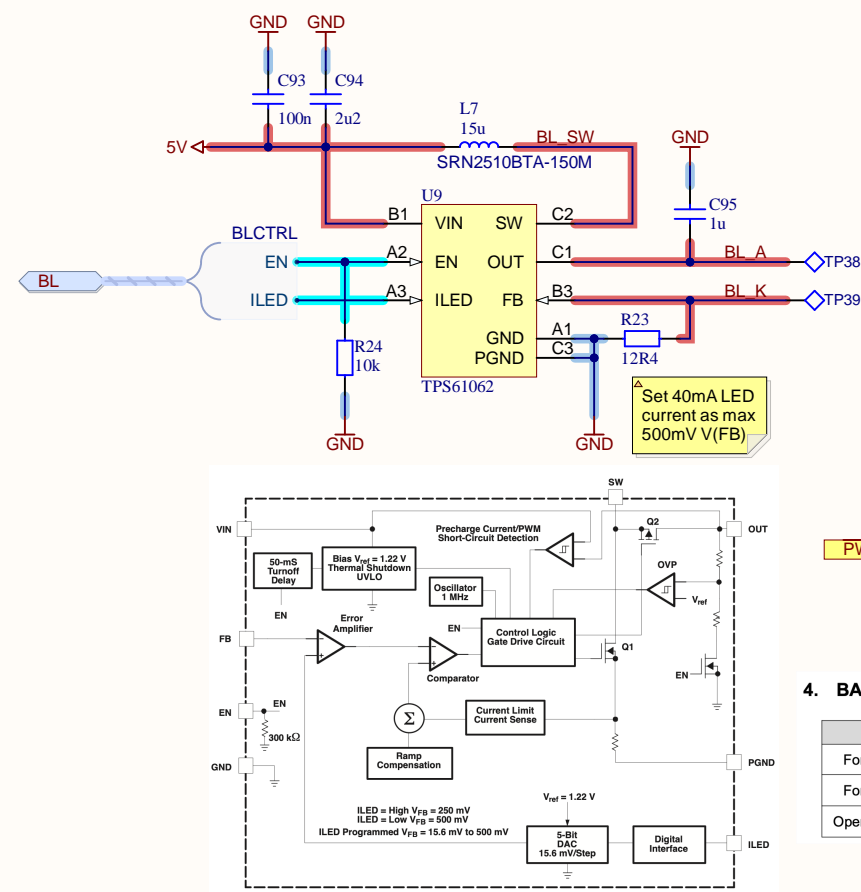
Figure 23: Typical application schematic

	Title Tropic secure element	
	Variant Standard	Revision C
	Document TS7_SE_Tropic.SchDoc	Date 10/23/2025
	Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s.
	Size A3	Sheet no. 11 / 16
		Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic



TREZOR

Title Optiga secure element		
Variant Standard	Revision A	
Document TS7_SE_Optiga.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. <small>part of SatoshiLabs Group a.s.</small>	
Size A3	Sheet no. 12 / 16	Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic

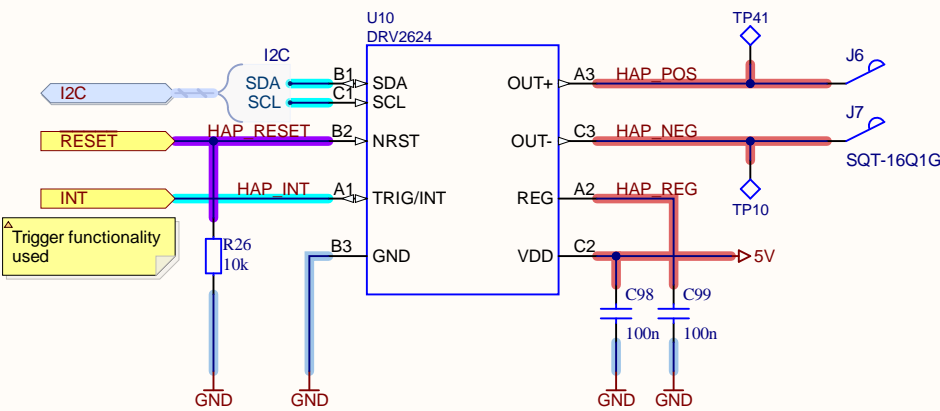


4. BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max	Unit	Condition
Forward Voltage	V _f	--	9.3	--	V	--
Forward Current	I _f	--	40	-	mA	--
Operating Life Time	--	--	20000	--	Hrs	



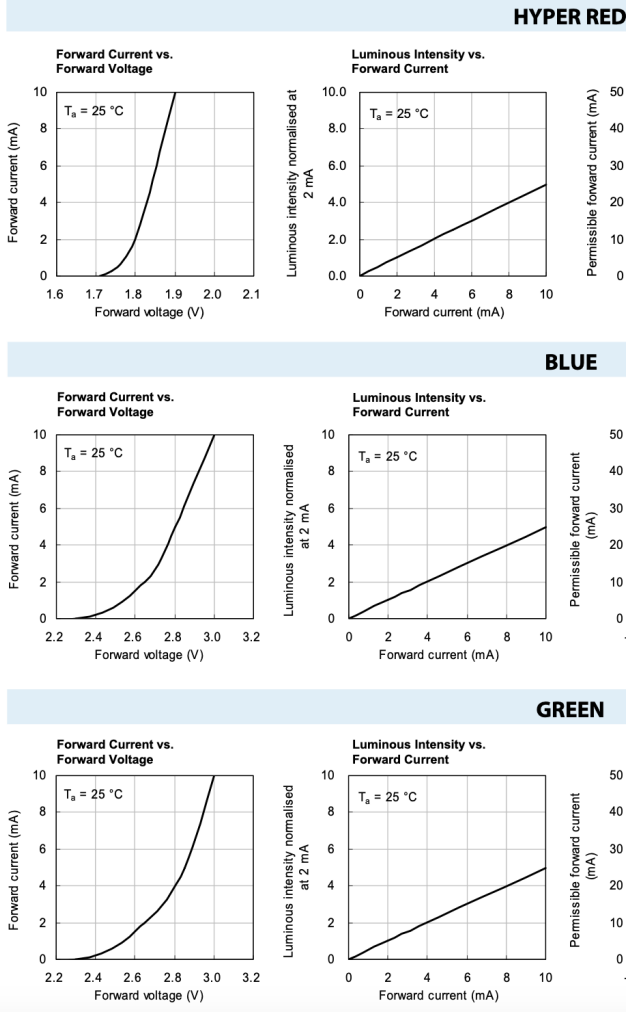
Title			Display interface		
Variant			Revision		
Standard			C		
Document			Date		
TS7_Display.SchDoc			10/23/2025		
Author			Trezor Company s.r.o.		
Stanislav Tomášek			part of SatoshiLabs Group a.s.		
Size		Sheet no.	Kundratka 2359/17A		
A3		13 / 16	18000 Praha 8 - Libeň		
			Czech Republic		



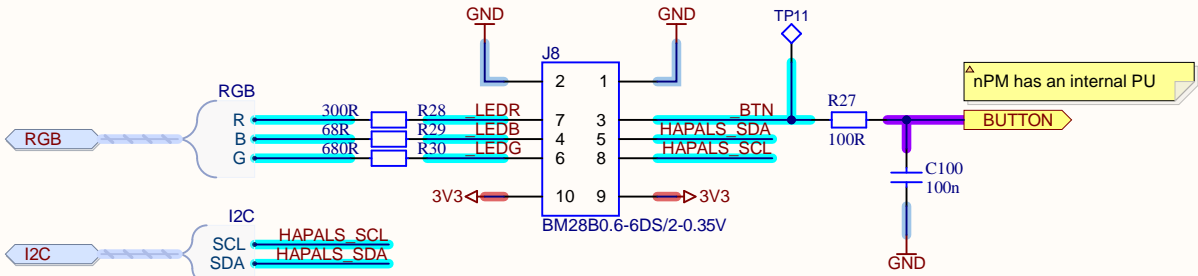
TREZOR

Title Haptic driver		
Variant Standard	Revision C	
Document TS7_Haptic.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s. Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic	
Size A3	Sheet no. 14 / 16	

Emitting Color (Material)	Lens Type	Iv (mcd) @ 2mA ^[2]	
		Min.	Typ.
■ Hyper Red (AlGaInP)	Water Clear	4	15
■ Blue (InGaN)		4	10
■ Green (InGaN)		50	90



Use APHF1608LSEEQBDZGKC as RGB LED



Title UI FPC interface		
Variant Standard	Revision D	
Document TS7_Conn_UI.SchDoc	Date 10/23/2025	
Author Stanislav Tomášek	Trezor Company s.r.o. part of SatoshiLabs Group a.s.	
Size A3	Sheet no. 15 / 16	Kundratka 2359/17A 18000 Praha 8 - Libeň Czech Republic