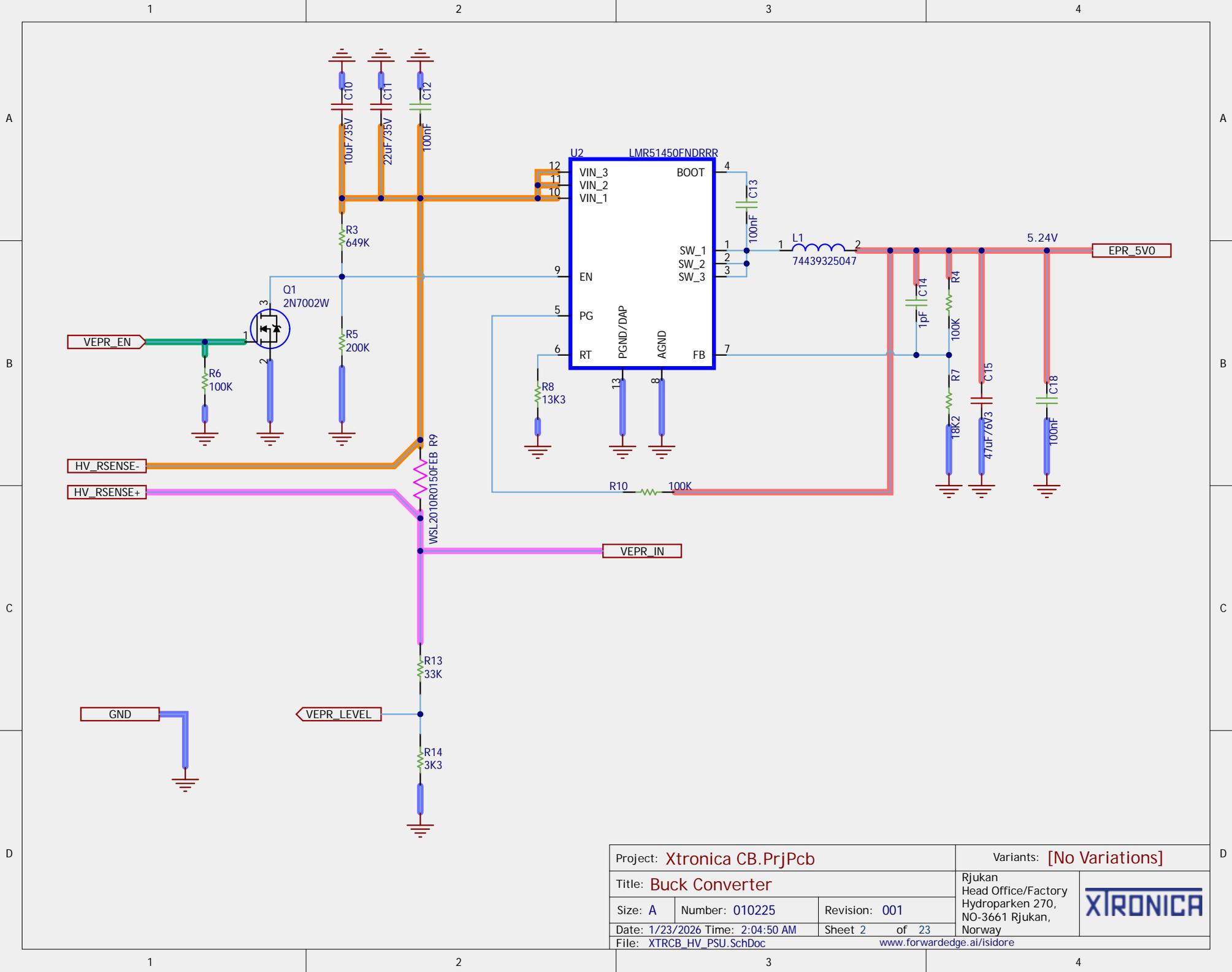
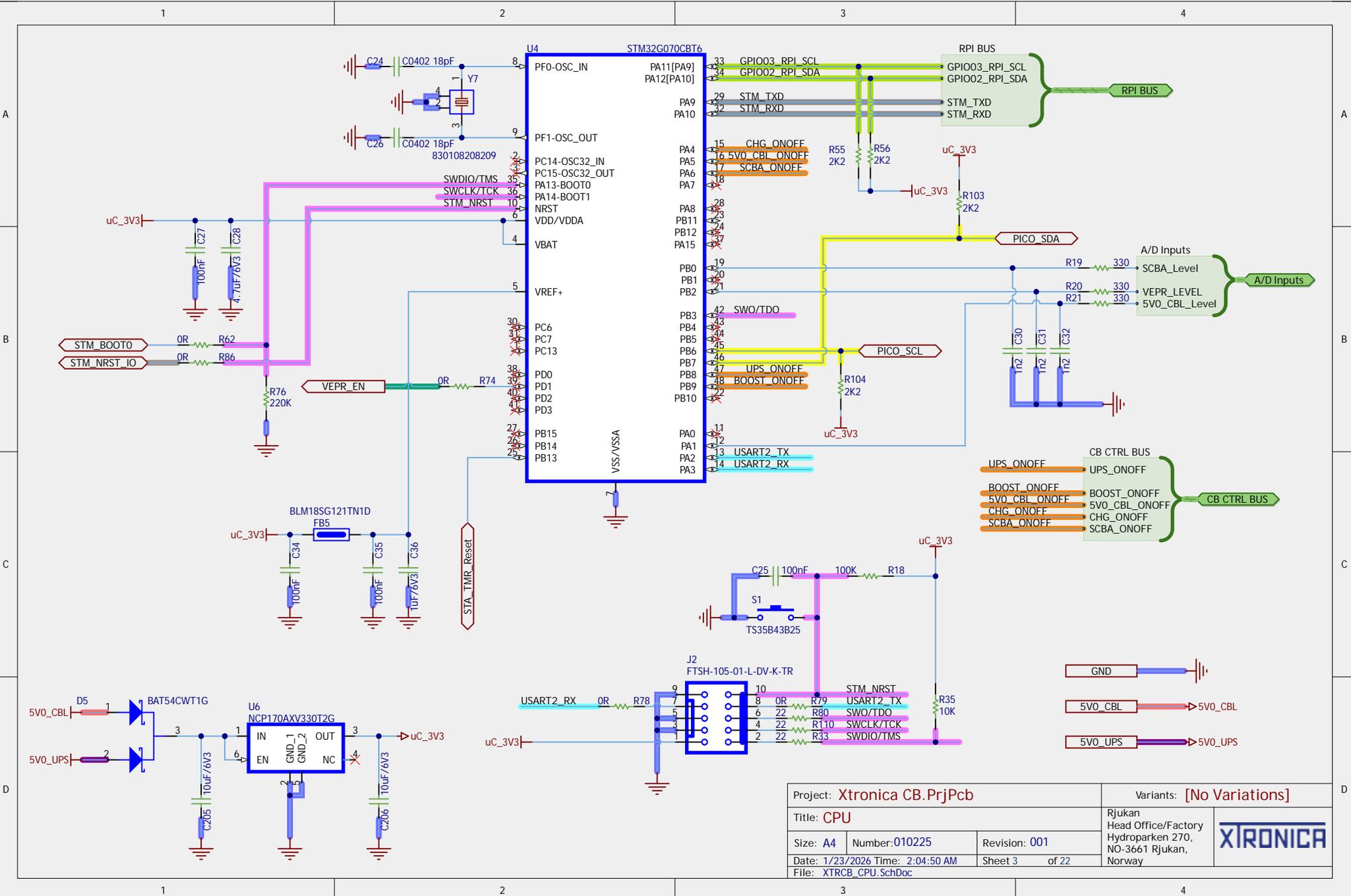


Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: CB Top Level Sheet		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A3	Number: 010225	Revision: 001	Sheet 1 of 23
Date: 1/23/2026 Time: 2:04:49 AM		File: XTRCB TOP LEVEL Sheet.SchDoc	

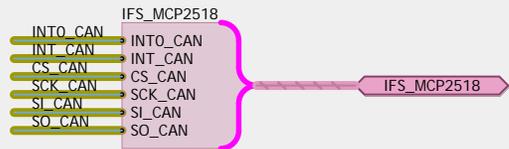
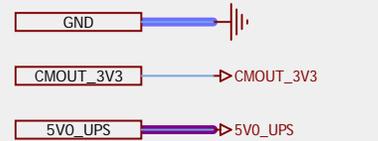
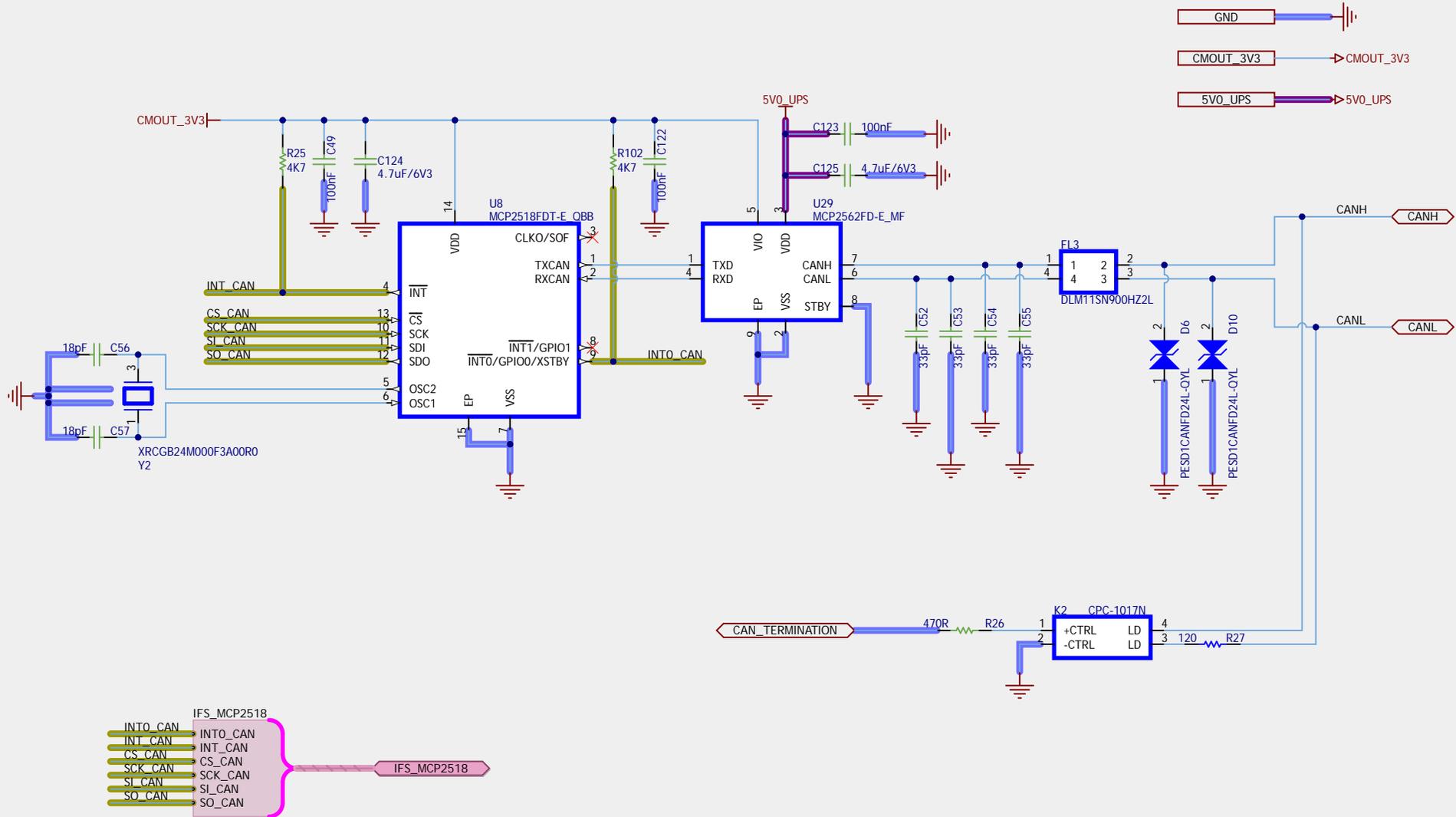




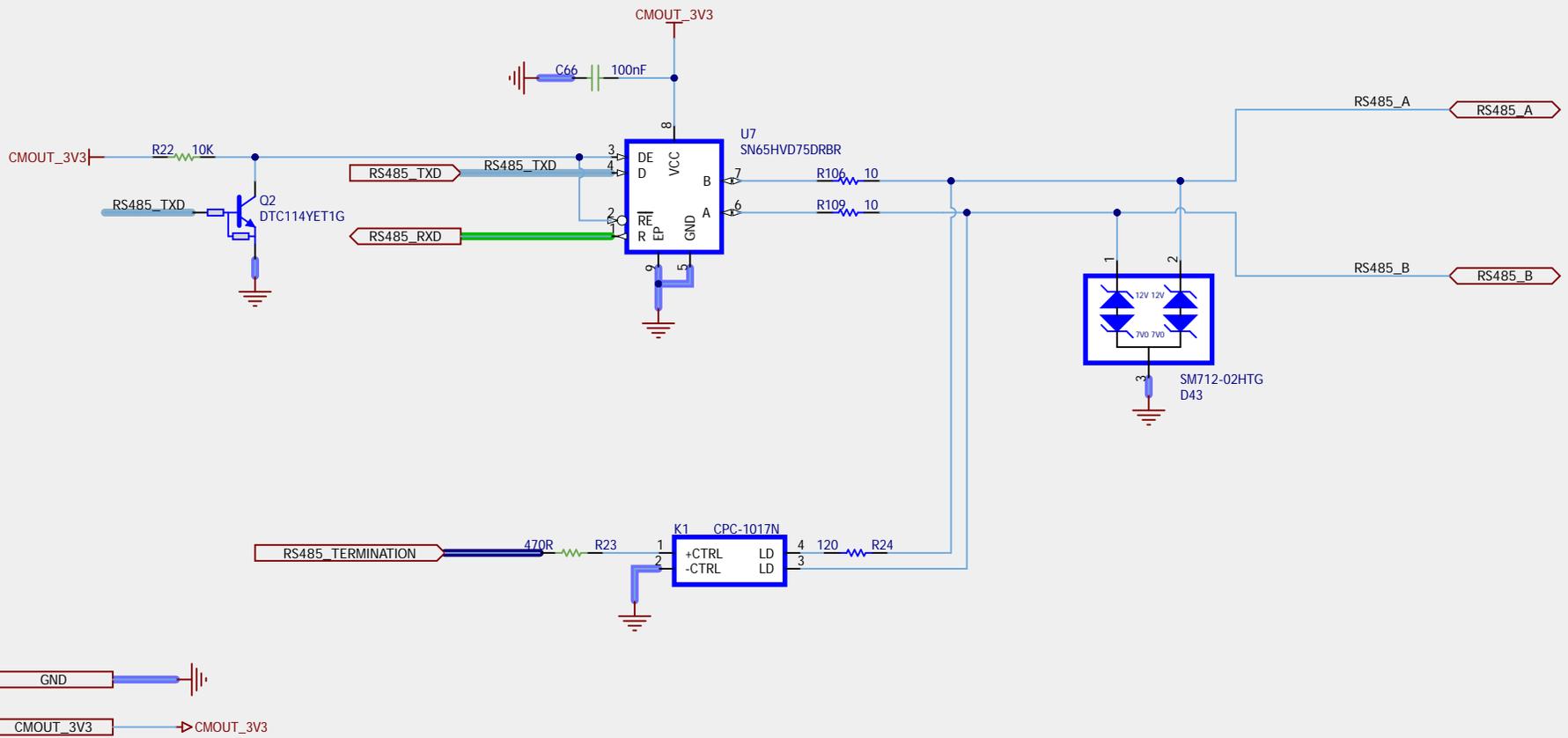
Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: Buck Converter		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:50 AM	Sheet 2 of 23		
File: XTRCB_HV_PSU.SchDoc		www.forwardedge.ai/isidore	



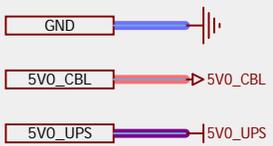
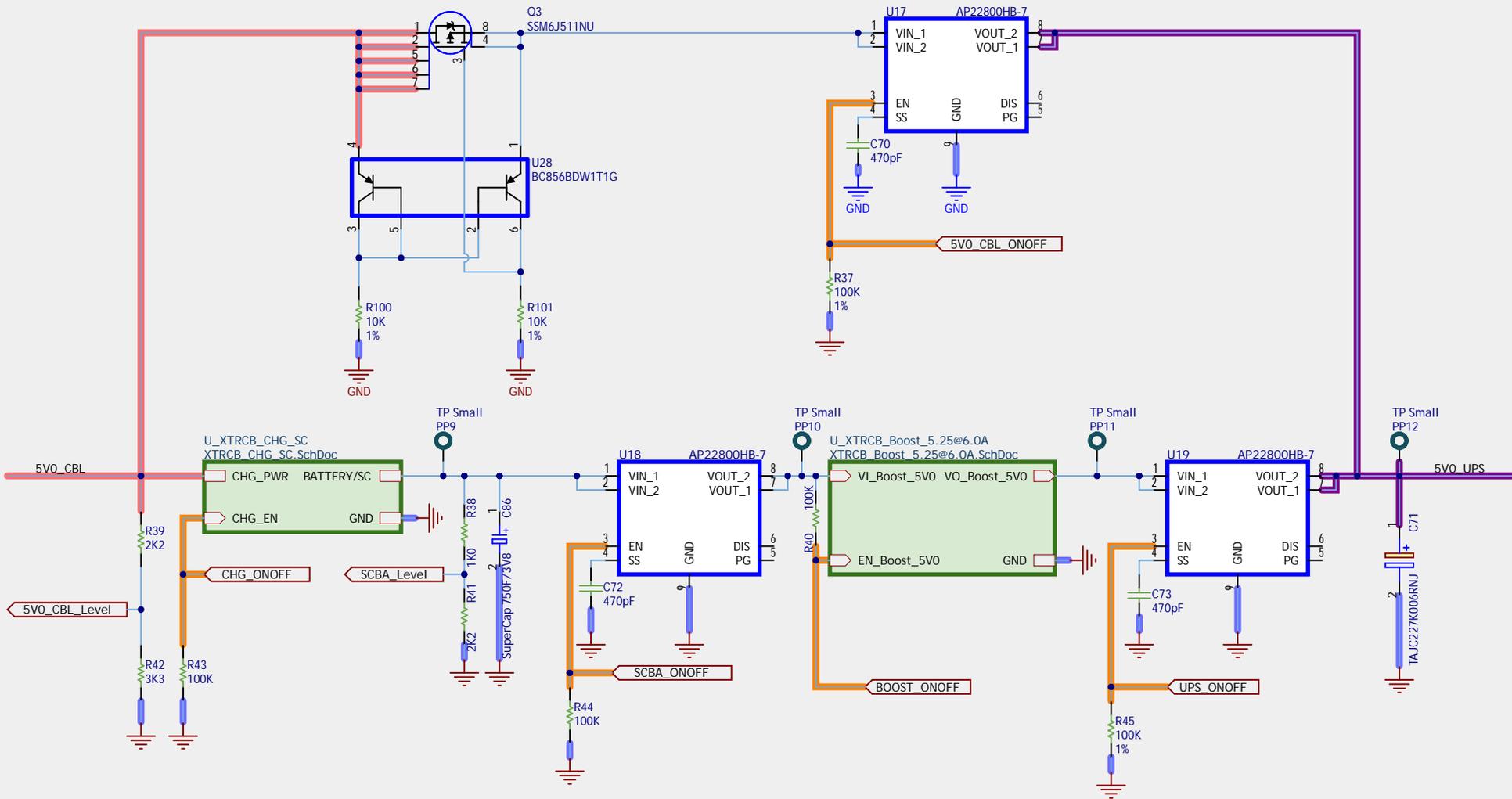
Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: CPU		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:50 AM	File: XTRCB_CPU.SchDoc	Sheet 3 of 22	



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: CAN FD Interface		PI Modules Nikaïas 49, Nea Smyrni 171 22 Athens Greece	
Size: A4	Number: 01122022	Revision: 00001	
Date: 1/23/2026 Time: 2:04:50 AM	File: XTRCB_CANFD.SchDoc	Sheet 4 of 22	



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: RS485		Pi Modules Nikaia 49, Nea Smyrni 171 22 Athens Greece	
Size: A4	Number: 01122022	Revision: 00001	
Date: 1/23/2026 Time: 2:04:50 AM	File: XTRCB_RS485.SchDoc	Sheet 5 of 22	



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: UPS		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:50 AM	File: XTRCB_UPS.SchDoc	Sheet 6 of 22	

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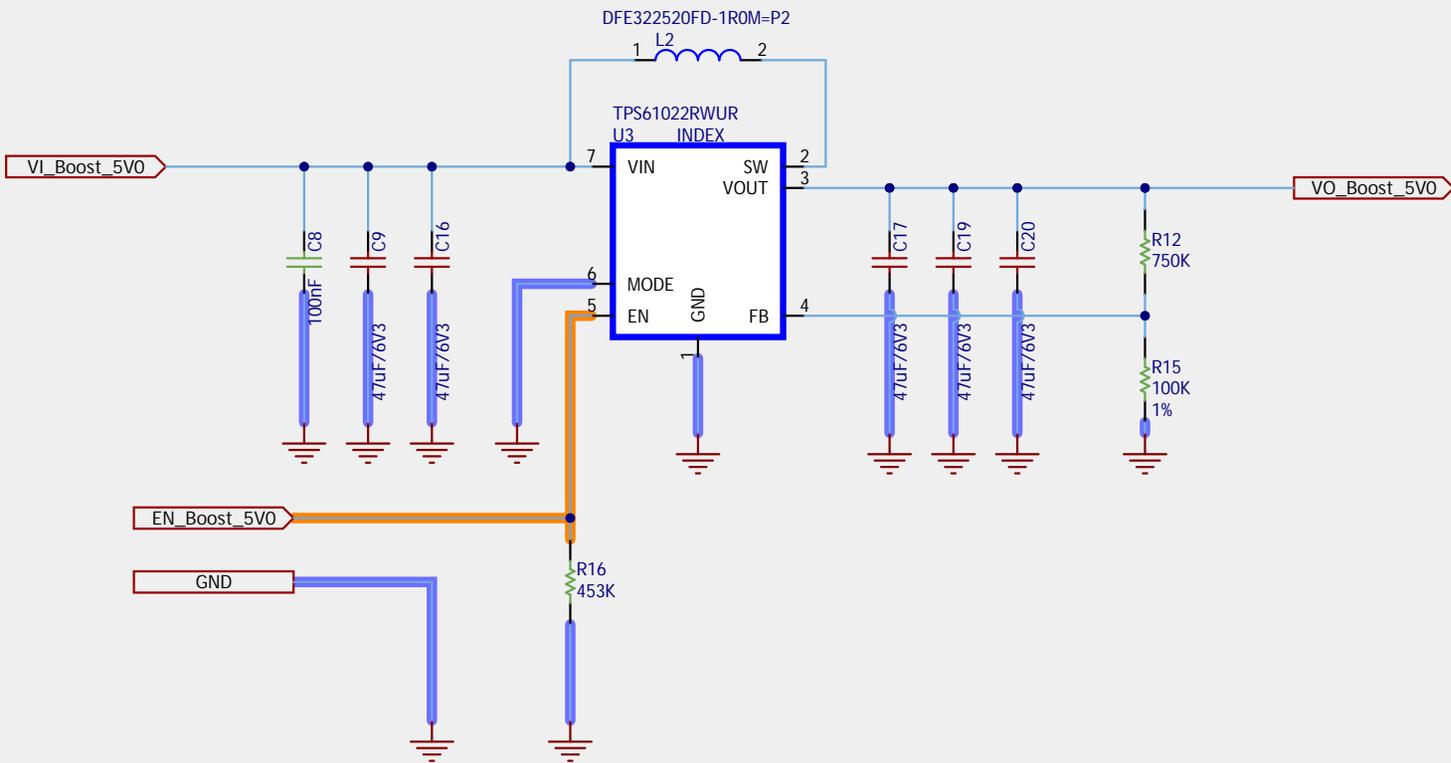
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A
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D



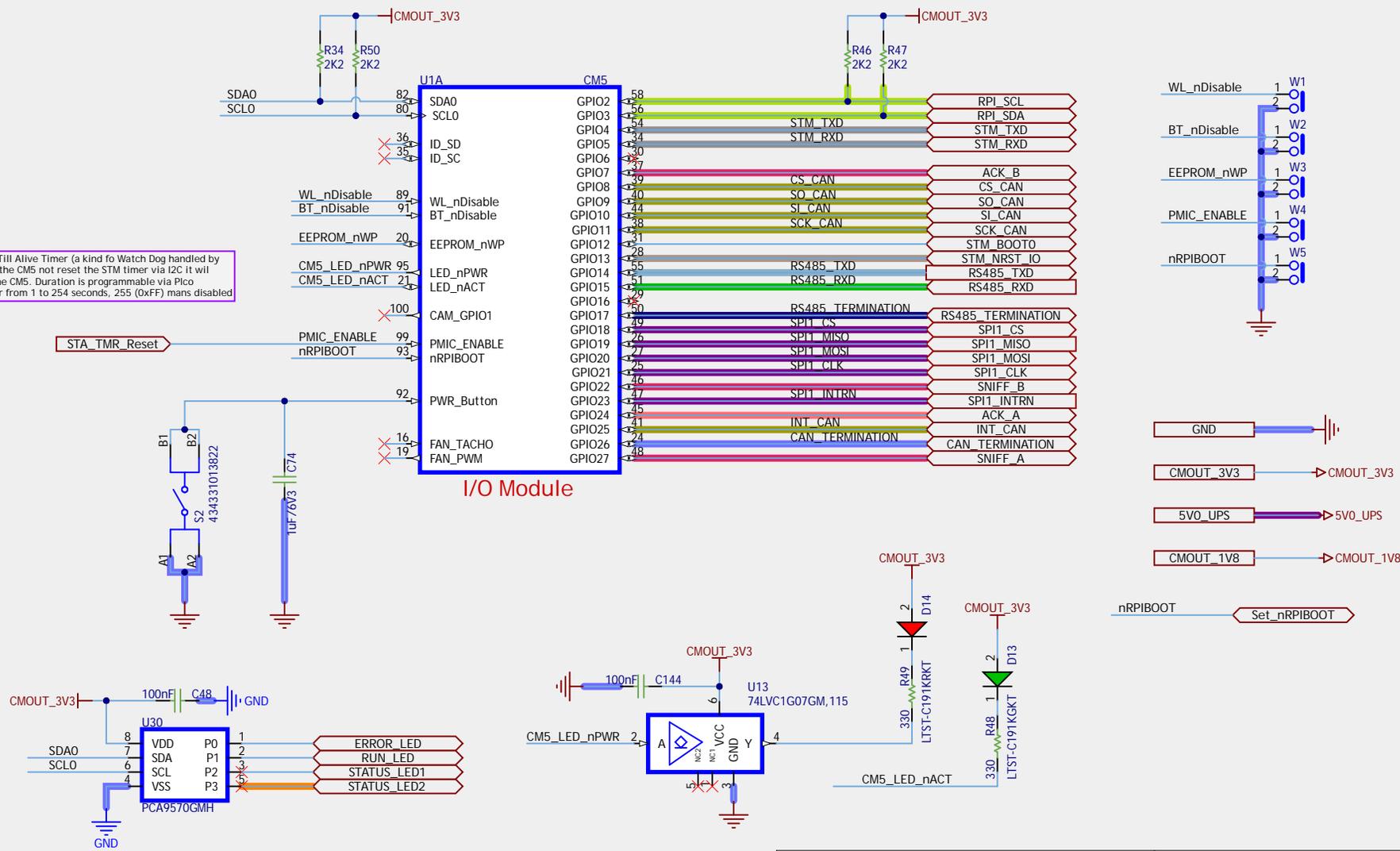
Project: Xtronica CB.PrjPcb			Variants: [No Variations]		
Title: 5.25@3A Boost Converter			Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway		
Size: A	Number: 010225	Revision: 001			
Date: 1/23/2026 Time: 2:04:50 AM		Sheet 7 of 22			
File: XTRCB_Boost_5.25@6.0A.SchDoc					



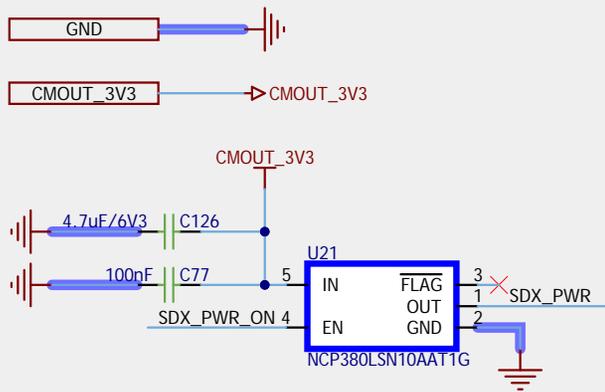
STA = STIII Alive Timer (a kind of Watch Dog handled by STM. If the CM5 not reset the STM timer via I2C it will reset the CM5. Duration is programmable via Pico Register from 1 to 254 seconds, 255 (0xFF) mans disabled

STA_TMR_Reset

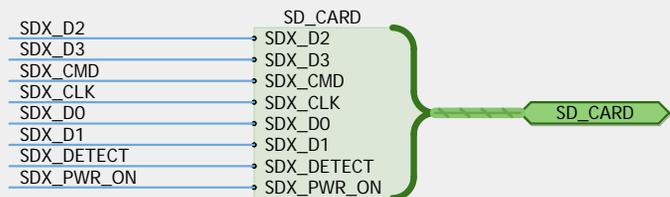
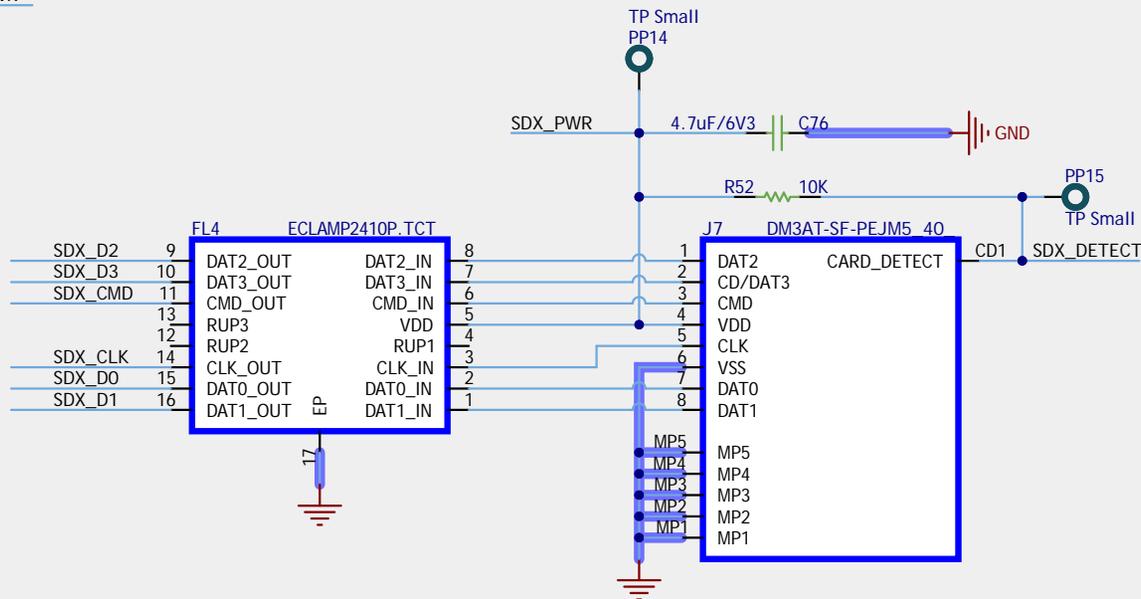
I/O Module



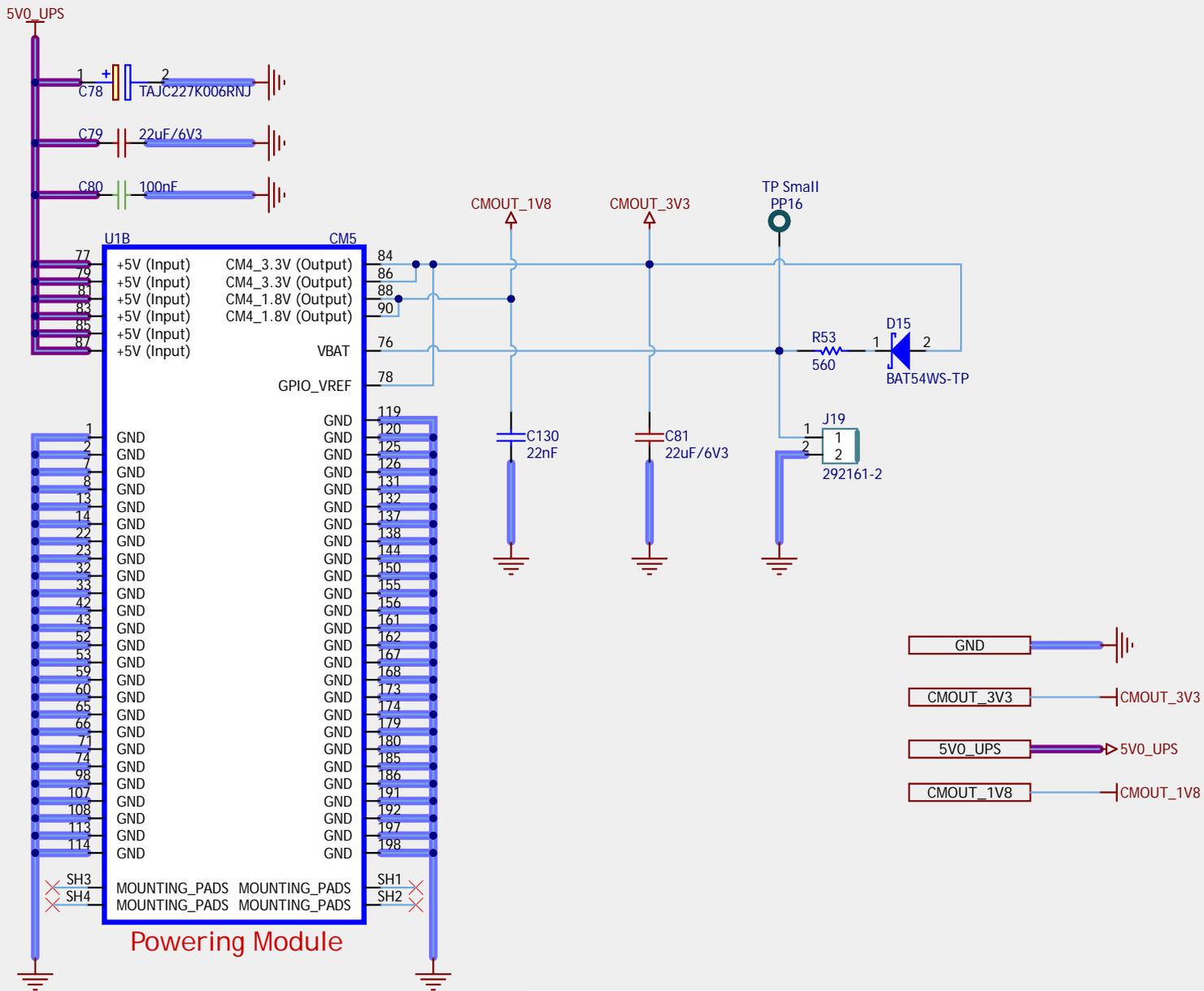
Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: CM5 I/O		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026	Time: 2:04:51 AM	Sheet 9 of 23	
File: CM5_IO.SchDoc			



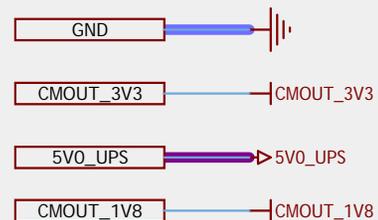
CMOUT_3V3 is originated by CM5 and is protected by UPS



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: SD_CARD		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:51 AM	Sheet 10 of 22	File: XTRCB_SD_CARD.SchDoc	

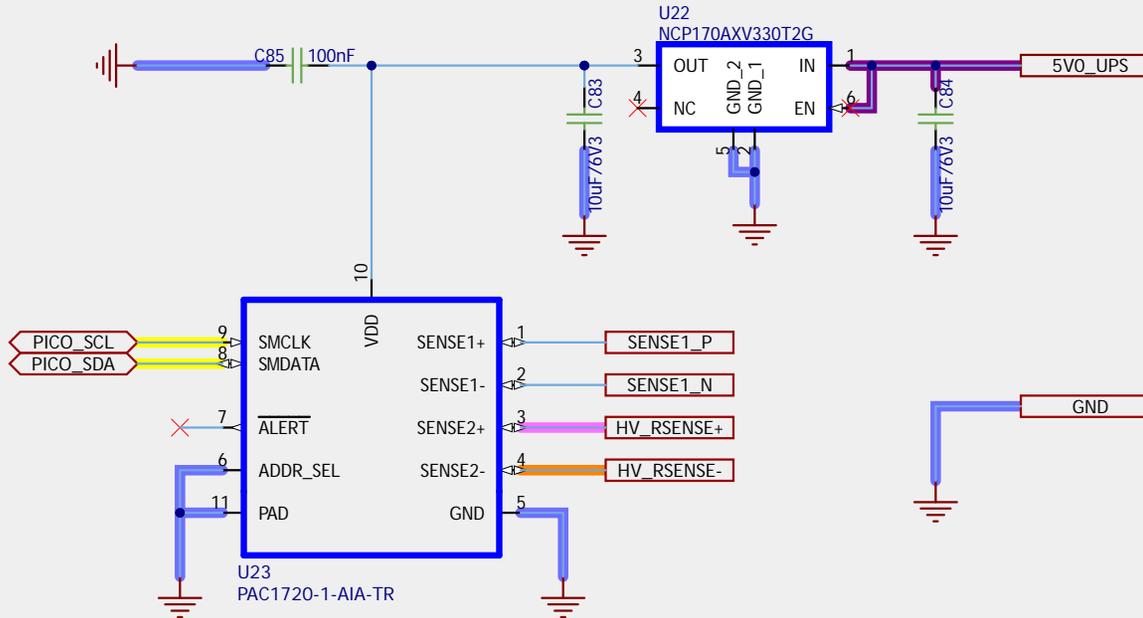


Powering Module

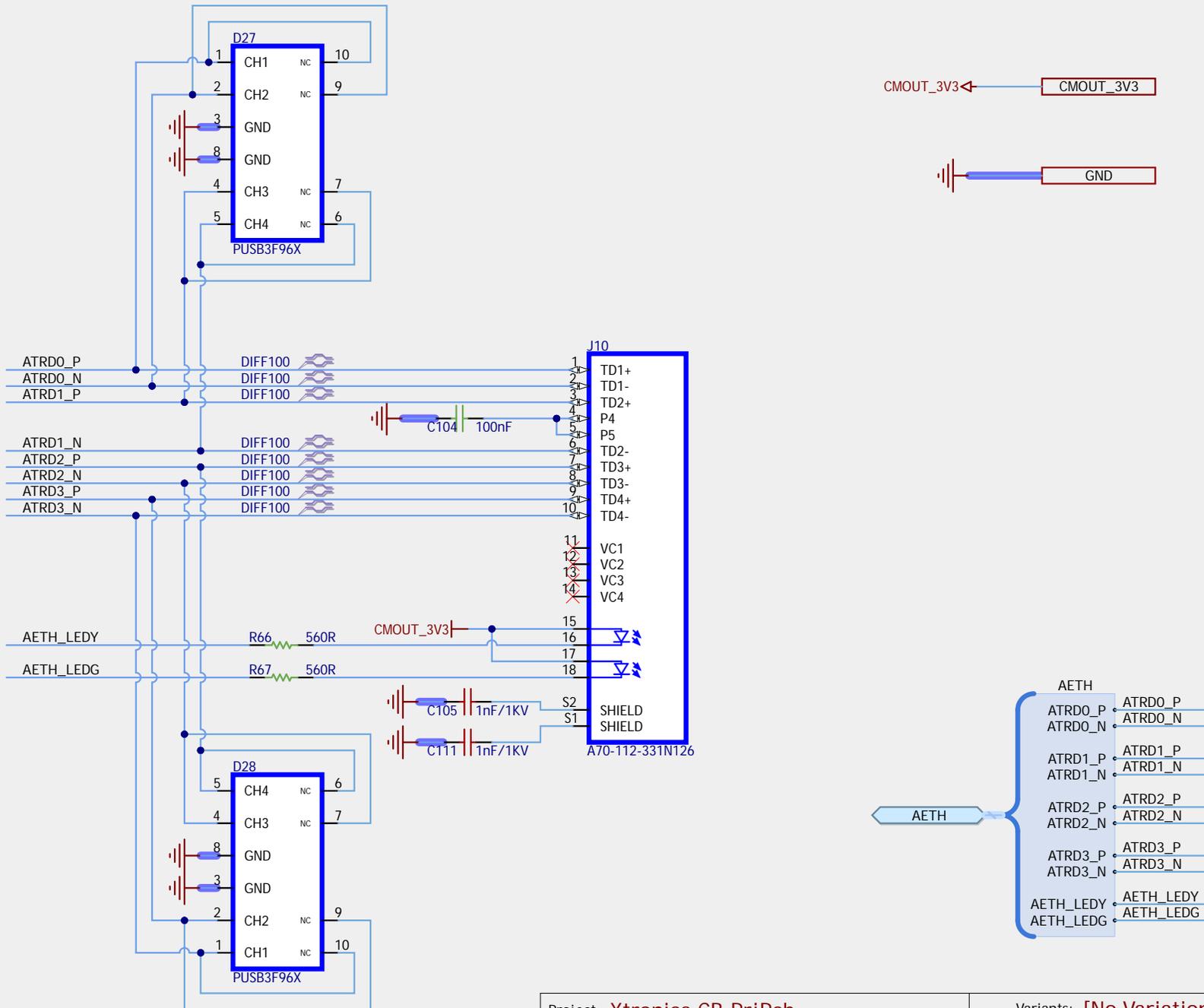


Project: Xtronica CB.PrjPcb			Variants: [No Variations]	
Title: CM5 Powering			Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A	Number: 010225	Revision: 001		
Date: 1/23/2026 Time: 2:04:51 AM	Sheet 11 of 22	File: XTRCB_CM5_POWERING.SchDoc		

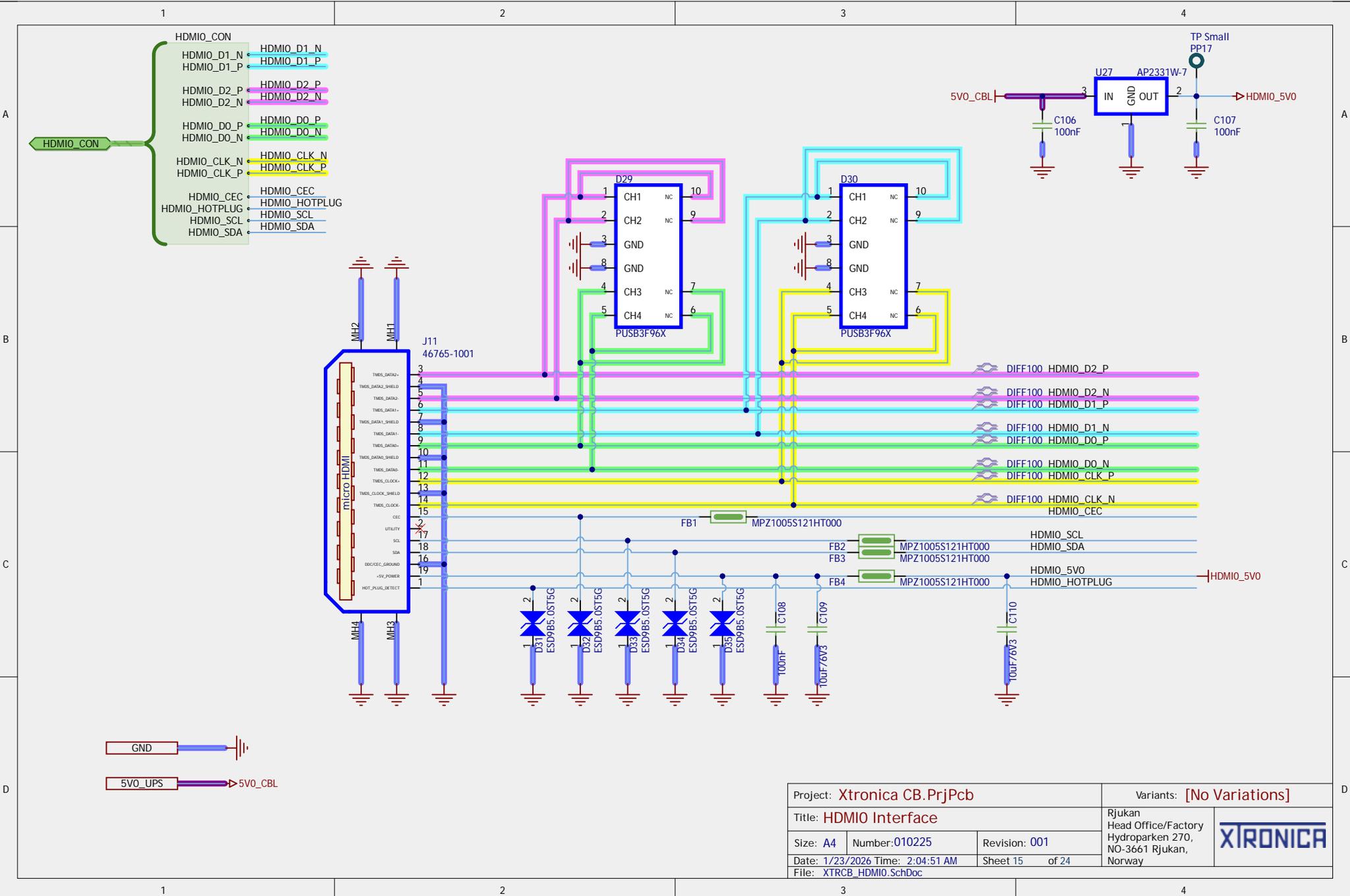
BIAS



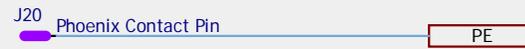
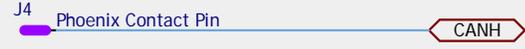
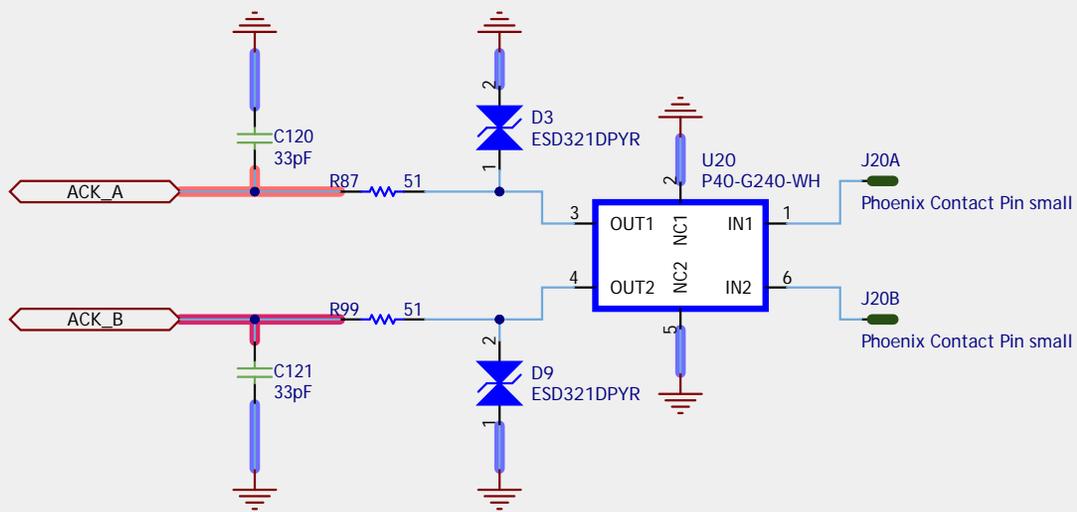
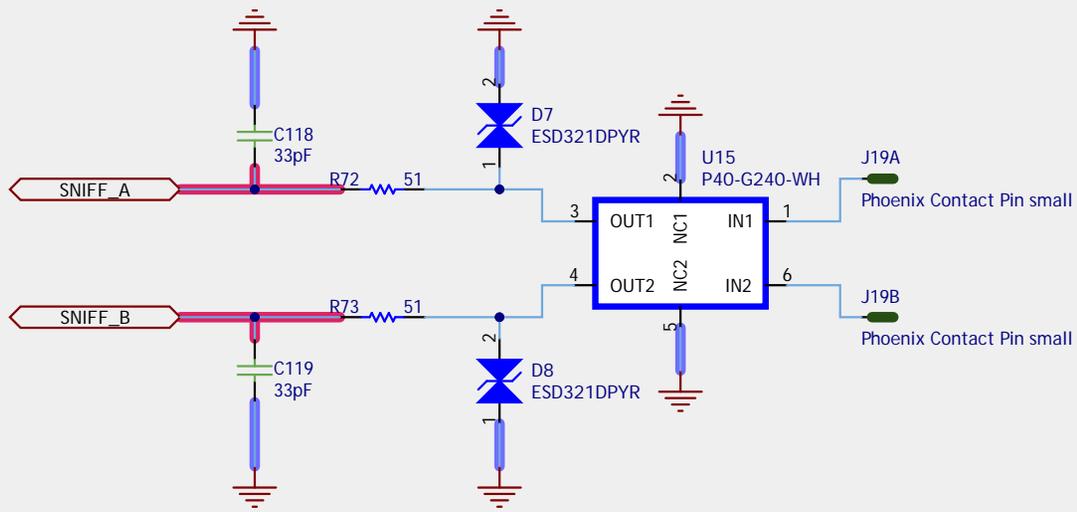
Project: Xtronica CB.PrjPcb		Variants: [No Variations]		
Title: Current Sensor		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway 		
Size: A	Number: 010225			Revision: 001
Date: 1/23/2026 Time: 2:04:51 AM	Sheet 12 of 23			
File: XTRCB_Current_Sensor.SchDoc				



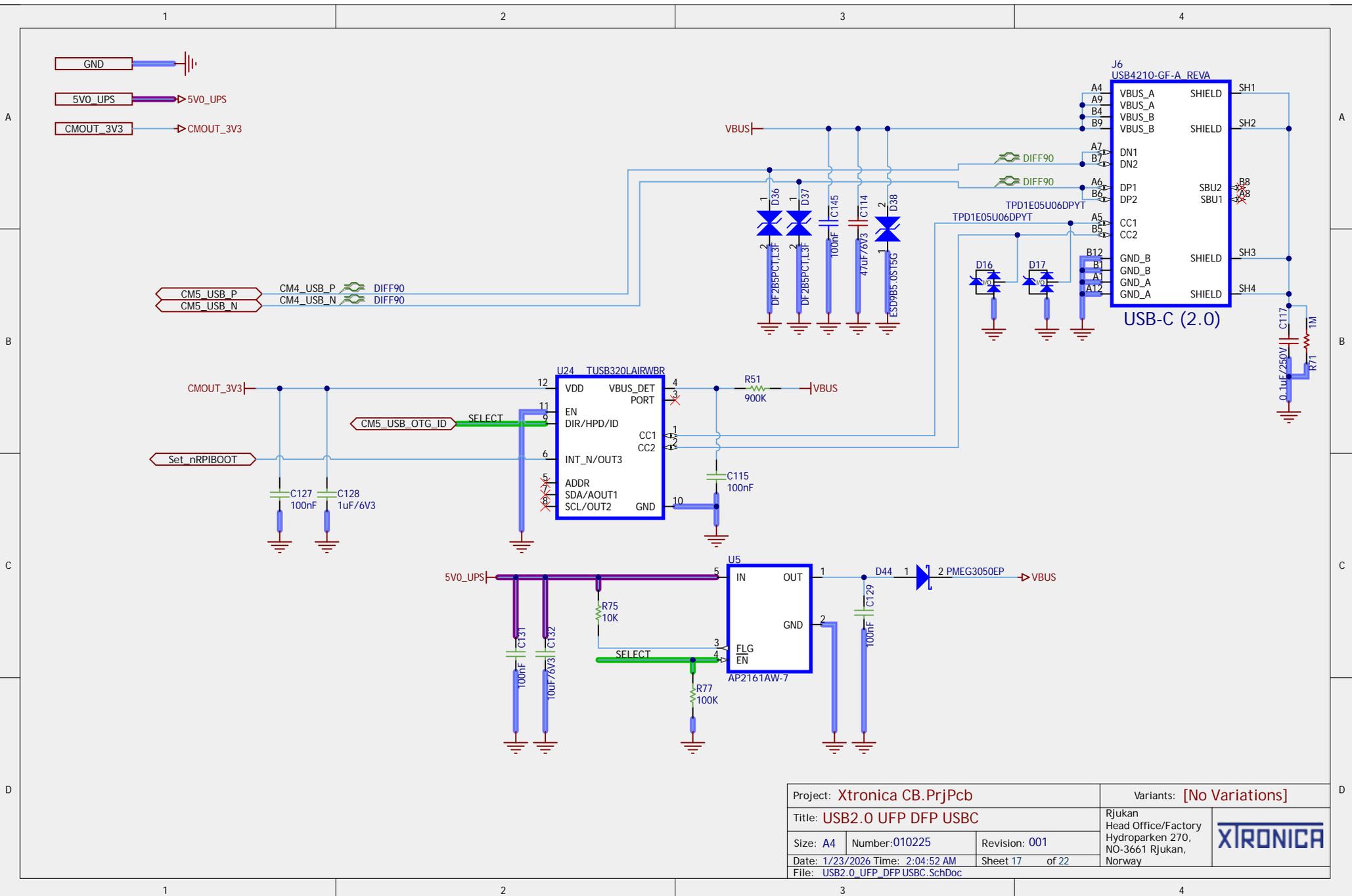
Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: A_ETHERNET		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:51 AM	Sheet 14 of 22	File: XTRCB_ETHERNET_A.SchDoc	



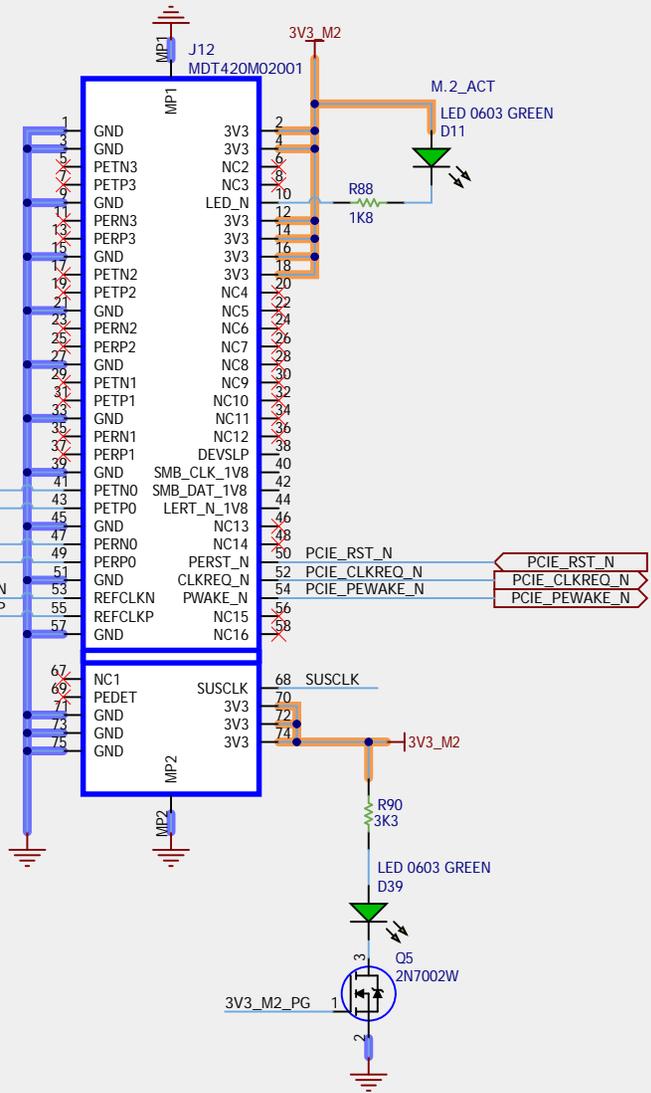
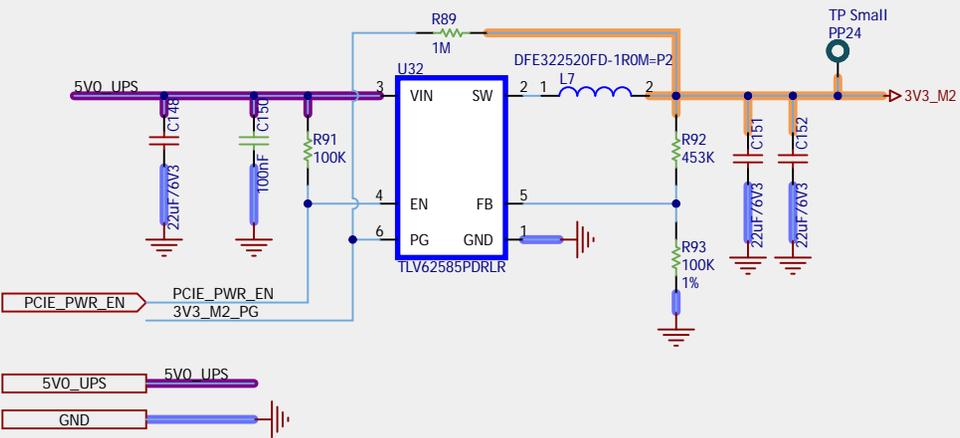
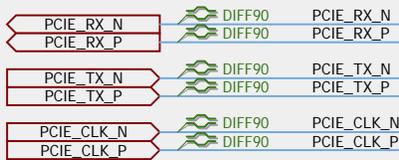
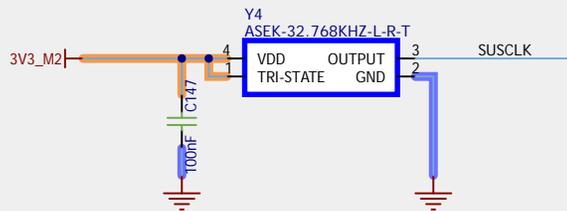
Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: HDMI Interface		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026	Time: 2:04:51 AM	Sheet 15 of 24	
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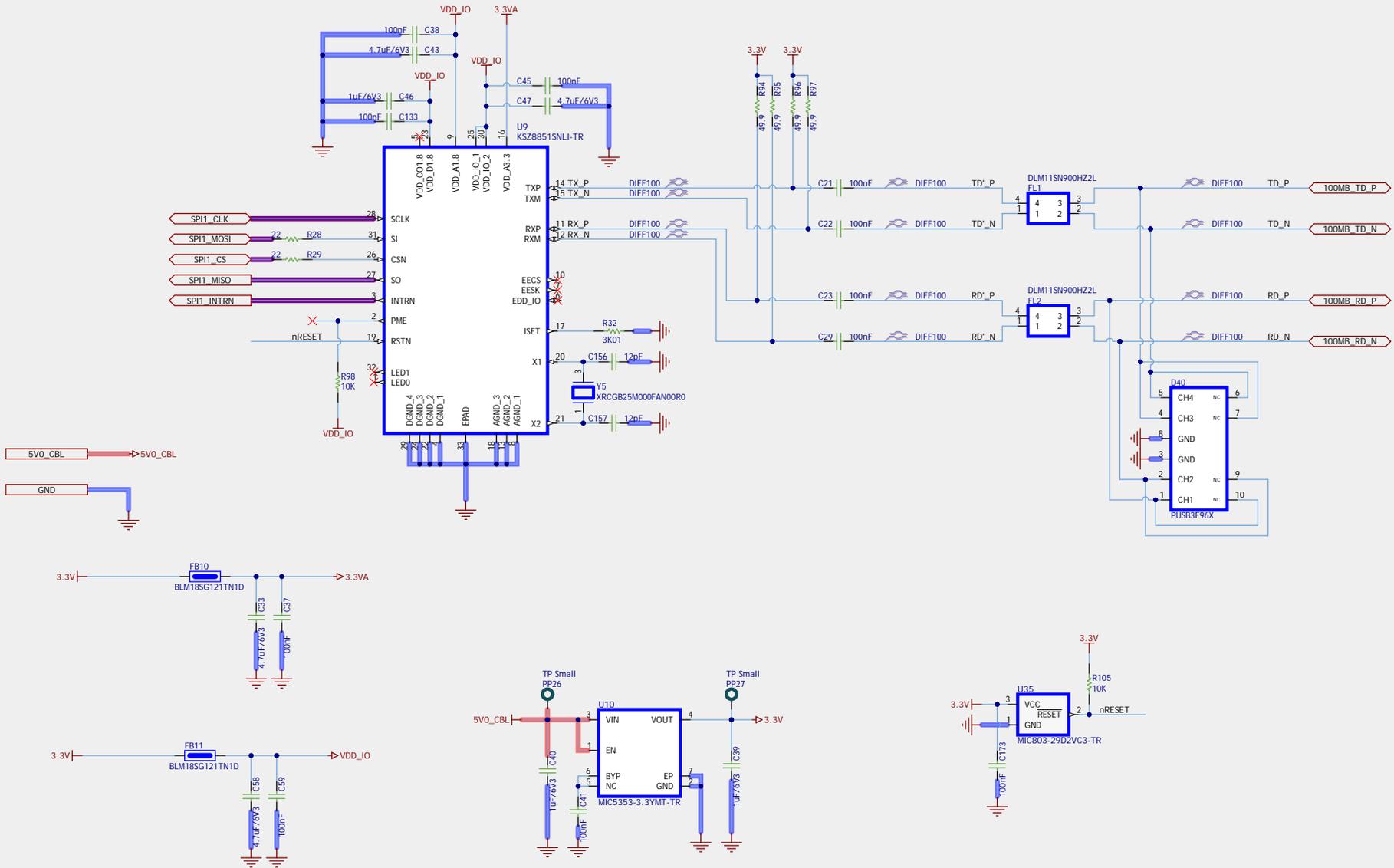
Project: Xtronica CB.PrjPcb		Variants: [No Variations]		
Title: DIN BUS		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway		
Size: A	Number: 010225			Revision: 001
Date: 1/23/2026 Time: 2:04:52 AM	Sheet 16 of 22			
File: XTRCB_DIN_BUS.SchDoc				



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: USB2.0 UFP DFP USB-C		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026	Time: 2:04:52 AM	Sheet 17 of 22	
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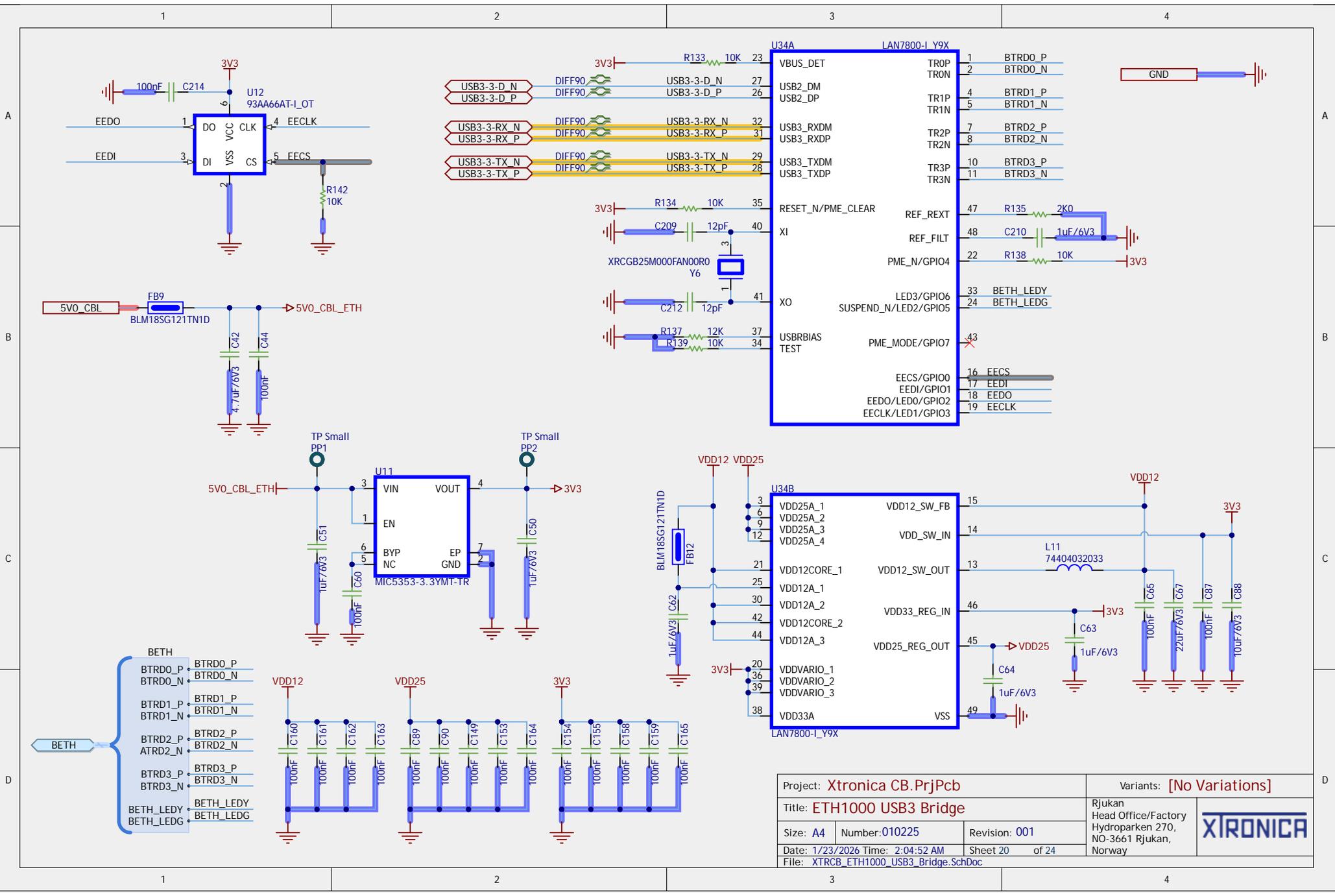


Project: Xtronica CB.PrcjPcb		Variants: [No Variations]	
Title: M.2 Interface		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026	Time: 2:04:52 AM	Sheet 18 of 22	
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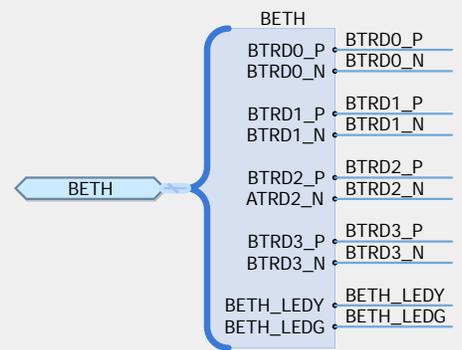
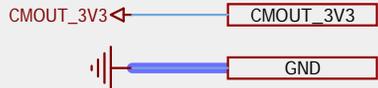
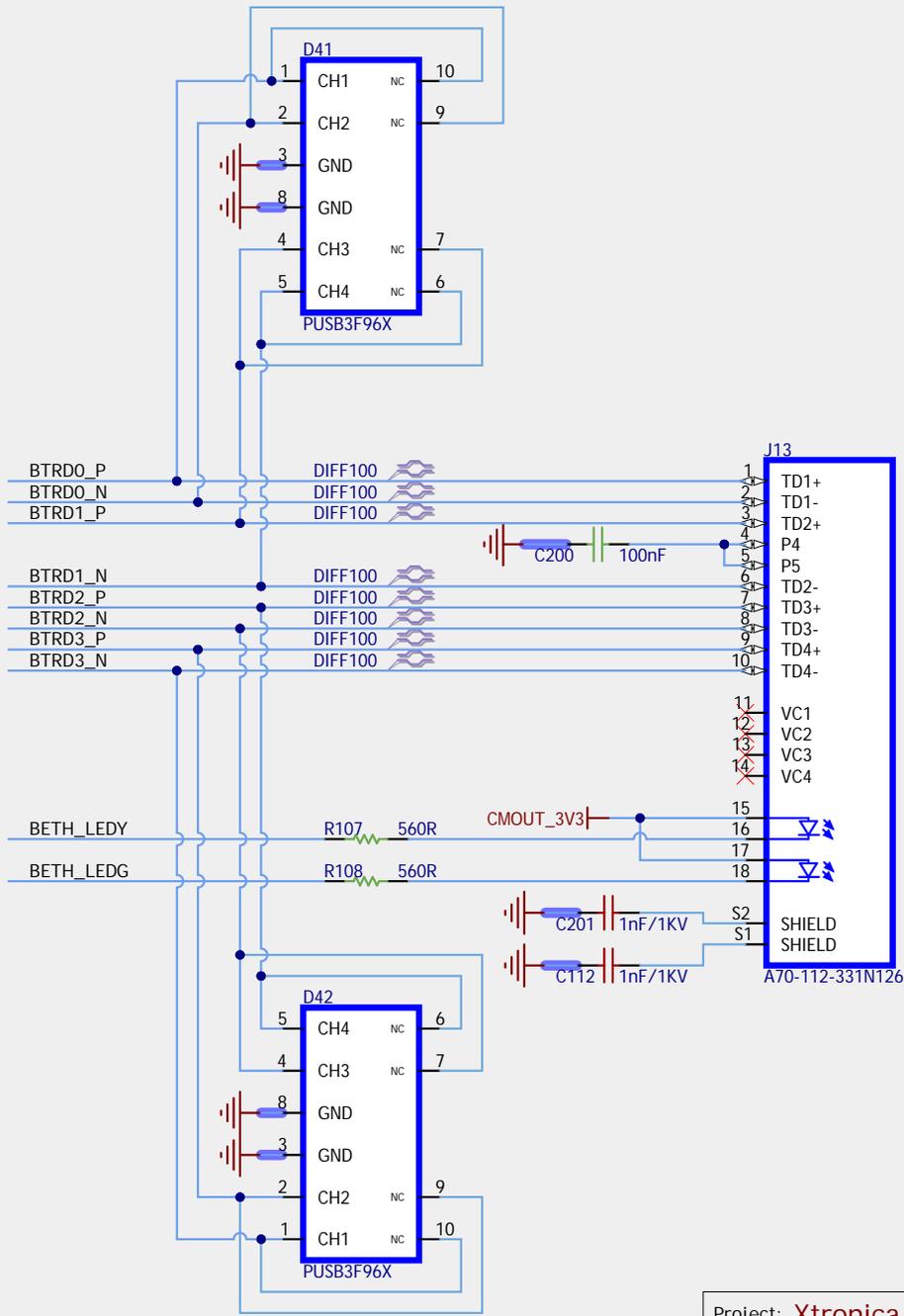


Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: 100MB Ethernet		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A3	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:52 AM		Sheet 19 of 22	
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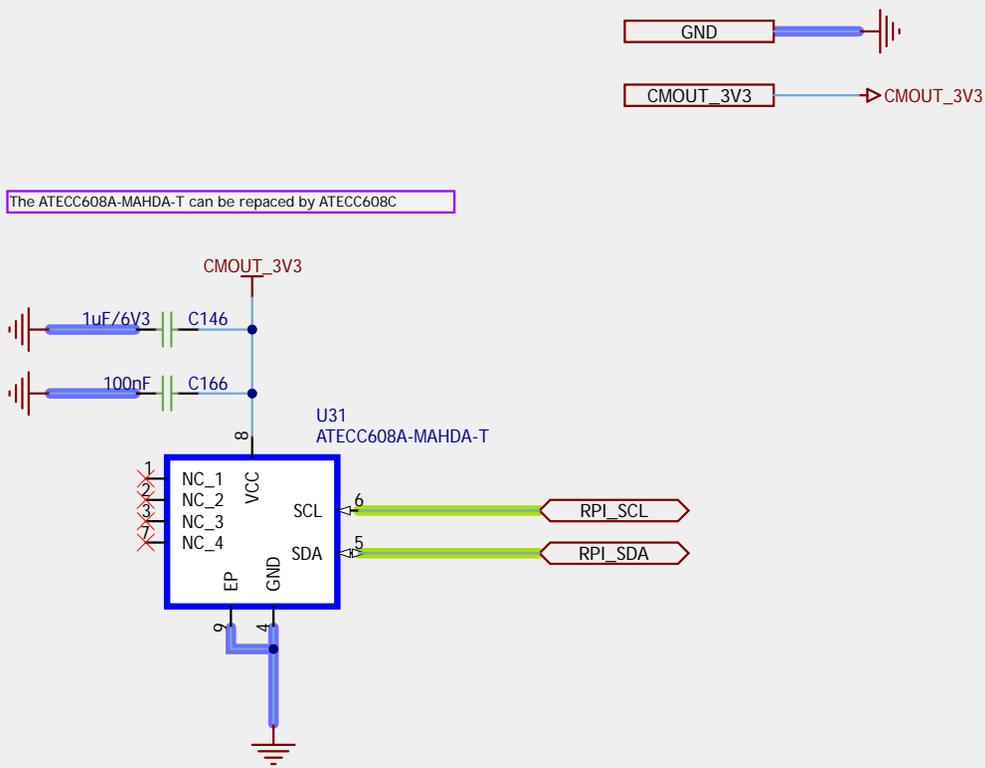




Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: ETH1000 USB3 Bridge		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A4	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:52 AM	Sheet 20 of 24		
File: XTRCB_ETH1000_USB3_Bridge.SchDoc			



Project: Xtronica CB.PrjPcb		Variants: [No Variations]	
Title: A_ETHERNET		Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway	
Size: A	Number: 010225	Revision: 001	
Date: 1/23/2026 Time: 2:04:52 AM	Sheet 21 of 22		
File: XTRCB_ETHERNET_B.SchDoc			



Project: Xtronica CB.PrjPcb			Variants: [No Variations]		
Title: Hardware Storage Module			Rjukan Head Office/Factory Hydroparken 270, NO-3661 Rjukan, Norway		
Size: A	Number: 010225	Revision: 001			
Date: 1/23/2026 Time: 2:04:53 AM		Sheet 23 of 23			
File: XTRCB_HSM.SchDoc					



Board Stack Report