

050_Block_Diagram
050_Block_Diagram.SchDoc



U_227_JTAG
227_JTAG.SchDoc



U_410_M2_KeyM
410_M2_KeyM.SchDoc



U_800_Jumpers
800_Jumpers.SchDoc



U_100_Power_1
100_Power_1.SchDoc



U_230_SD_Card
230_SD_Card.SchDoc



U_420_MIPI_DSI
420_MIPI_DSI.SchDoc



U_810_Jumpers
810_Jumpers.SchDoc



U_120_Power_2
120_Power_2.SchDoc



U_300_USB1_OTG
300_USB1_OTG.SchDoc



U_445_CSI_1
445_CSI_1.SchDoc



U_900_Display_Port
900_Display_Port.SchDoc



U_140_Power_3
140_Power_3.SchDoc



U_305_USB_Hub
305_USB_Hub.SchDoc



U_450_CSI_2
450_CSI_2.SchDoc



U_160_Power_4
160_Power_4.SchDoc



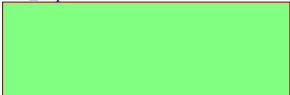
U_310_USB3
310_USB3.SchDoc



U_500_CAN
500_CAN.SchDoc



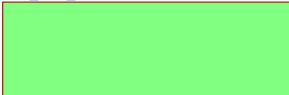
U_200_Aquila
200_Aquila.SchDoc



U_315_USBC_DFP
315_USBC_DFP.SchDoc



U_510_ISO_CAN
510_ISO_CAN.SchDoc



U_210_Translators
210_Translators.SchDoc



U_325_USB_PowerDelivery
325_USB_PowerDelivery.SchDoc



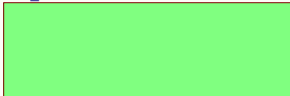
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540_Audio.SchDoc



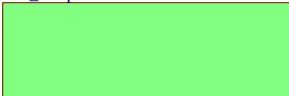
215_Translators2
215_Translators2.SchDoc



U_350_Ethernet
350_Ethernet.SchDoc



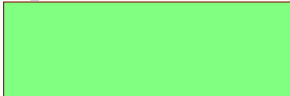
U_600_Peripherals
600_Peripherals.SchDoc



U_220_Debug
220_Debug.SchDoc



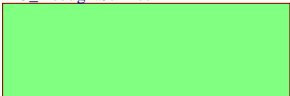
U_360_Ethernet2
360_Ethernet2.SchDoc



U_620_Peripherals2
620_Peripherals2.SchDoc



U_225_Debug2
225_Debug2.SchDoc



U_400_M2_KeyB
400_M2_KeyB.SchDoc



U_700_RS232_RS485
700_RS232_RS485.SchDoc



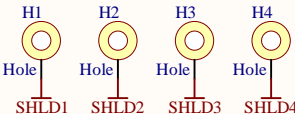
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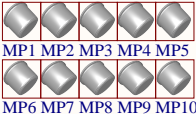
Fiducials Bottom Layer



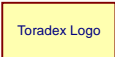
Mounting Holes



Bumpers



LBL1



MECH1

Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

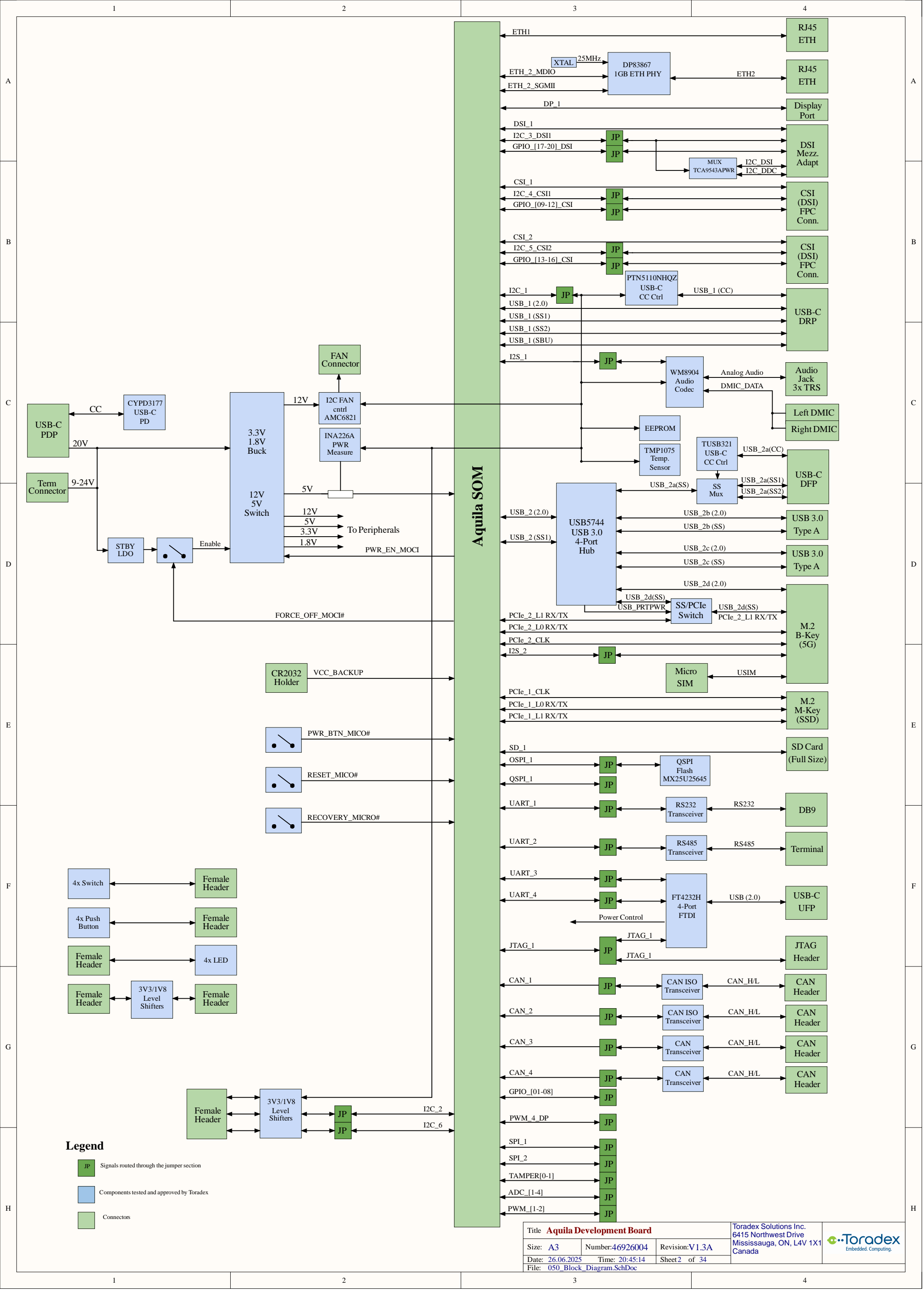
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Sheet **1** of **34**

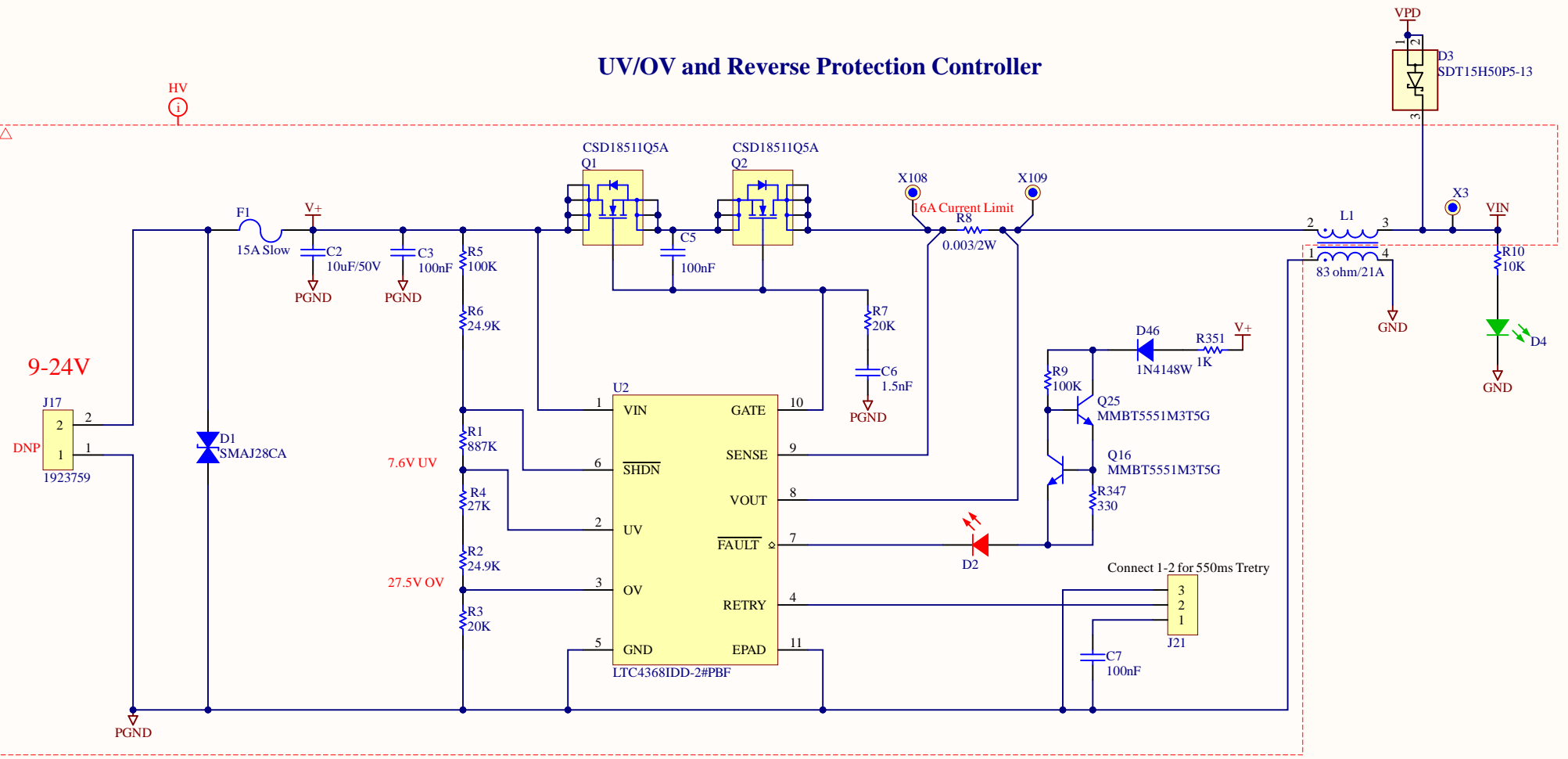
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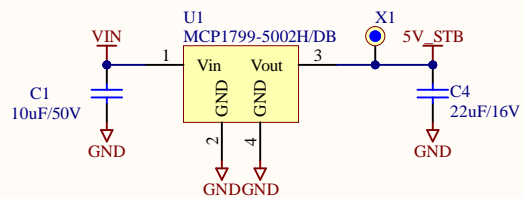




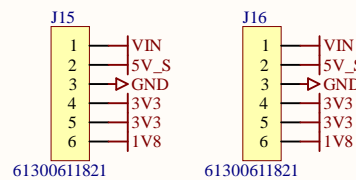
UV/OV and Reverse Protection Controller



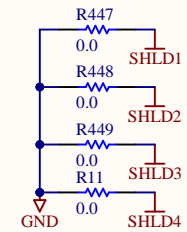
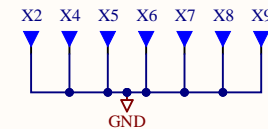
5V Standby

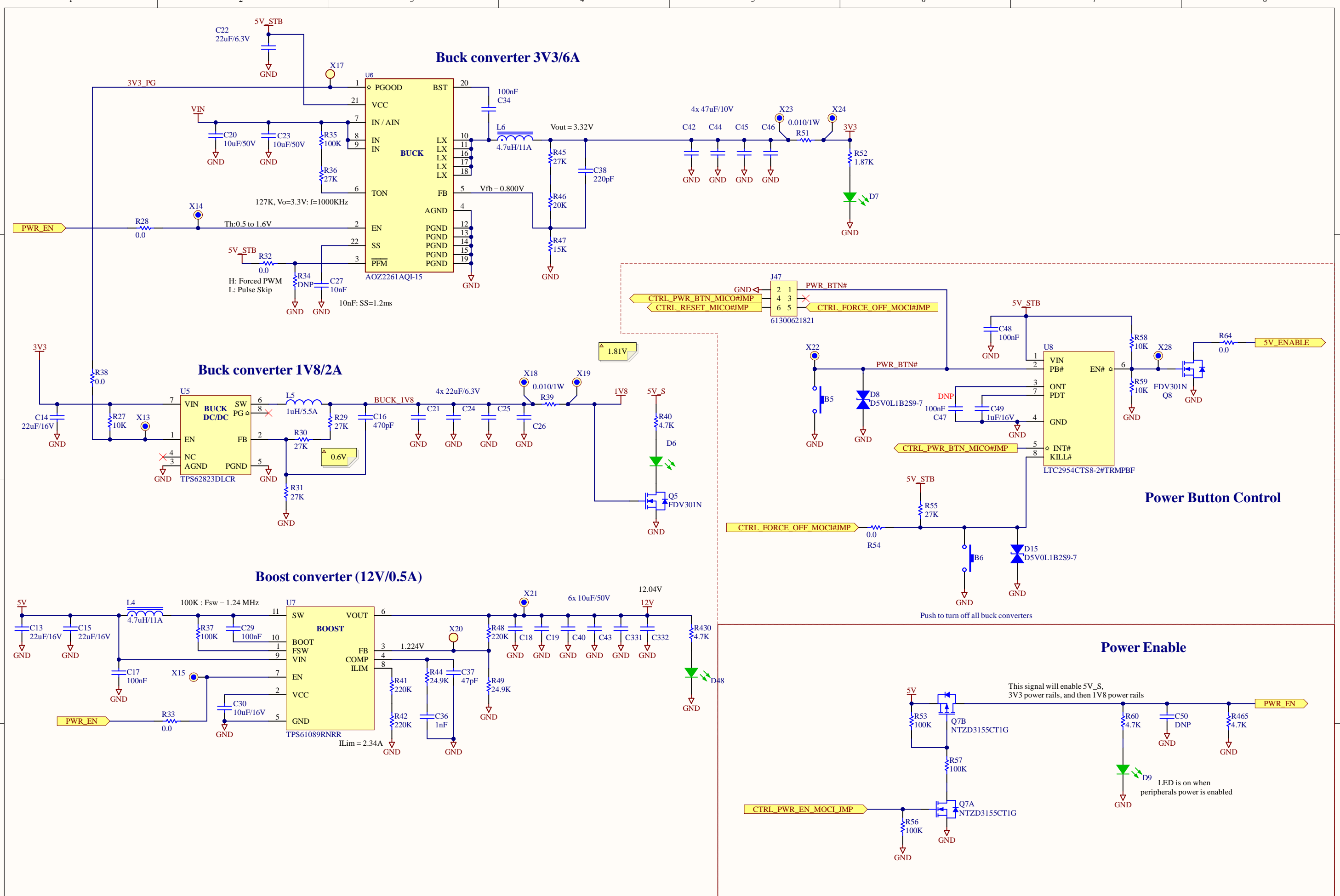


Power Out

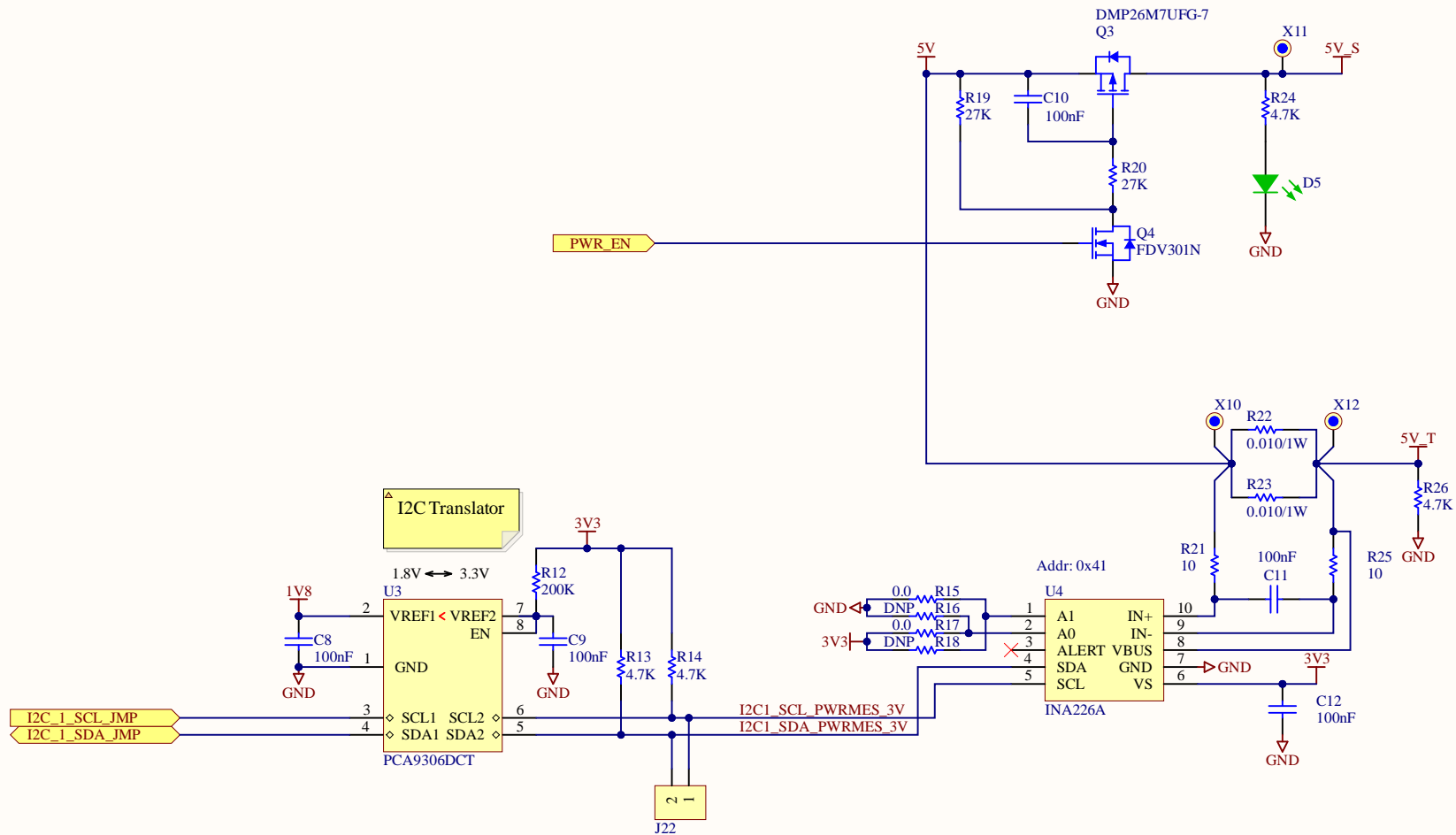


GND Test Points





Switched 5V



Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

Time: **20:45:14**

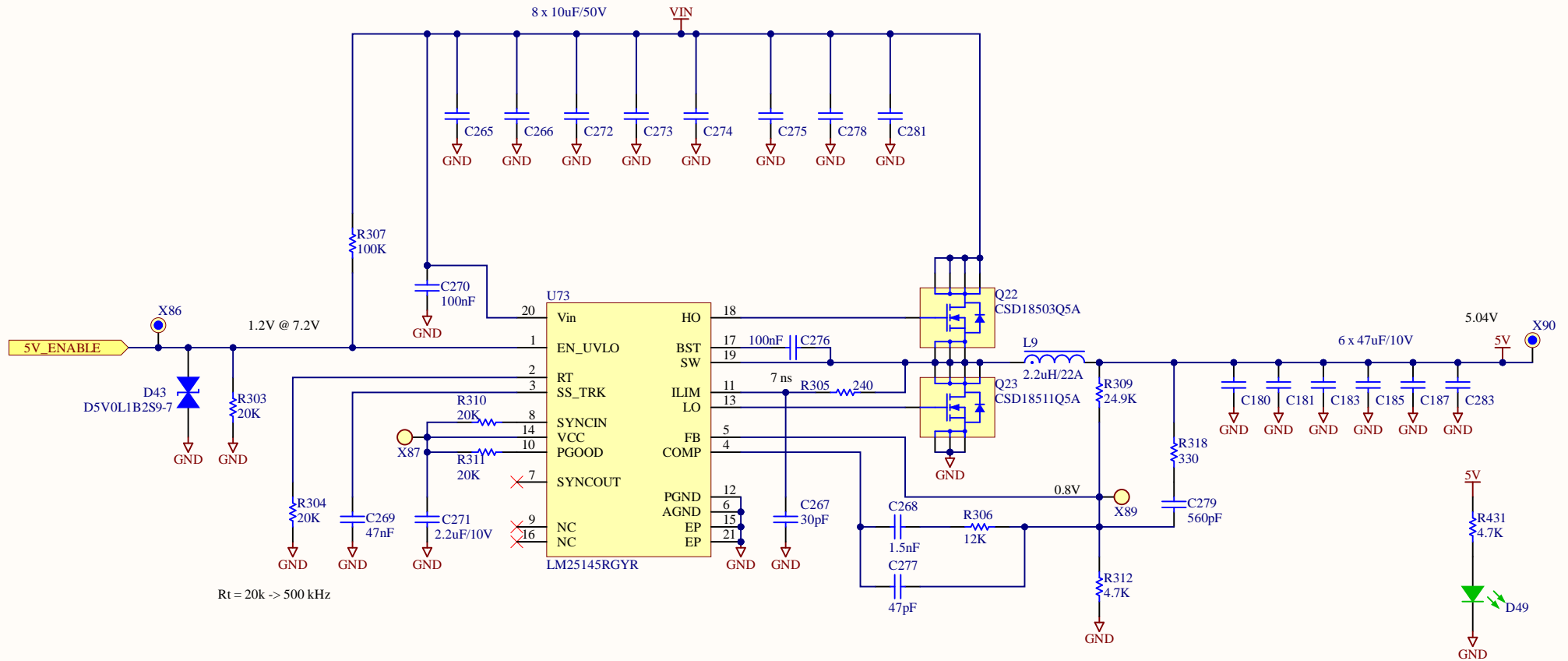
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File: **140_Power_3.SchDoc**

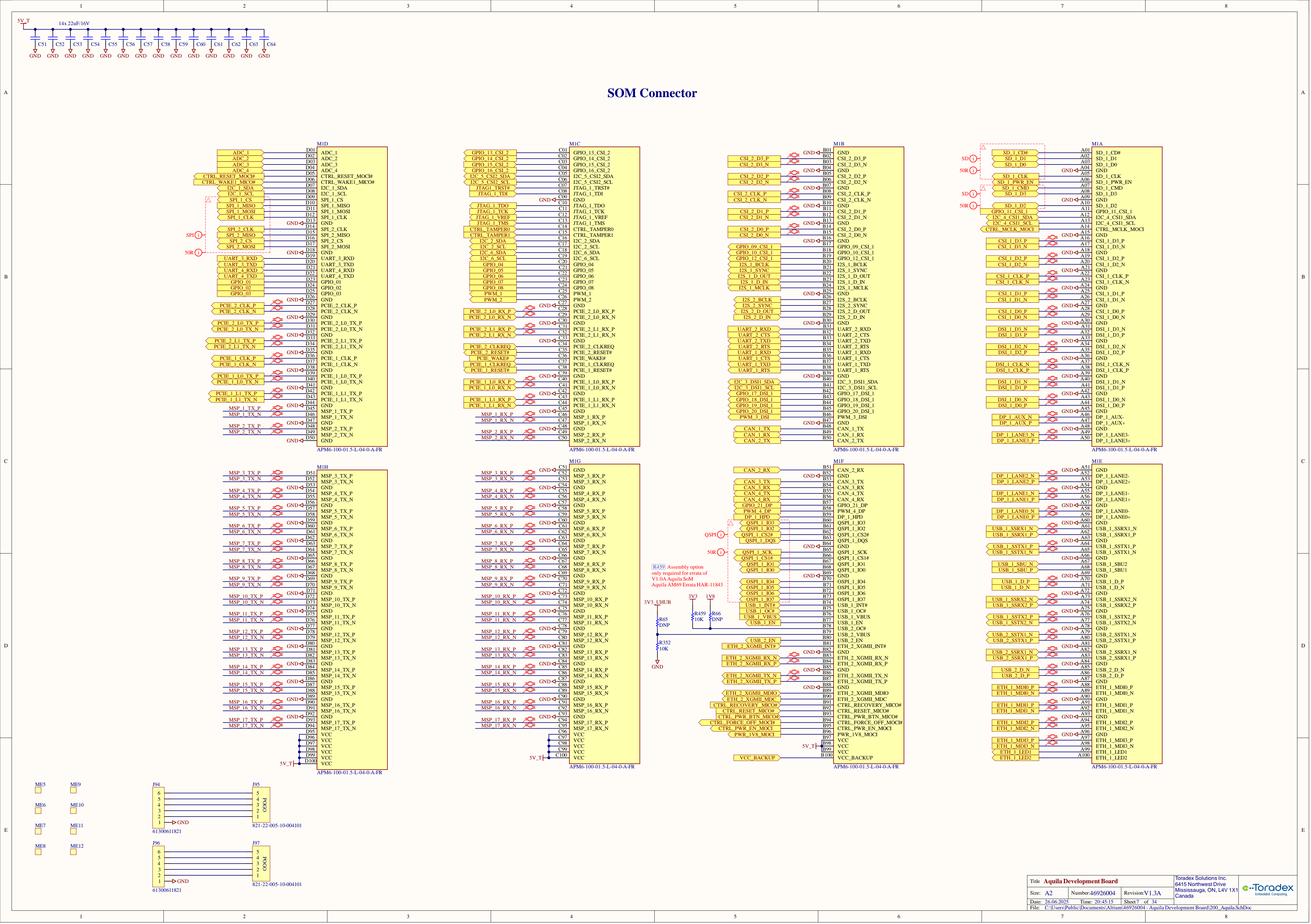
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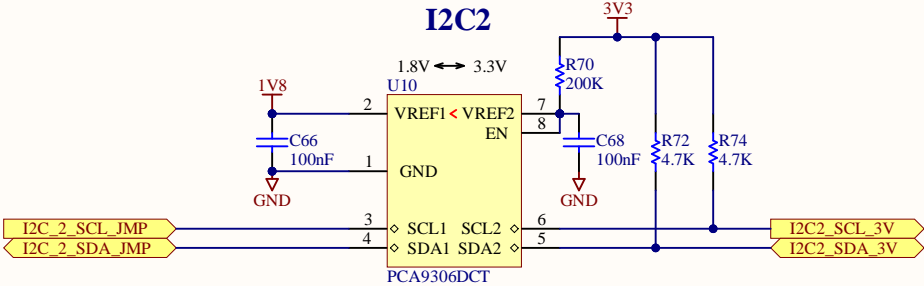
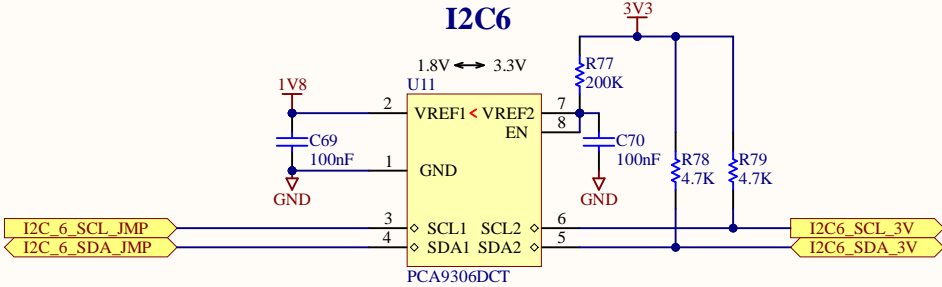
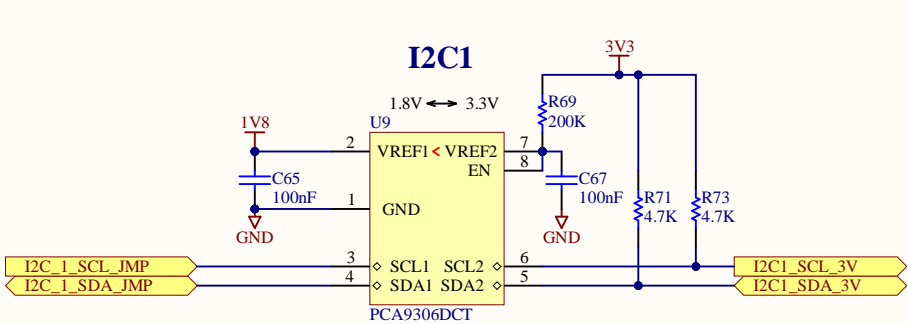
Step-Down DC/DC 5V/15A



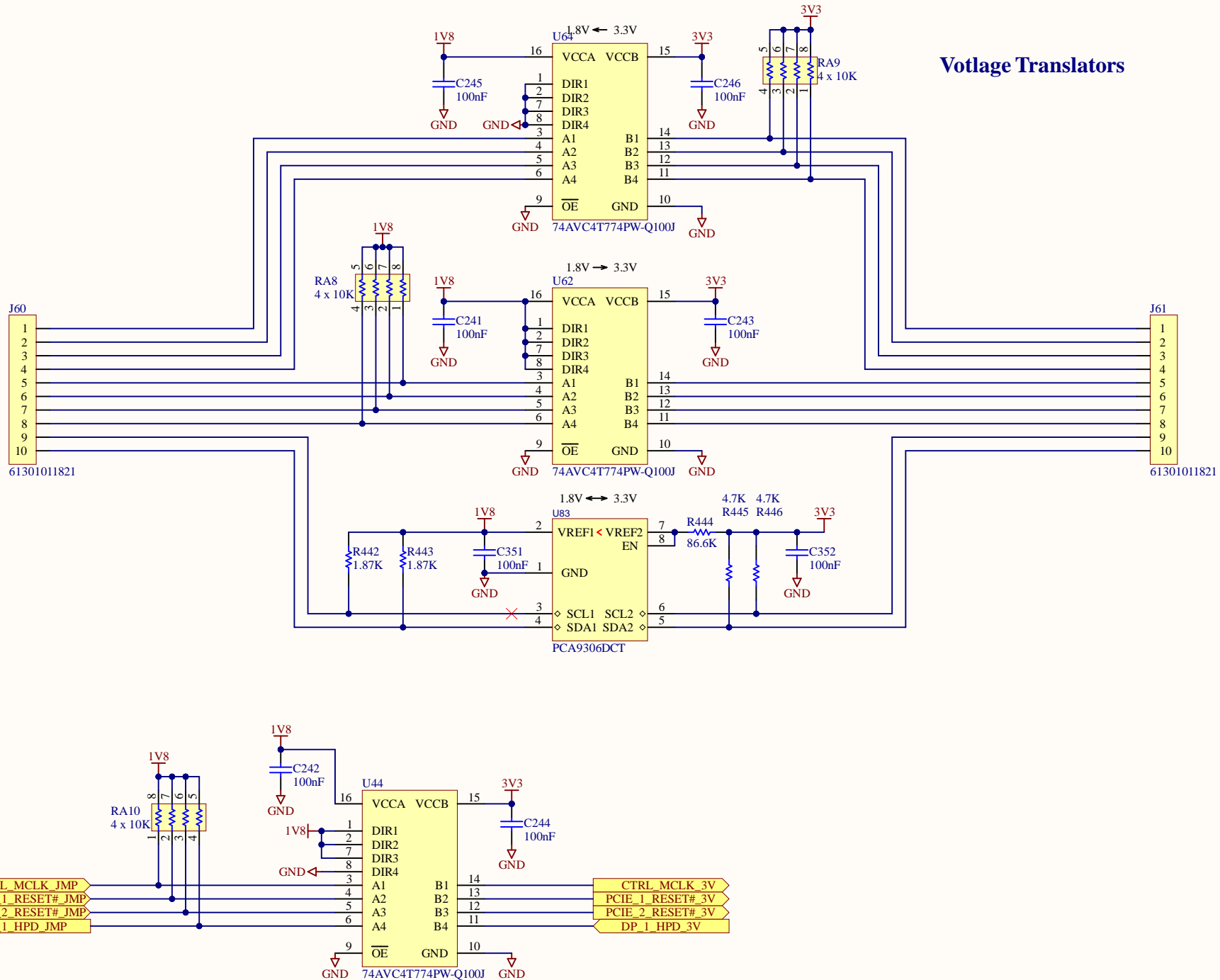
Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: Letter	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:14	Sheet 6 of 34		
File: 160_Power_4.SchDoc				



Votlage Translators



Voltage Translators



DIRx	Direction
0	A <=> B
1	A ==> B

Title **Aquila Development Board**

Size: Letter

Number: 46926004

Revision: V1.3A

Date: 26.06.2025

Time: 20:45:15

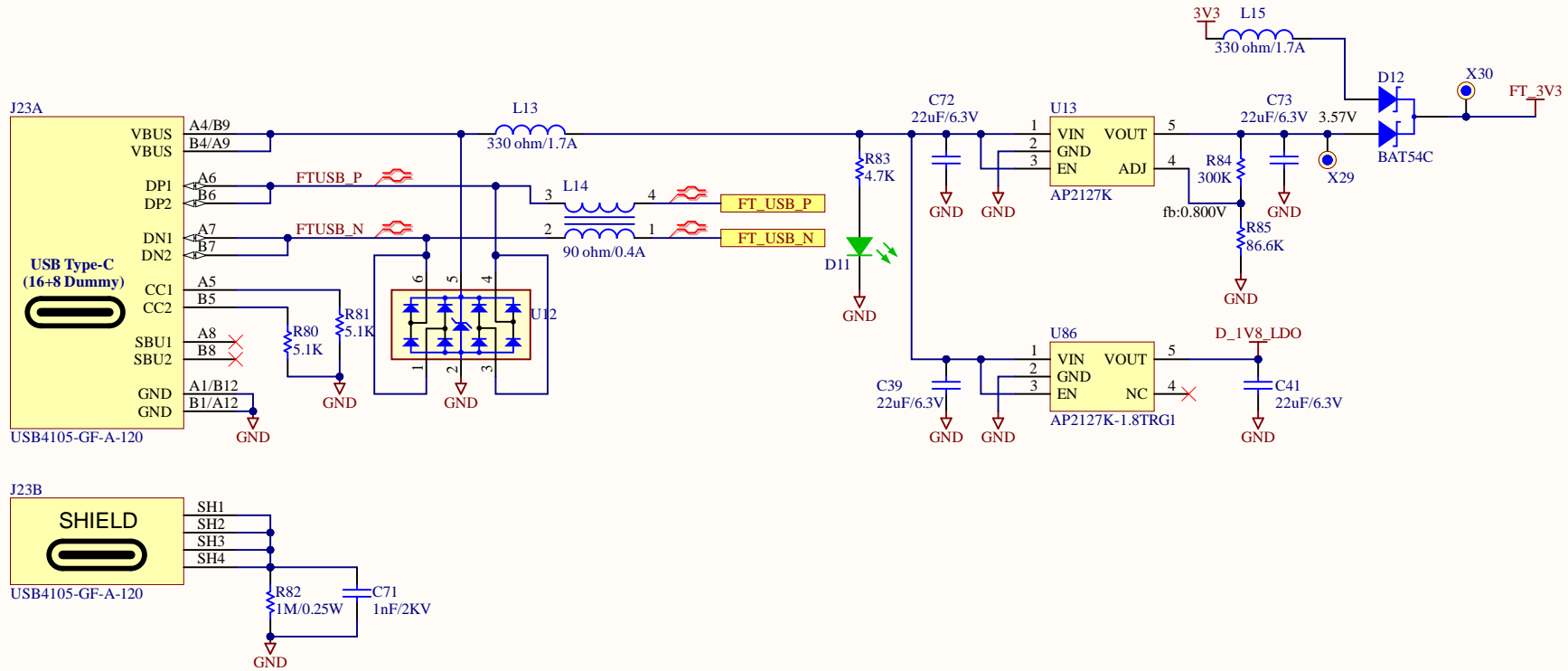
Sheet 9 of 34

File: 215_Translators2.SchDoc

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Debug Connection



Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

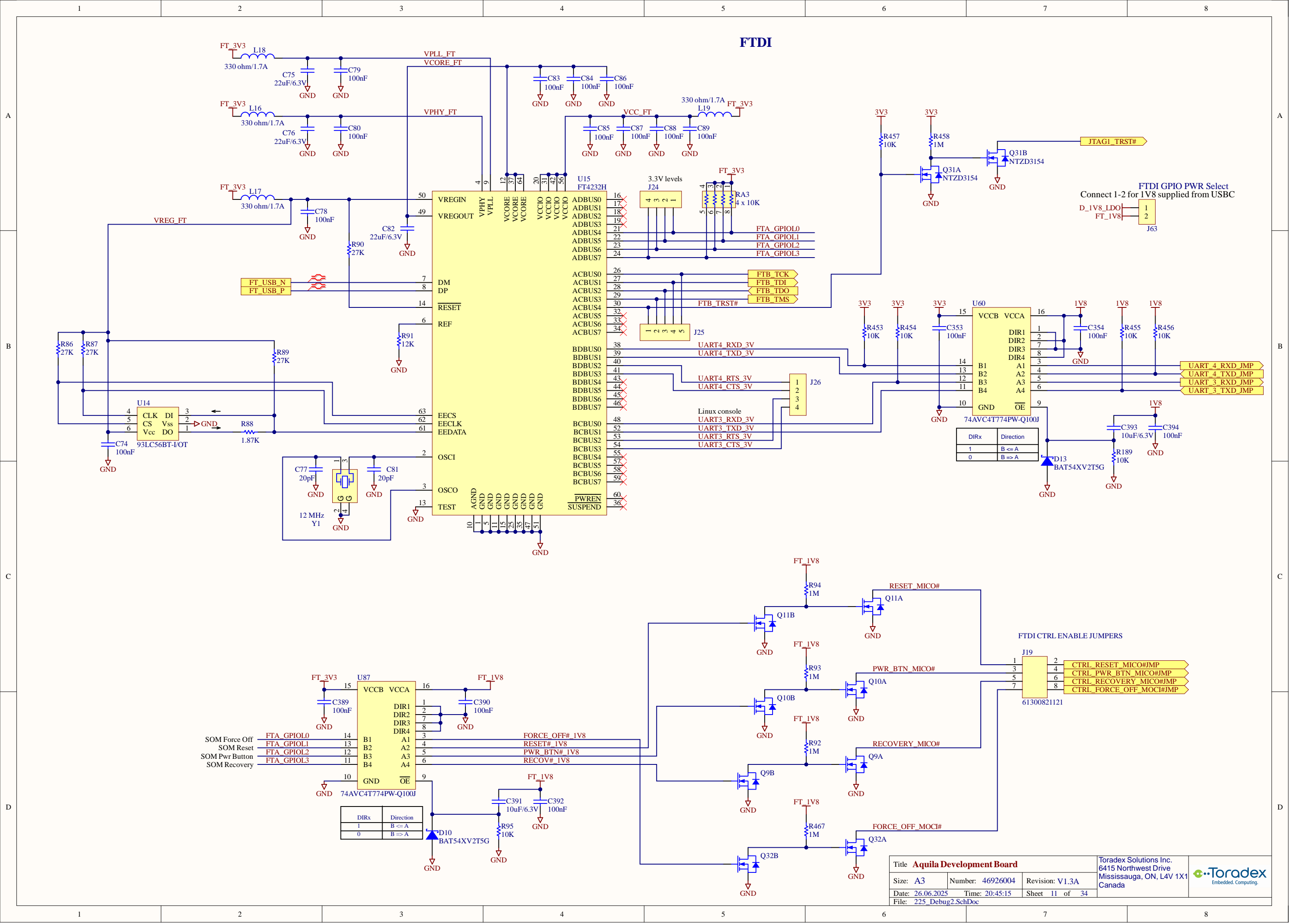
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Sheet **10** of **34**

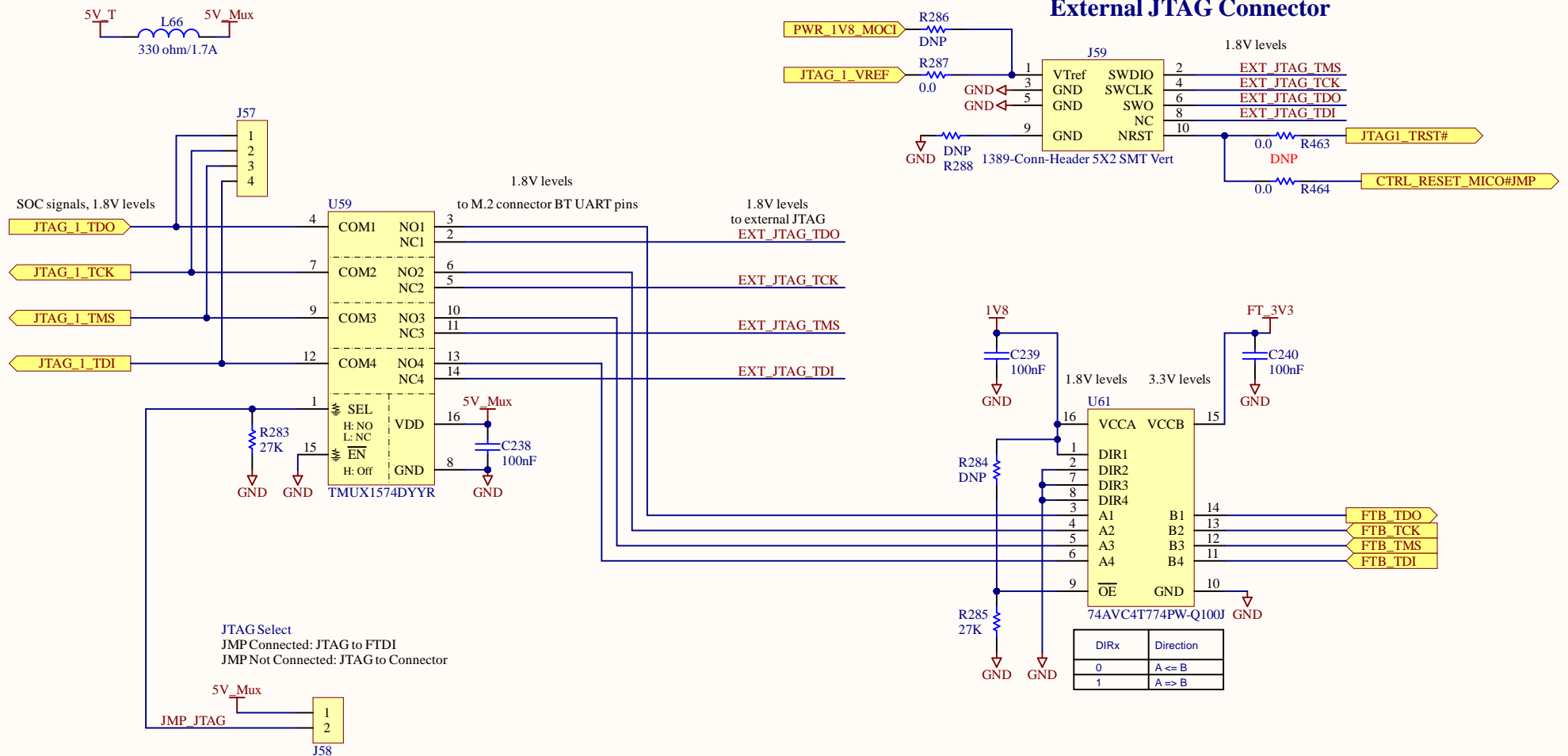
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JTAG



Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

Time: **20:45:16**

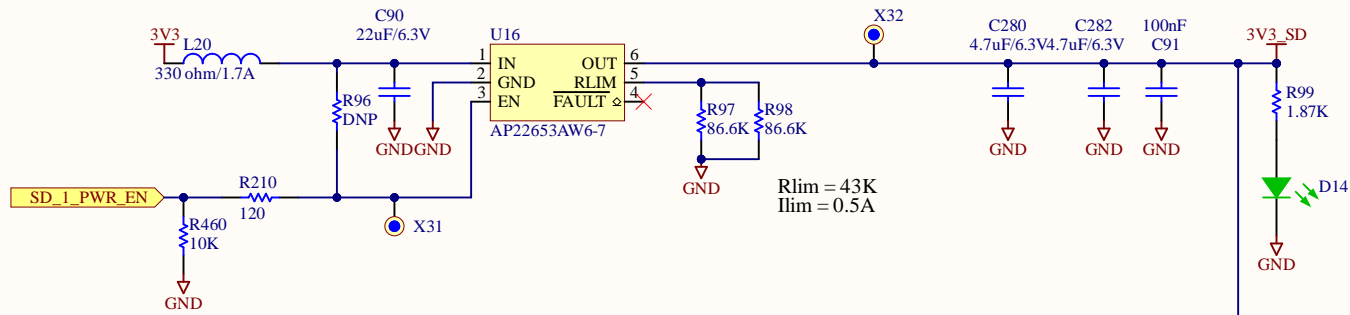
Sheet **12** of **34**

File: **227_JTAG.SchDoc**

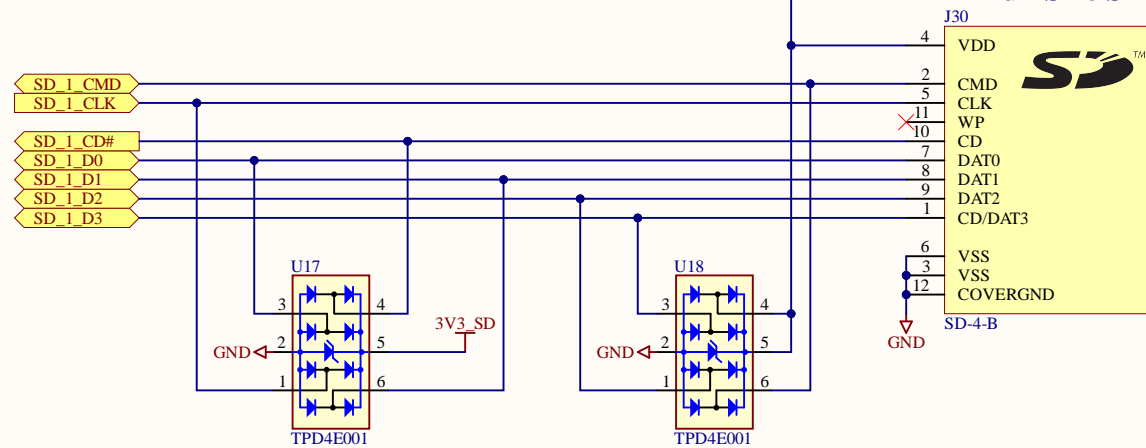
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SD Card

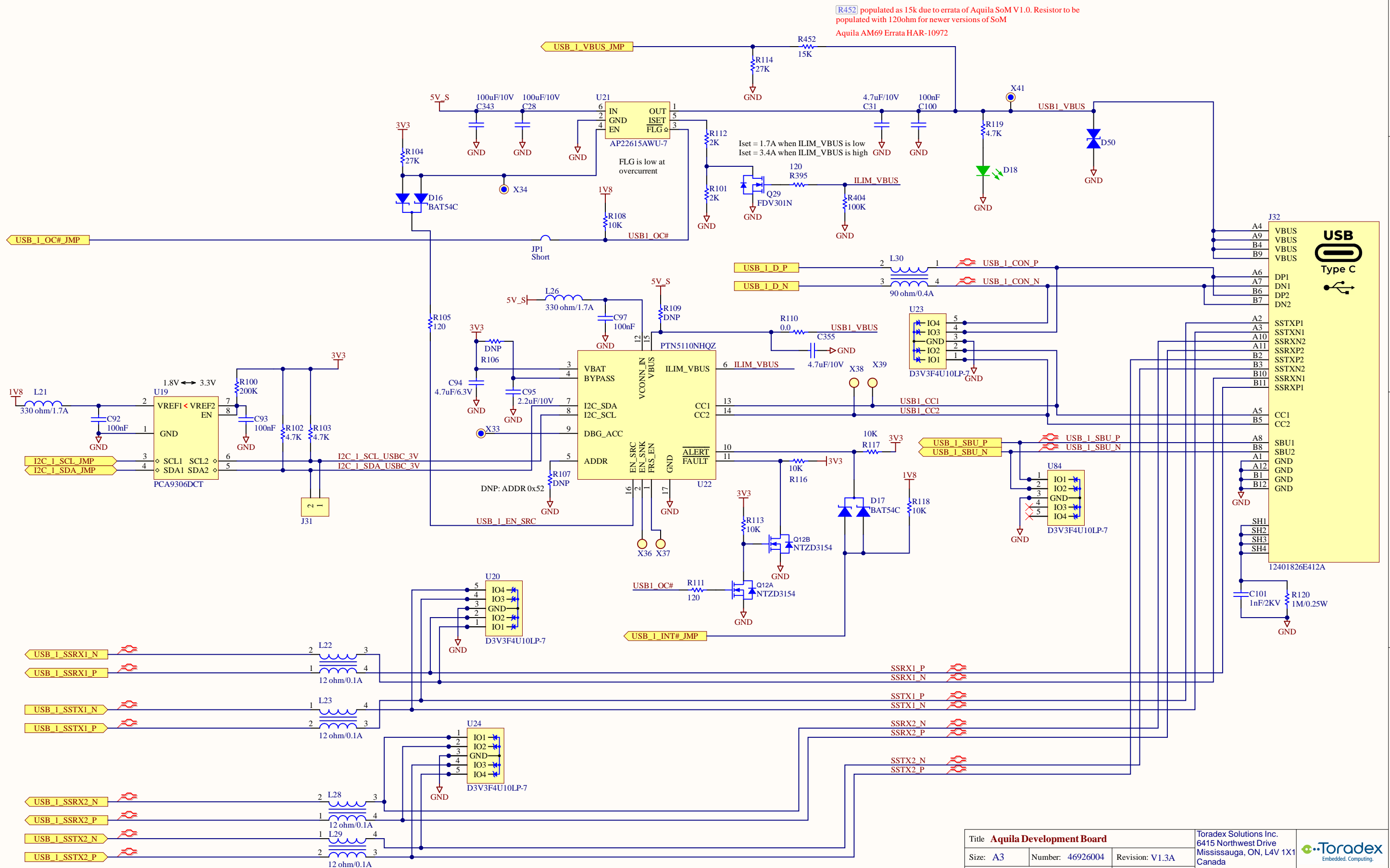



Full Size SD



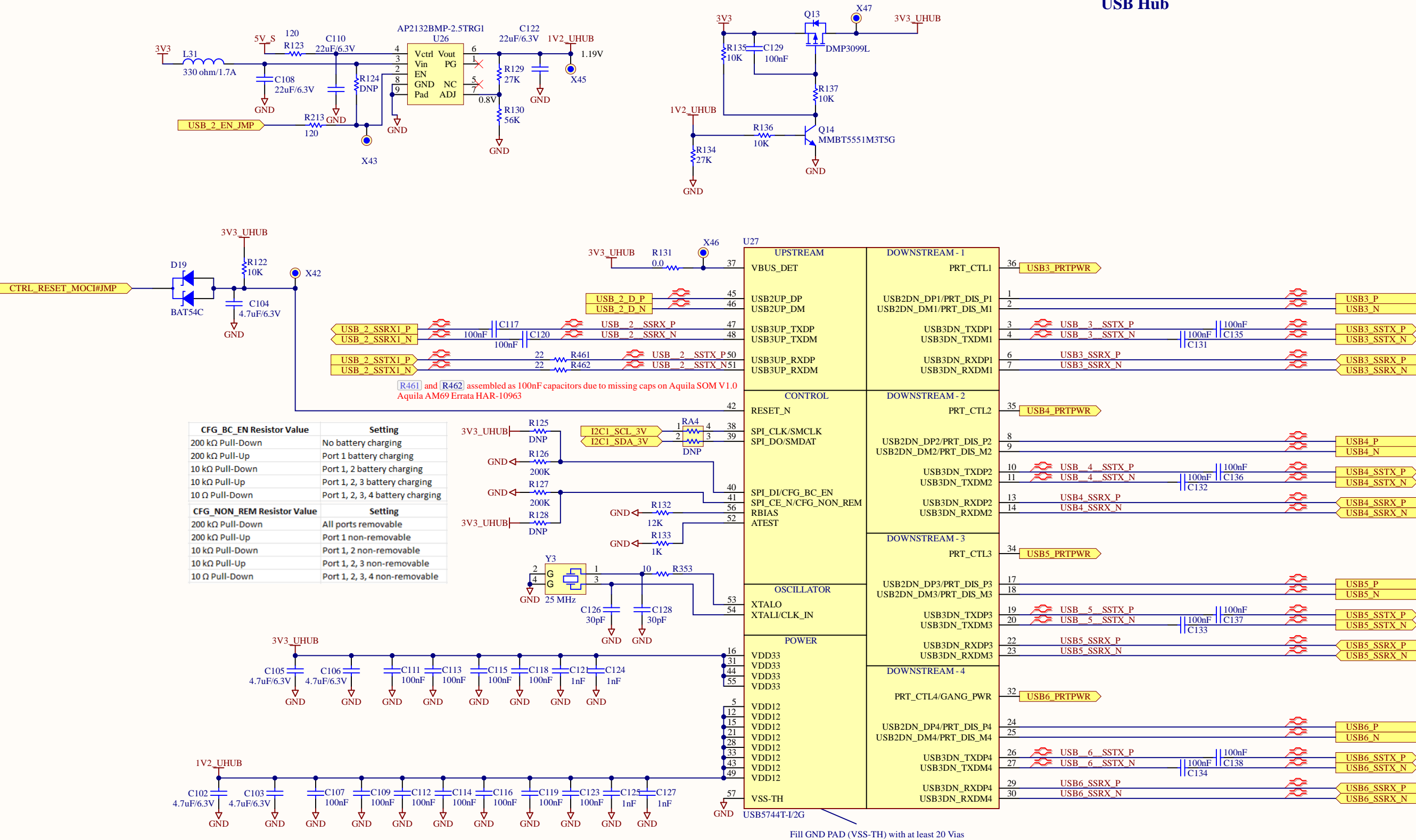
Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: Letter	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:16	Sheet 13 of 34		
File: 230_SD_Card.SchDoc				

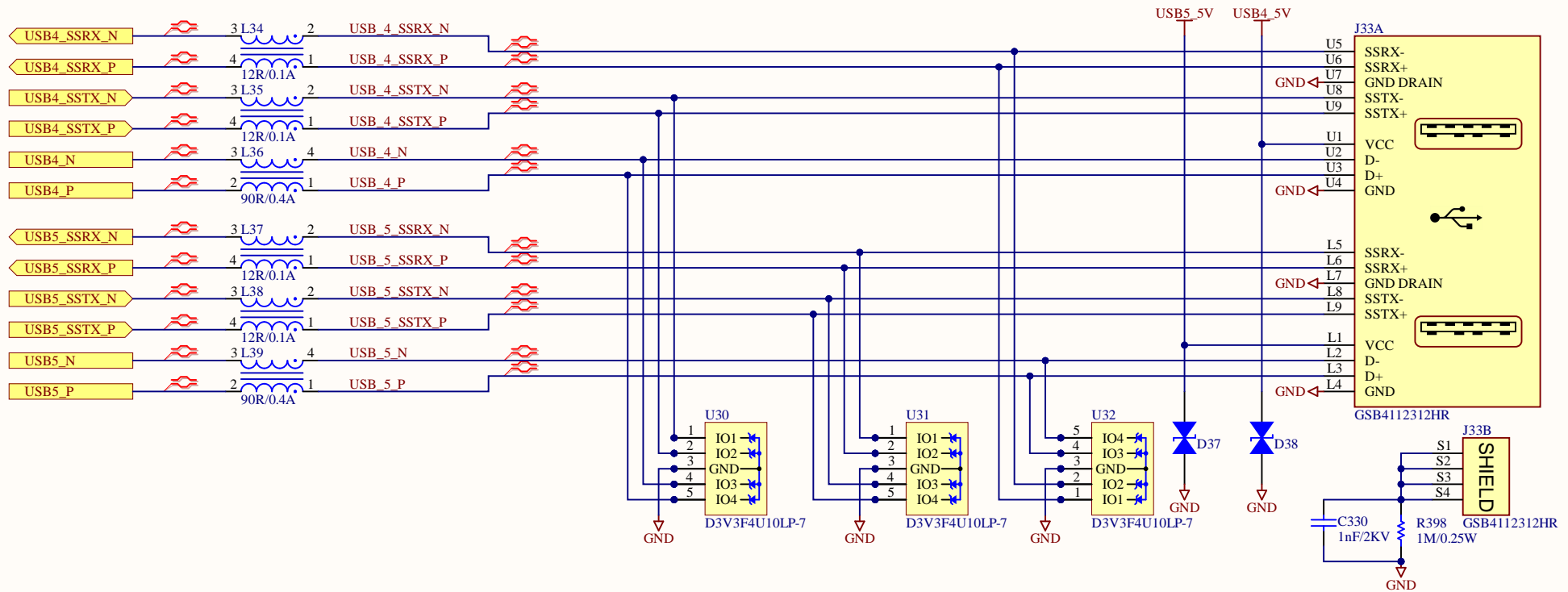
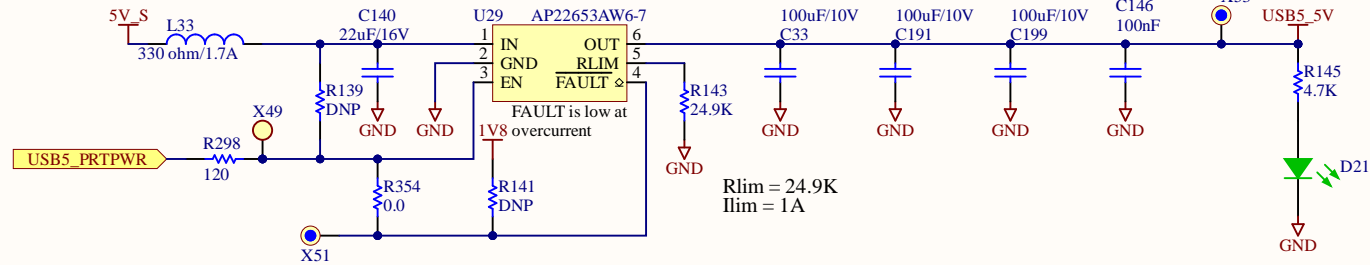
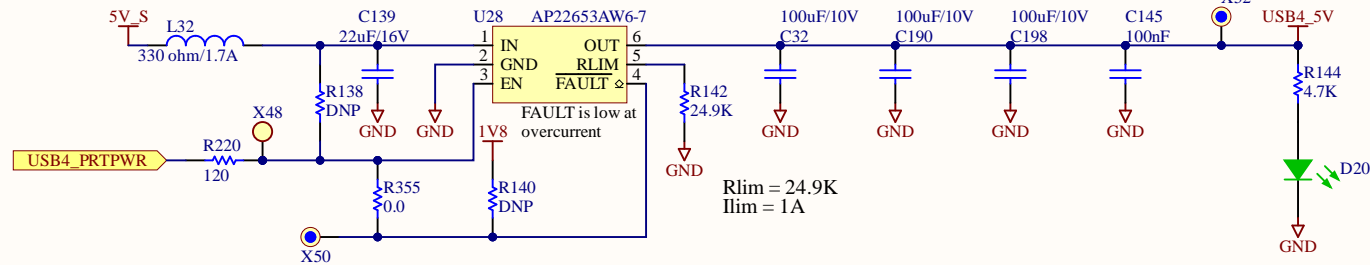
USB OTG



Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: A3	Number: 46926004	Revision: V1.3A		
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File: 300_USB1_OTG.SchDoc				

USB Hub





Title **Aquila Development Board**

Size: Letter

Number: 46926004

Revision: V1.3A

Date: 26.06.2025

Time: 20:45:16

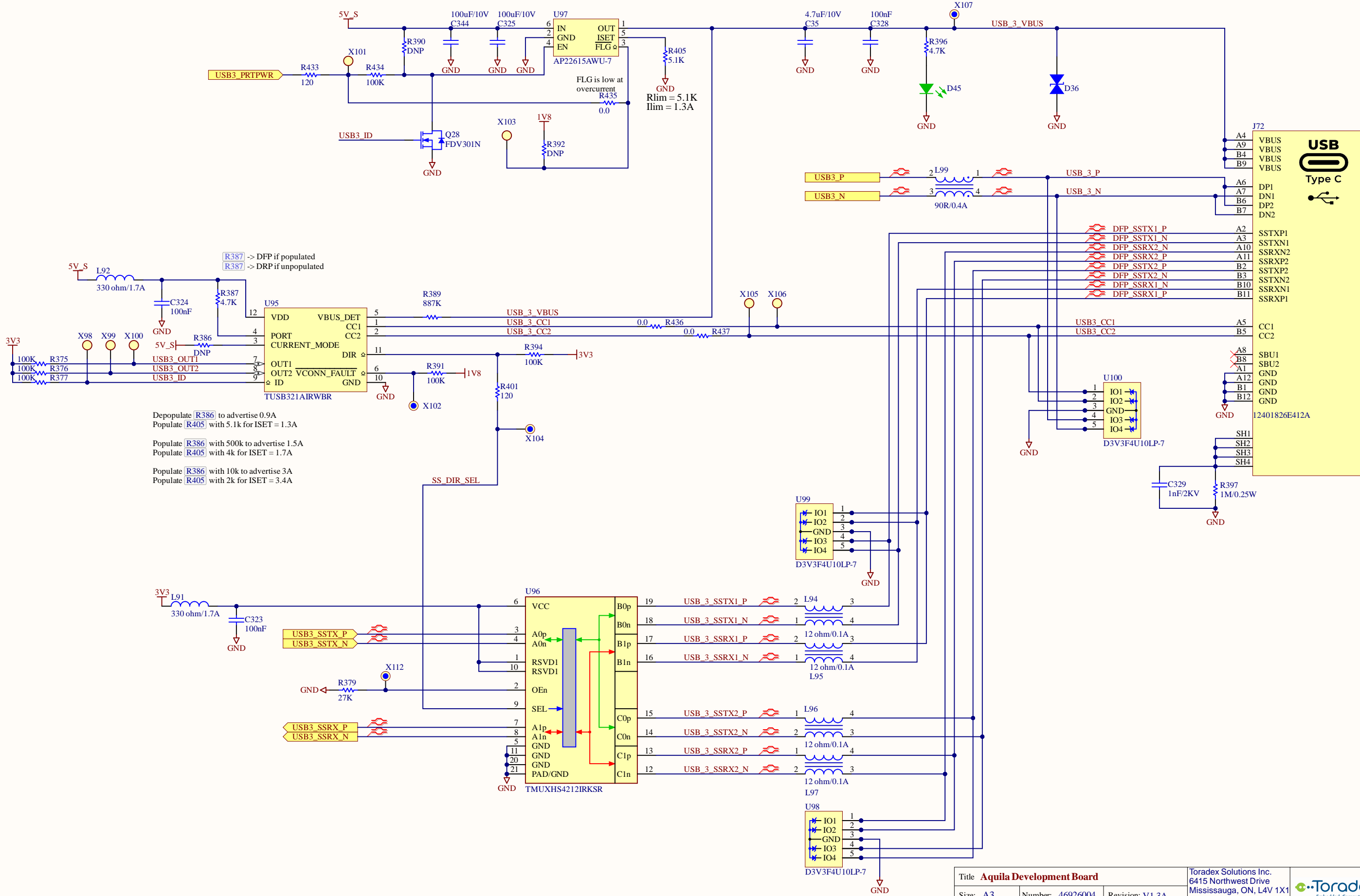
Sheet 16 of 34


File: 310_USB3.SchDoc

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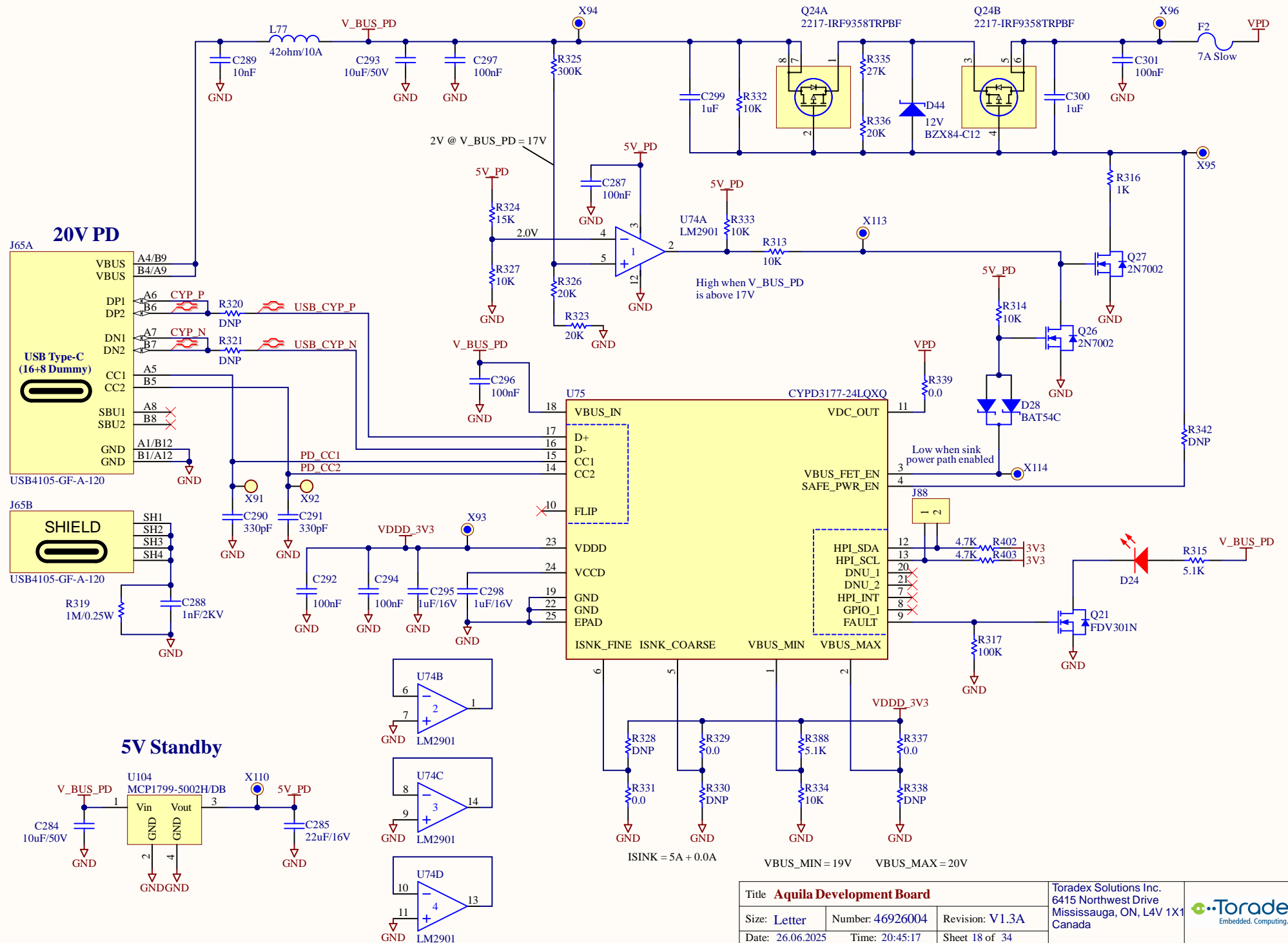



USB-C DFP



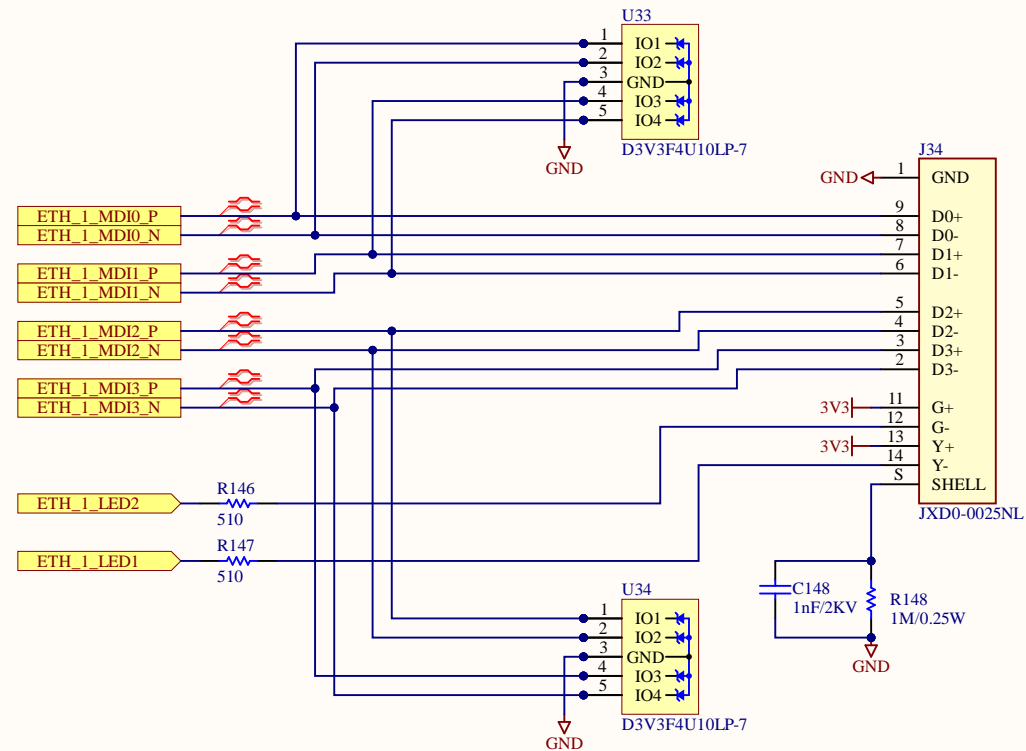
Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: A3	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:17	Sheet 17 of 34		
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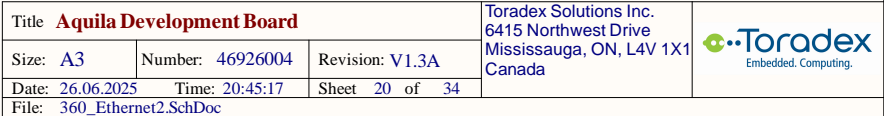
USB-C Power Delivery



Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: Letter	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:17	Sheet 18 of 34		
File: 325_USB_PowerDelivery,SchDoc				

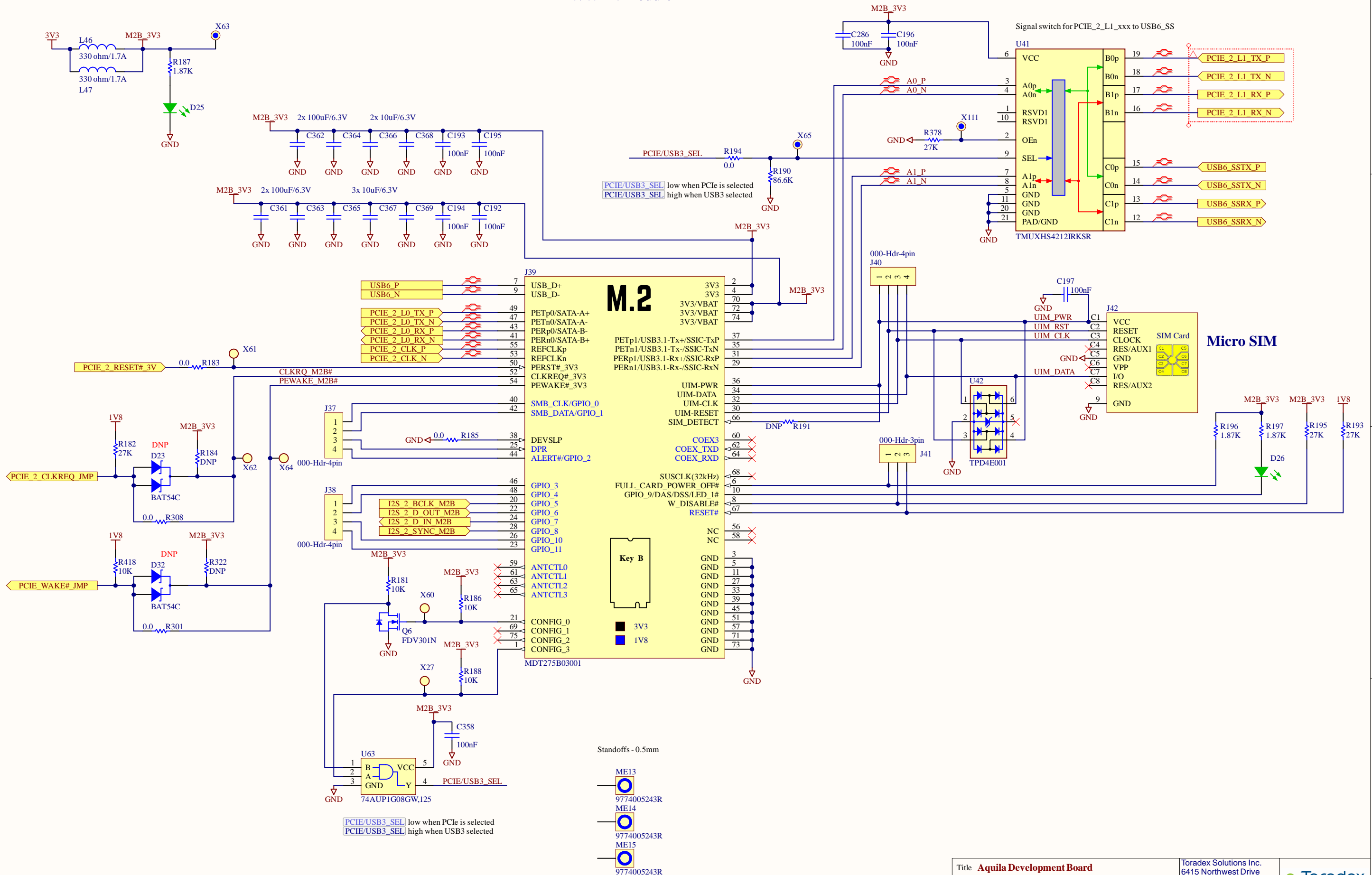
GBit Ethernet 1






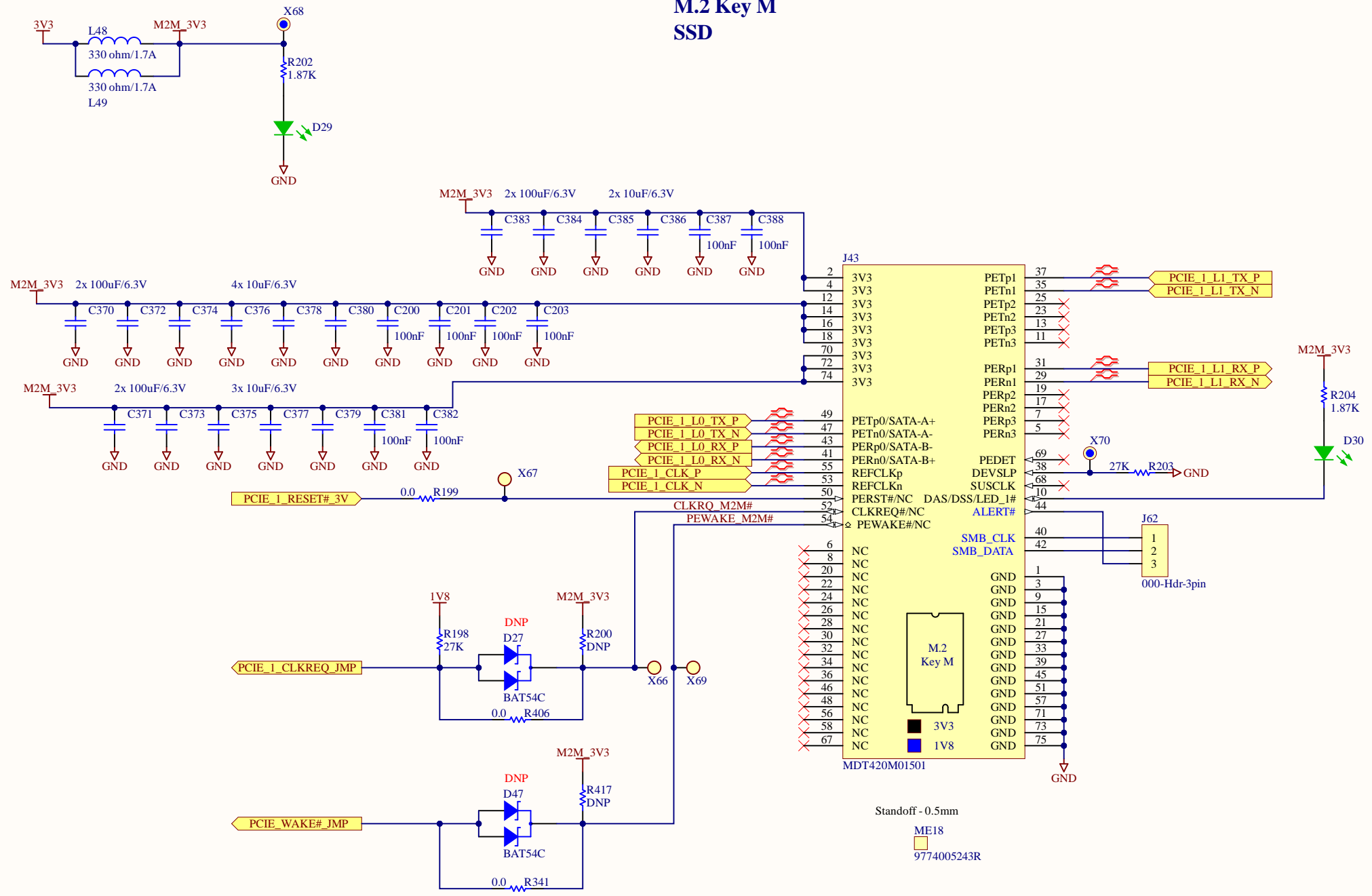
M.2 Key B

WWAN Module



Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada	 Embedded. Computing.
Size: A3	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:17	Sheet 21 of 34		
File: 400_M2_KeyB.SchDoc				

M.2 Key M SSD



Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

Time: **20:45:18**

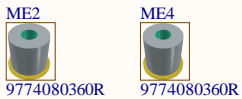
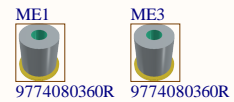
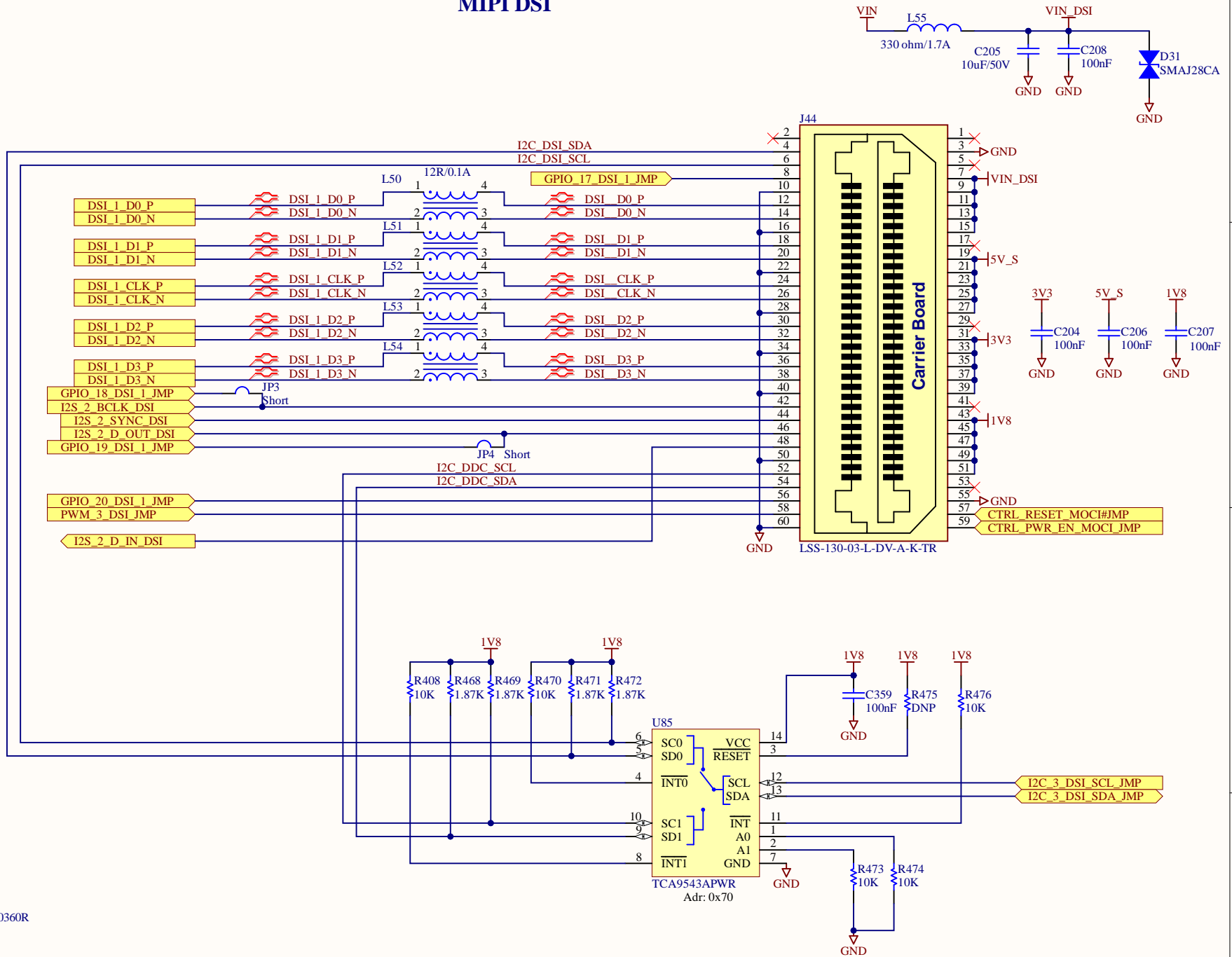
Sheet **22 of 34**

File: **410_M2_KeyM.SchDoc**

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MIPI DSI



Title **Aquila Development Board**

Size: **Letter**

Number: **46926004**

Revision: **V1.3A**

Date: **26.06.2025**

Time: **20:45:18**

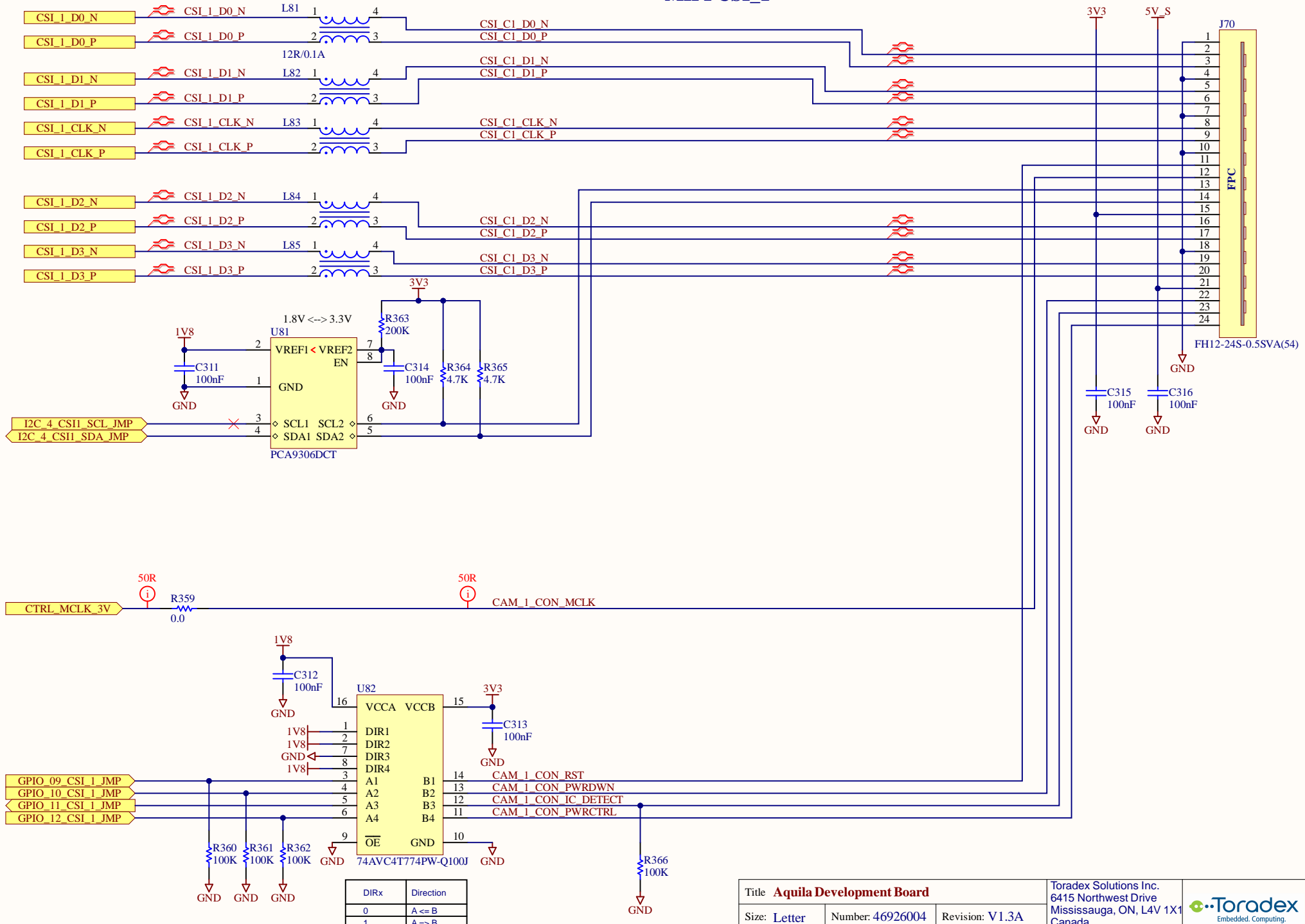
Sheet **23** of **34**

File: **420_MIPI_DSI.SchDoc**

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MIPI CSI_1



Title **Aquila Development Board**

Size: Letter

Number: 46926004

Revision: V1.3A

Date: 26.06.2025

Time: 20:45:18

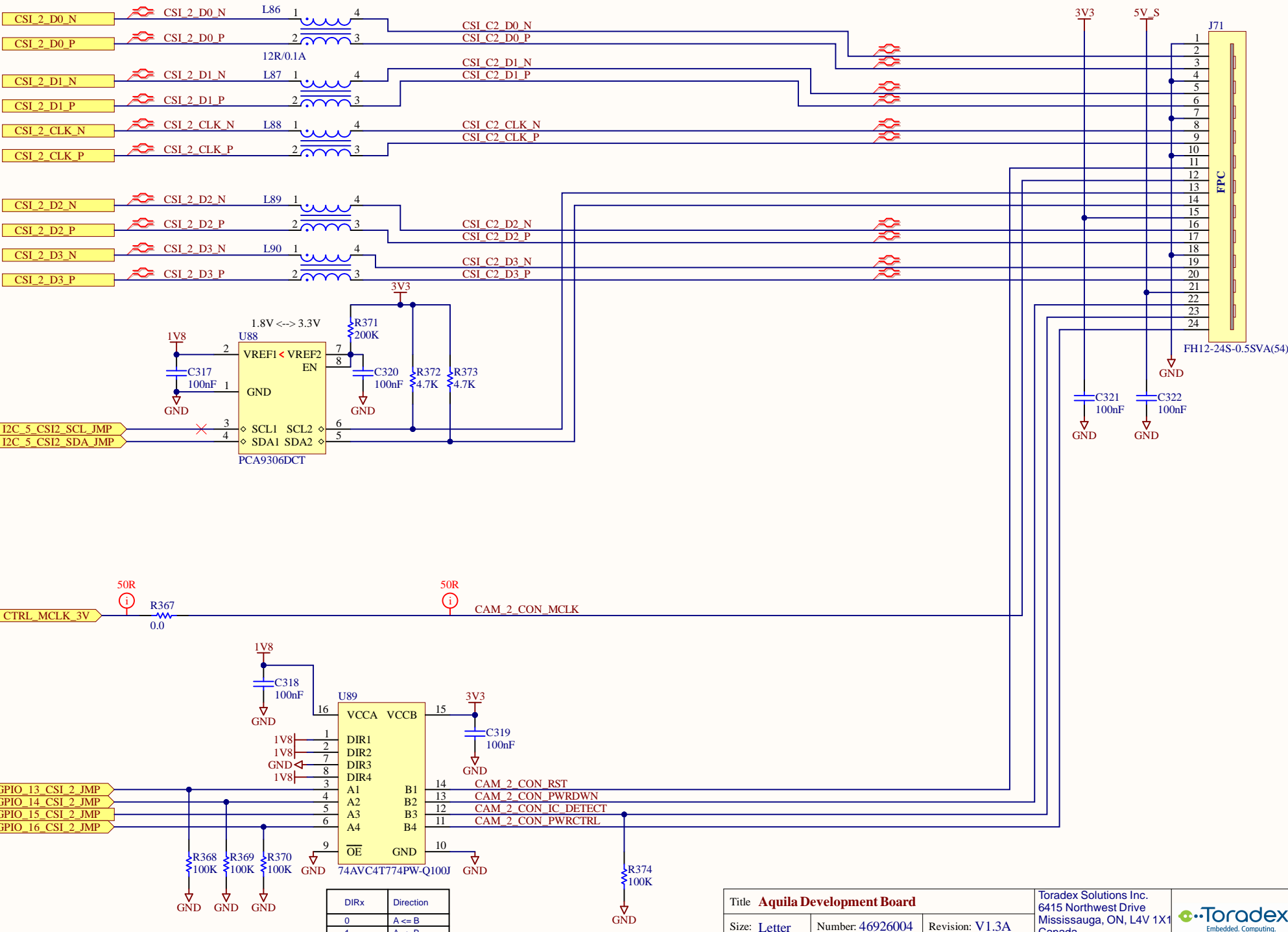
Sheet 24 of 34

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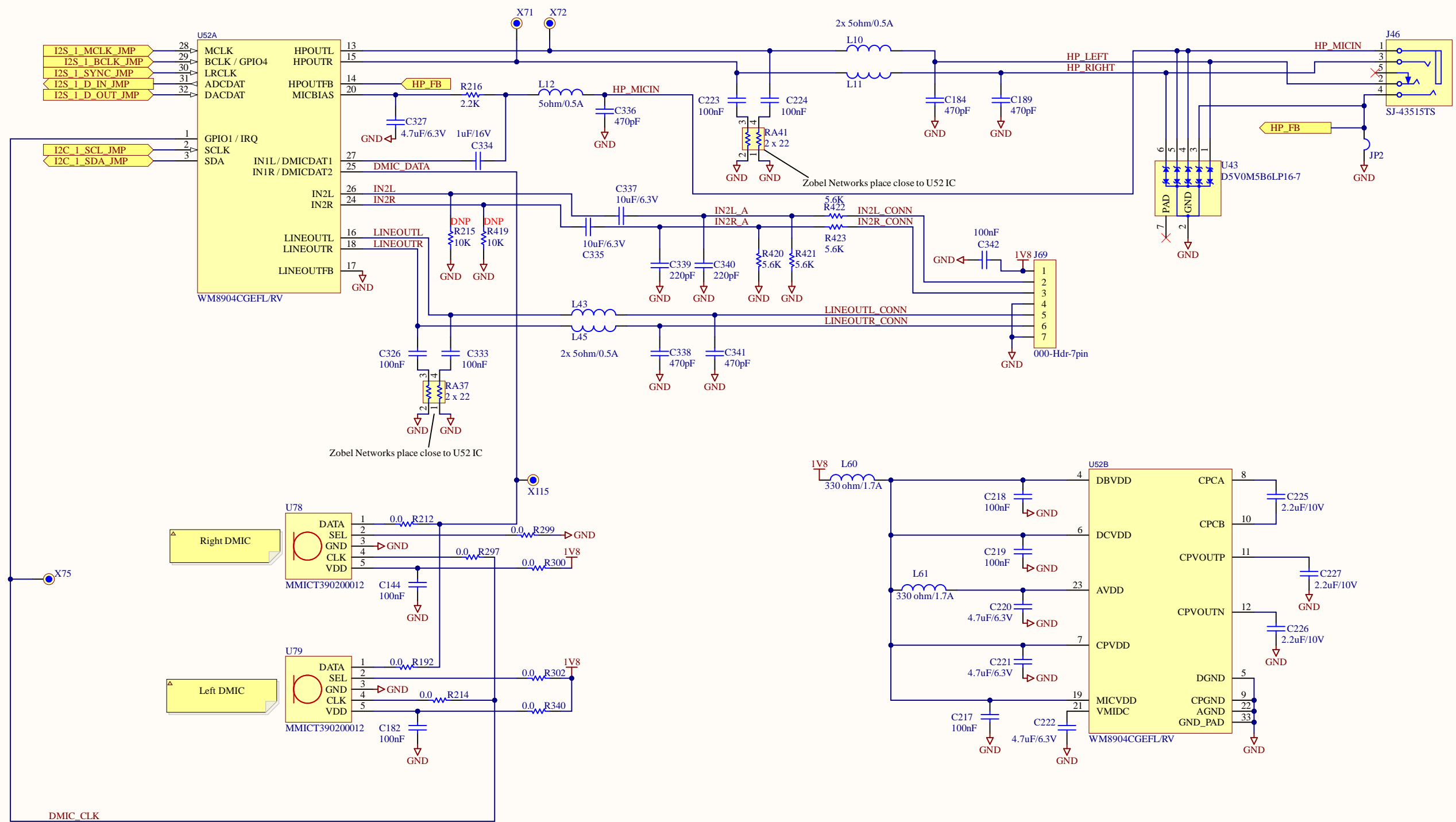


MIPI CSI_2



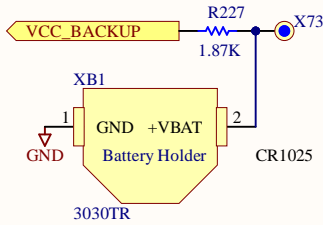
DIRx	Direction
0	A <= B
1	A >= B

Audio Codec

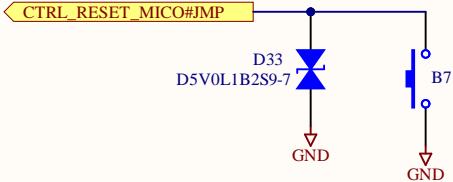


Peripherals

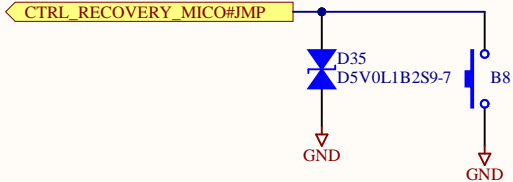
RTC Battery Holder



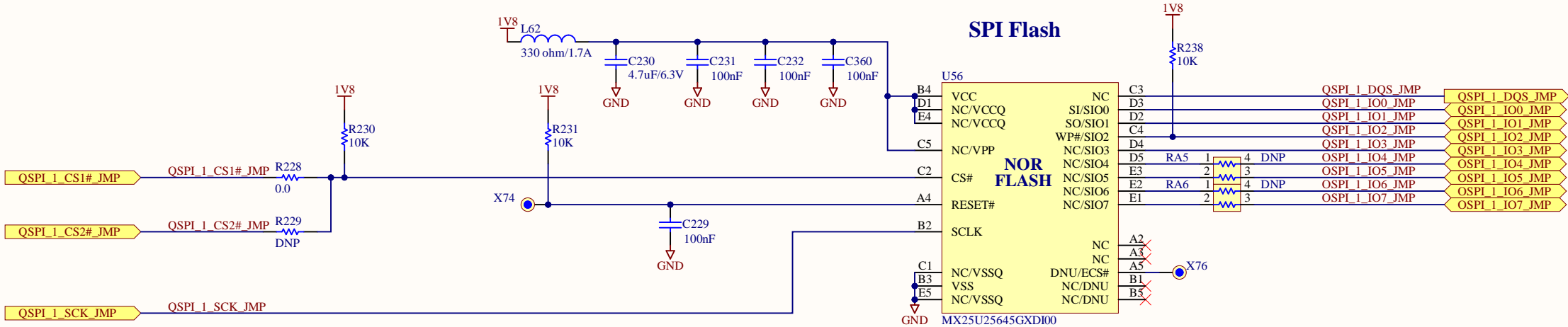
Reset Button



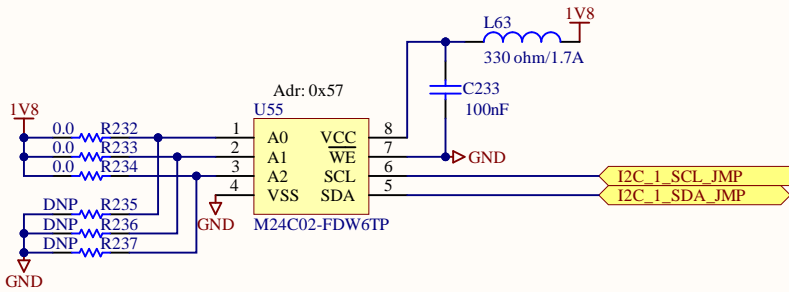
Recovery Button



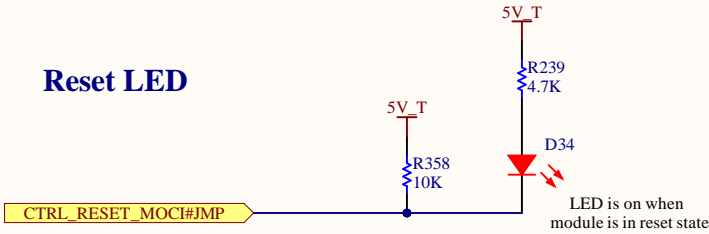
SPI Flash



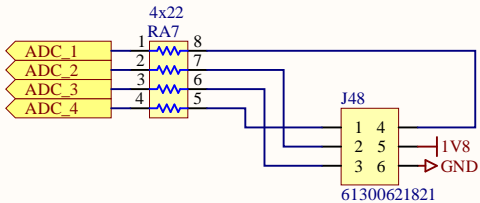
EEPROM 256B



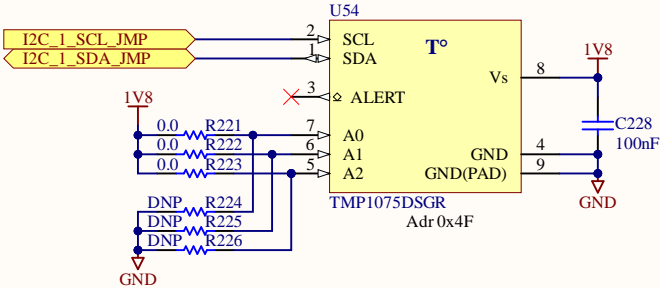
Reset LED



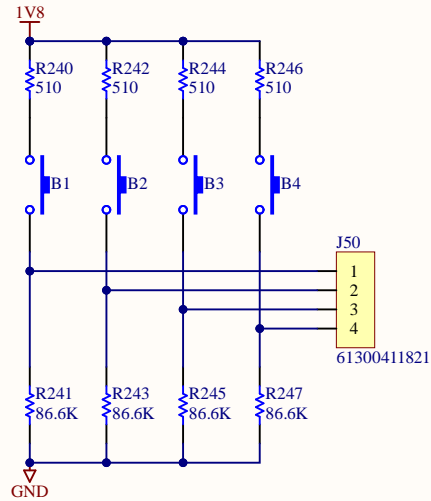
ADC



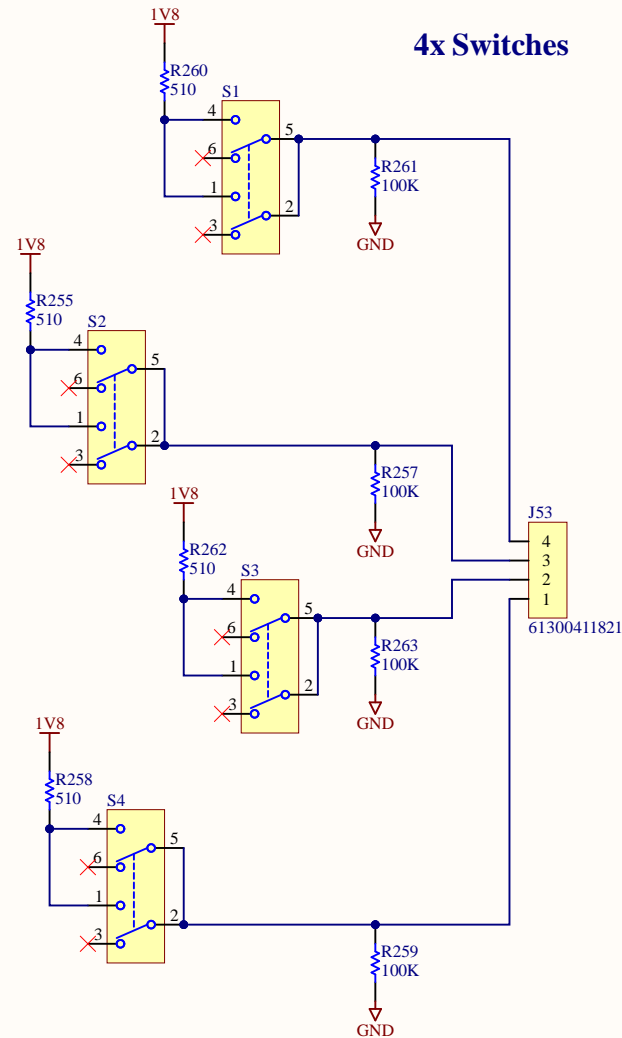
Temp Sensor



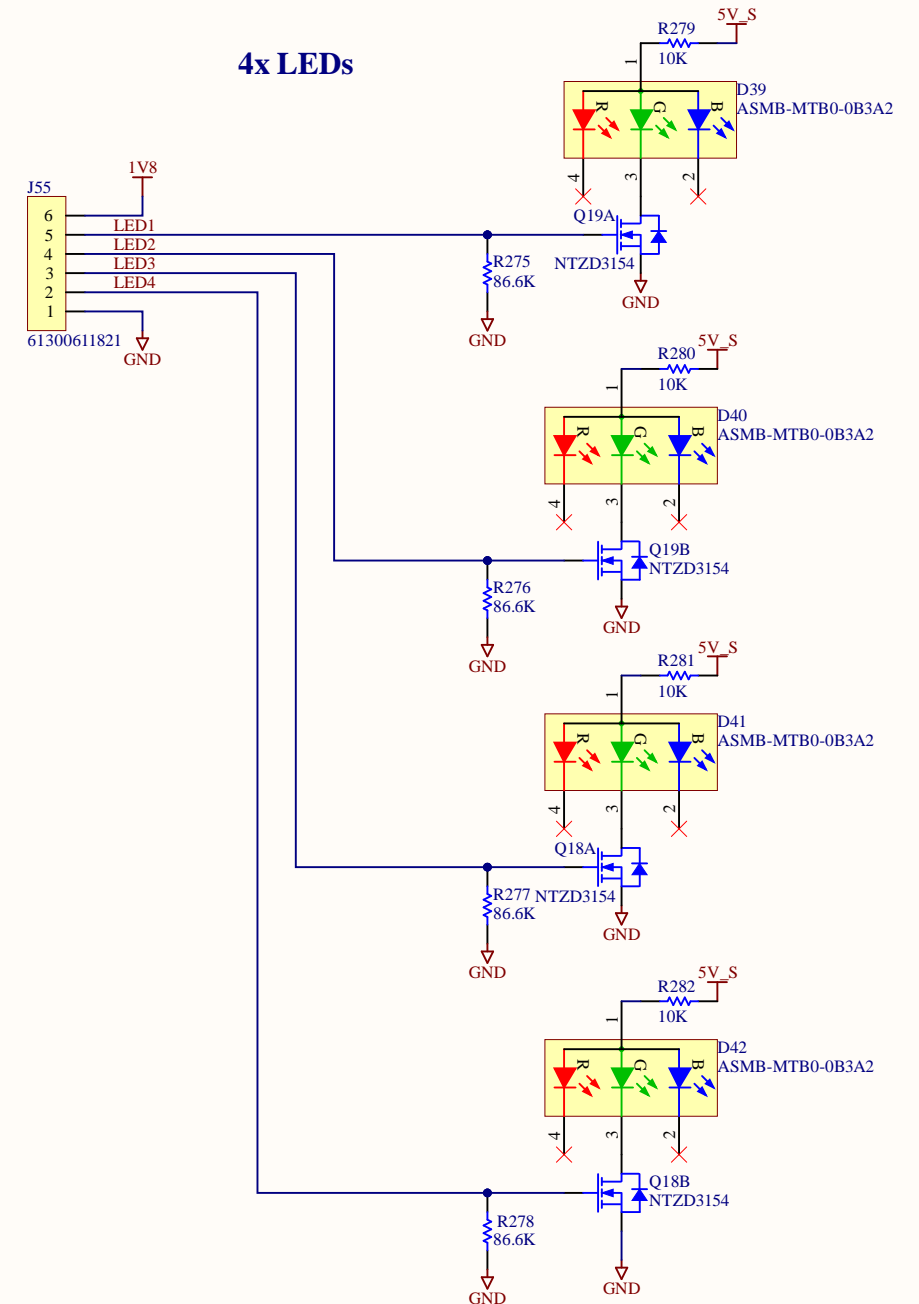
4x Push Buttons



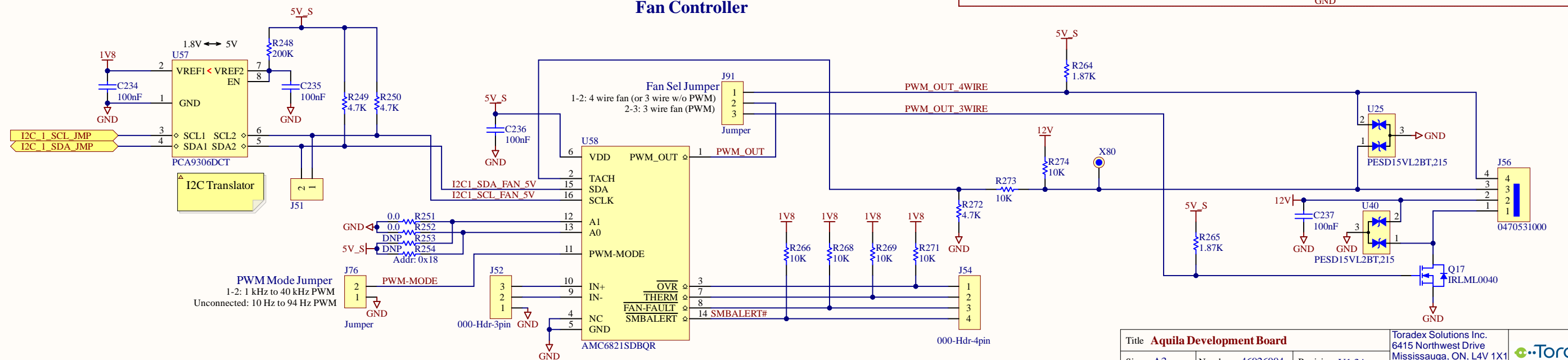
4x Switches




4x LEDs

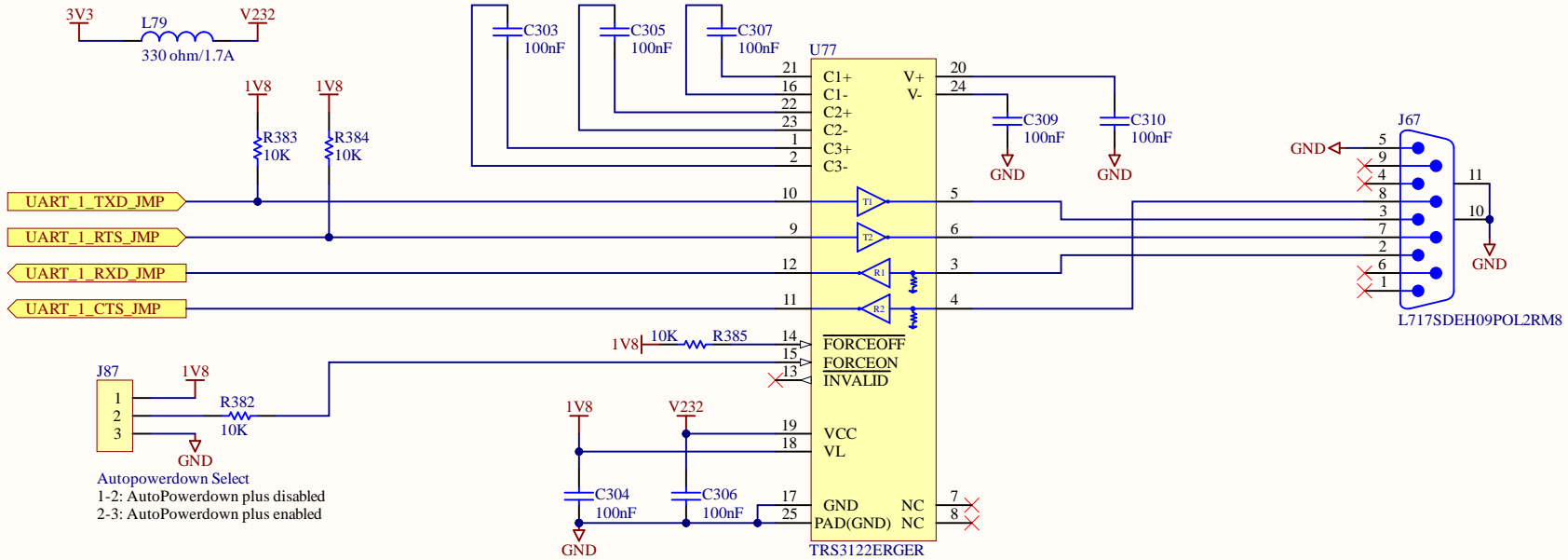


Fan Controller

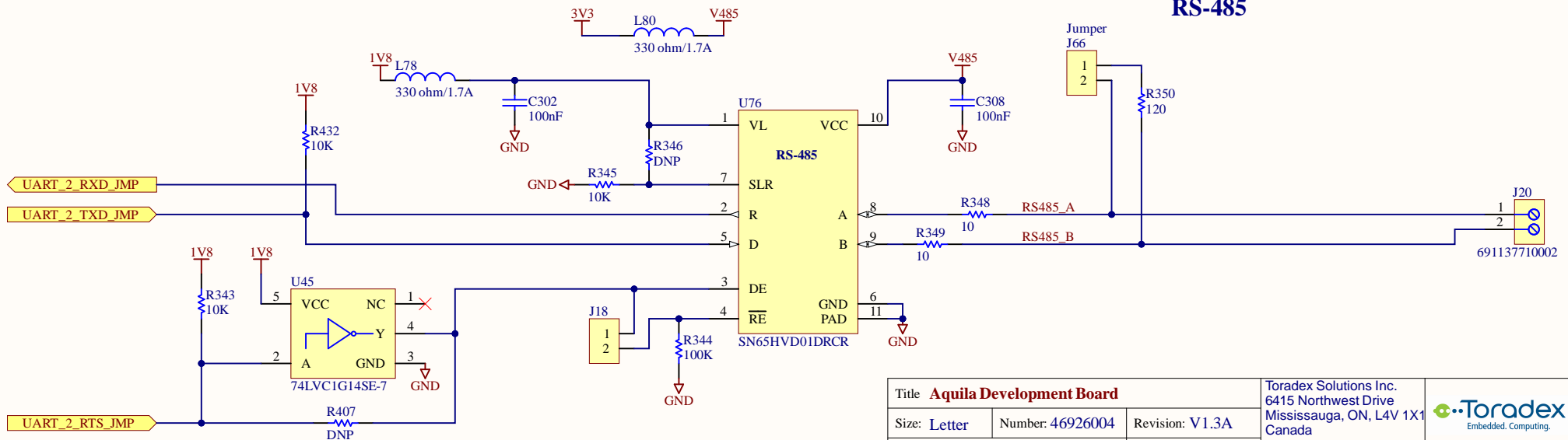


Title Aquila Development Board			Toradex Solutions Inc. 6415 Northwest Drive Mississauga, ON, L4V 1X1 Canada		
Size: A3	Number: 46926004	Revision: V1.3A			
Date: 26.06.2025	Time: 20:45:19	Sheet 30 of 34			
File: 620_Peripherals2.SchDoc					

RS-232



RS-485



Title **Aquila Development Board**

Size: Letter

Number: 46926004

Revision: V1.3A

Date: 26.06.2025

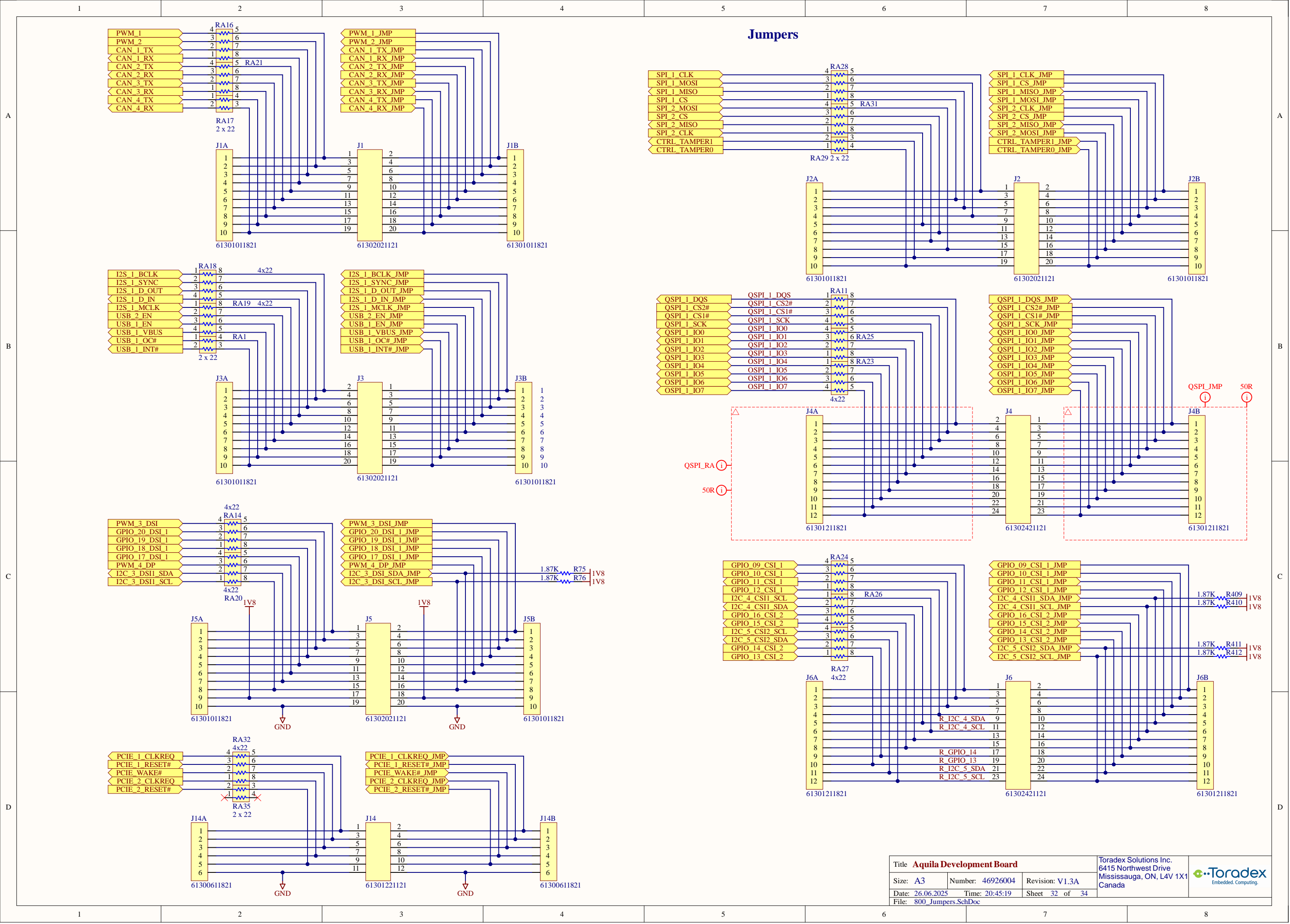
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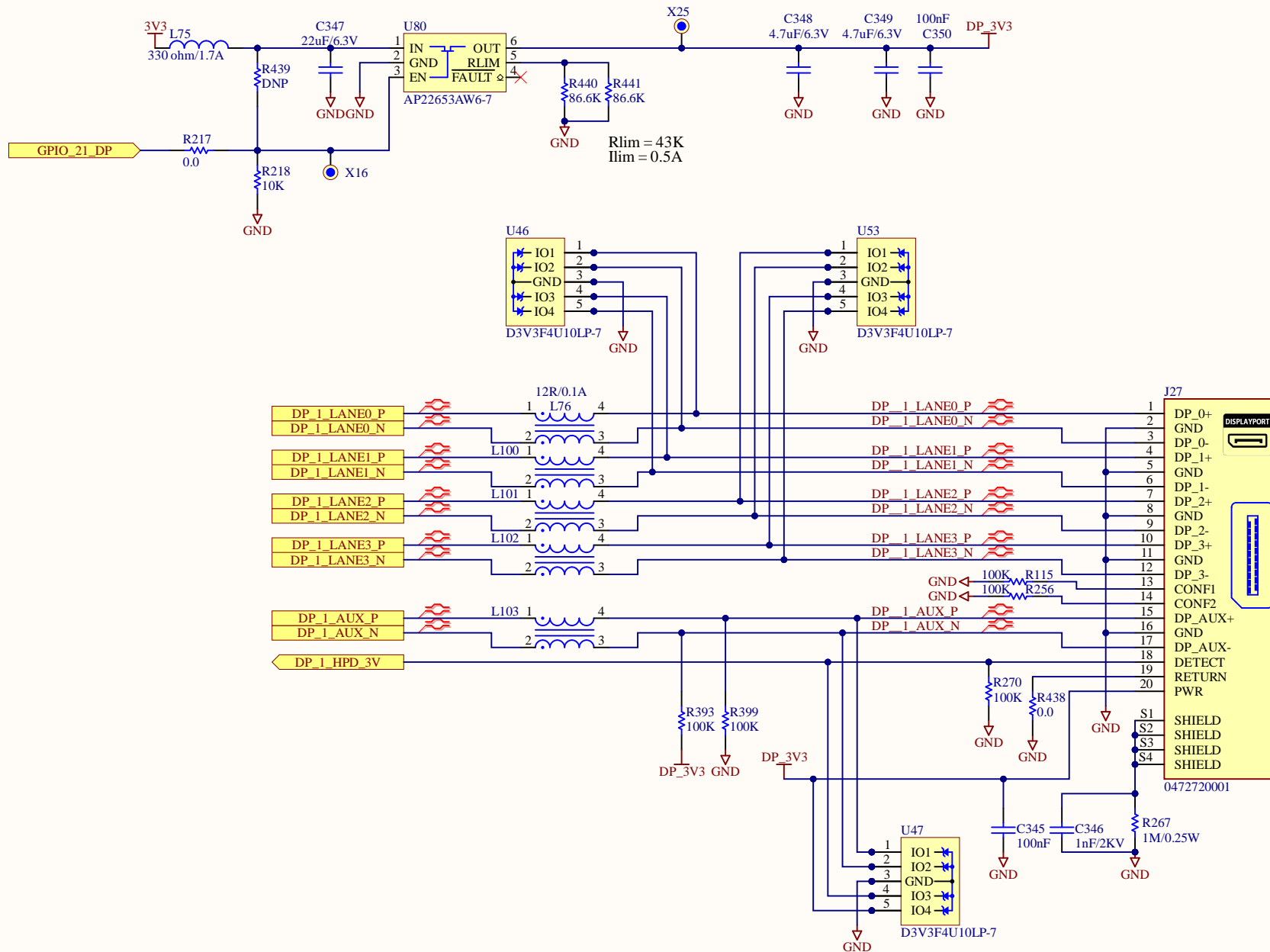
File: 700_RS232_RS485.SchDoc


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Display Port



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Size: Letter	Number: 46926004	Revision: V1.3A		
Date: 26.06.2025	Time: 20:45:20	Sheet 34 of 34		
File: 900_Display_Port.SchDoc				