

A

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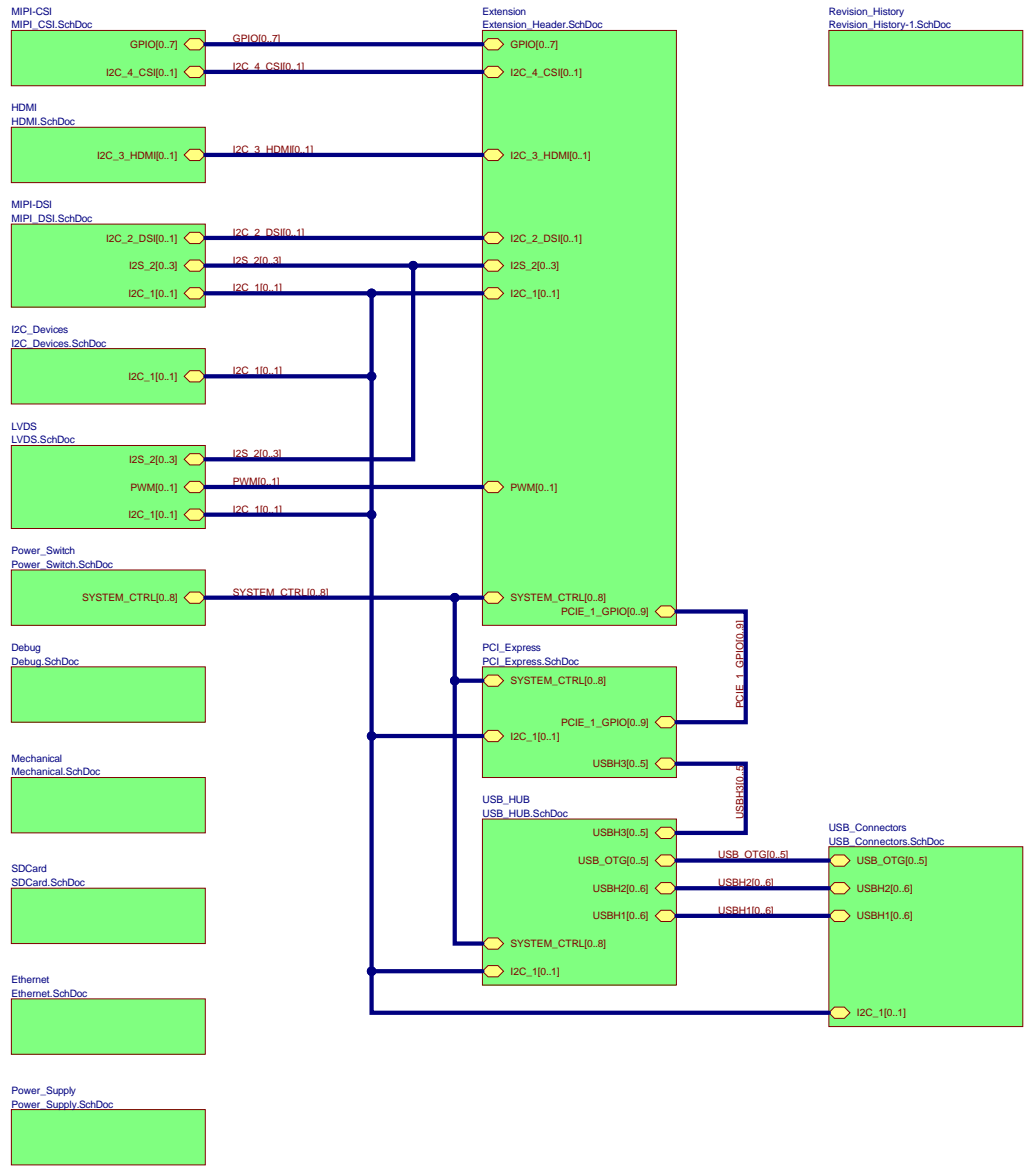
D

A

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D



Revision\_History  
Revision\_History-1.SchDoc


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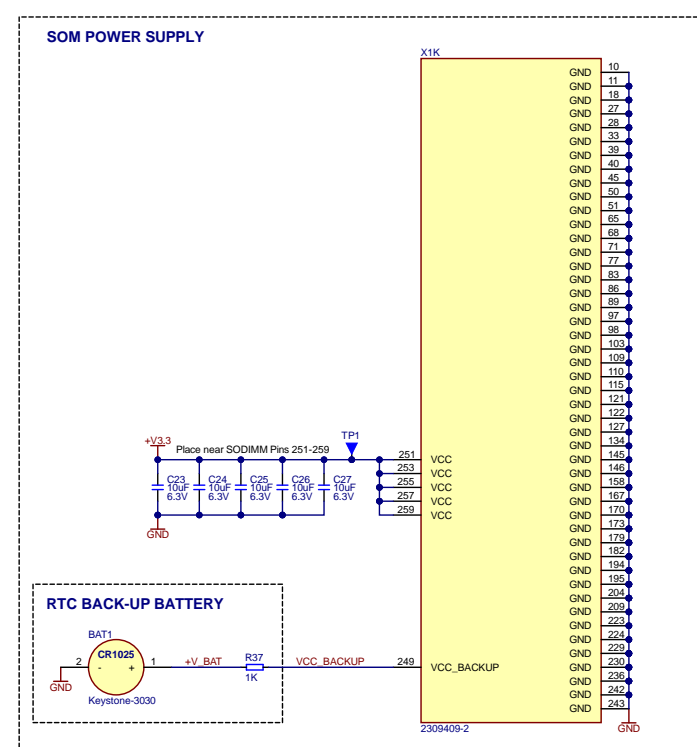
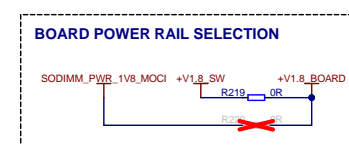
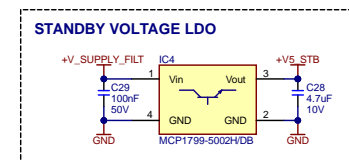
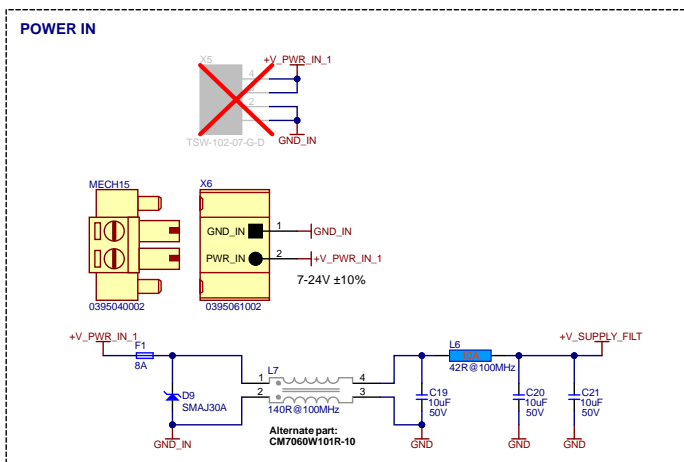
Title <b>Mallow</b>			Toradex AG Ebenaustrasse 10 Horw 6048 Switzerland
Size: A3	Number: 1.	Revision: V1.0	
Date: 3/2/2023	Time: 4:24:35 PM	Sheet 1 of 17	
File: Hardware_Architecture.SchDoc			

1	2	3	4	5	6	7	8	
<div>REVISION HISTORY</div> <div>Revision V1.0</div> <div>Initial release</div>								
A								A
B								B
C								C
D								D
1	2	3	4	5	6	7	8	

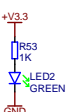


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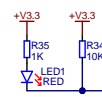
Title <i>Mallow</i>			<i>Toradex AG</i> <i>Ebenaustrasse 10</i>
Size: A3	Number:2.	Revision:V1.0	<i>Horw</i>
Date: 3/2/2023	Time: 4:24:35 PM	Sheet 2 of 17	6048
File: Revision History-1.SchDoc			<i>Switzerland</i>



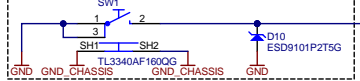
### 3.3V POWER INDICATOR



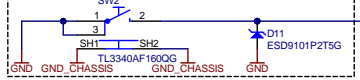
### RESET INDICATOR



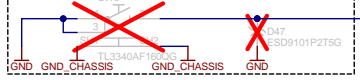
### POWER ON/OFF BUTTON



### RESET BUTTON



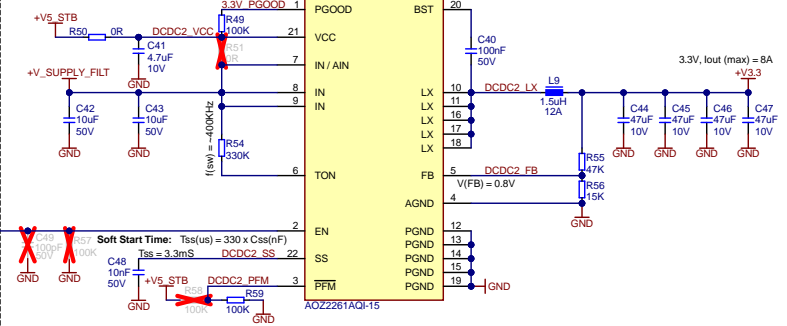
### RECOVERY BUTTON



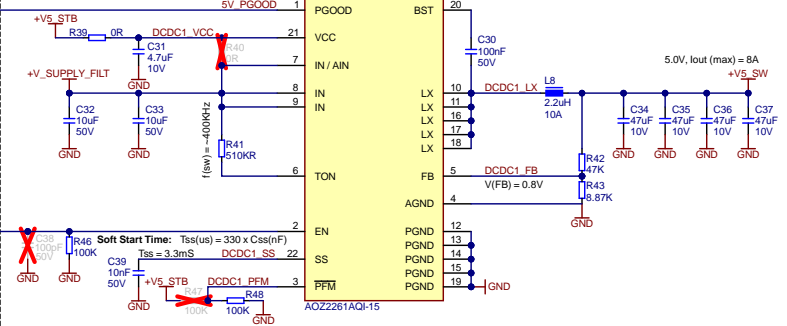
CTRL_RECOVERY_MIC0#	246	SODIMM 246 M	RA7A	22R	CTRL_RECOVERY_MIC0#
CTRL_PWR_BTN_MIC0#	248	SODIMM 248 M	RA7B	22R	CTRL_PWR_BTN_MIC0#
CTRL_FORCE_OFF_MIC0#	250	SODIMM 250 M	RA7C	22R	CTRL_FORCE_OFF_MIC0#
CTRL_WAKE1_MIC0#	252	SODIMM 252 M	RA7D	22R	CTRL_WAKE1_MIC0#
CTRL_PWR_EN_MIC0#	254	SODIMM 254 M	RA8A	22R	CTRL_PWR_EN_MIC0#
CTRL_SLEEP_MIC0#	256	SODIMM 256 M	RA8B	22R	CTRL_SLEEP_MIC0#
CTRL_RESET_MIC0#	258	SODIMM 258 M	RA8C	22R	CTRL_RESET_MIC0#
CTRL_RESET_MIC0#	260	SODIMM 260 M	RA8D	22R	CTRL_RESET_MIC0#

2309409-2

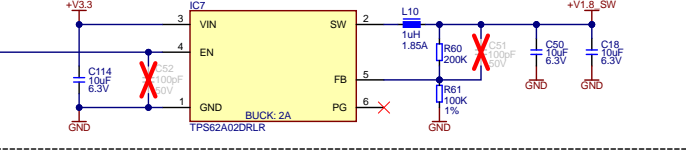
### (BUCK / STEP-DOWN) DC-DC: +V3.3\_SW



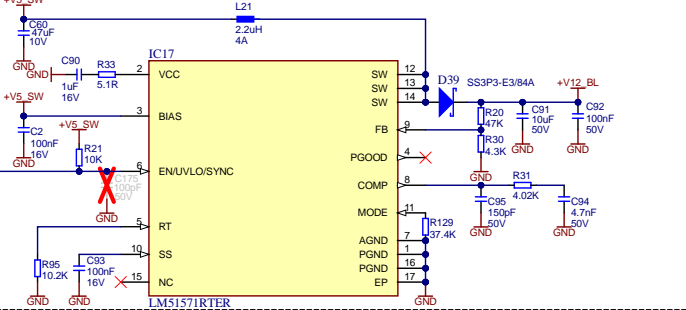
### (BUCK / STEP-DOWN) DC-DC: +V5\_SW



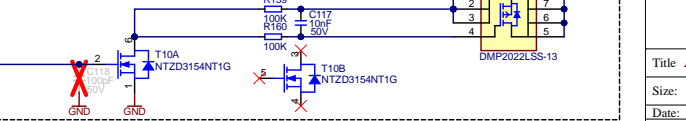
### (BUCK / STEP-DOWN) DC-DC: +V1.8\_SW



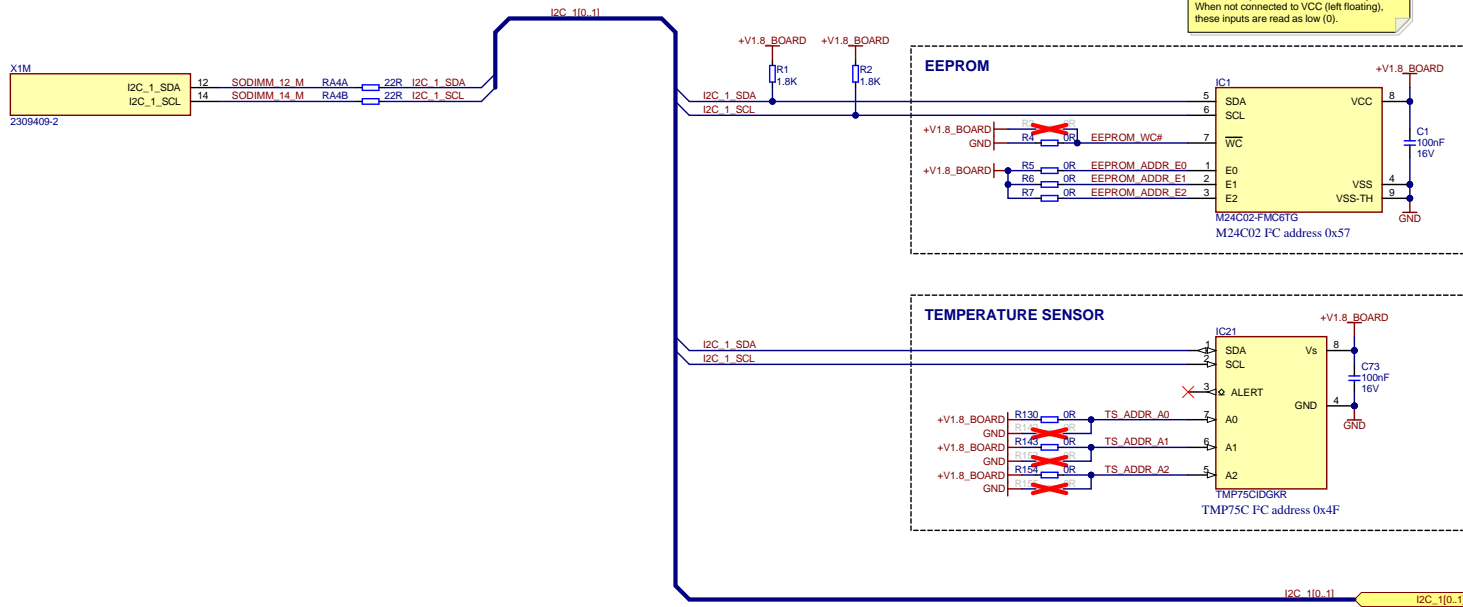
### (BOOST / STEP-UP) DC-DC: +V12\_BL (LVDS DISPLAY BACKLIGHT POWER)

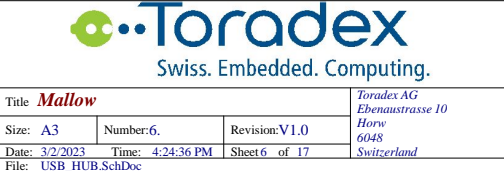


### LOAD SWITCH: 3.3V\_SW



Title: <b>Mallow</b>			Toradex AG Ebnaustrasse 10 6048 Switzerland	
Size: A3	Number: 4.	Revision: V1.0		
Date: 3/2/2023	Time: 4:24:35 PM	Sheet 4 of 17		
File: Power_Switch_SchDoc				





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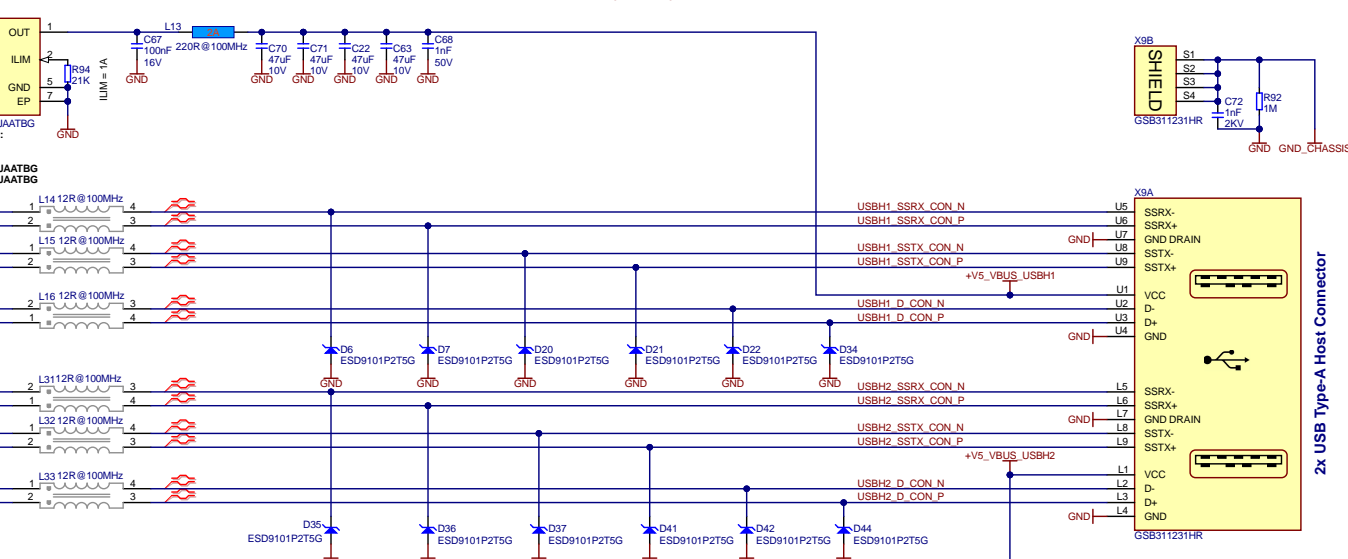
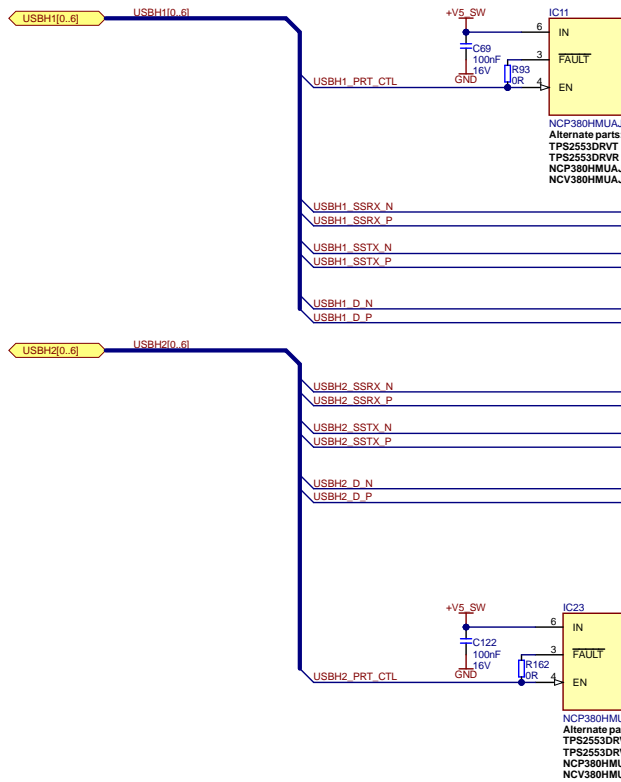
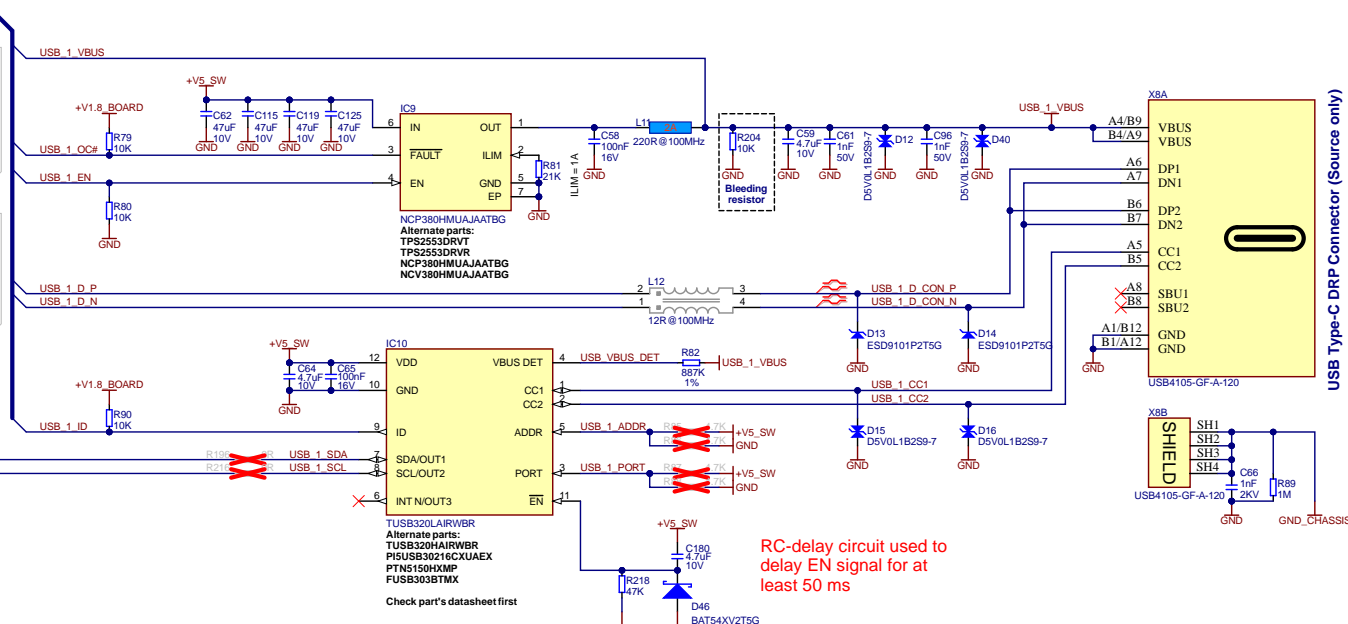
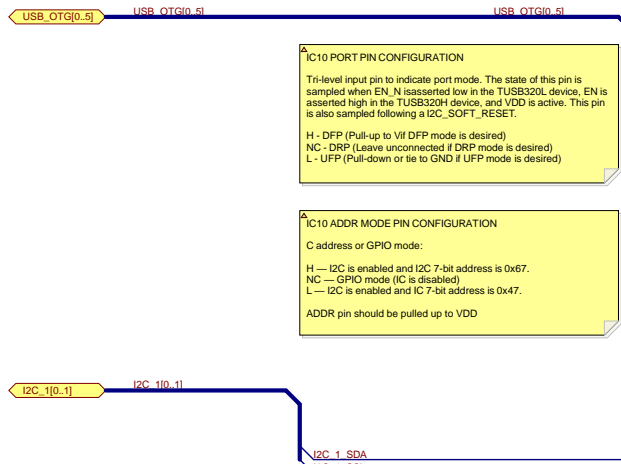
D

A

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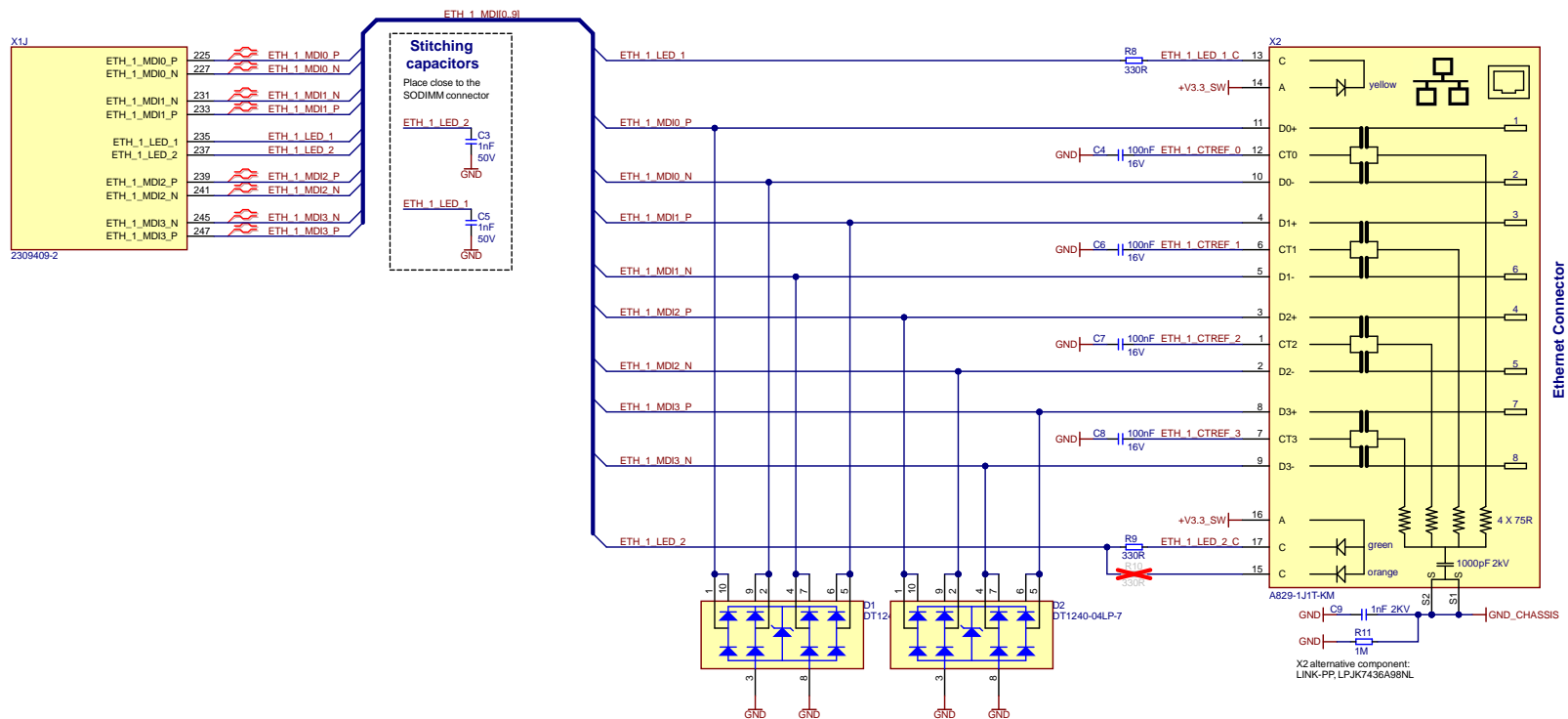
C

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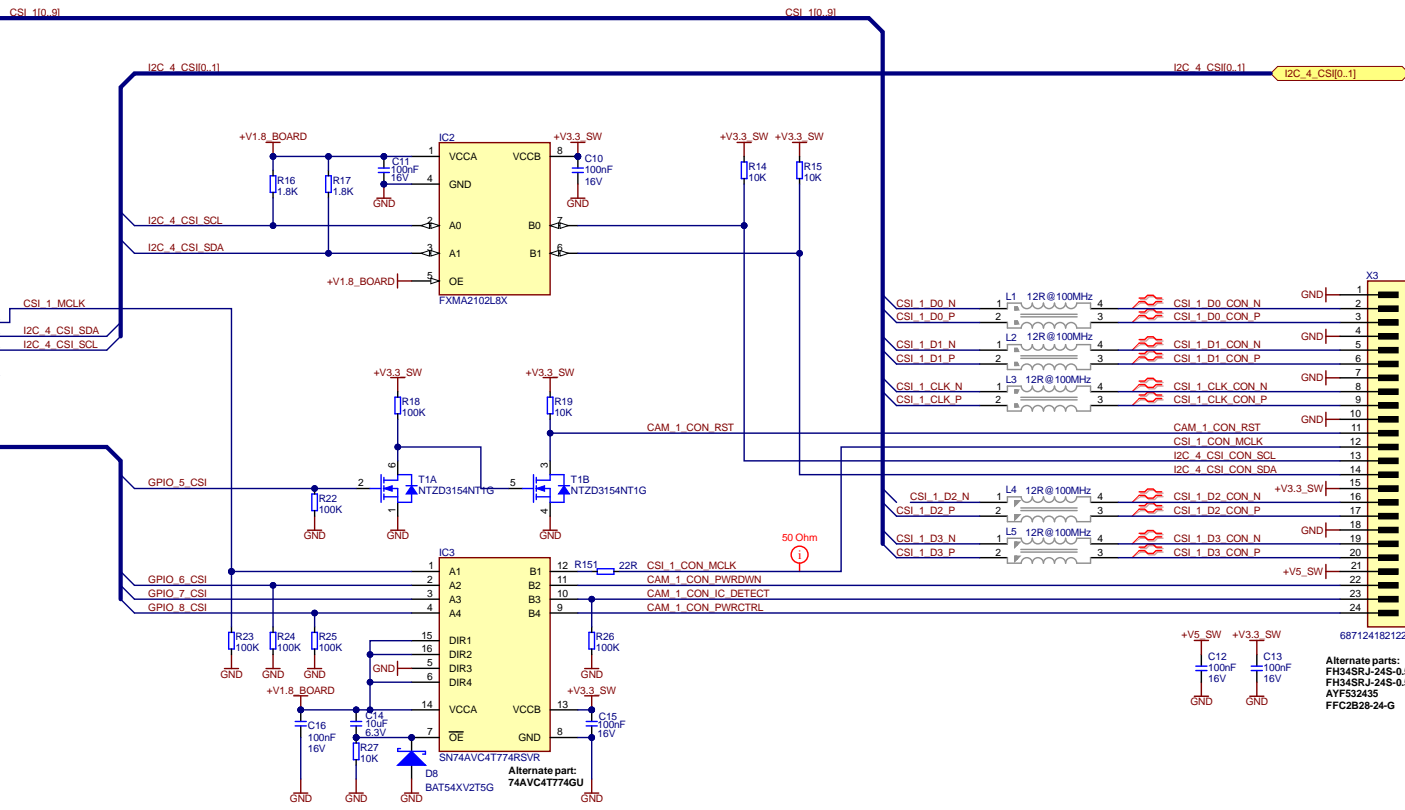




X1E  
2309409-2

CSI_1_D3_P	99	CSI 1 D3 P
CSI_1_D3_N	101	CSI 1 D3 N
CSI_1_D2_P	105	CSI 1 D2 P
CSI_1_D2_N	107	CSI 1 D2 N
CSI_1_CLK_P	111	CSI 1 CLK P
CSI_1_CLK_N	113	CSI 1 CLK N
CSI_1_D1_P	117	CSI 1 D1 P
CSI_1_D1_N	119	CSI 1 D1 N
CSI_1_D0_P	123	CSI 1 D0 P
CSI_1_D0_N	125	CSI 1 D0 N
CSI_1_MCLK	91	SODIMM 91 M RA6D 22R
I2C_4_CSI_SDA	93	SODIMM 93 M RA6C 22R
I2C_4_CSI_SCL	95	SODIMM 95 M RA6B 22R

RA6A 22R



MIPI CSI Camera Connector

Alternate parts:  
FH34SRJ-24S-0.5SH(50)  
AYF532435  
FFC2828-24-G

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



Title <b>Mallow</b>			Toradex AG Ebenaustrasse 10 Horw 6048 Switzerland
Size: A3	Number: 10.	Revision: V1.0	
Date: 3/2/2023	Time: 4:24:36 PM	Sheet 10 of 17	
File: MIPI_CSI.SchDoc			



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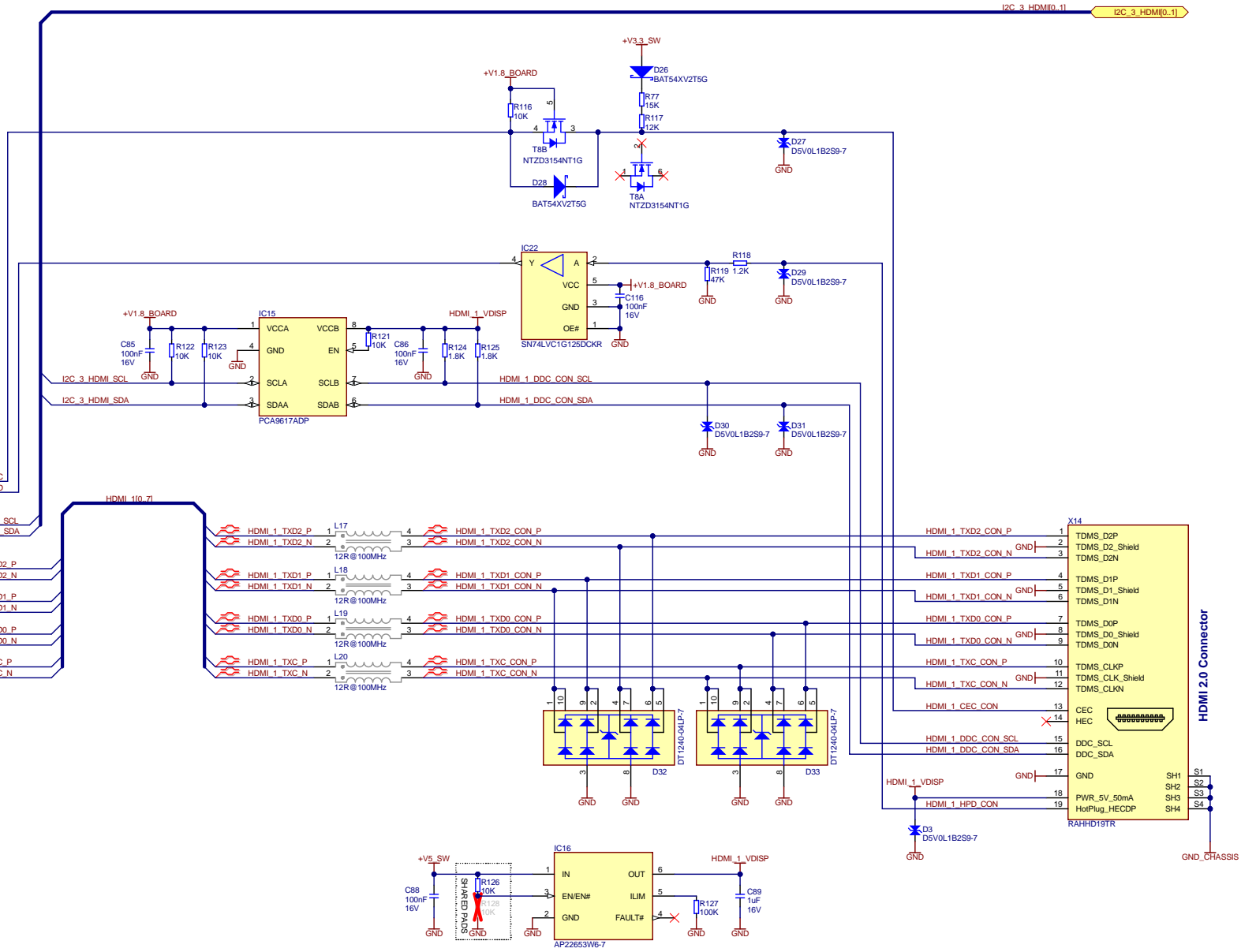
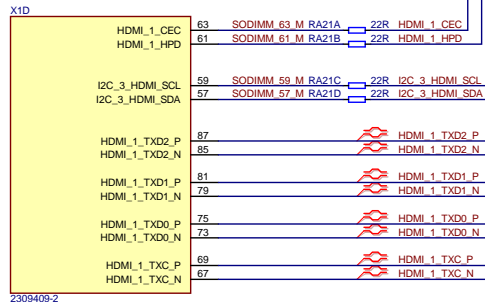
D

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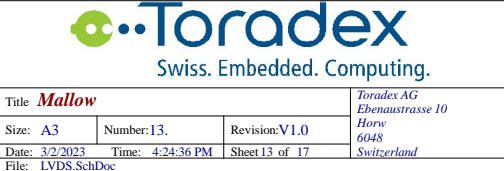
B

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Title <b>Mallow</b>			Toradex AG Ebenaustrasse 10	
Size: <b>A3</b>	Number: <b>12.</b>	Revision: <b>V1.0</b>		Horw 6048
Date: <b>3/2/2023</b>	Time: <b>4:24:36 PM</b>	Sheet 12 of 17		<i>Switzerland</i>
File: <b>HDMI.SchDoc</b>				





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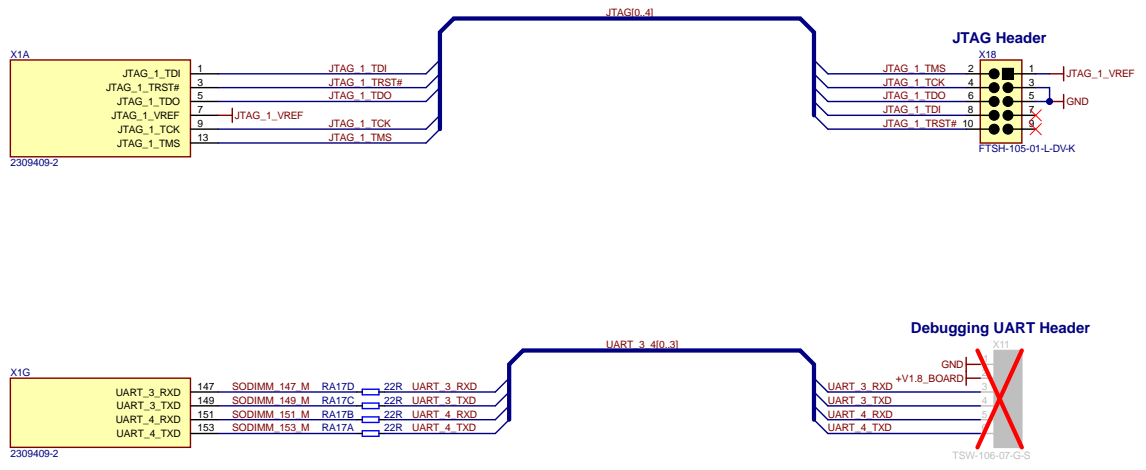
D

A

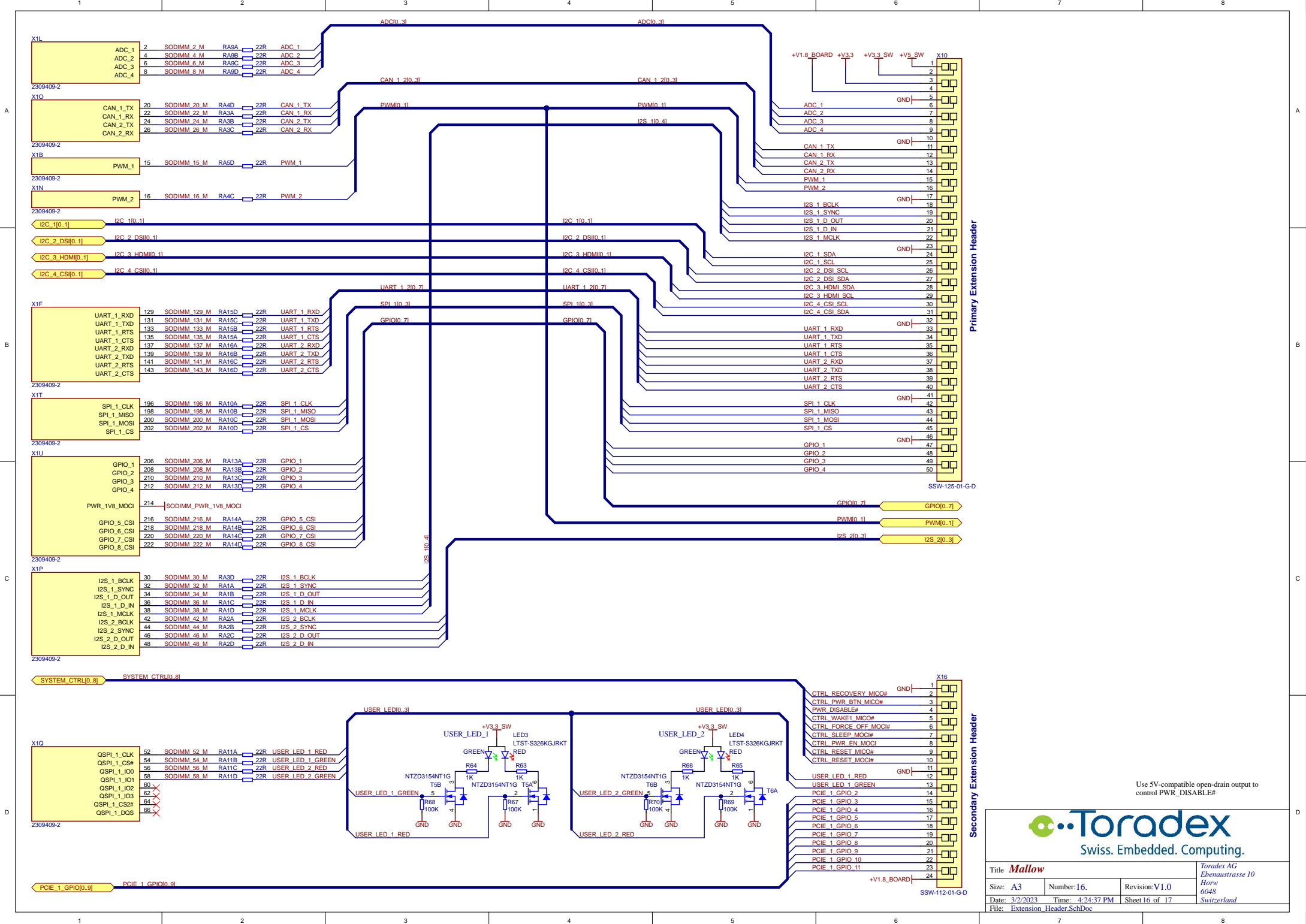
B

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D




Title: <b>Mallow</b>			Toradex AG
Size: A3			Ebenastrasse 10
Number: 15			Horw
Revision: V1.0			6048
Date: 3/2/2023	Time: 4:24:37 PM	Sheet 15 of 17	Switzerland
File: Debug.SchDoc			



Primary Extension Header

Secondary Extension Header



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Title <b>Mallow</b>		Toradex AG Ebenastrasse 10 6048 Switzerland	
Size: A3	Number: 16.	Revision: V1.0	
Date: 3/2/2023	Time: 4:24:37 PM	Sheet 16 of 17	
File: Extension_Header.SchDoc			

Use 5V-compatible open-drain output to control PWR\_DISABLE#



A

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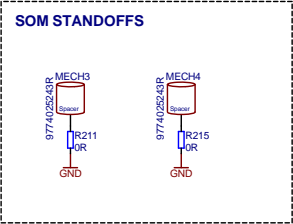
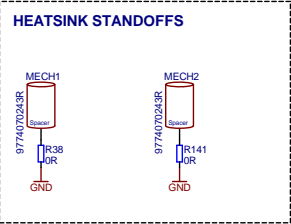
A

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UNUSED PARTS		
X11		
ETH_2_RGMII_RXD_0	201	X
ETH_2_RGMII_RXD_1	203	X
ETH_2_RGMII_RXD_2	205	X
ETH_2_RGMII_RXD_3	207	X
ETH_2_RGMII_RXC	197	X
ETH_2_RGMII_RX_CTL	199	X
ETH_2_RGMII_TXD_3	215	X
ETH_2_RGMII_TXD_2	217	X
ETH_2_RGMII_TXD_1	219	X
ETH_2_RGMII_TXD_0	221	X
ETH_2_RGMII_TXC	213	X
ETH_2_RGMII_TX_CTL	211	X
ETH_2_RGMII_MDC	193	X
ETH_2_RGMII_MDIO	191	X
ETH_2_RGMII_INT#	189	X
2309409-2		



MECH7



MECH8



MECH9



MECH10



MECH11



MECH12



MECH13



MECH14



MECH16



MECH6