

1

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A

A

B

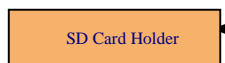
B

C

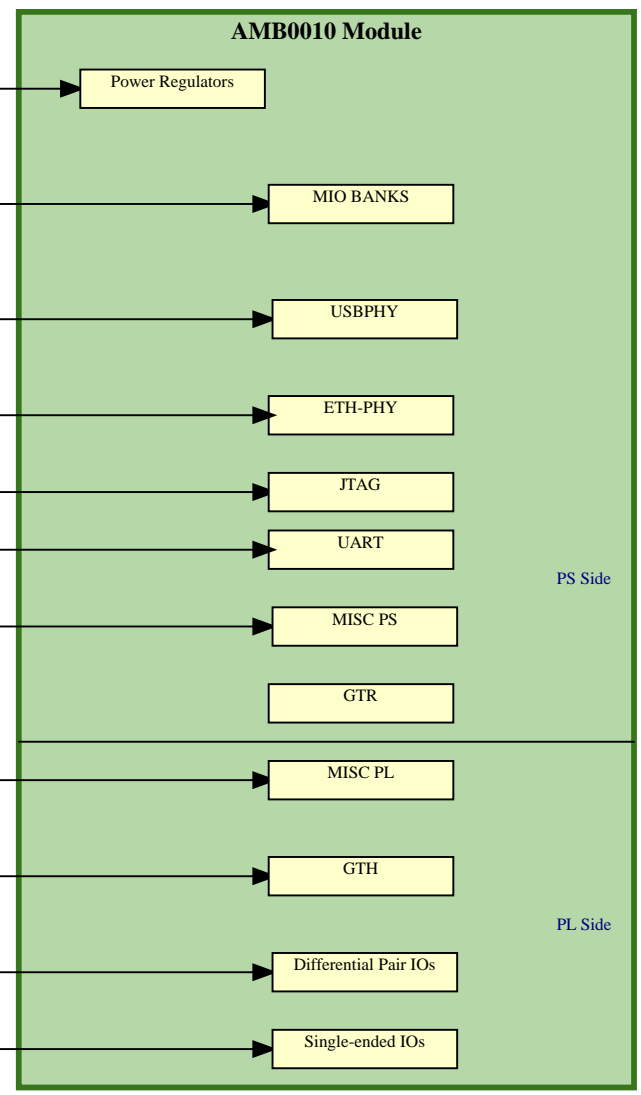
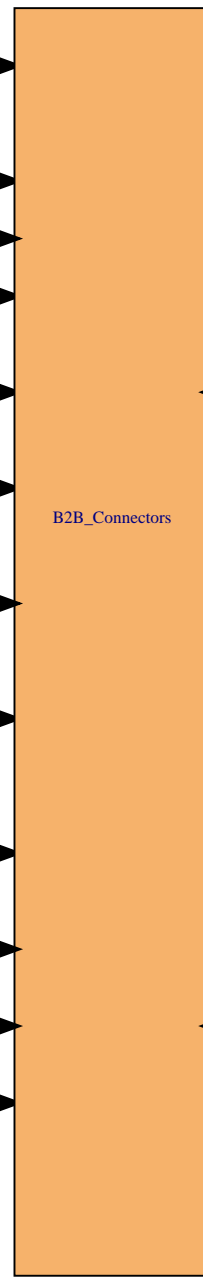
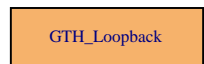
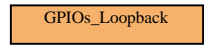
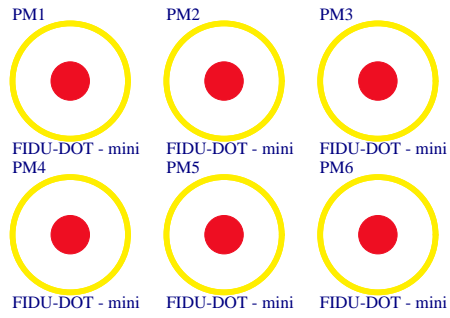
C

D

D



Serial1
Serial
Serialnumber 6,3 x 6.3mm



Title: AMB0010 Main		
A4	Number: 1 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 1 of 18
Filename: AMB0010.schdoc		

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2

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4

A

A

JB5_Connector_W

B

B

JB6_Connector_X

C

C

D

D



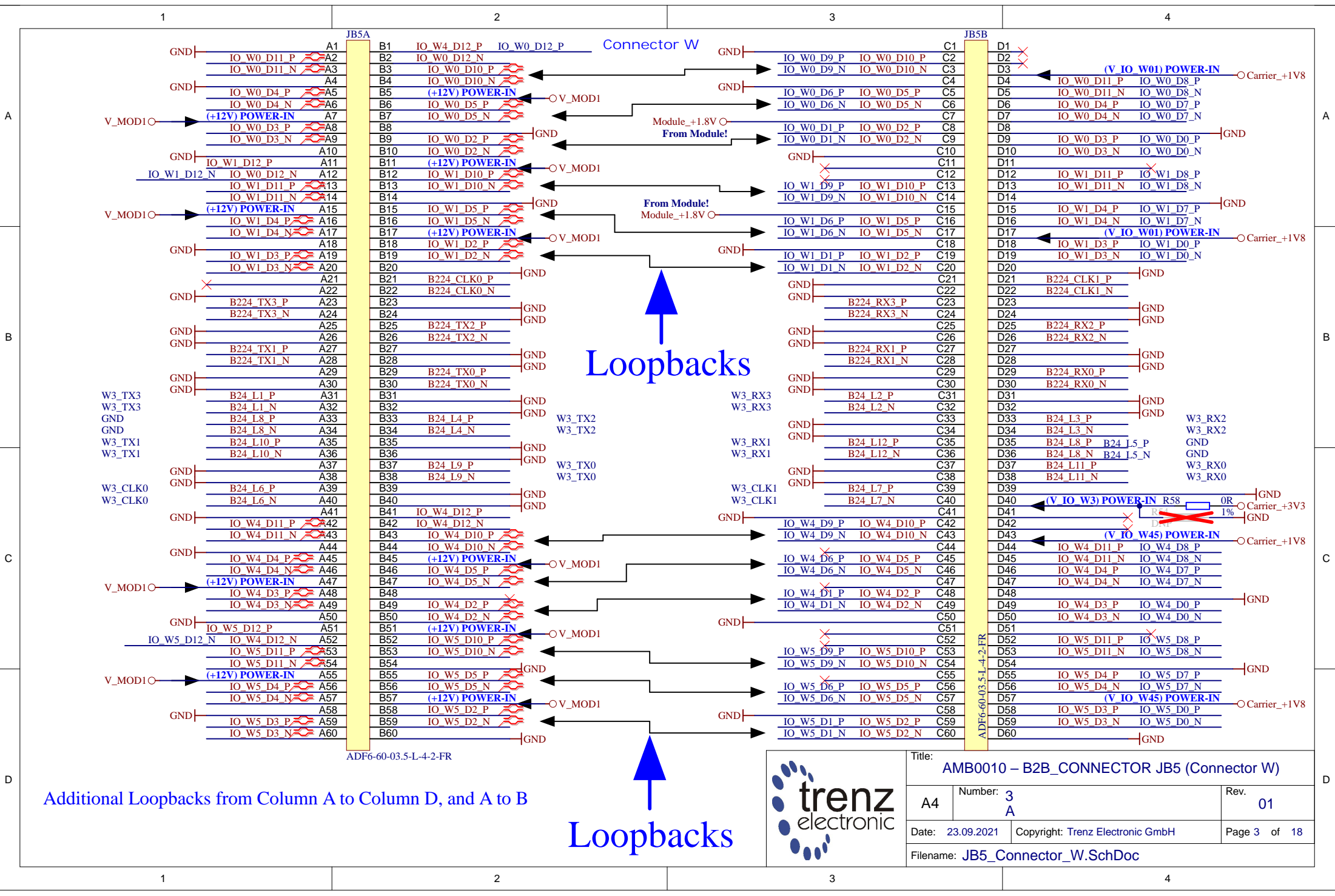
Title: AMB0010 – B2B_CONNECTORS		
A4	Number: 2 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 2 of 18
Filename: B2B_Connectors.SchDoc		

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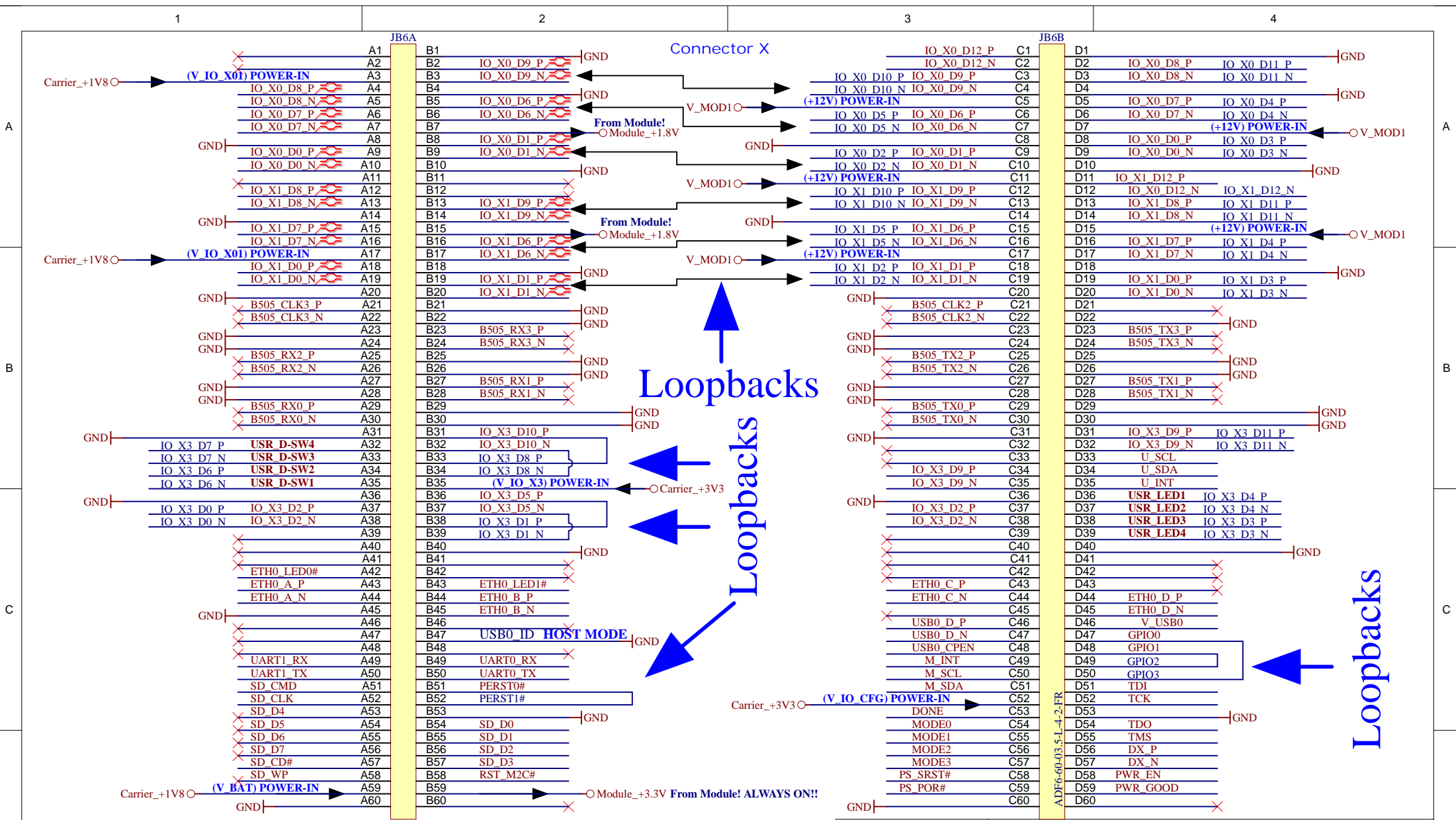


Additional Loopbacks from Column A to Column D, and A to B

Loopbacks



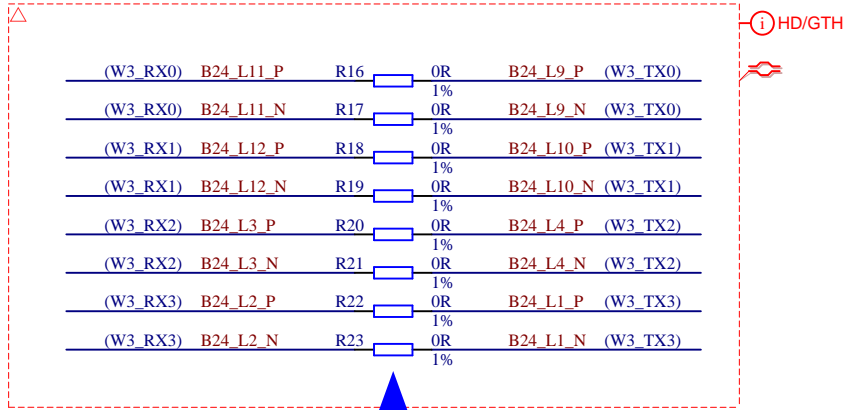
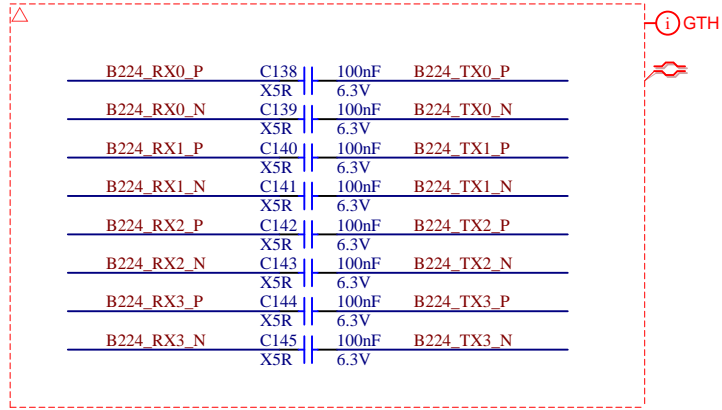
Title: AMB0010 – B2B_CONNECTOR JB5 (Connector W)			
A4	Number: 3 A	Rev. 01	
Date: 23.09.2021	Copyright: Trenz Electronic GmbH		Page 3 of 18
Filename: JB5_Connector_W.SchDoc			



Additional Loopbacks from Column A to Column D, A to C, and C to D

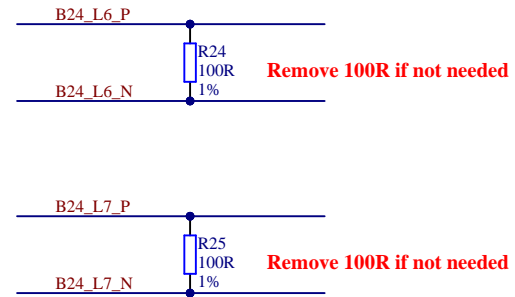
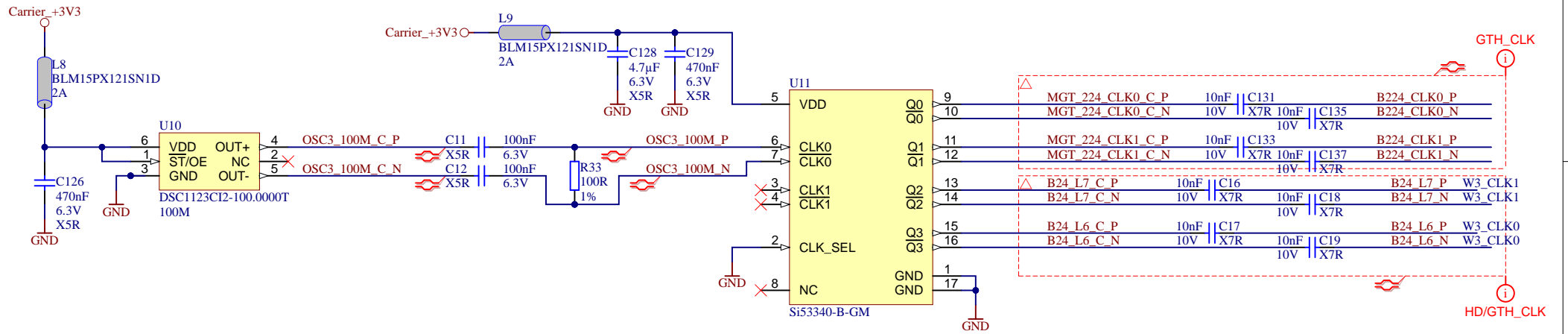


Title: AMB0010 – B2B_CONNECTOR JB6 (Connector X)		
A4	Number: 4 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 4 of 18
Filename: JB6_Connector_X.SchDoc		

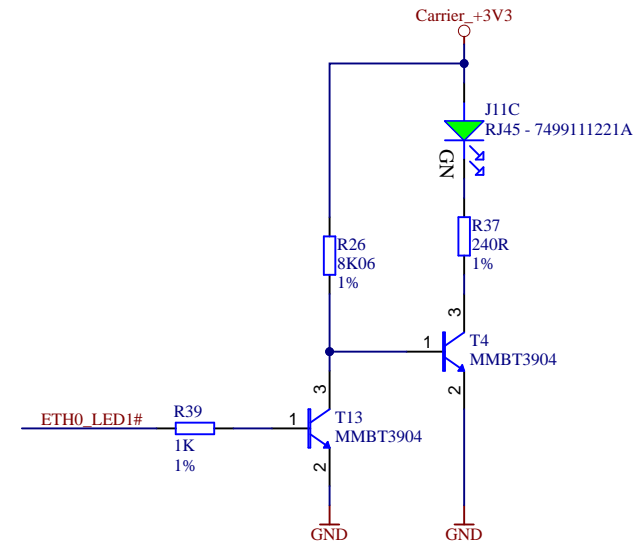
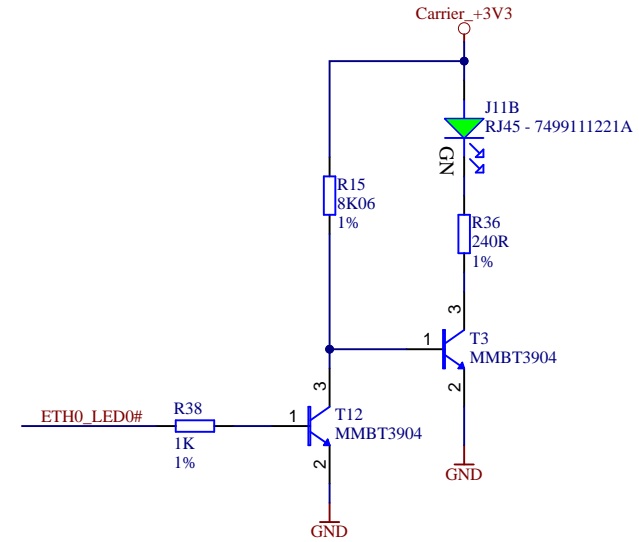
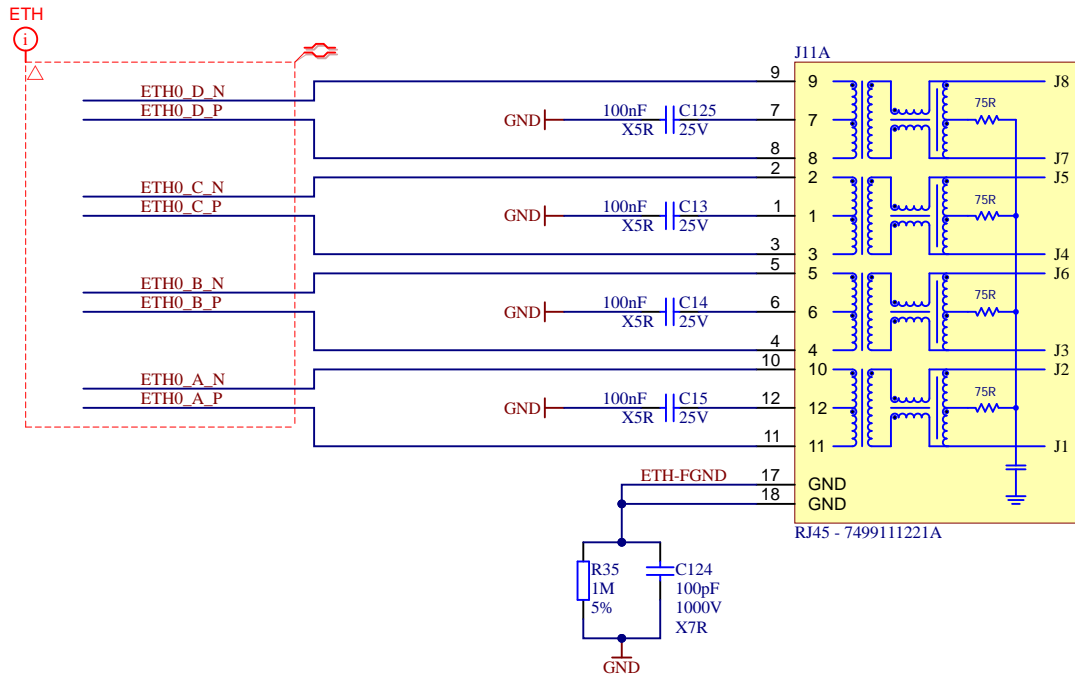


For a future modules with MGT connections on these nets, change the 0R Resistors for 100nF Capacitors

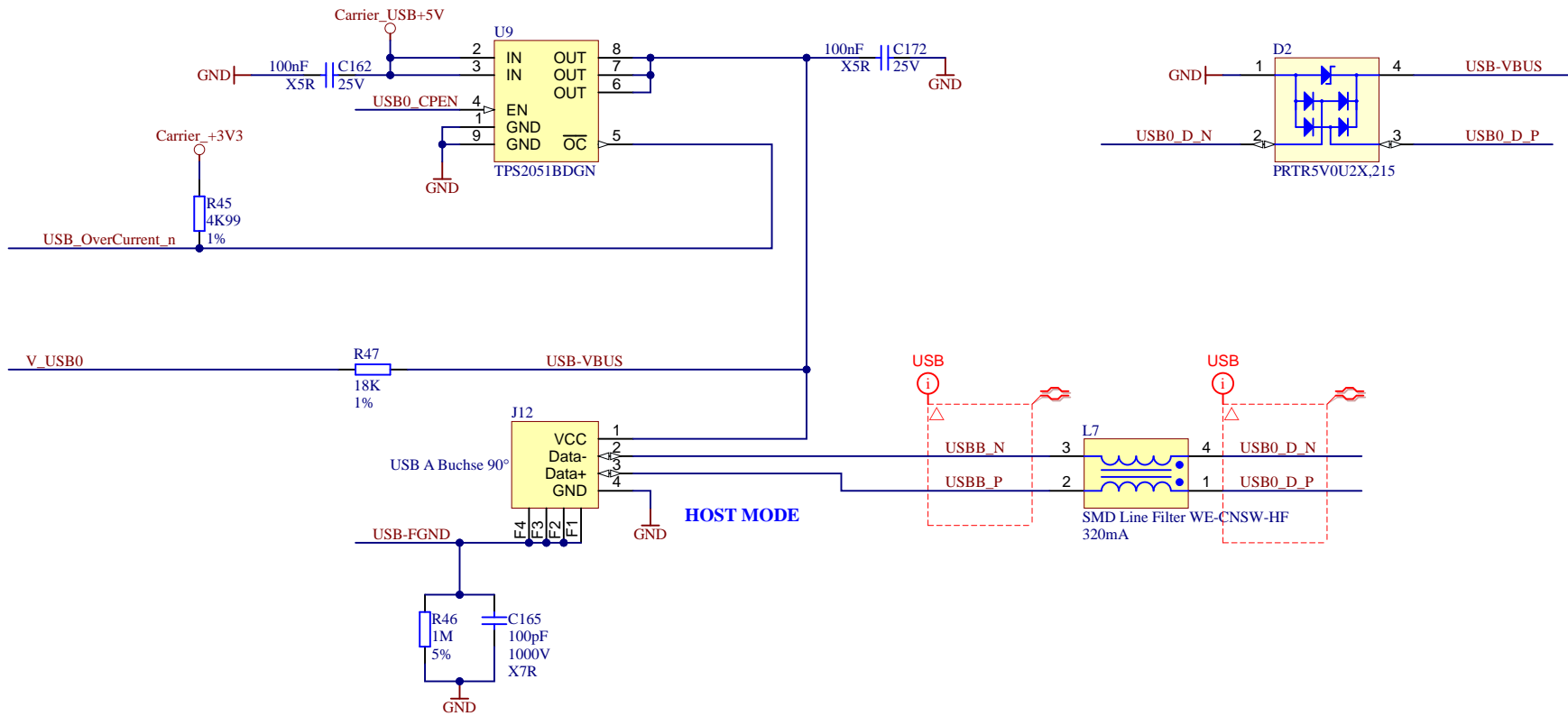
	Title: AMB0010 – GTH_Loopback_Connections		
	A4	Number: 5 A	Rev. 01
	Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 5 of 18
	Filename: GTH_Loopback.schdoc		




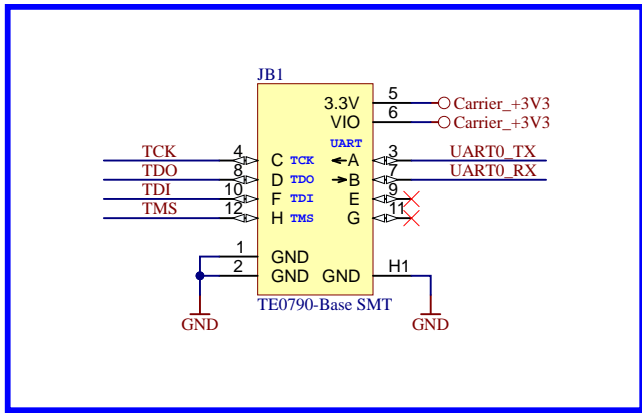
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	A4	Number: 6 A	Rev. 01
	Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 6 of 18
	Filename: CLOCKs_schdoc		



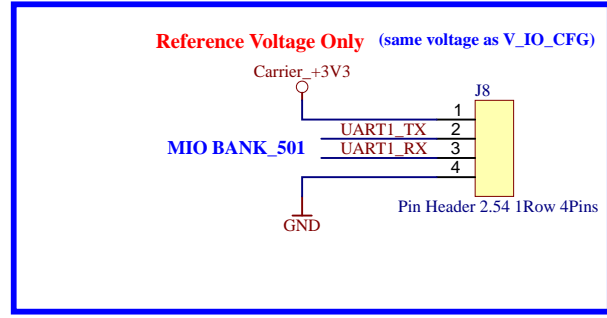
	Title: AMB0010 – ETHERNET		
	A4	Number: 7 A	Rev. 01
	Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 7 of 18
	Filename: ETHERNET.SchDoc		




		Title: AMB0010 – USB	
		A4	Number: 8 A
Date: 23.09.2021		Copyright: Trenz Electronic GmbH	
Filename: USB.SchDoc		Page 8 of 18	

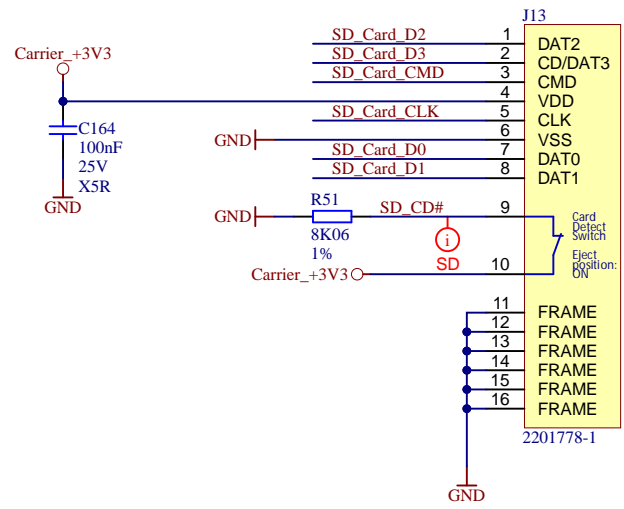
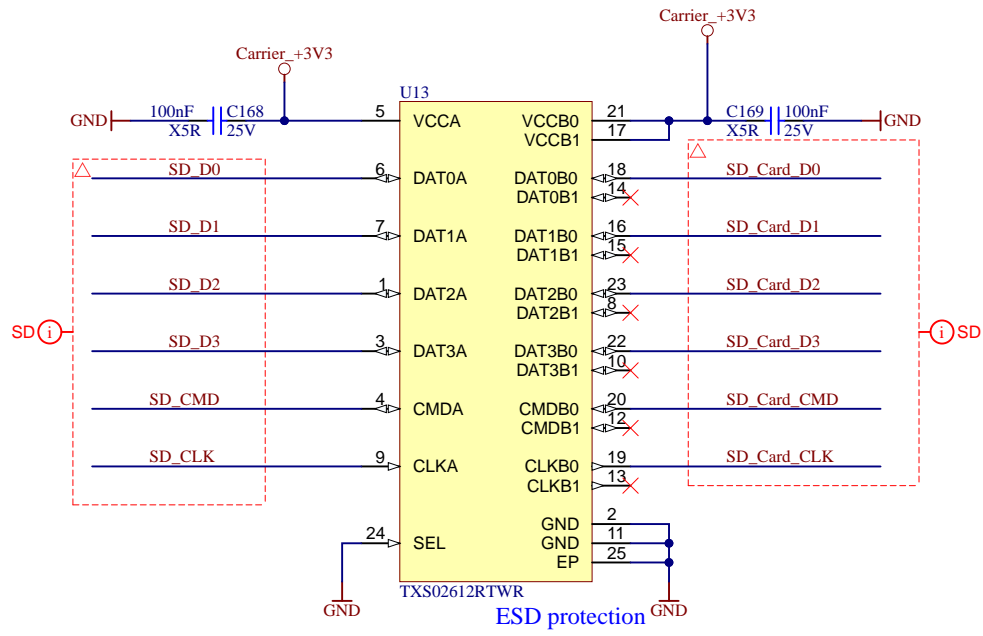


TE0790 XMOD JTAG PROGRAMMER/UART0 HEADER




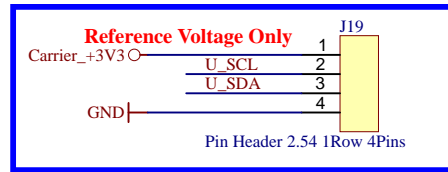
UART1 HEADER ONLY

		Title: AMB0010 – JTAG_UART_Connections	
		A4	Number: g A
Date: 23.09.2021		Copyright: Trenz Electronic GmbH	
Page 9 of 18			
Filename: JTAG_UART_Connections.SchDoc			

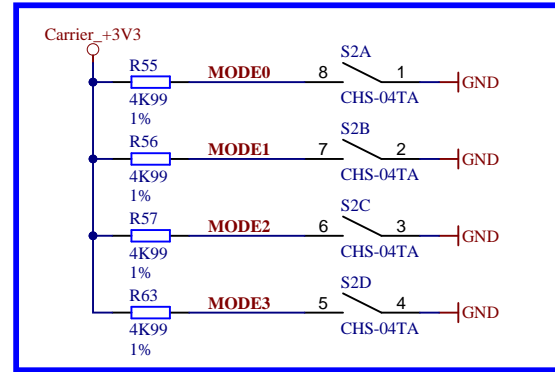


Card removed -> Switch closed -> SD_CD = 1
 Card inserted -> Switch opened -> SD_CD = 0

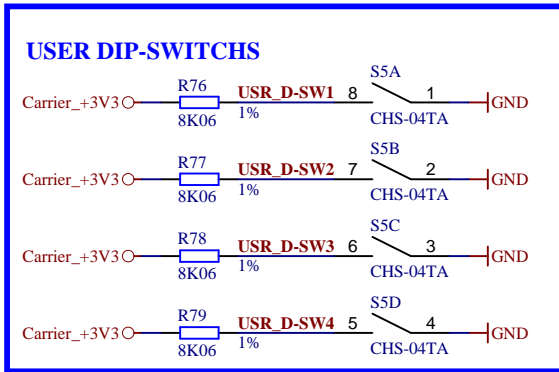
			Title: AMB0010 – SD Card	
			A4	Number: 10 A
Date: 23.09.2021		Copyright: Trenz Electronic GmbH		Page 10 of 18
Filename: SD_Card.SchDoc				



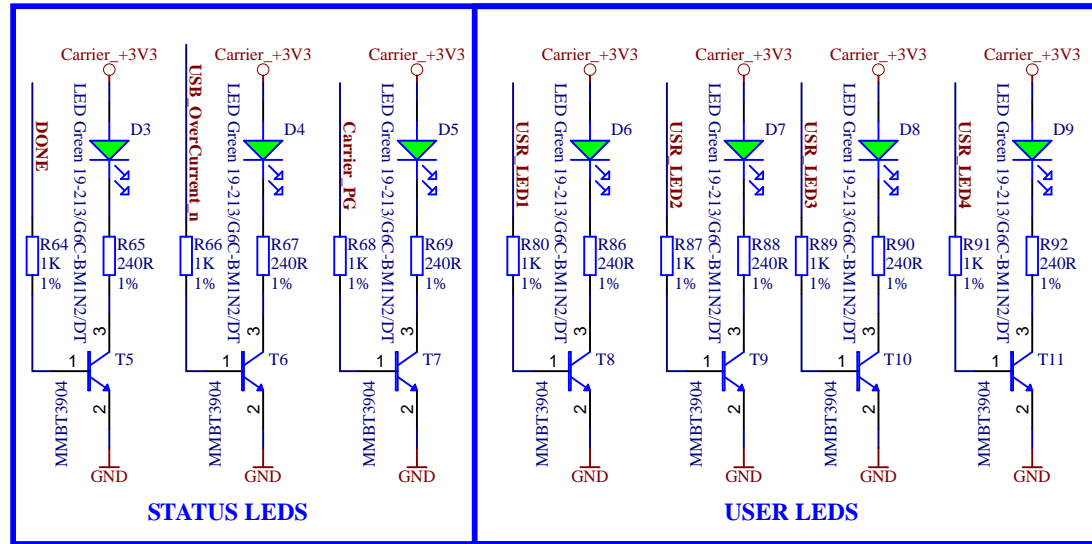
ADDITIONAL HEADERS



MODE SELECTION



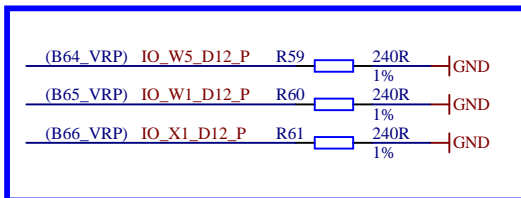
DIP-SWITCHES



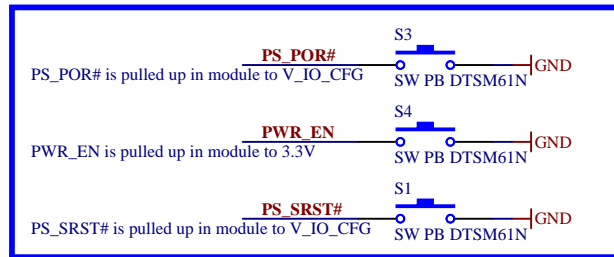
STATUS LEDS

USER LEDS

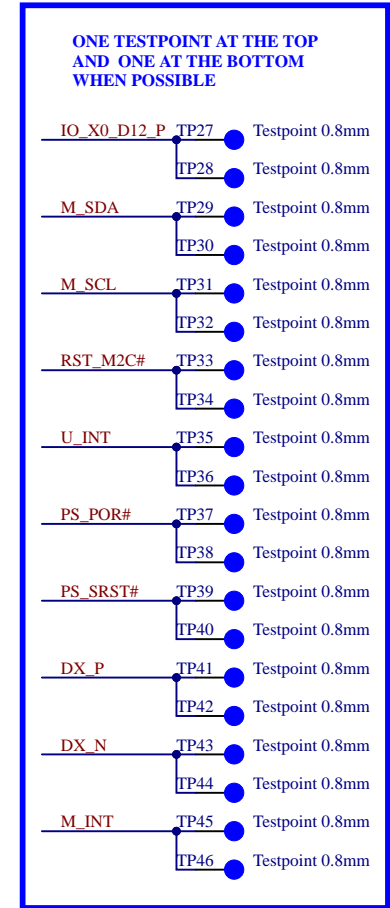
LEDS



TERMINATIONS

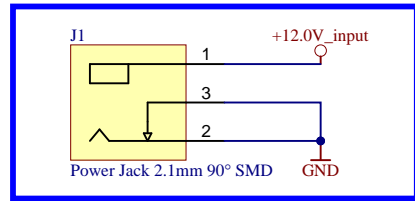


PUSH BUTTONS

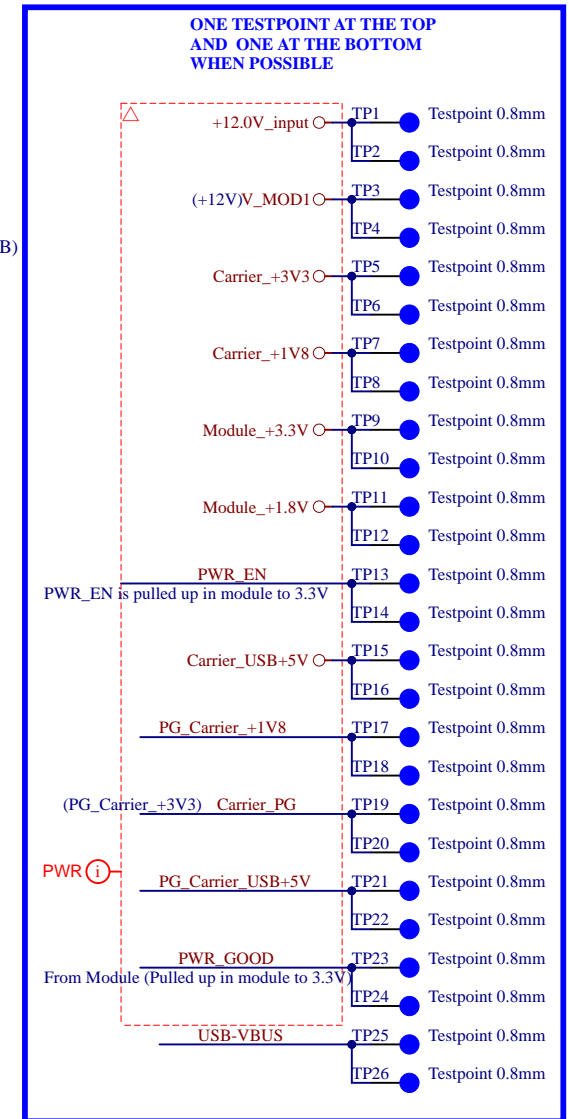
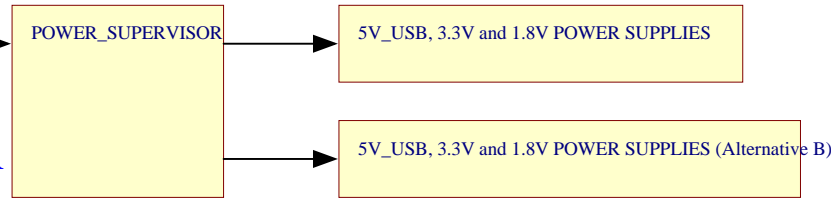


TESTPOINTS

Title: AMB0010 – MISC_BASE		
A4	Number: 11 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 11 of 18
Filename: MISC_Carrier.SchDoc		

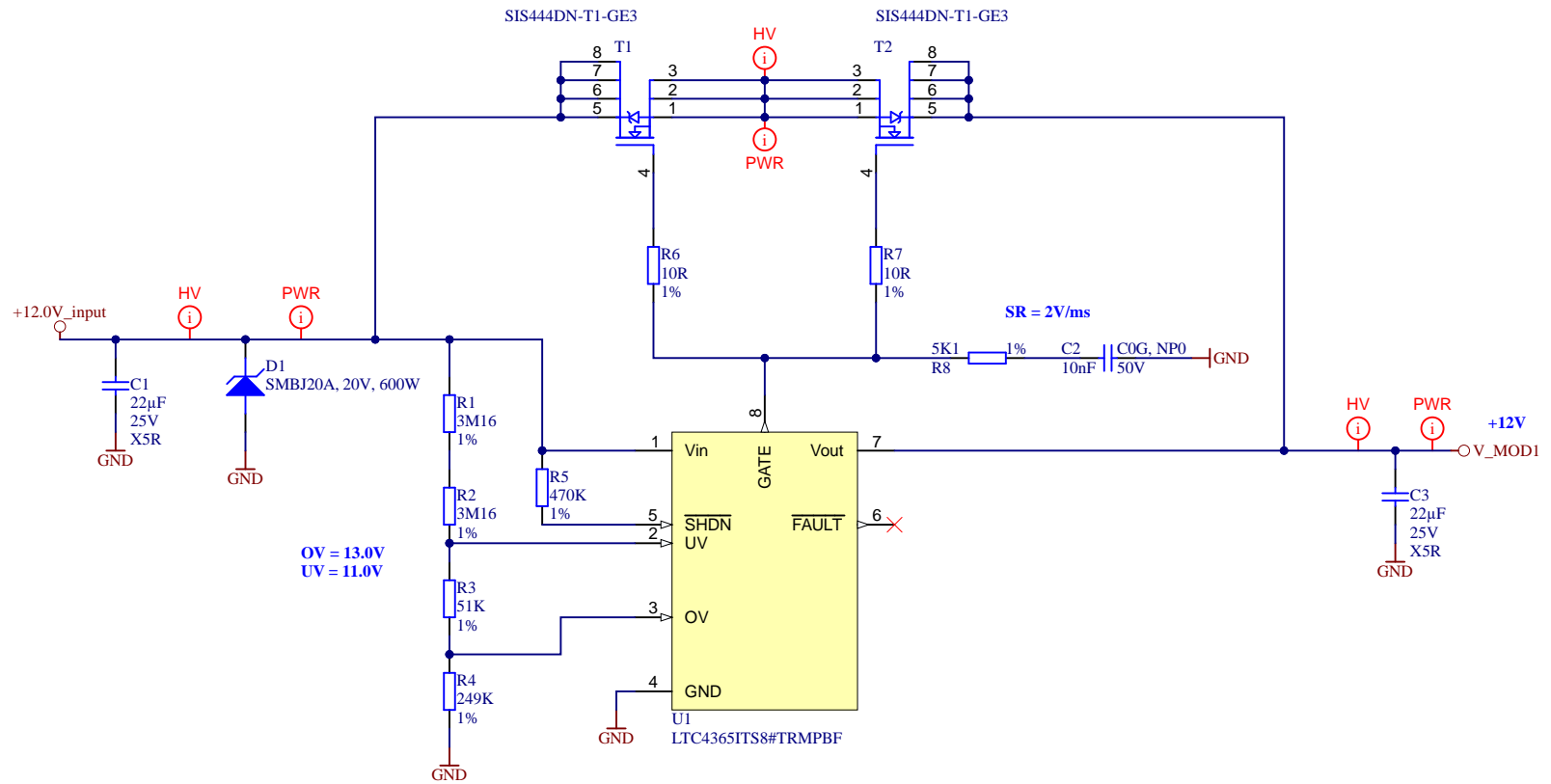



MAIN POWER-IN CONNECTOR

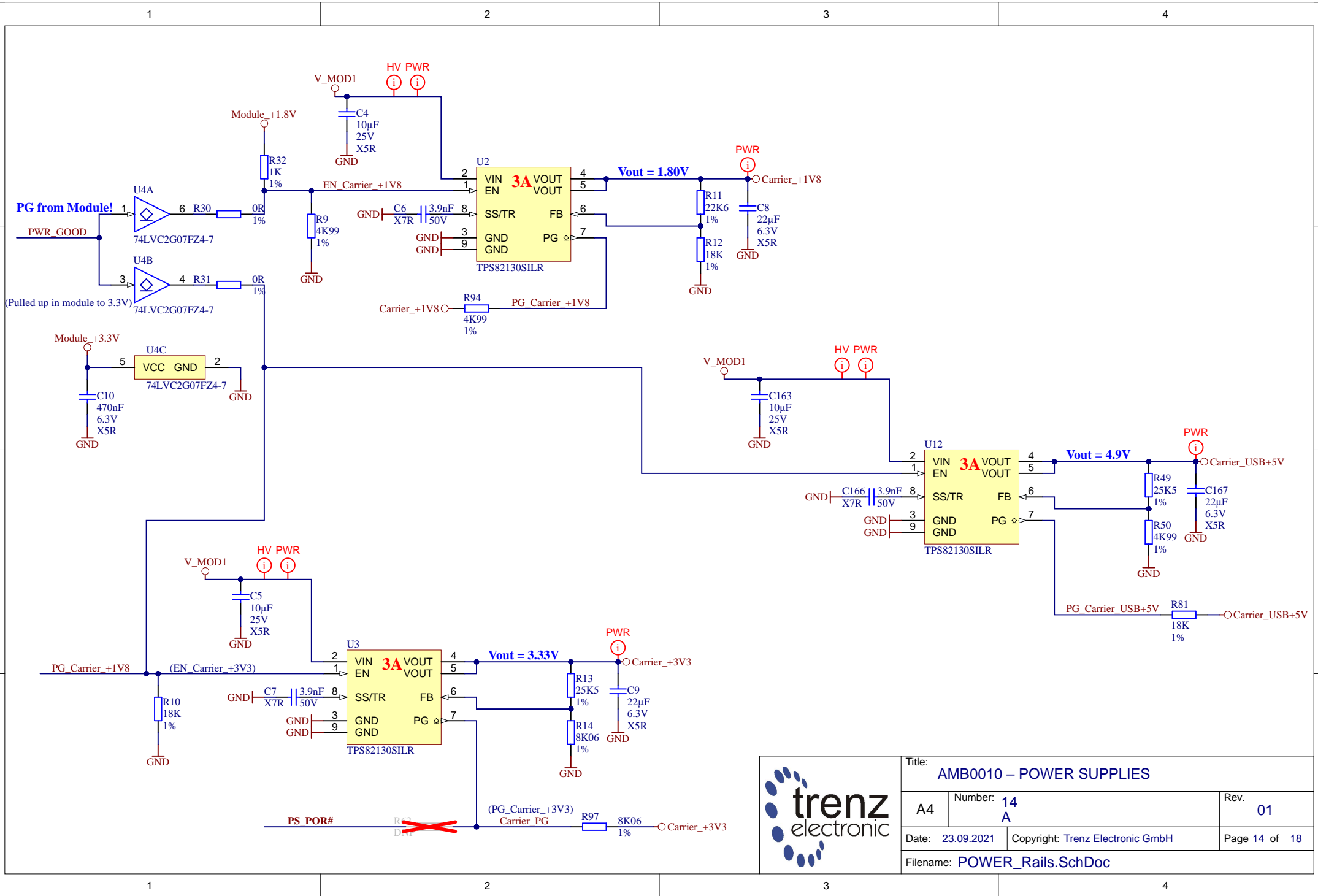


TESTPOINTS

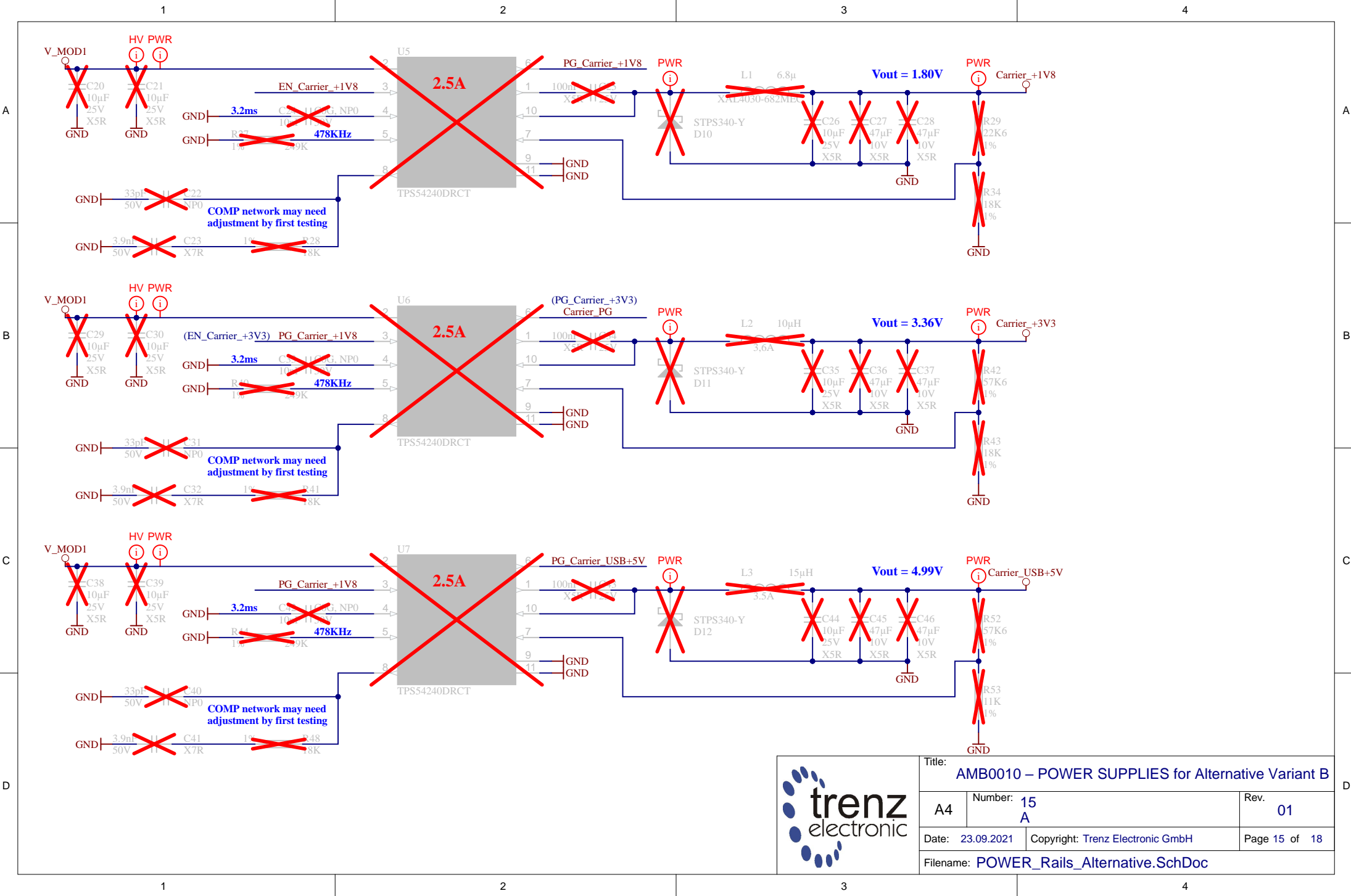
	Title: AMB0010 – POWER		
	A4	Number: 12 A	Rev. 01
	Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 12 of 18
	Filename: POWER.SchDoc		



			Title: AMB0010 – POWER SUPERVISOR	
			A4	Number: 13 A
Date: 23.09.2021		Copyright: Trenz Electronic GmbH		Page 13 of 18
Filename: POWER_Supervisor.SchDoc				



Title: AMB0010 – POWER SUPPLIES		
A4	Number: 14 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	
Filename: POWER_Rails.SchDoc		Page 14 of 18



Title: AMB0010 – POWER SUPPLIES for Alternative Variant B		
A4	Number: 15 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	
Page 15 of 18		
Filename: POWER_Rails_Alternative.SchDoc		

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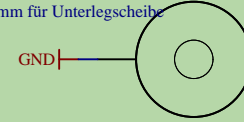
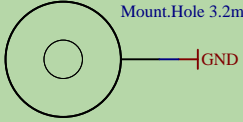
D

D

AMB0010 Carrier

Mount.Hole 3.2mm für Unterlegscheibe

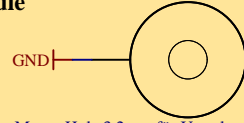
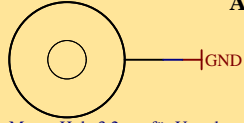
Mount.Hole 3.2mm für Unterlegscheibe



AM0010 Module

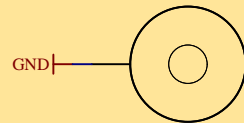
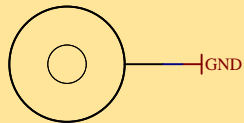
Mount.Hole 3.2mm für Unterlegscheibe

Mount.Hole 3.2mm für Unterlegscheibe



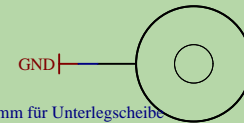
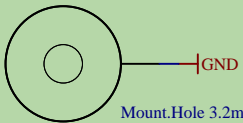
Mount.Hole 3.2mm für Unterlegscheibe

Mount.Hole 3.2mm für Unterlegscheibe



Mount.Hole 3.2mm für Unterlegscheibe

Mount.Hole 3.2mm für Unterlegscheibe



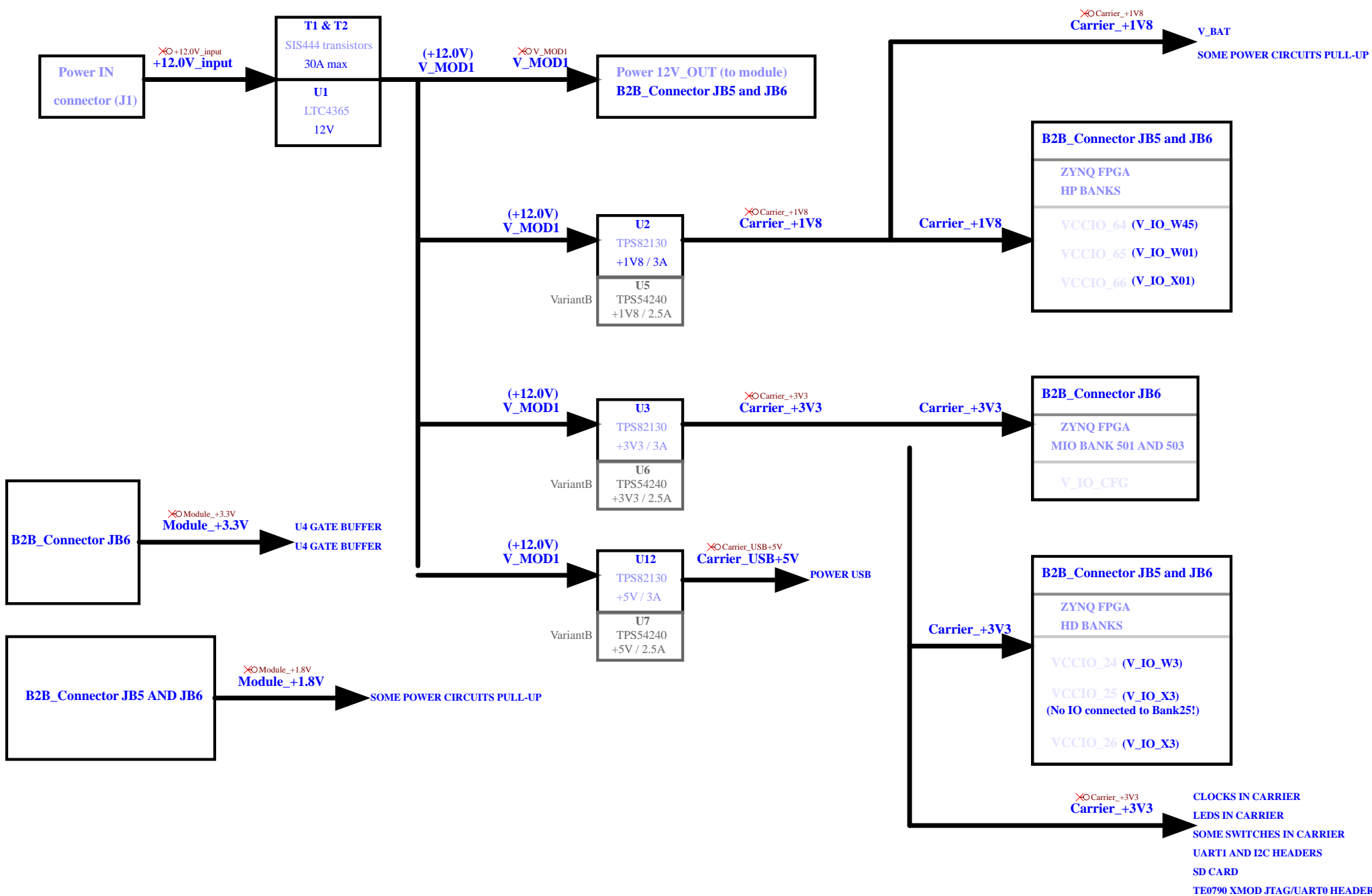
Title: AMB0010 MECH		
A4	Number: 16 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 16 of 18
Filename: MECH.schdoc		

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Title: AMB0010 – PowerOverview		
A4	Number: 17 A	Rev. 01
Date: 23.09.2021	Copyright: Trenz Electronic GmbH	Page 17 of 18
Filename: PowerOverview.SchDoc		

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A

A

REV	Description	
-01	Initial revision	GH

B


B

C

C

D

D

			Title: AMB0010 – Revision_Changes			
			A4	Number: 18 A	Rev. 01	
			Date: 23.09.2021	Copyright: Trenz Electronic GmbH		Page 18 of 18
			Filename: Revision_Changes.SchDoc			

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