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PBA-C-08

phyBOARD REGOR-AM335

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PHYTEC

PHYTEC Messtechnik GmbH
Robert-Koch-Strasse 39
D-55129 Mainz

Project:

PBA-C-08

Department : F&E
Author: N.Litzenberger

24.09.2021

PCB-No.: 1447.4

Revision : 001

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	Project Overview					Confidential information and property of PHYTEC Messtechnik GmbH. No part of these materials may be copied, used or disclosed except with written permission of PHYTEC Messtechnik GmbH.
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Operating Ratings
Operating Votage: 24V +/- 5%

	EUROPE	NORTH AMERIKA
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Web Site:	http://www.phytec.de http://www.phytec.eu	http://www.phytec.com

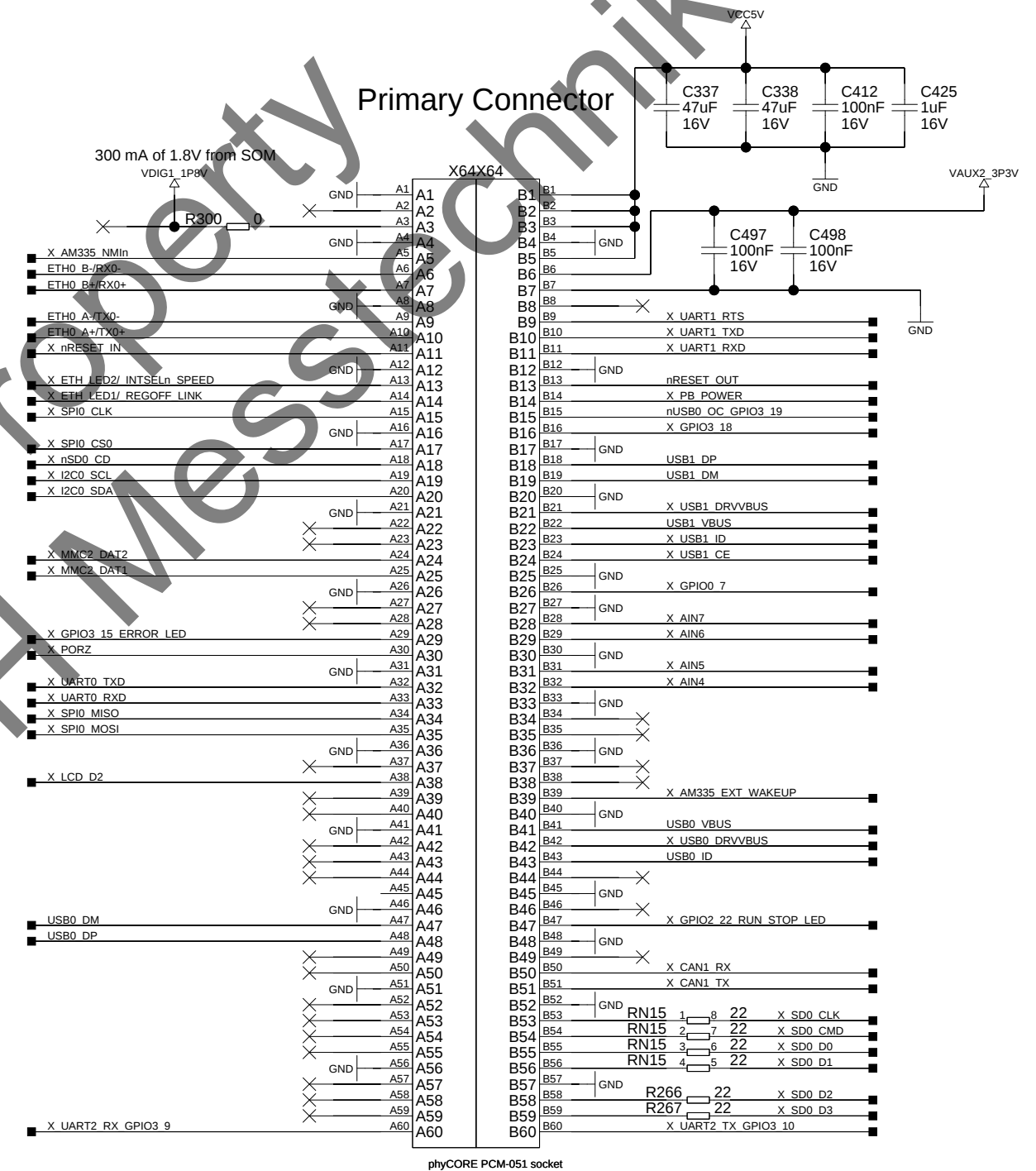
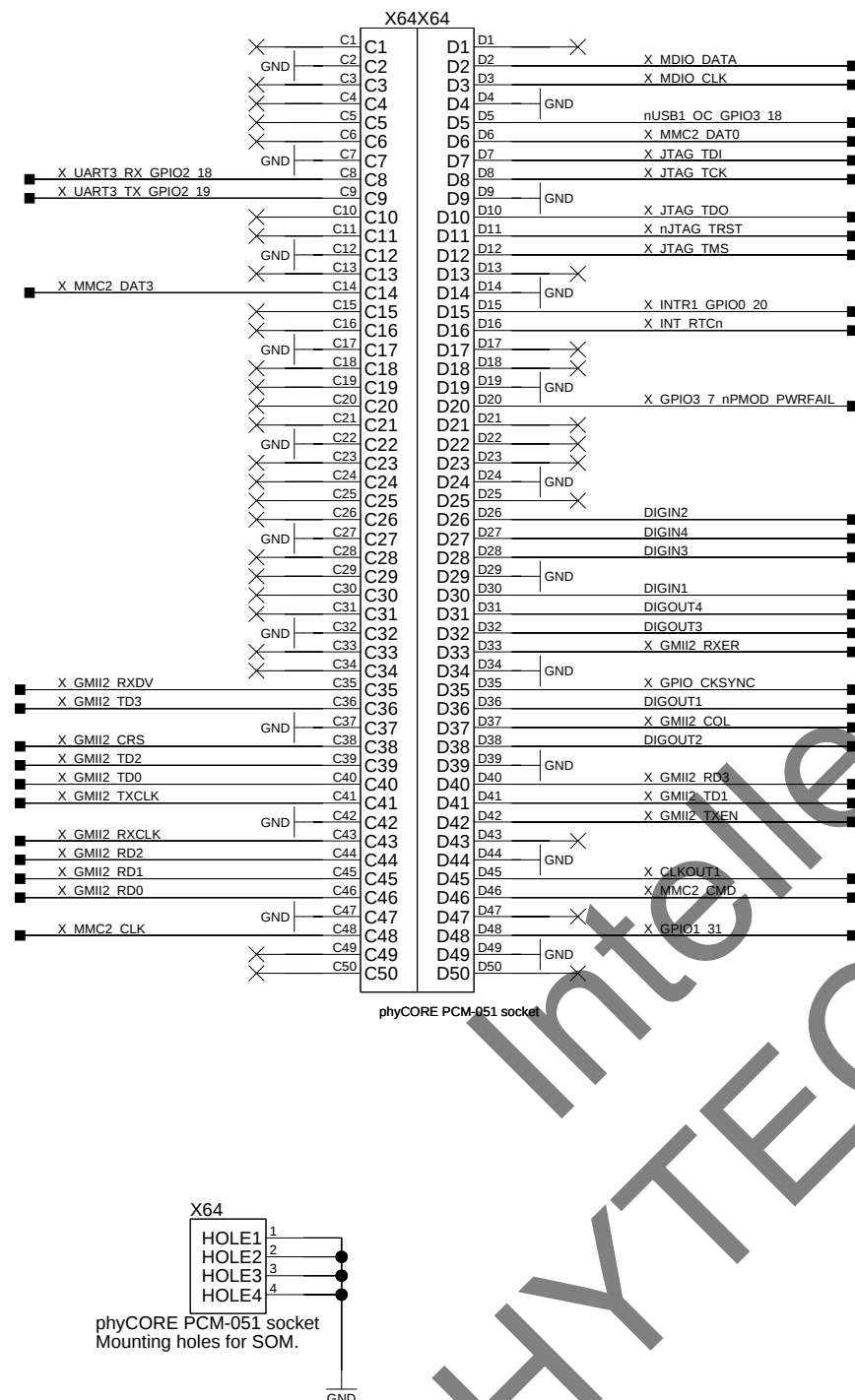
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phyCORE AM335x connectors

Optional Connector

Primary Connector



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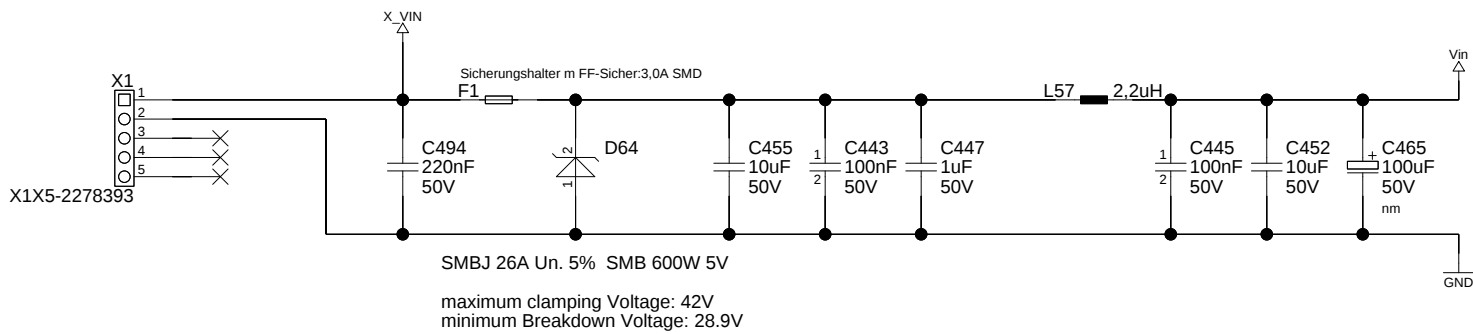
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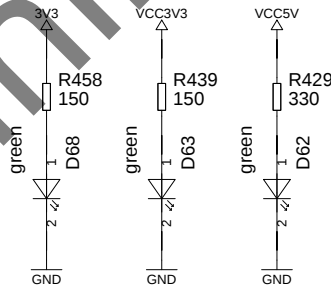
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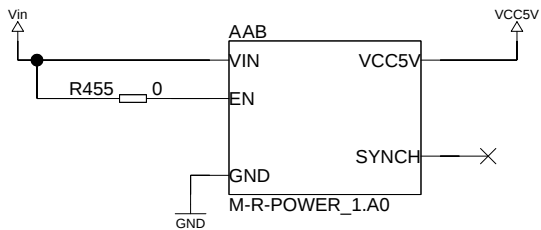
Power



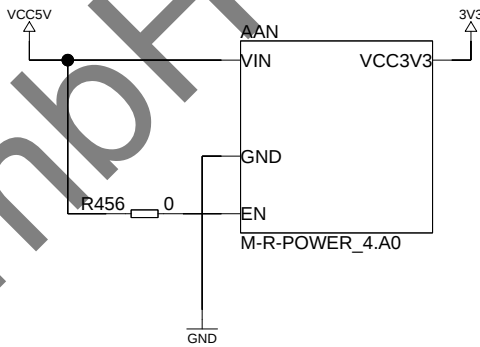
Voltage LED



5V/3A maximum



3.3V/1A maximum



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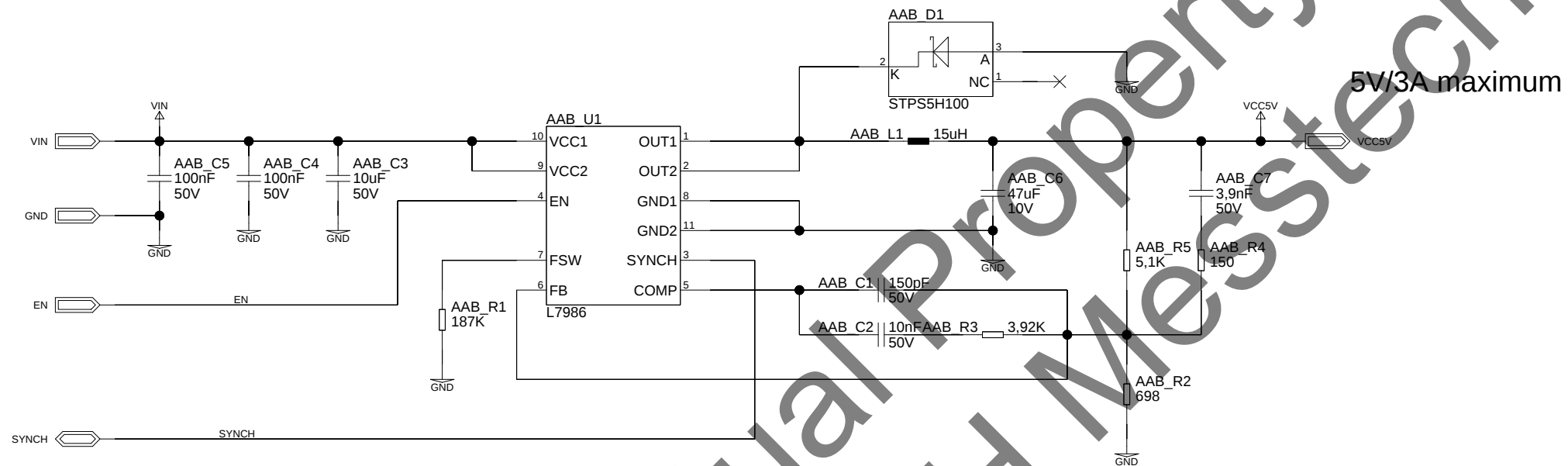
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M-R-POWER_1

5V Regulator 3A

Operating Votage: 12-24V +/- 10%

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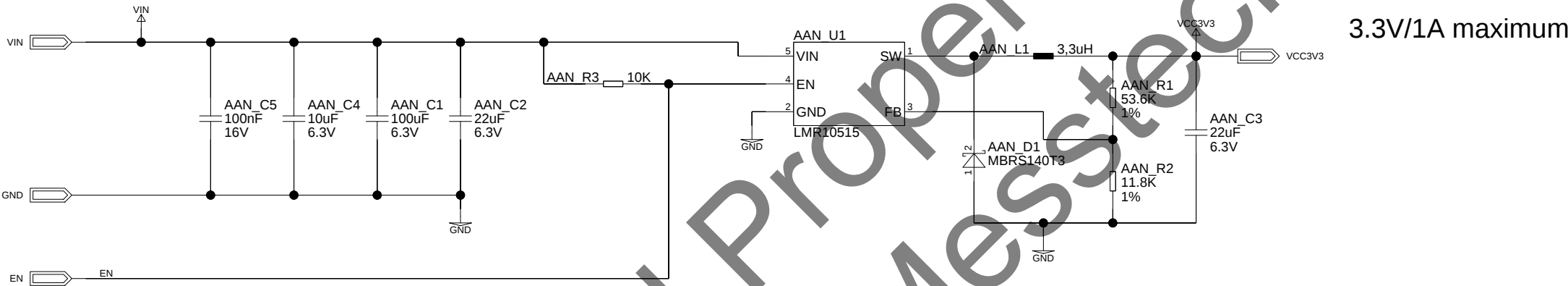
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Block Name: M-R-POWER_1	Block Prefix: AB	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-POWER_1.A0	Revision : 001	Sheet 5 of 23

M-R-POWER_4

Regulator 3V3/1A

Operating Votage: 5V +/- 10%

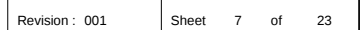
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Block Name: M-R-POWER_4	Block Prefix: AN	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-POWER_4.A0	Revision : 001	Sheet 6 of 23

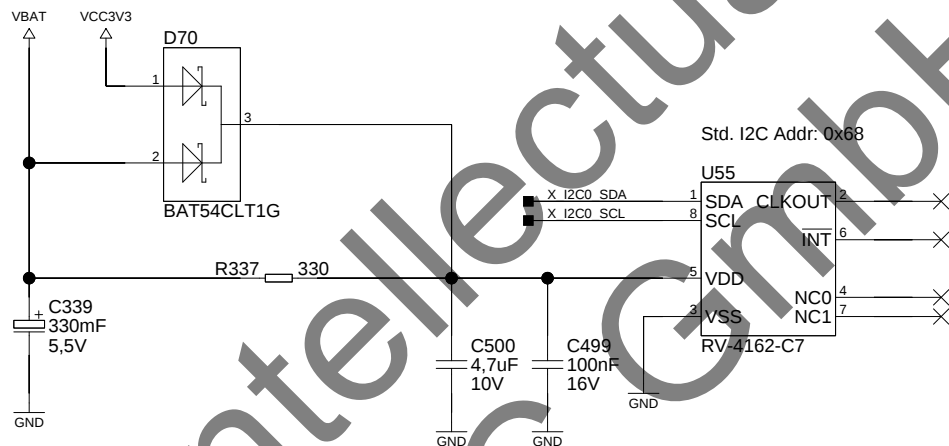
Power Up/Enable

Security Chip



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Backup RTC



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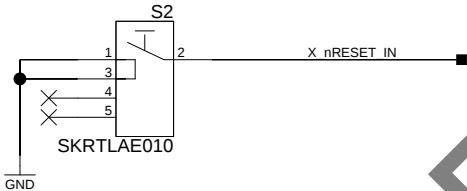
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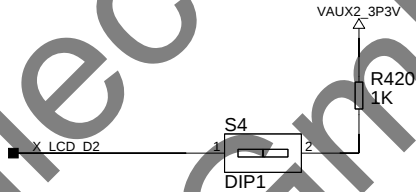
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Button/Switch

Reset Button



Boot Switch



Switch between Boot mode 1 and Boot mode 2:
Boot mode 1 (S4=OFF): SYSBOOT[4:0]=10011b: NAND, NANDI2C, MMC0, UART
Boot mode 2 (S4=ON) : SYSBOOT[4:0]=10111b: MMC0, SPI0, UART0, USB

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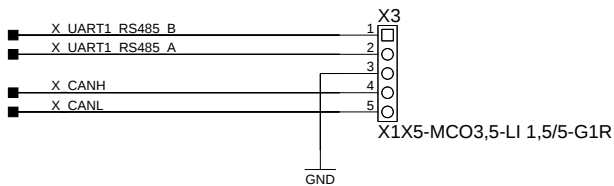
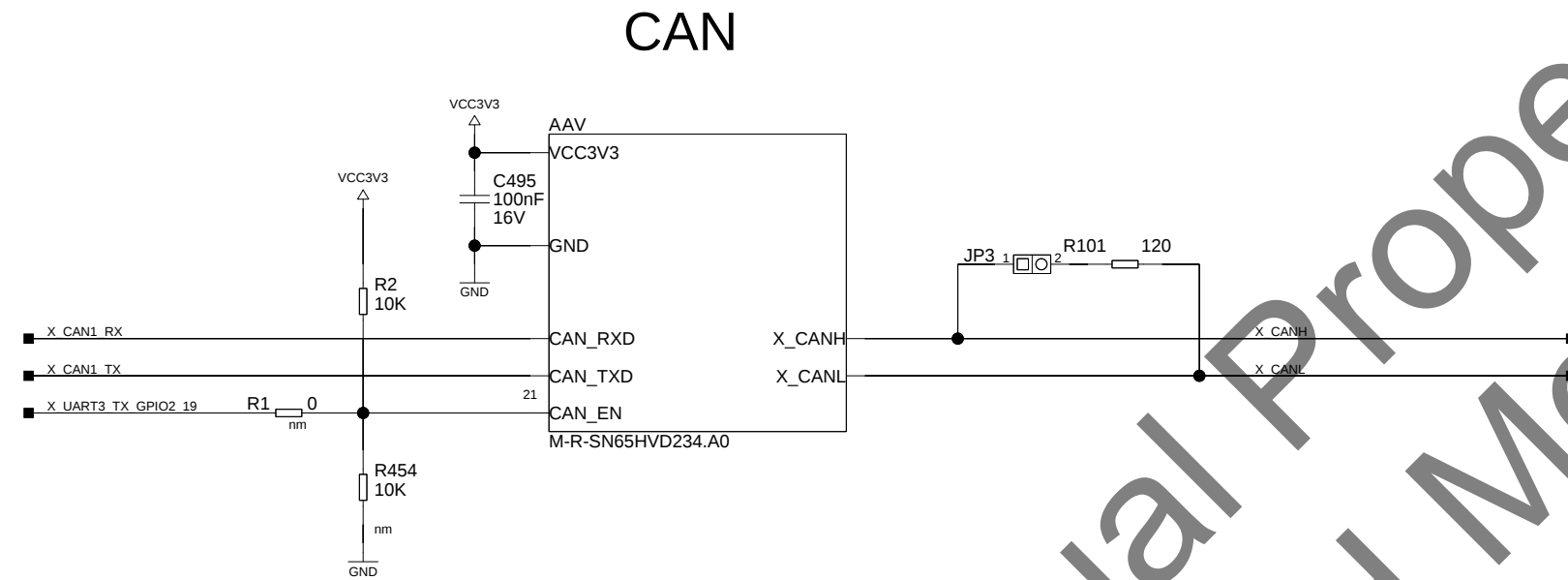
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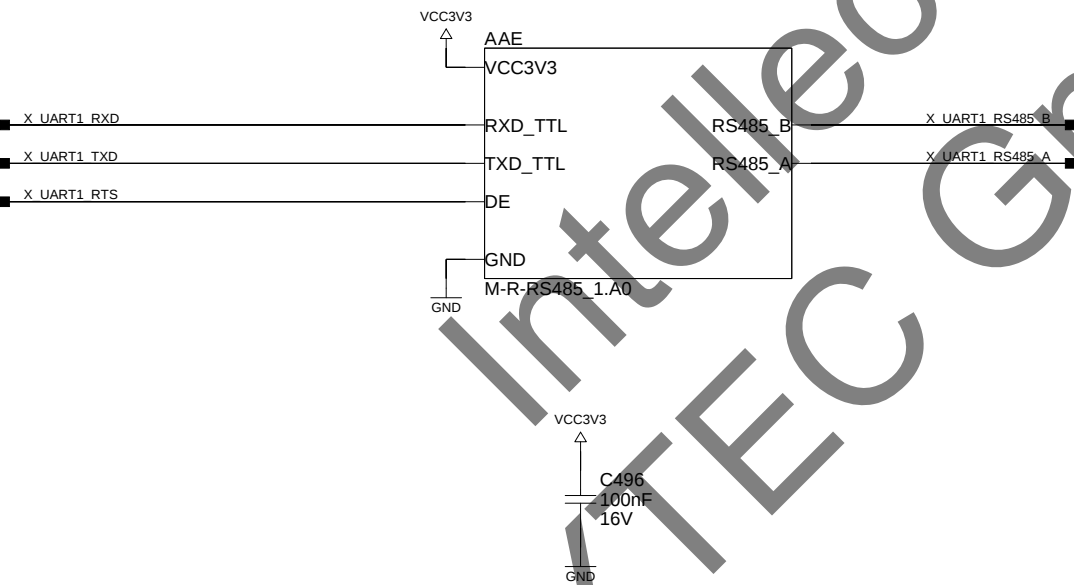
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CAN RS485



RS485



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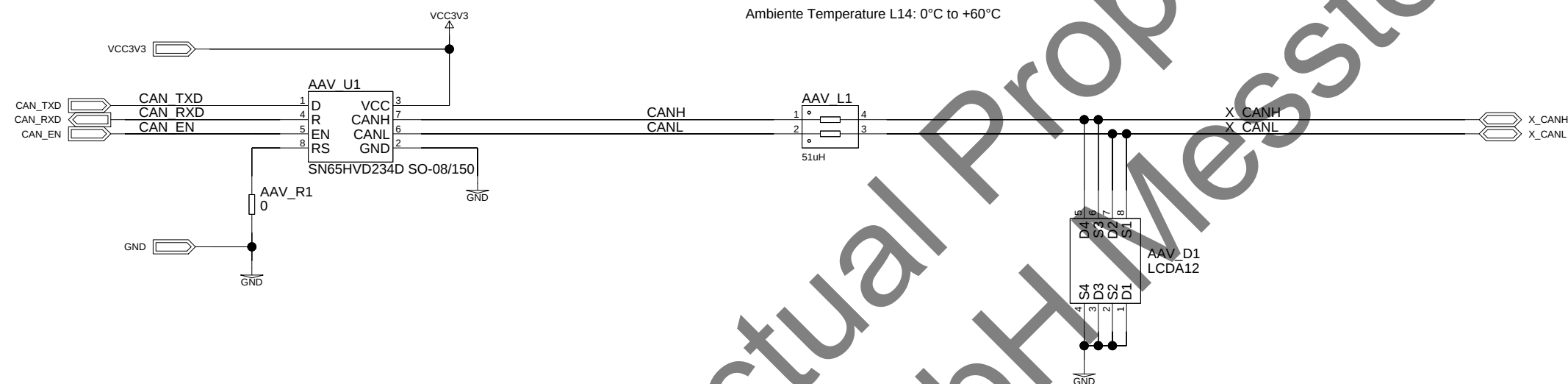
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M-R-SN65HVD234

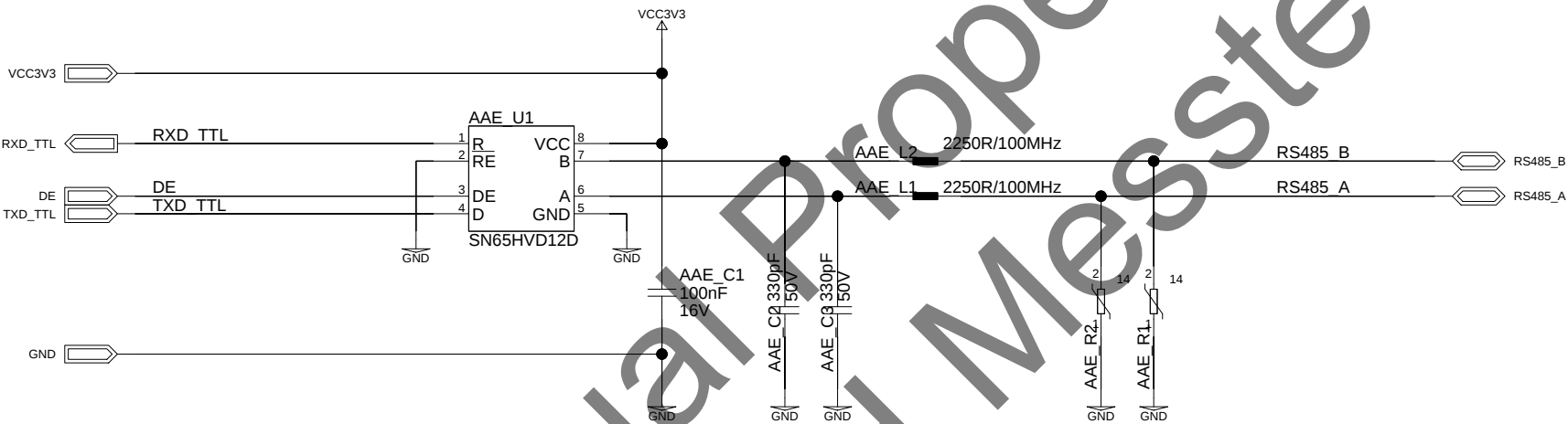
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Block Name: M-R-SN65HVD234		Block Prefix: AV	
		Department : F&E Author: T. Jacobus	
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M-R-RS485_1

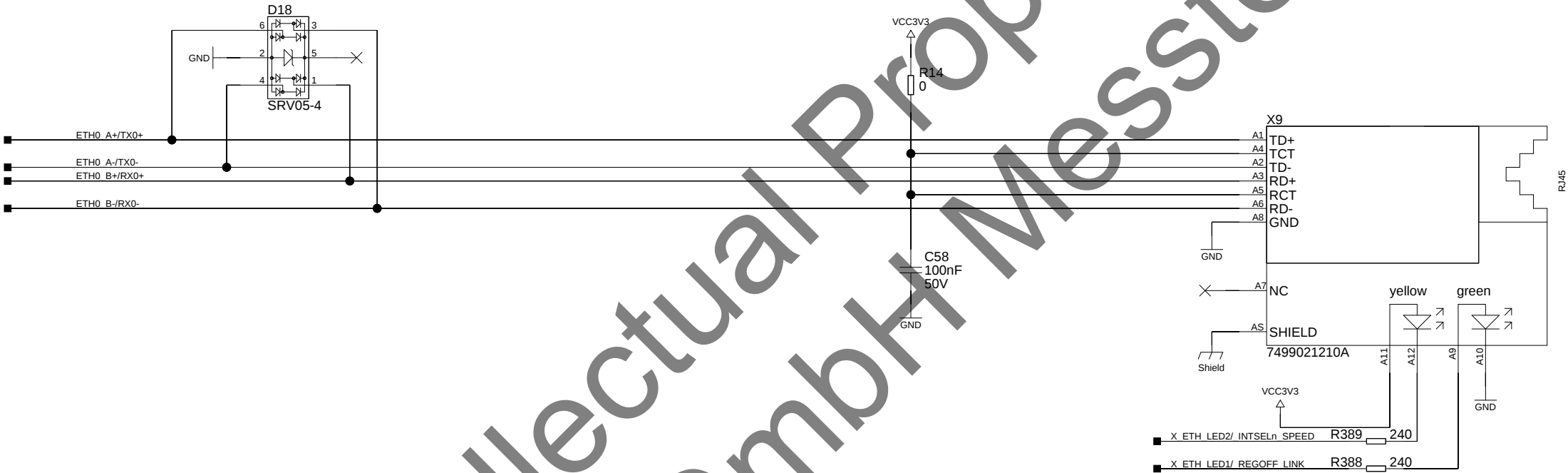
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Block Name: M-R-RS485_1	Block Prefix: AE	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-RS485_1.A0	Revision : 001	Sheet 12 of 23

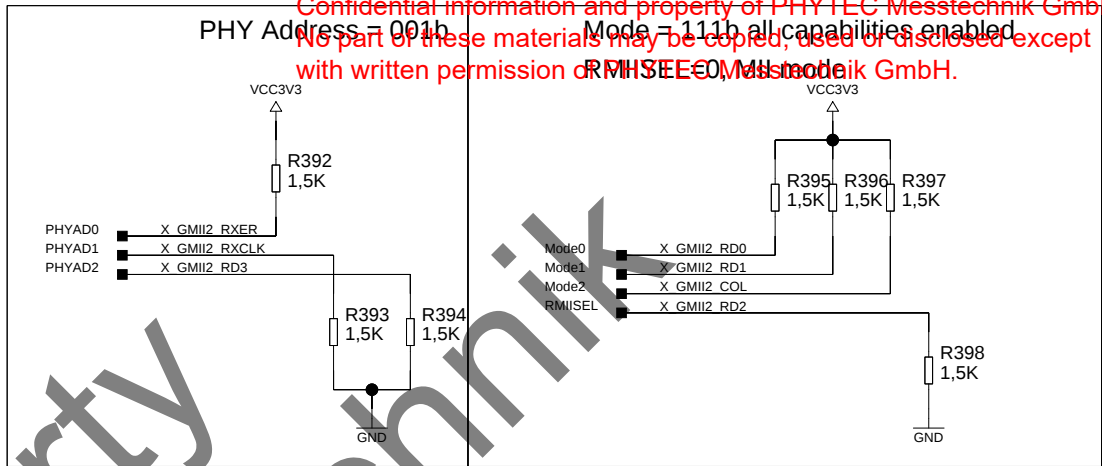
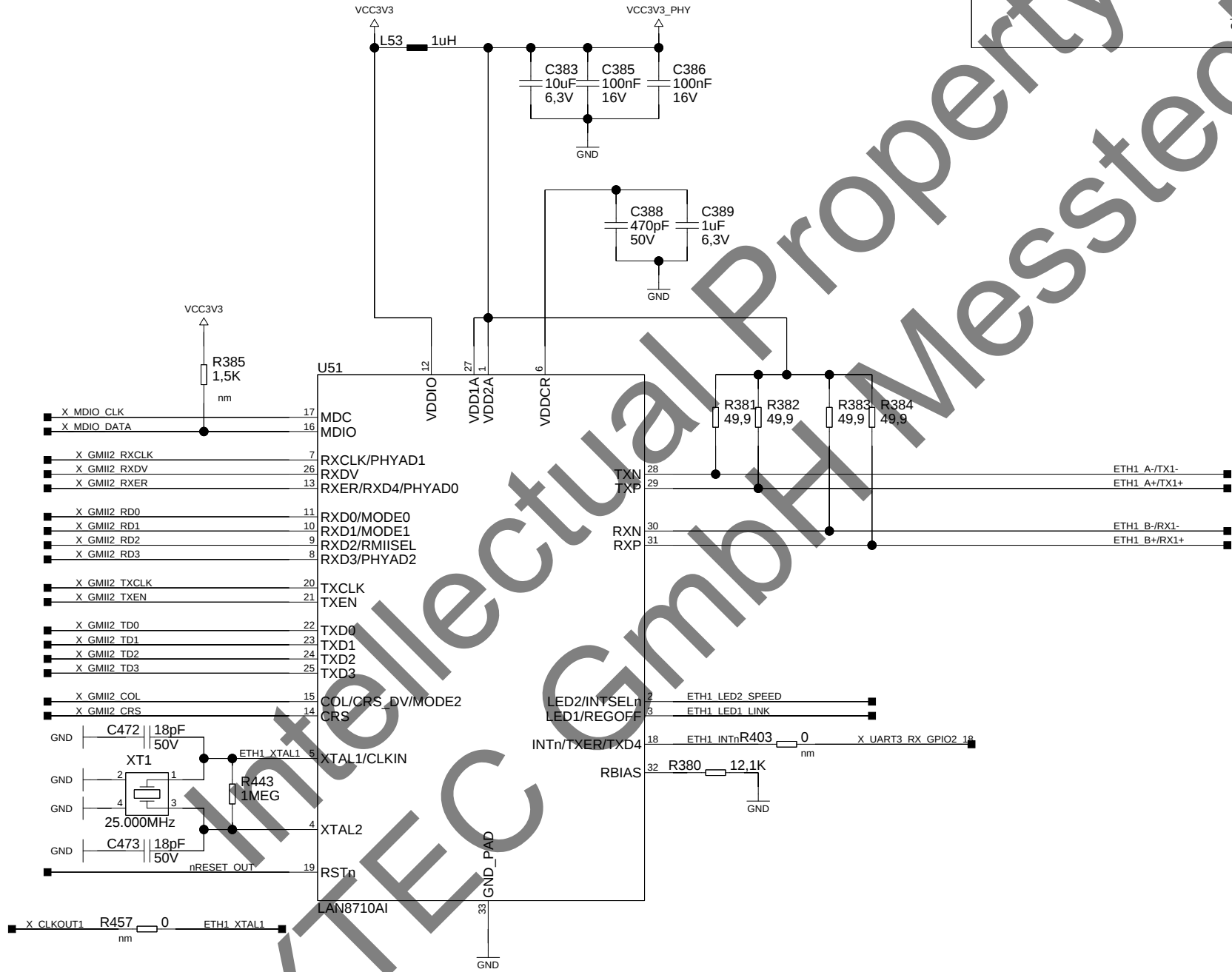
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Ethernet0 10/100Mbit



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ETH1 Phy



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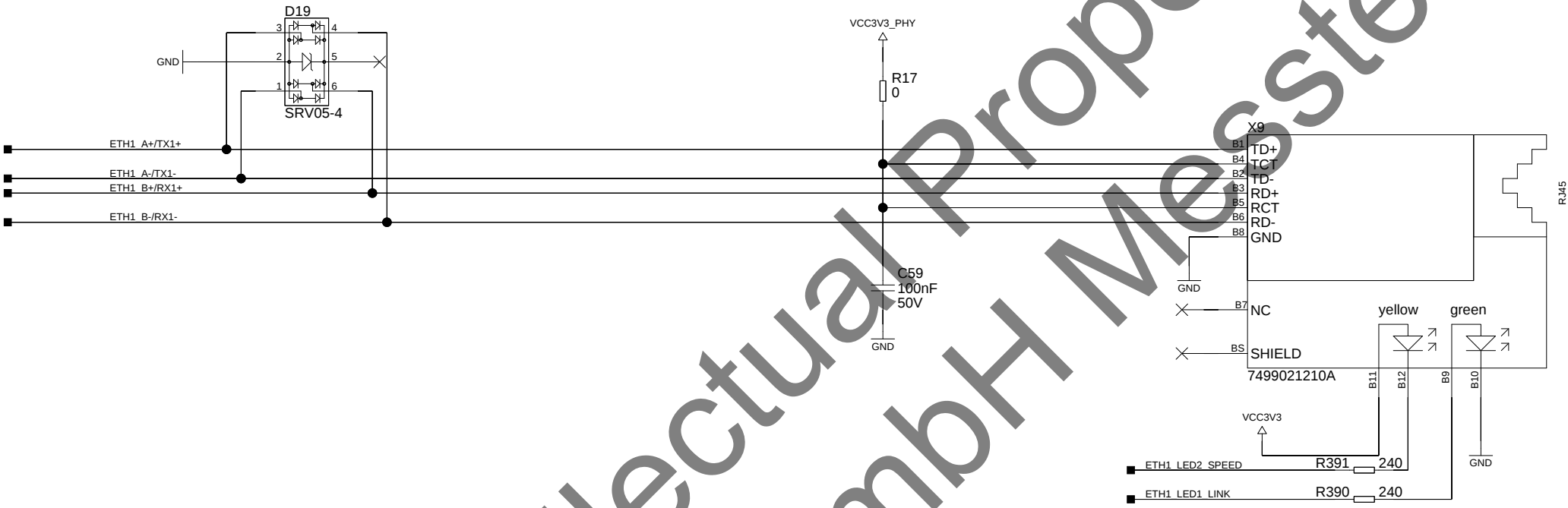
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Ethernet1 10/100Mbit



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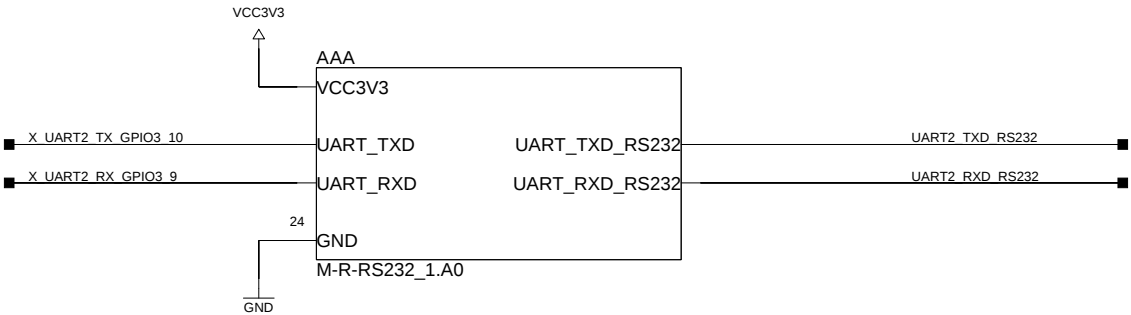
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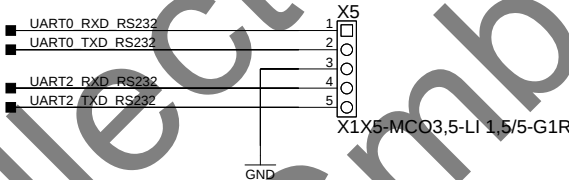
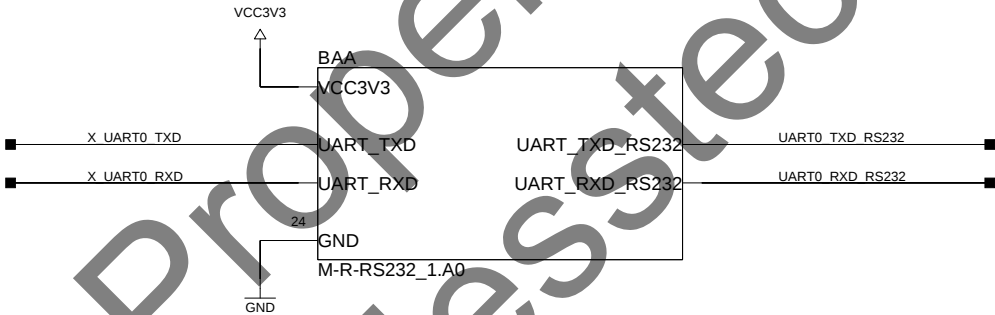
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RS232

UART2_RS232



UART0_RS232



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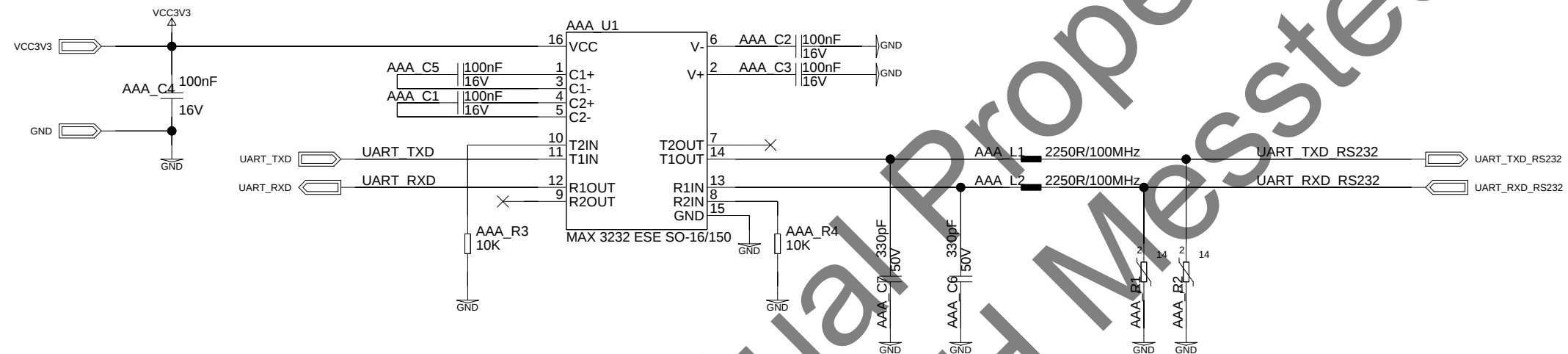
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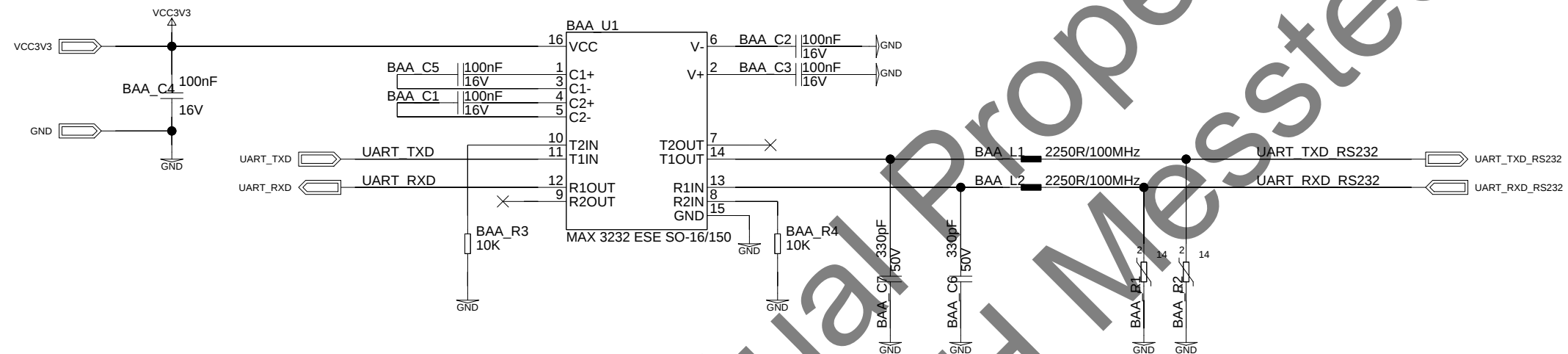
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Serial Transceiver 2 lanes



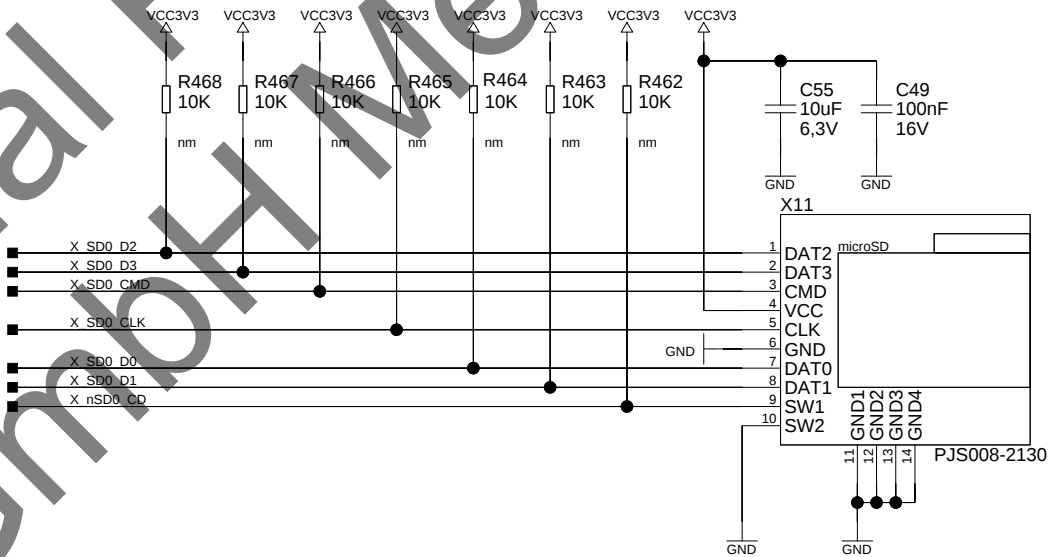
Serial Transceiver 2 lanes



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SD Card

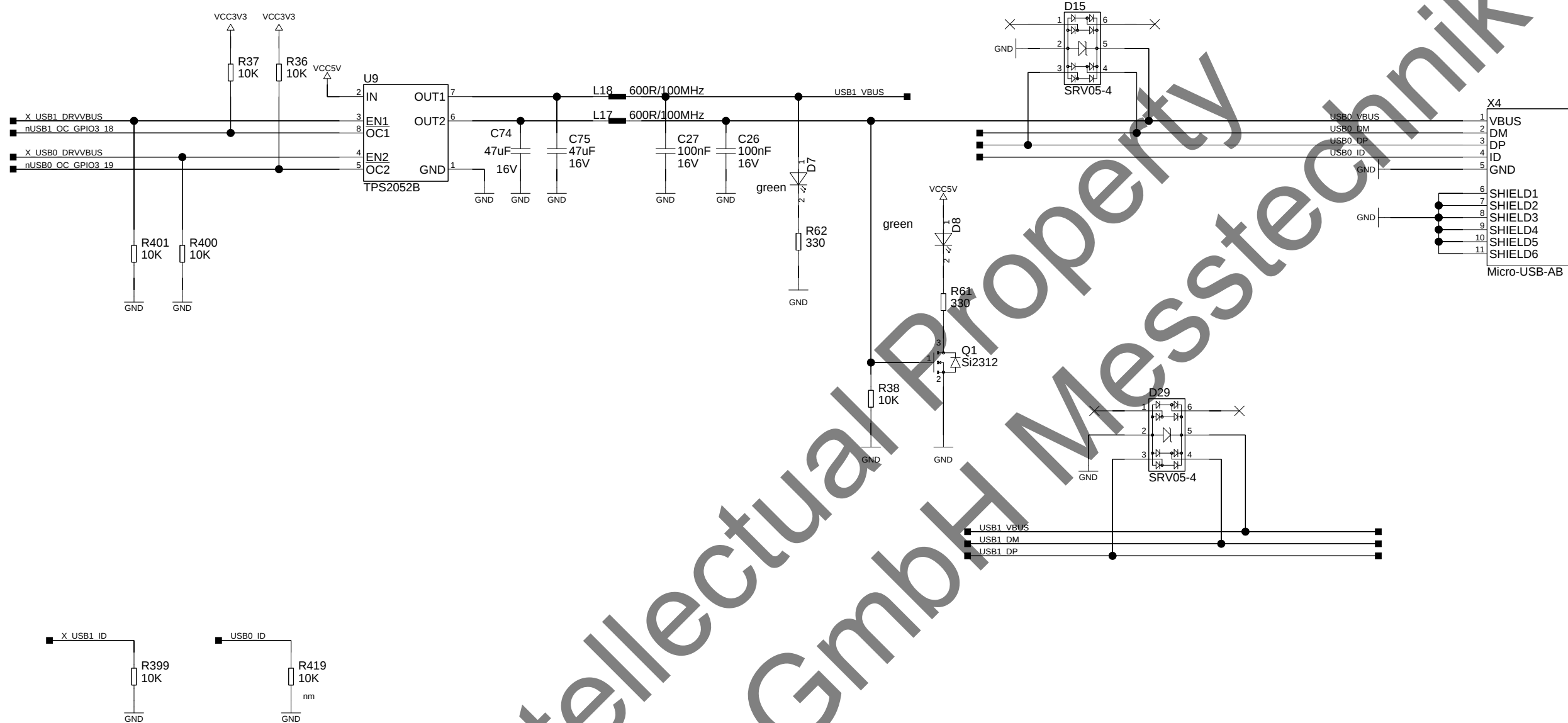
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USB

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USB-OTG

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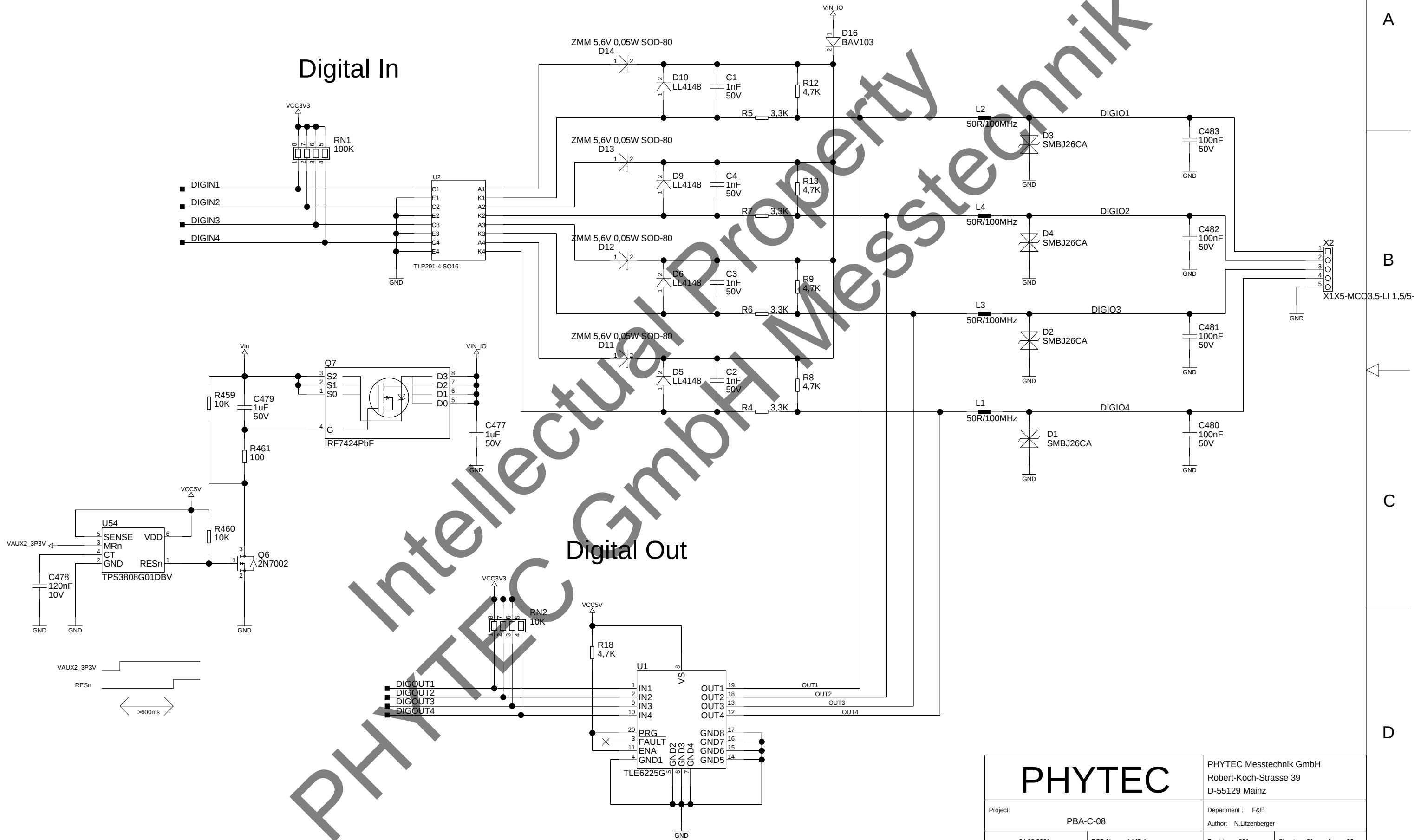
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Digital IO

Digital In

Digital Out



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A

B

C

D

A

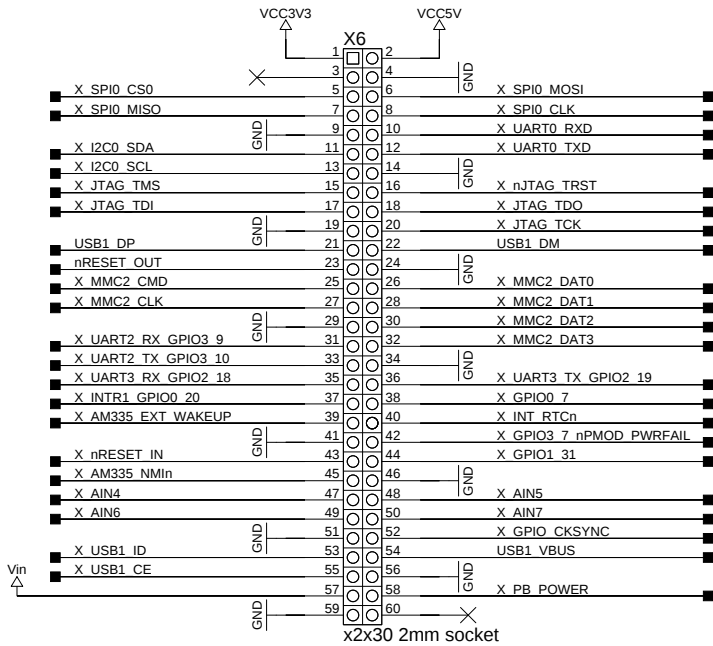
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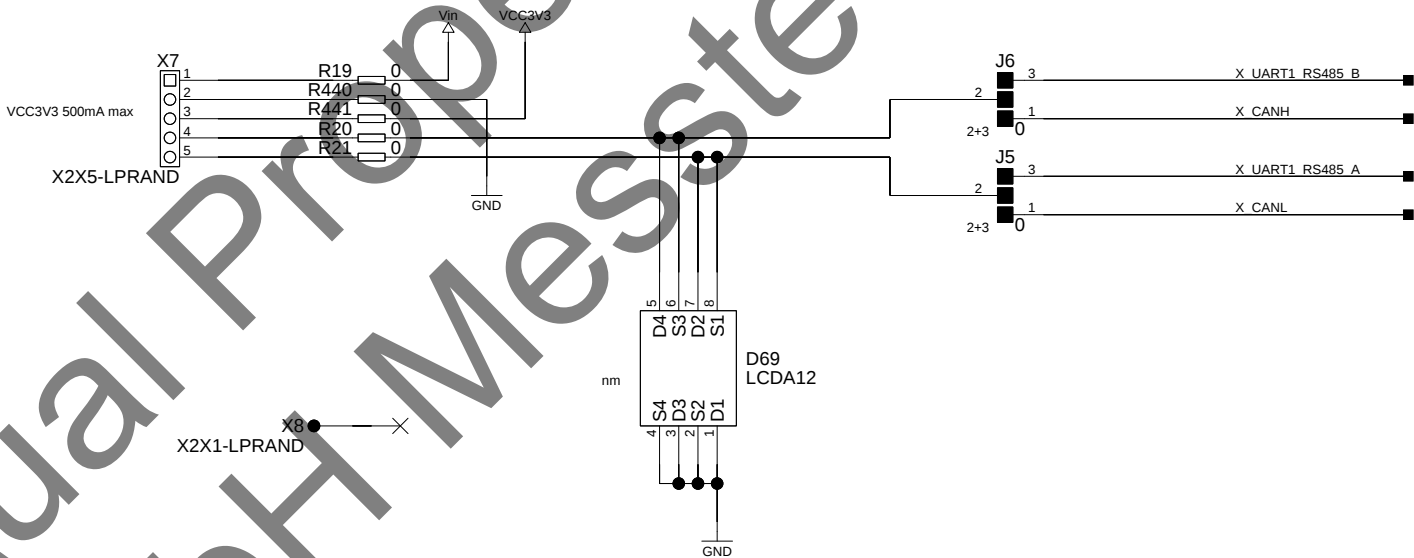
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Expansion Connector



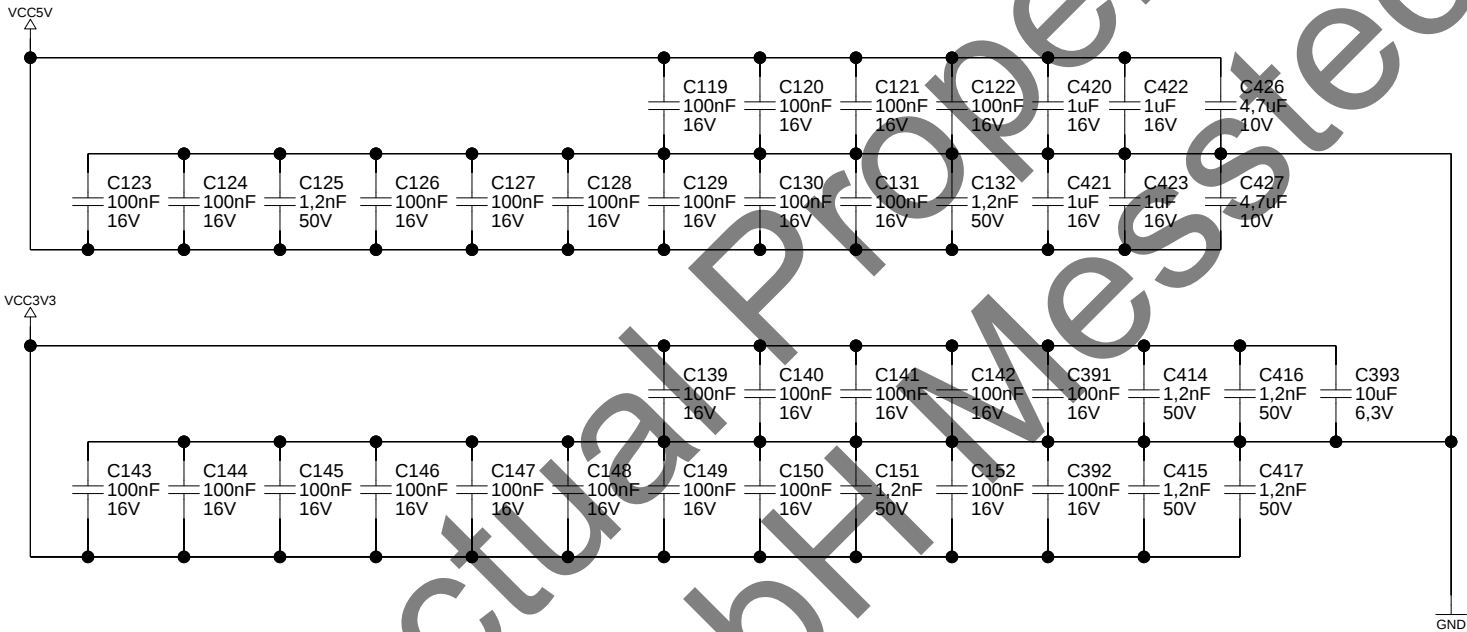
Cardedge Connector



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EMC Capacitors



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