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PBA-C-06

phyBOARD-Mira-i.MX 6

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Project: PBA-C-06 phyBOARD-Mira-i.MX 6		Department : F&E Author: R.Stidronski	
27.01.2016	PCB-No.: 1434.3	Revision : 001	Sheet 1 of 20

Project Overview

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14	CAN
15	Camera
16	HDMI
17	LVDS, Touch
18	A/V Connector
19	Expansion Connector
20	Blocking

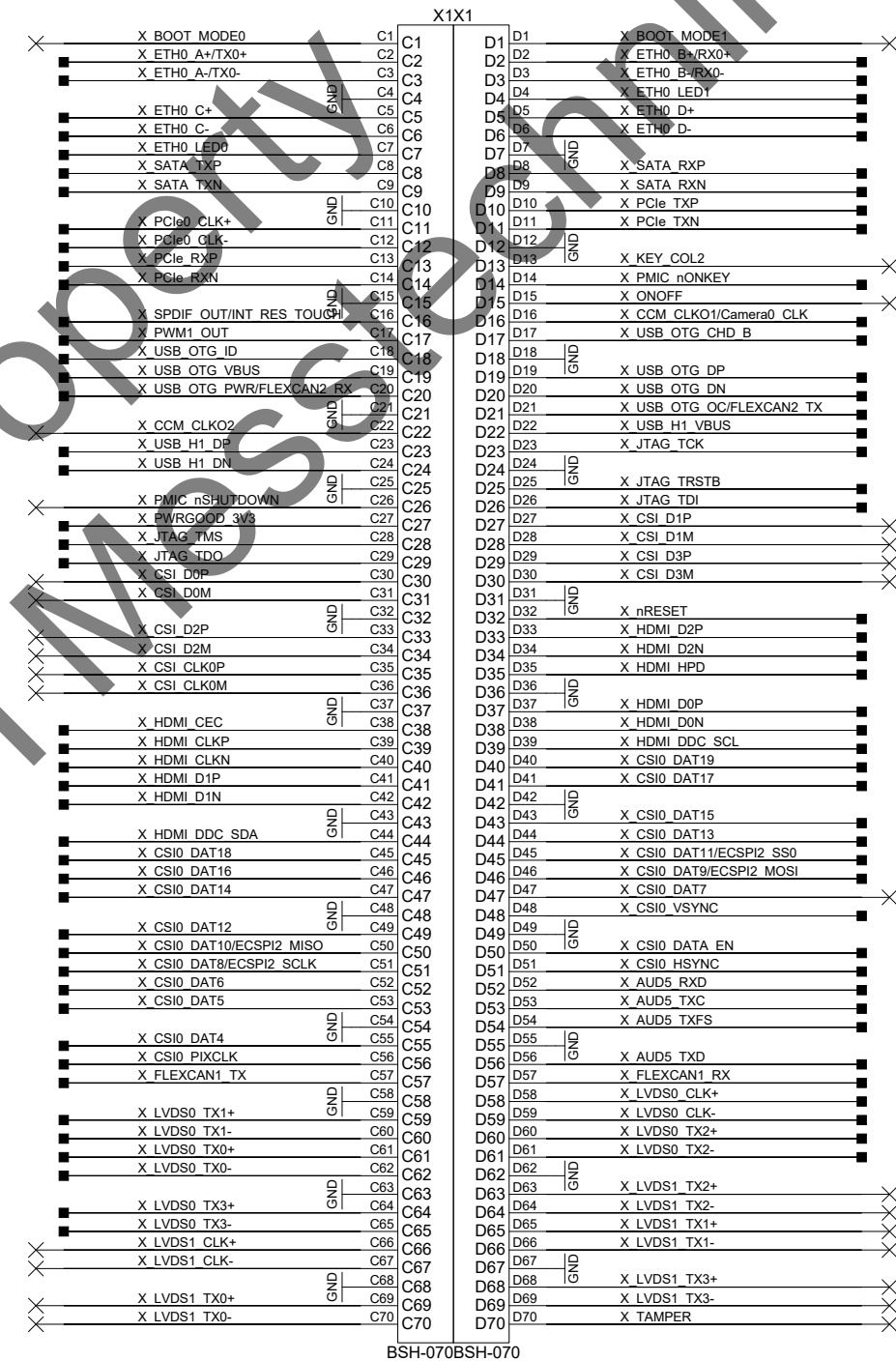
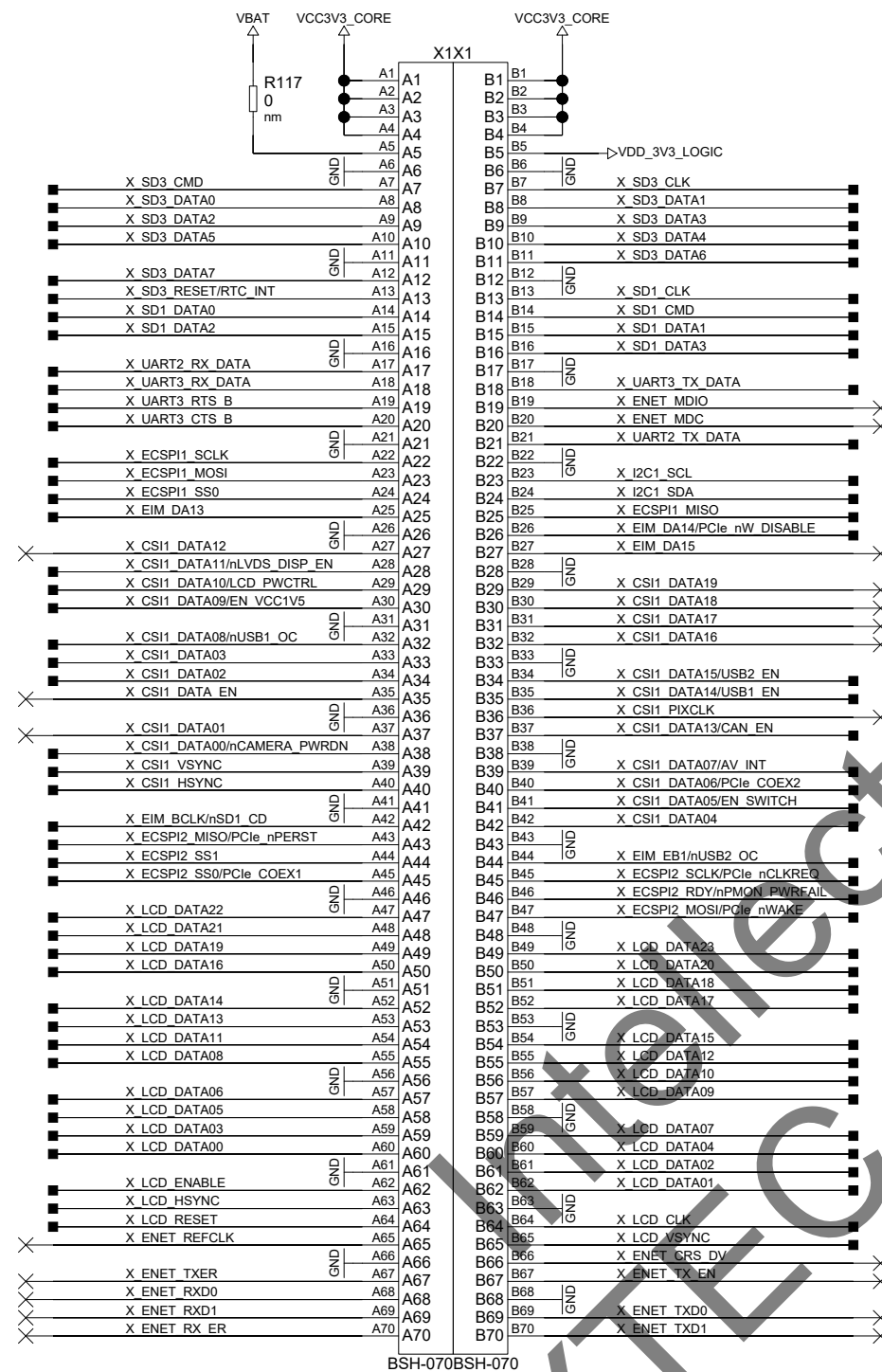
Operating Ratings
Operating Voltage: 5V +/- 5%
Size: 100mm x 72mm x 40mm

Onboard used I2C addresses with I2C1:
- 0x68 RTC
- 0x62 LED Dimmer
- 0x44 Touch

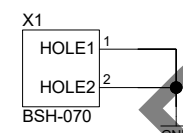
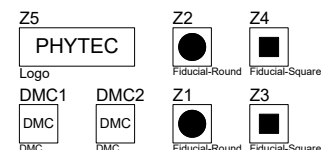
Please consider expansion boards
for additional I2C devices:
- A/V Connector
- Expansion Connector
- Mini PCIe Connector
- Camera Interface

	EUROPE	NORTH AMERIKA
Address:	PHYTEC Messtechnik GmbH Robert-Koch-Str. 39 D-55129 Mainz GERMANY	PHYTEC America LLC 203 Parfitt Way SW, Suite G100 Bainbridge Island, WA 98110 USA
Ordering Information:	+49 (6131) 9221-32 sales@phytec.de	1(800) 278-9913 sales@phytec.com
Technical Support:	+49 (6131) 9221-31 support@phytec.de	1(800) 278-9913 support@phytec.com
Fax:	+49 (6131) 9221-33	1(206) 780-9135
Web Site:	http://www.phytec.de http://www.phytec.eu	http://www.phytec.com

phyCORE-i.MX 6 Connector



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Author: R.Stidronski

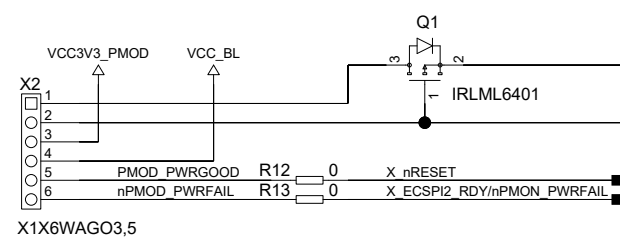
27.01.2016

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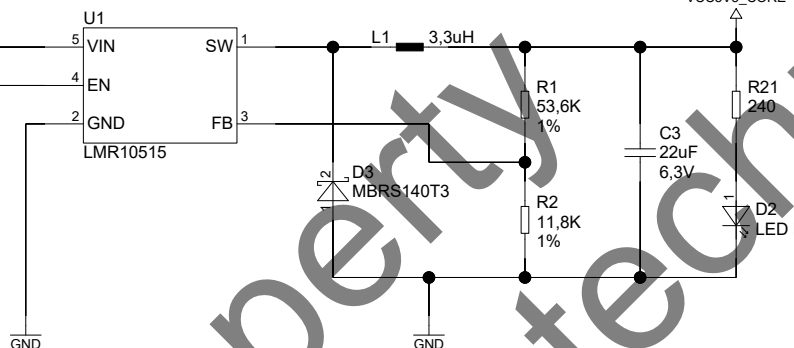
Revision : 001

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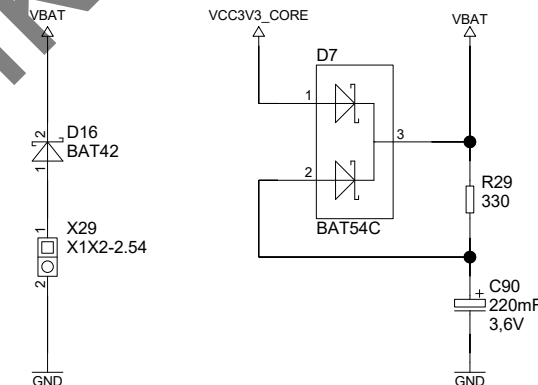
Power



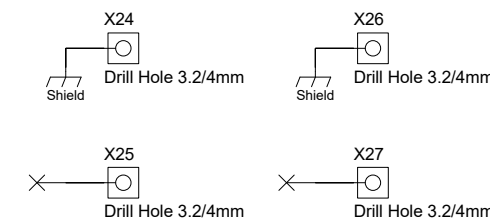
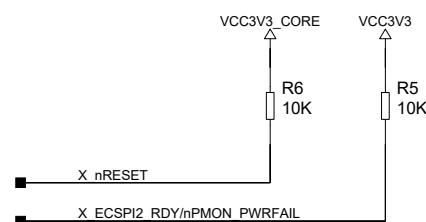
3.3V / 1.5A



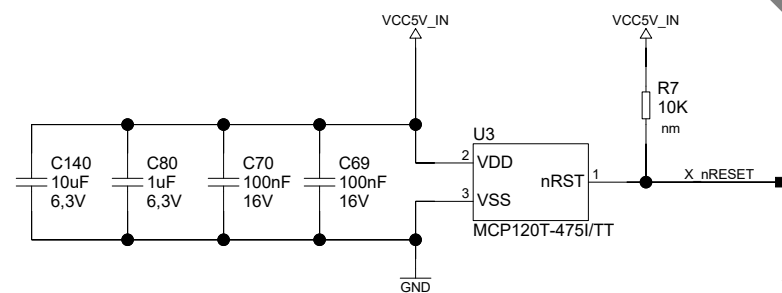
Backup Goldcap



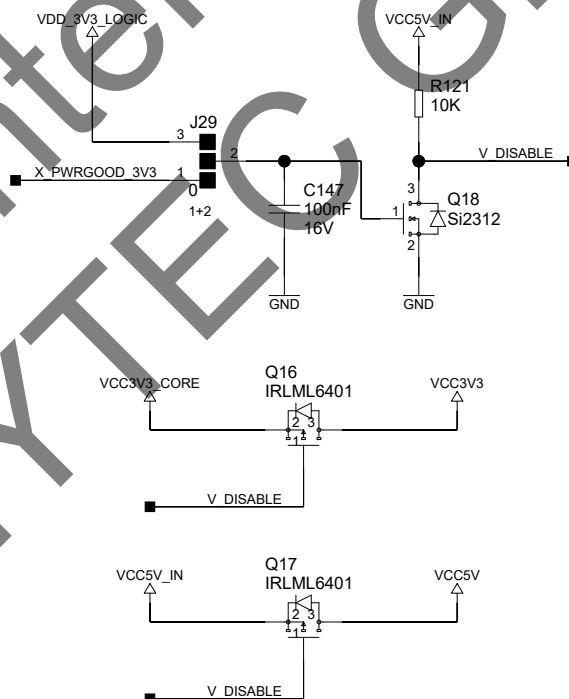
Goldcap C90 option:
- CG011: -25 to 85 C
- CG014: -45 to 85 C



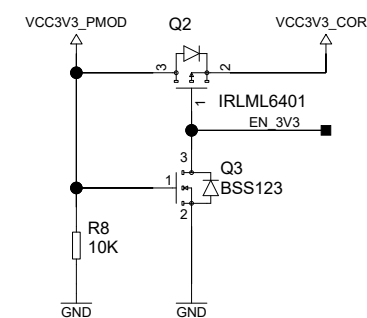
Voltage supervisor



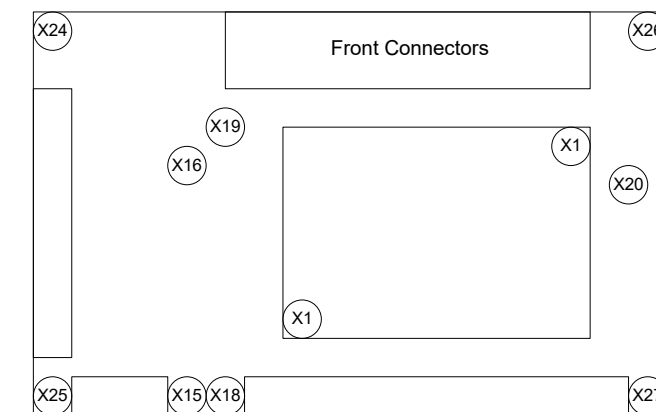
Enable board voltages



3V3 supply selector



Drill Hole placement



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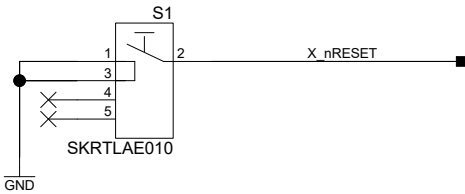
27.01.2016

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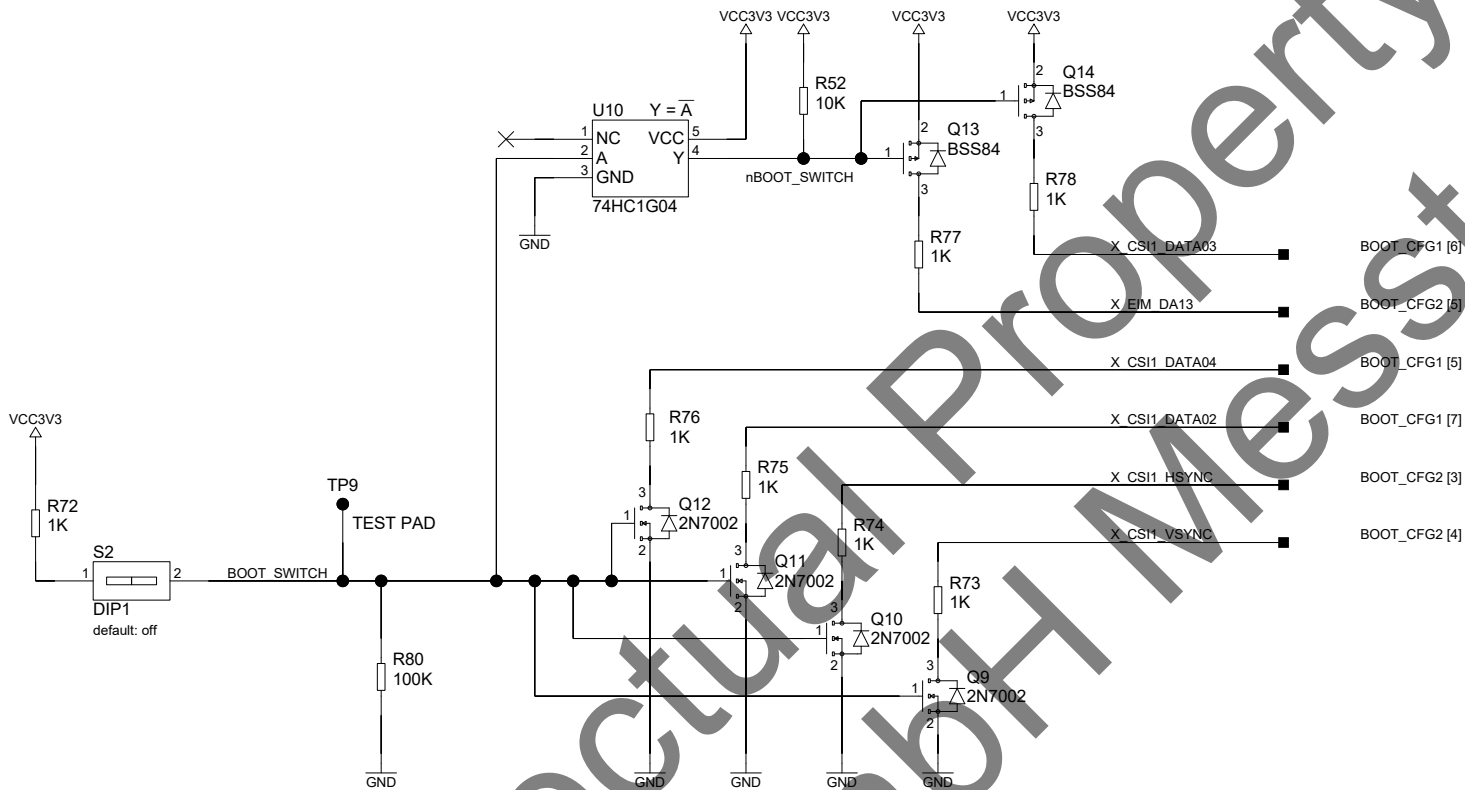
Revision: 001

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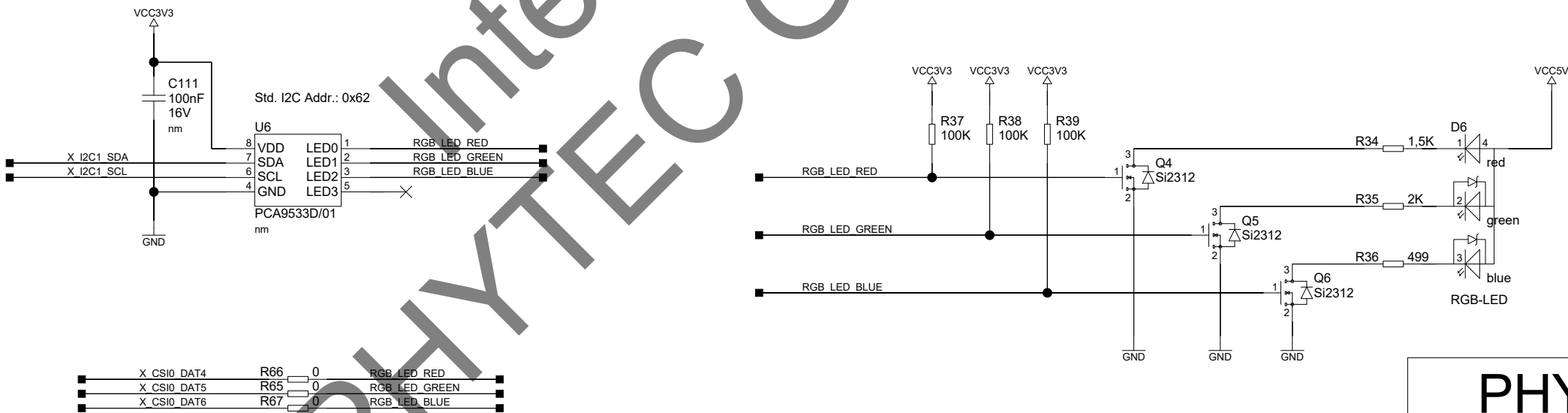
Reset Button



Boot Switch



Multicolor LED

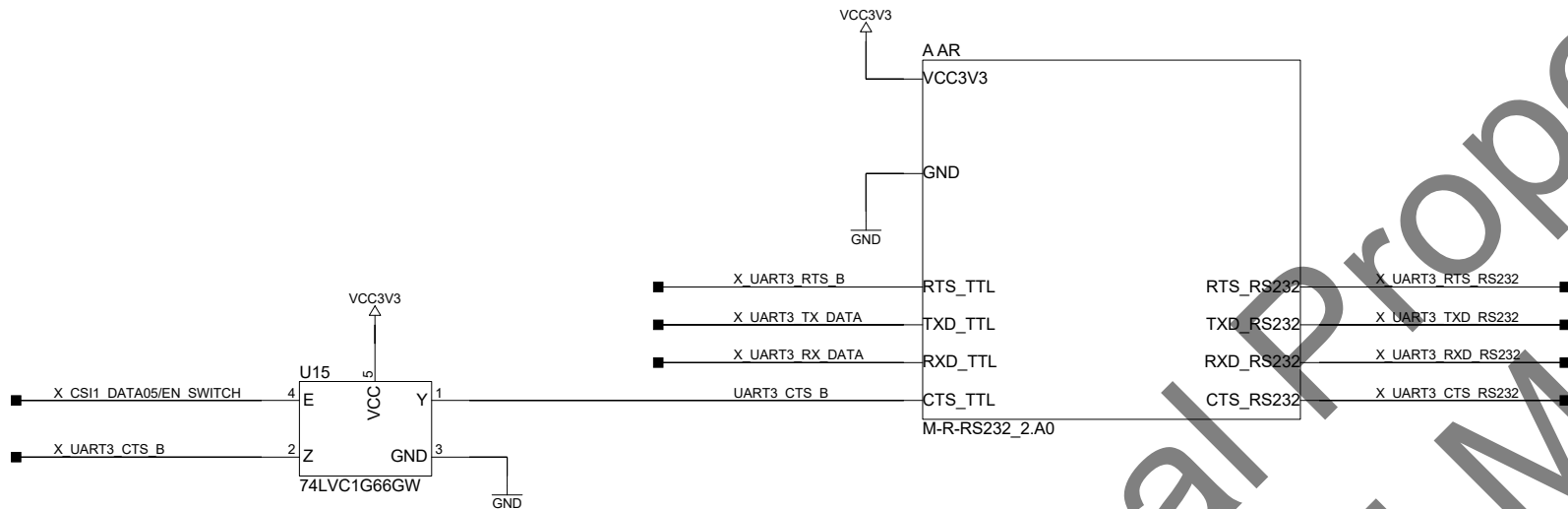


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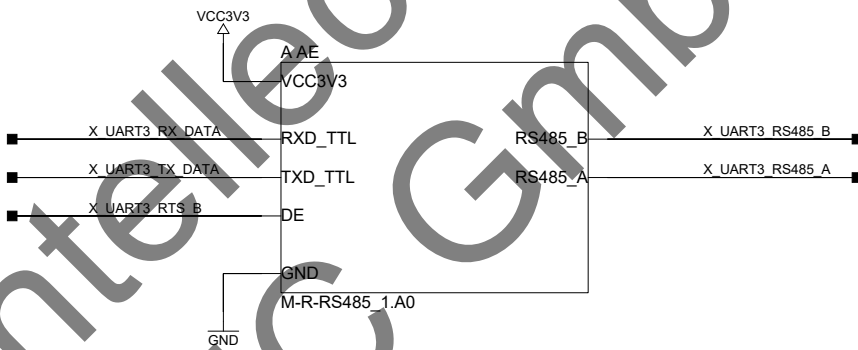
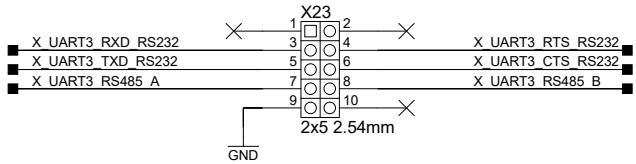
PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz		
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RS232 / 485

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place as close together as possible

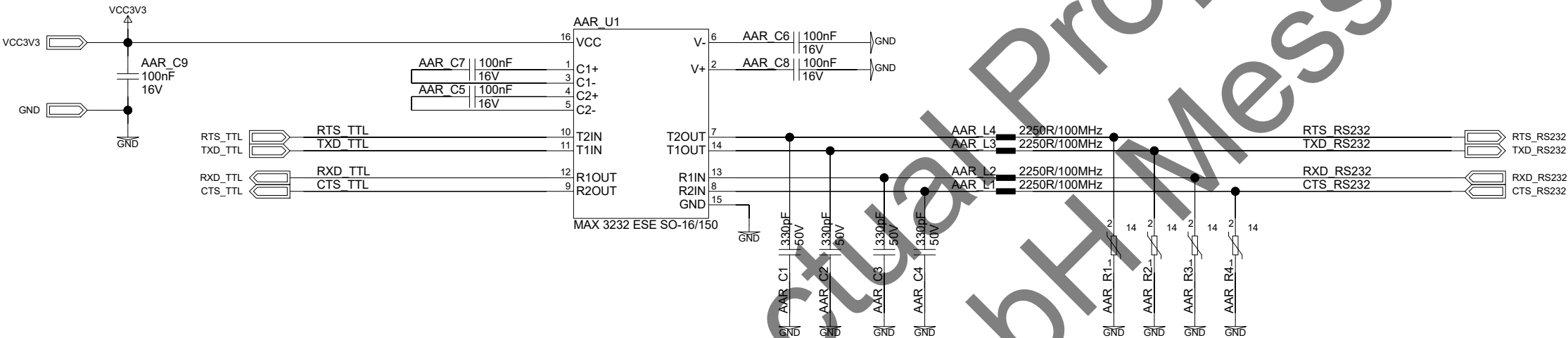


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M-R-RS232_2

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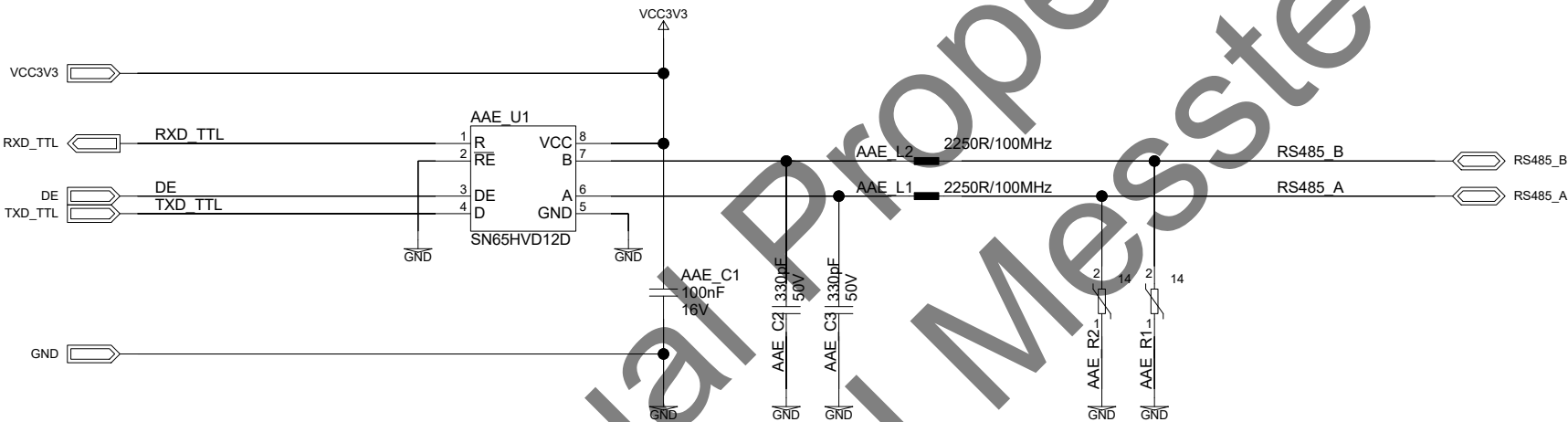
RS232 Transceiver



PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Block Name: M-R-RS232_2	Block Prefix: AR	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-RS232_2.A0	Revision : 001	Sheet 7 of 20

M-R-RS485_1

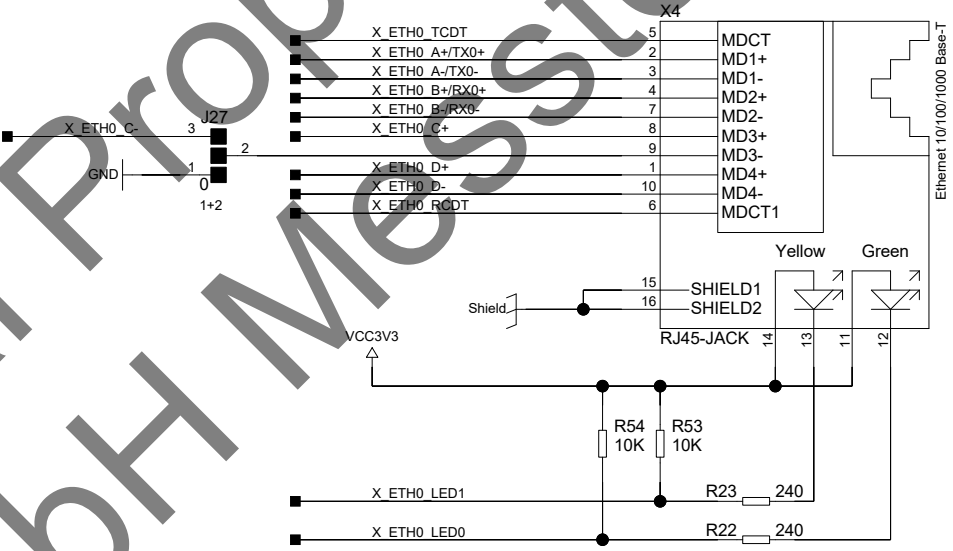
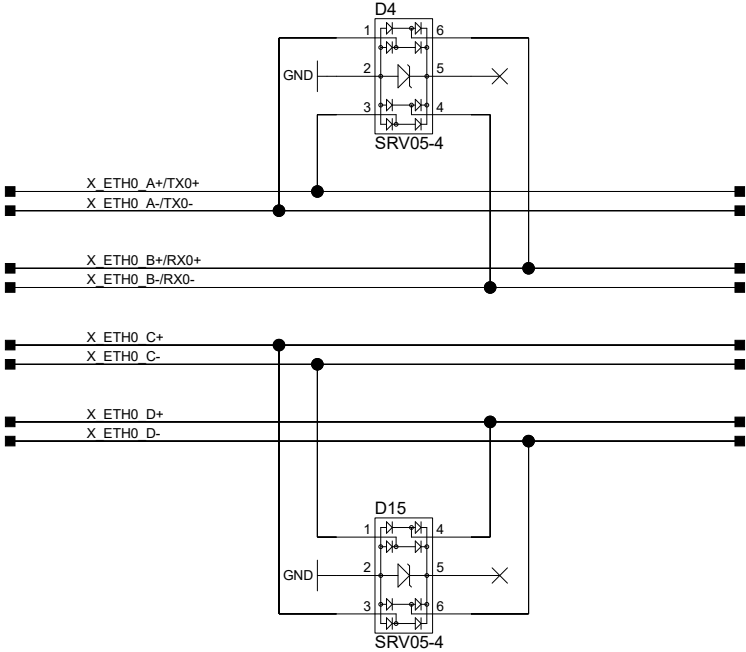
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Block Name: M-R-RS485_1	Block Prefix: AE	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-RS485_1.A0	Revision : 001	Sheet 8 of 20

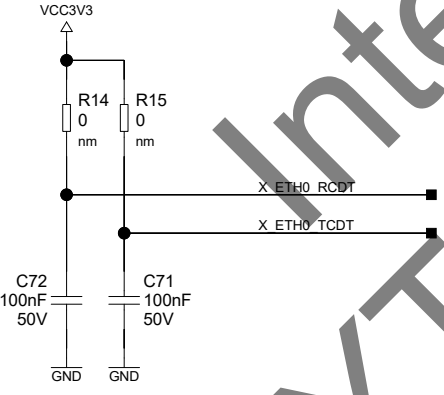
Ethernet 0

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For 10/100Mbit:
Industrial (-40 to +85 C): VE309
Commercial (0 to +70 C): VE363
Set J27 to 1+2 if 10/100Mbit jack is used

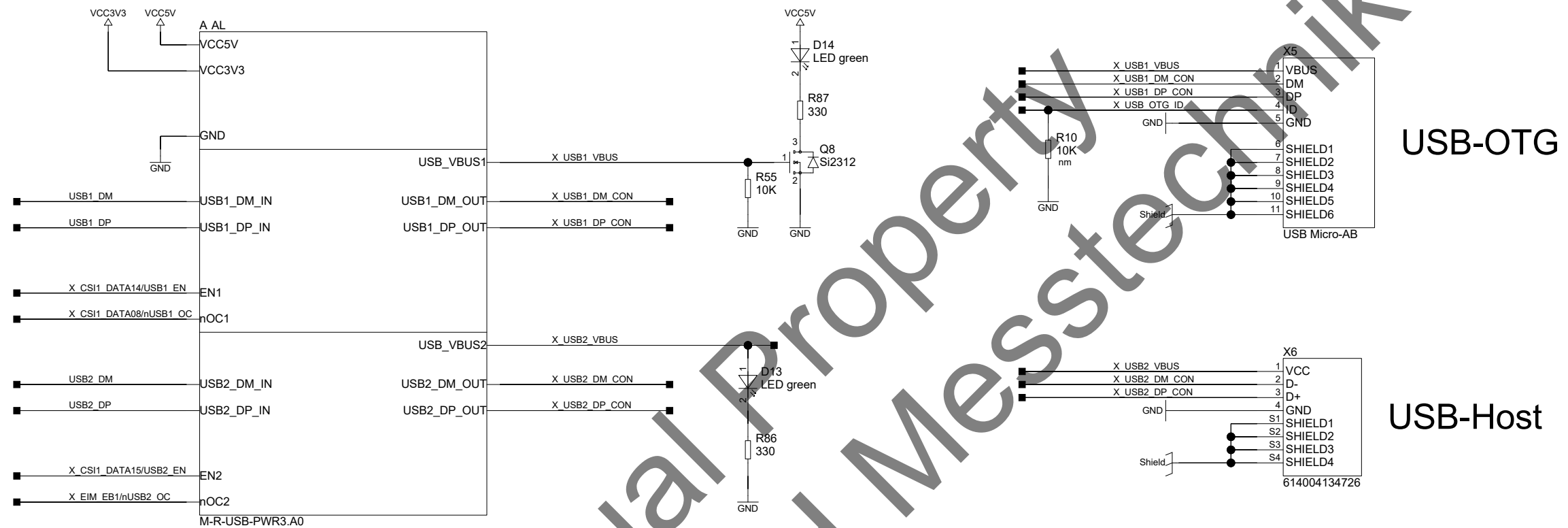
For 10/100/1000Mbit:
Commercial (0 to +70 C): VE412
Set J27 to 2+3 if Gbit jack is used



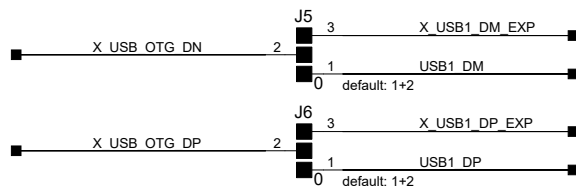
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Project: PBA-C-06 phyBOARD-Mira-i.MX 6		Department : F&E Author: R.Stidronski	
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USB

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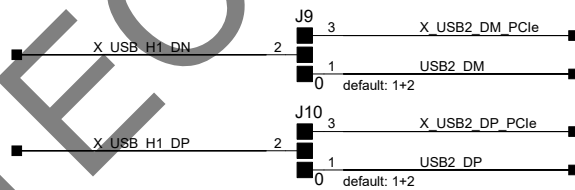


Jumper for USB1 OTG on micro USB or expansion connector

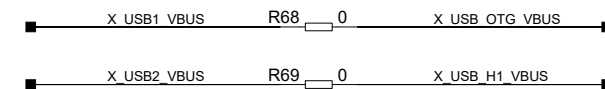


USB1 OTG on Micro-USB connector X5: J5+J6=1+2
USB1 OTG on expansion connector X17: J5+J6=2+3

Jumper for USB2 HOST on USB-A or mini PCIe connector



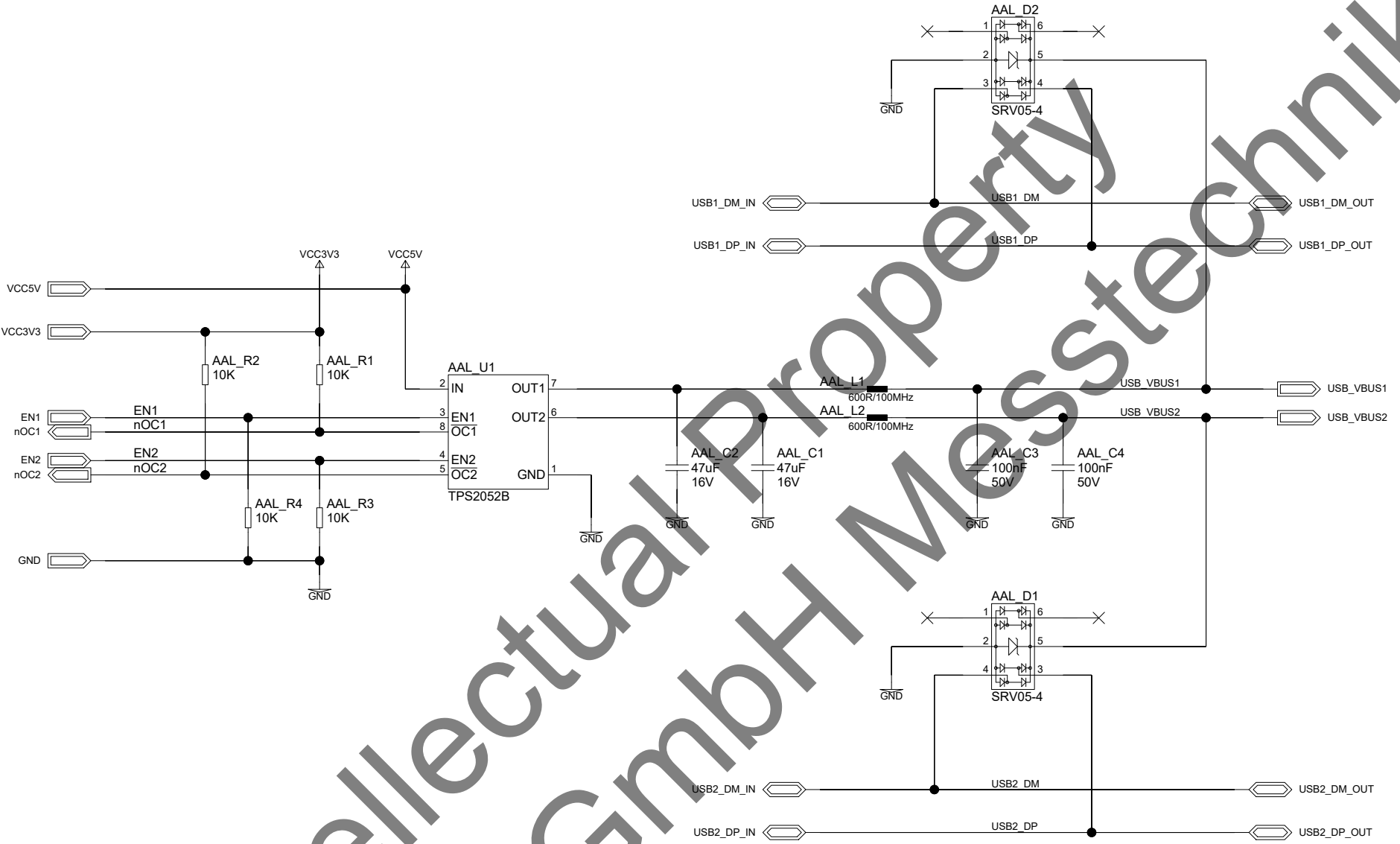
USB2 on USB-A connector X6: J9+J10=1+2
USB2 on mini PCIe connector X7: J9+J10=2+3



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M-R-USB-PWR3

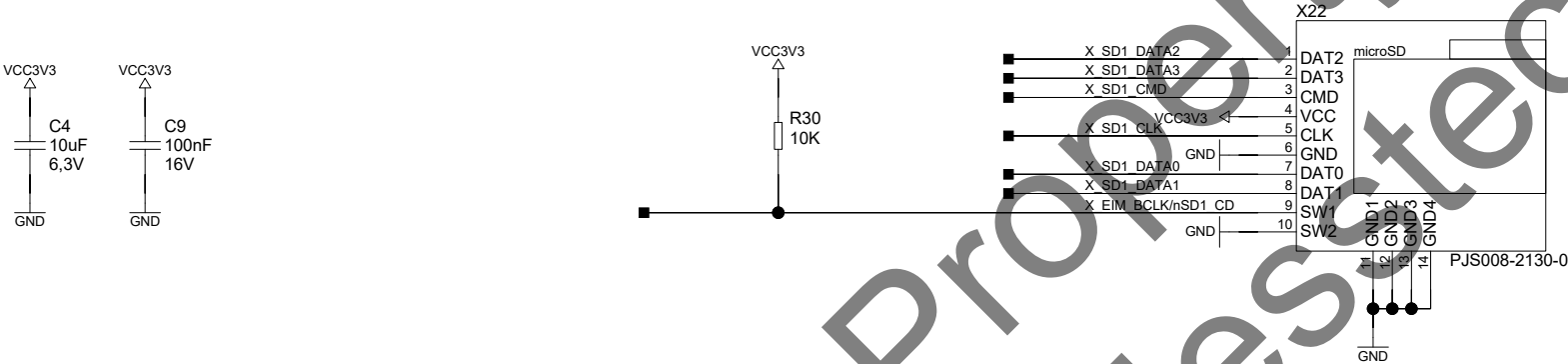
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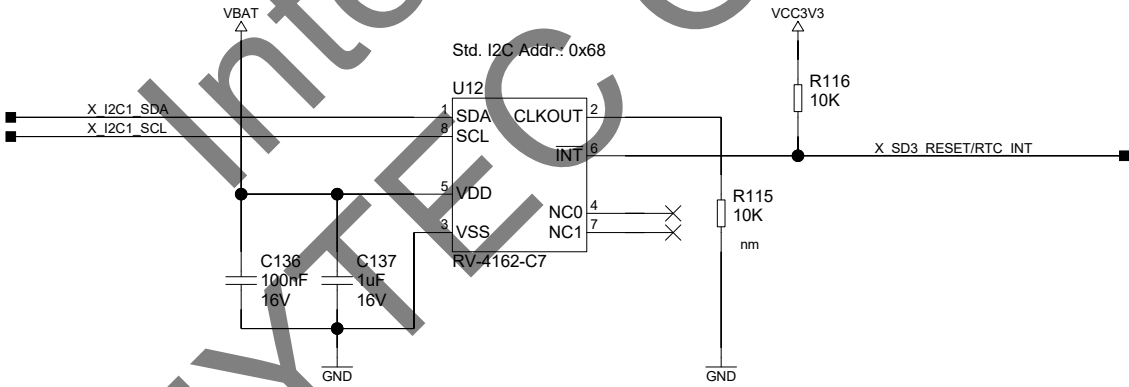
PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Block Name: M-R-USB-PWR3	Block Prefix: AL	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-USB-PWR3.A0	Revision : 001	Sheet 11 of 20

Micro SD Card

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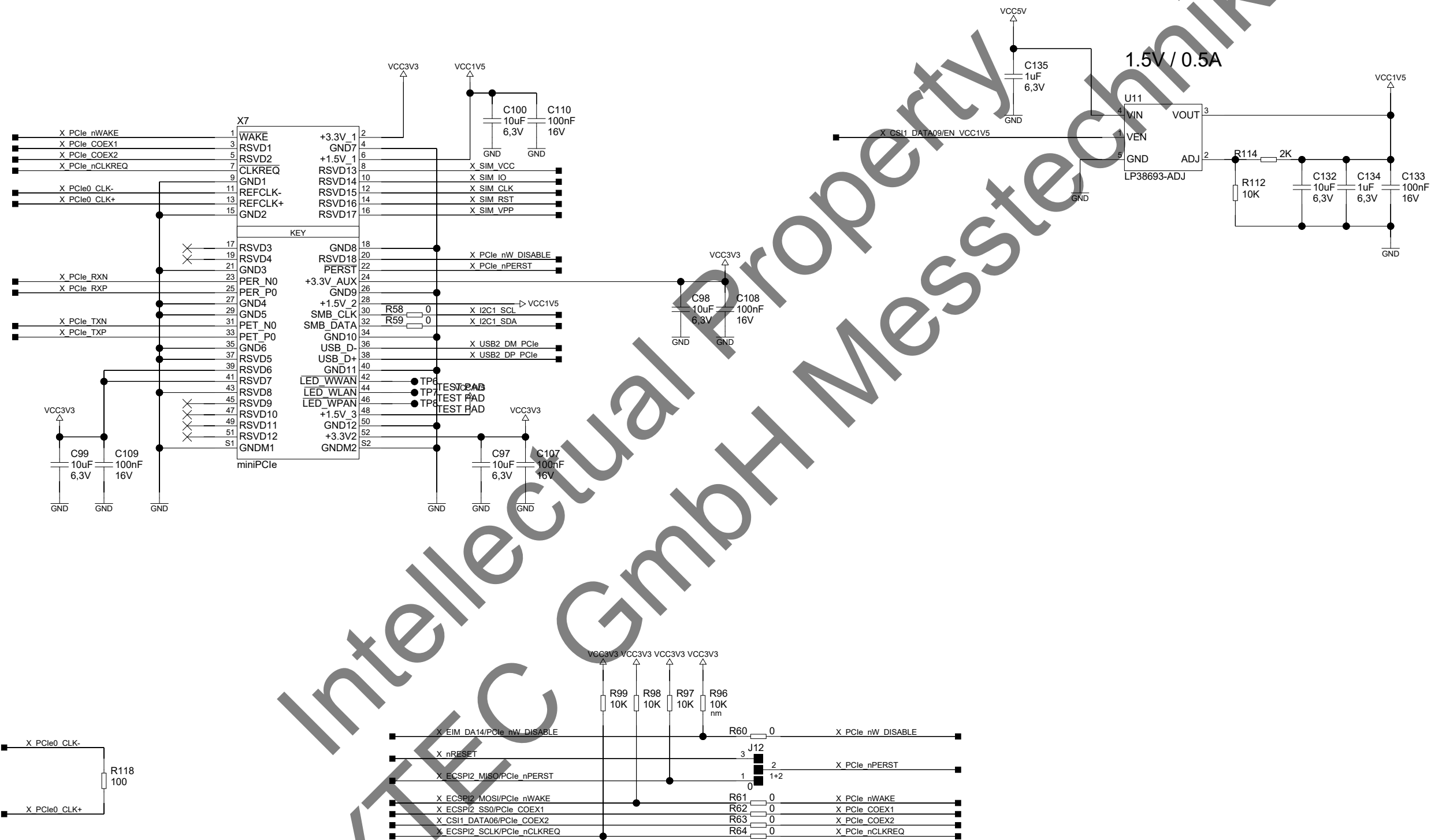
RTC



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Mini PCIe

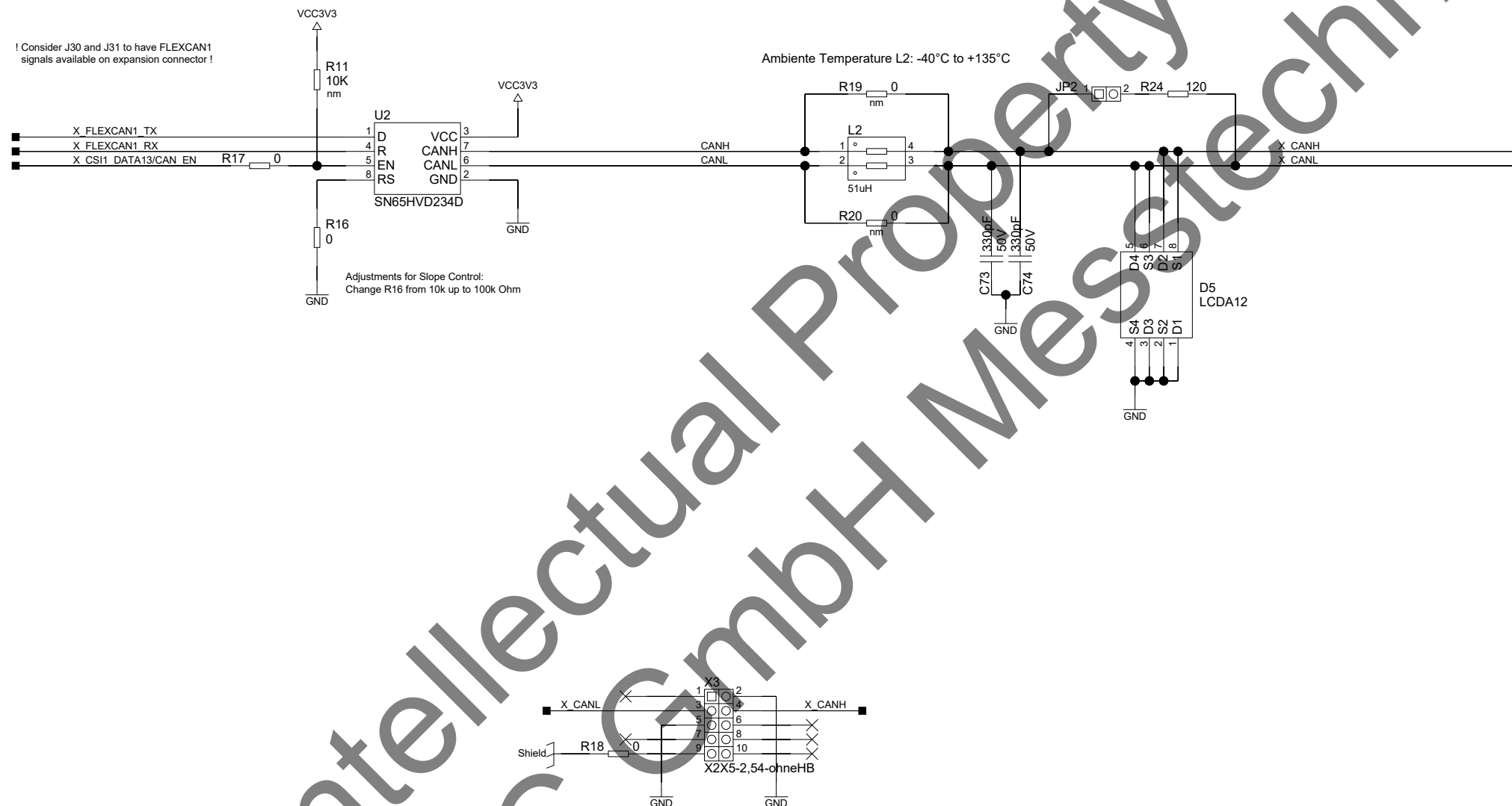
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CAN

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Author: R.Stidronski

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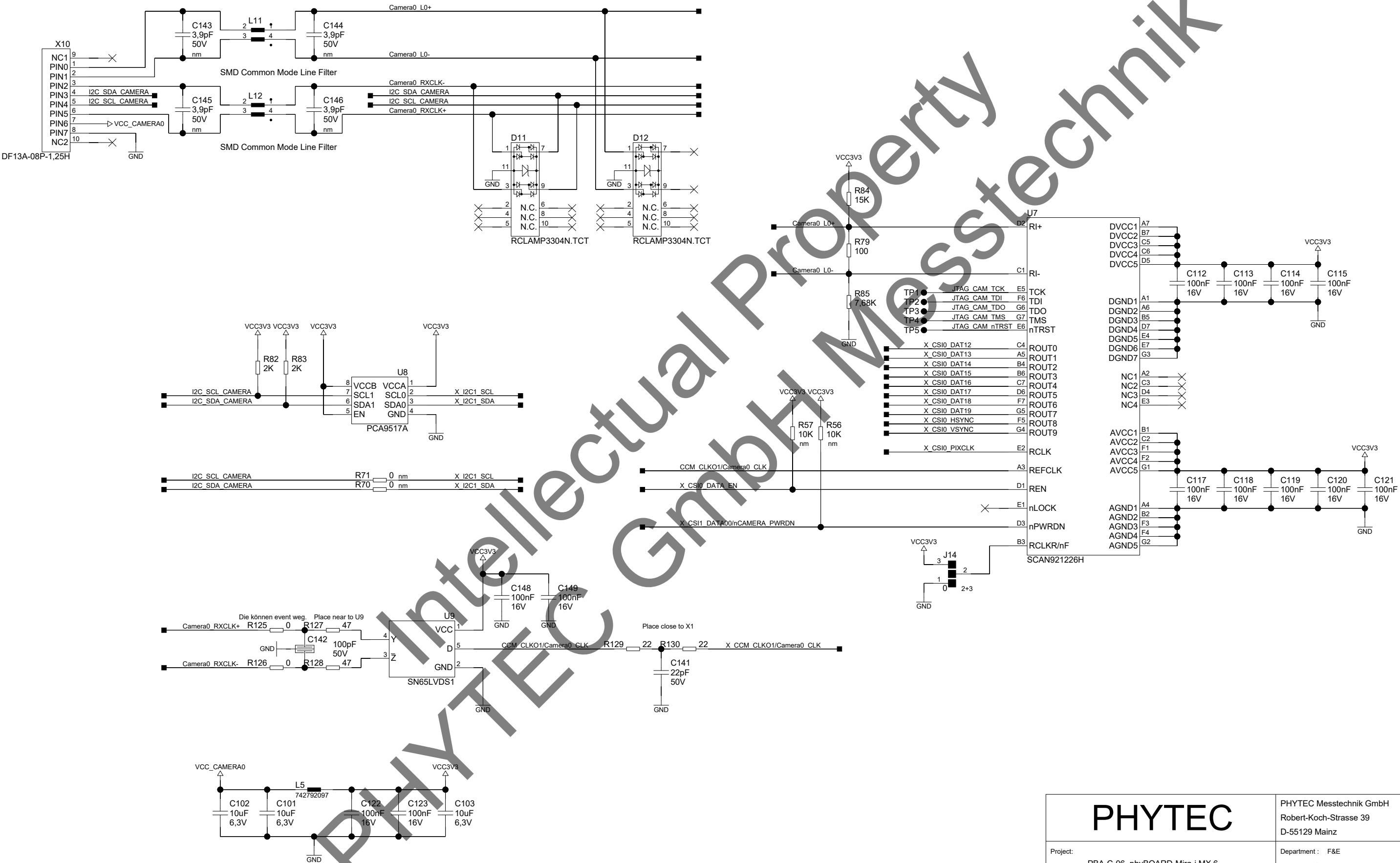
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Camera - phyCAM-S+

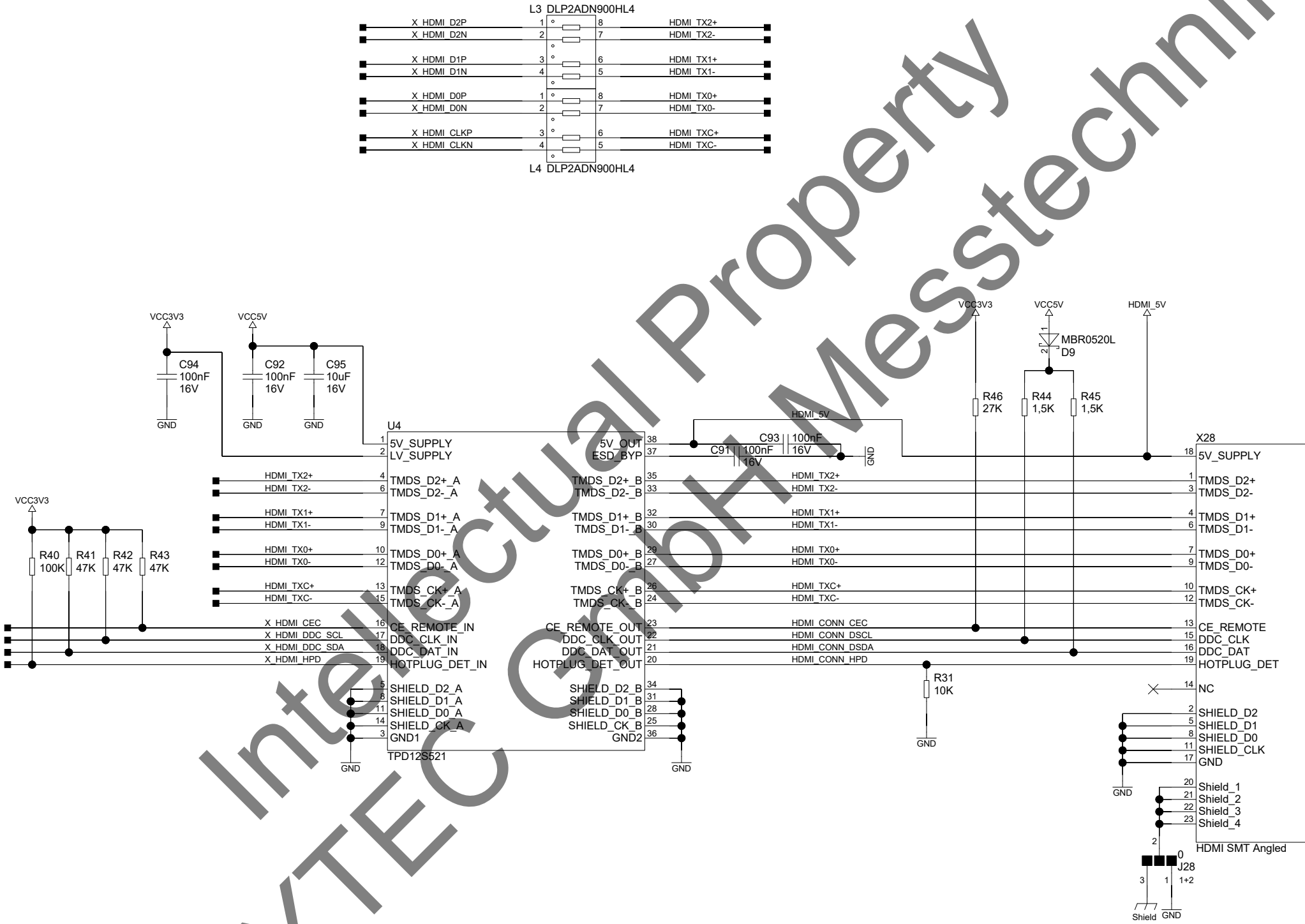
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HDMI

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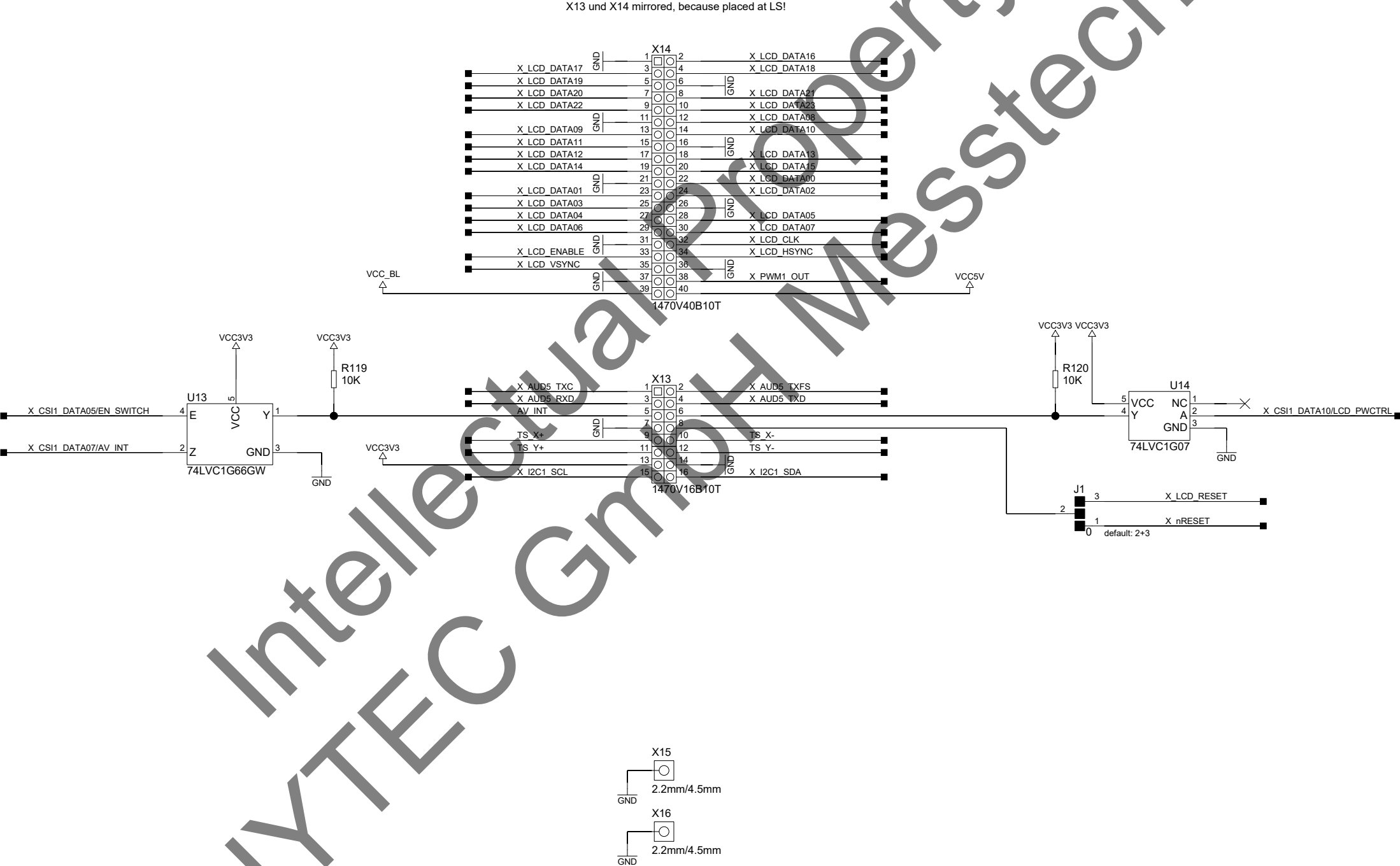


HDMI connector right angled: VE280
HDMI connector right angled with lock: VE354

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Audio/Video Connector

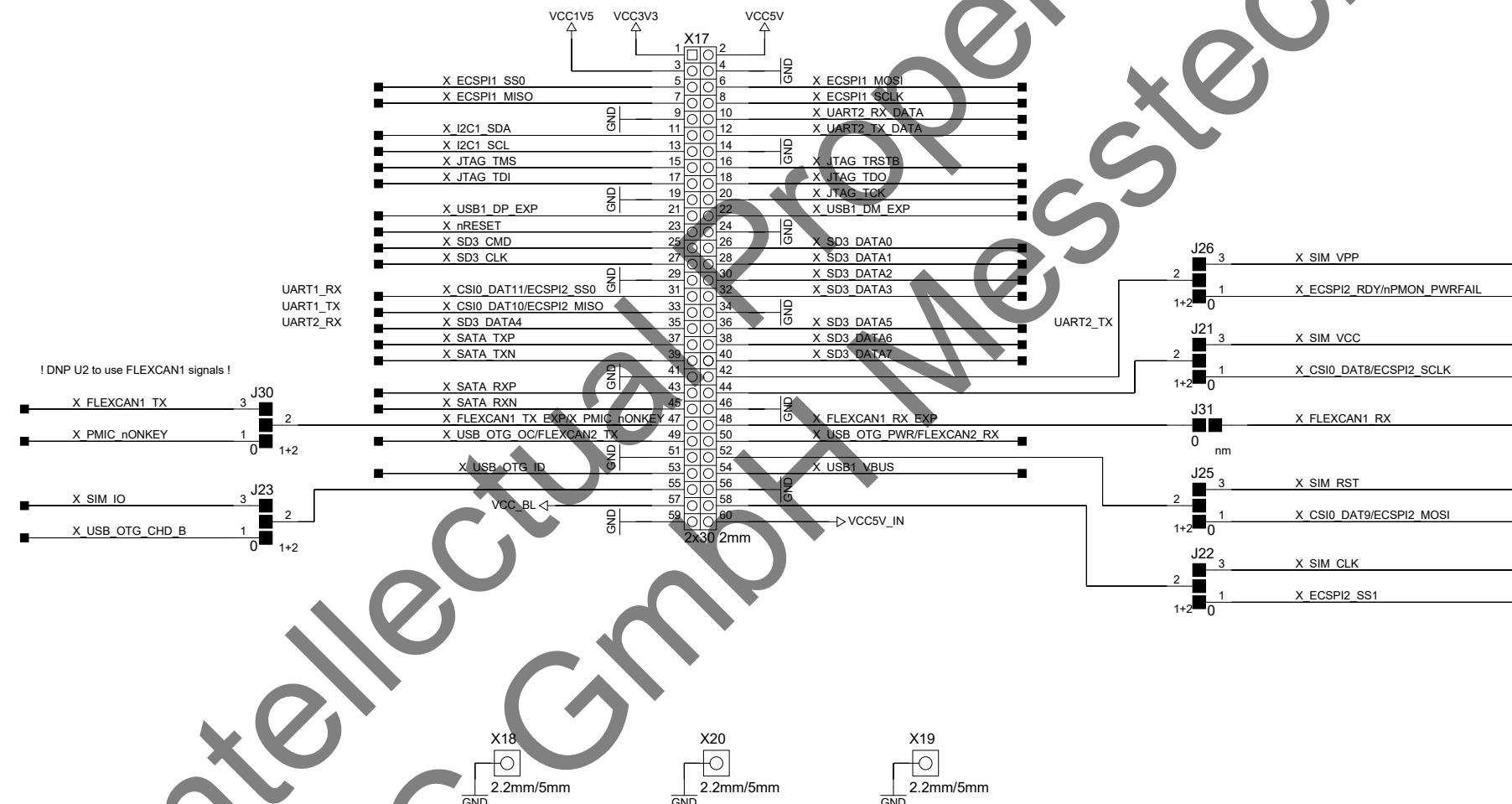
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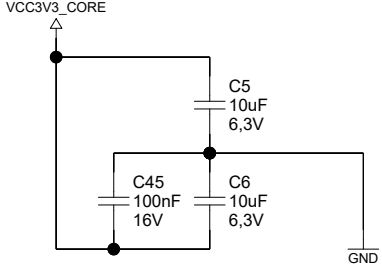
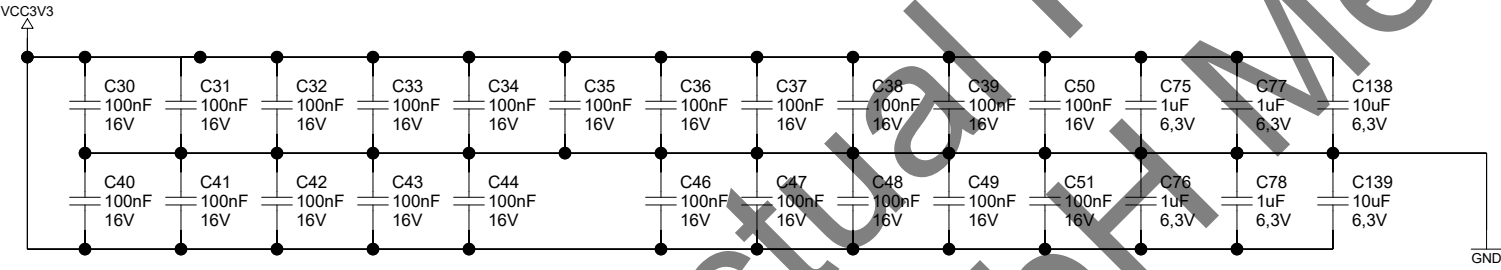
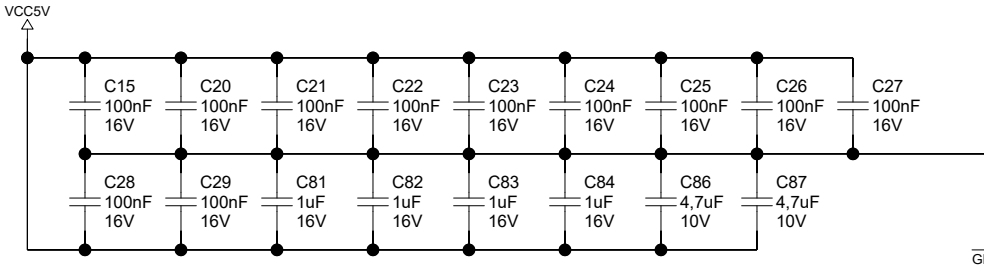
Expansion Connector

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EMC

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