

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	
26.05.2015	PCB-No.: 1434.2	Revision : 001	Sheet 1 of 20

Project Overview

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

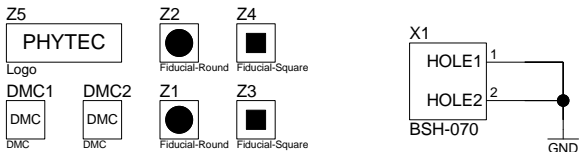
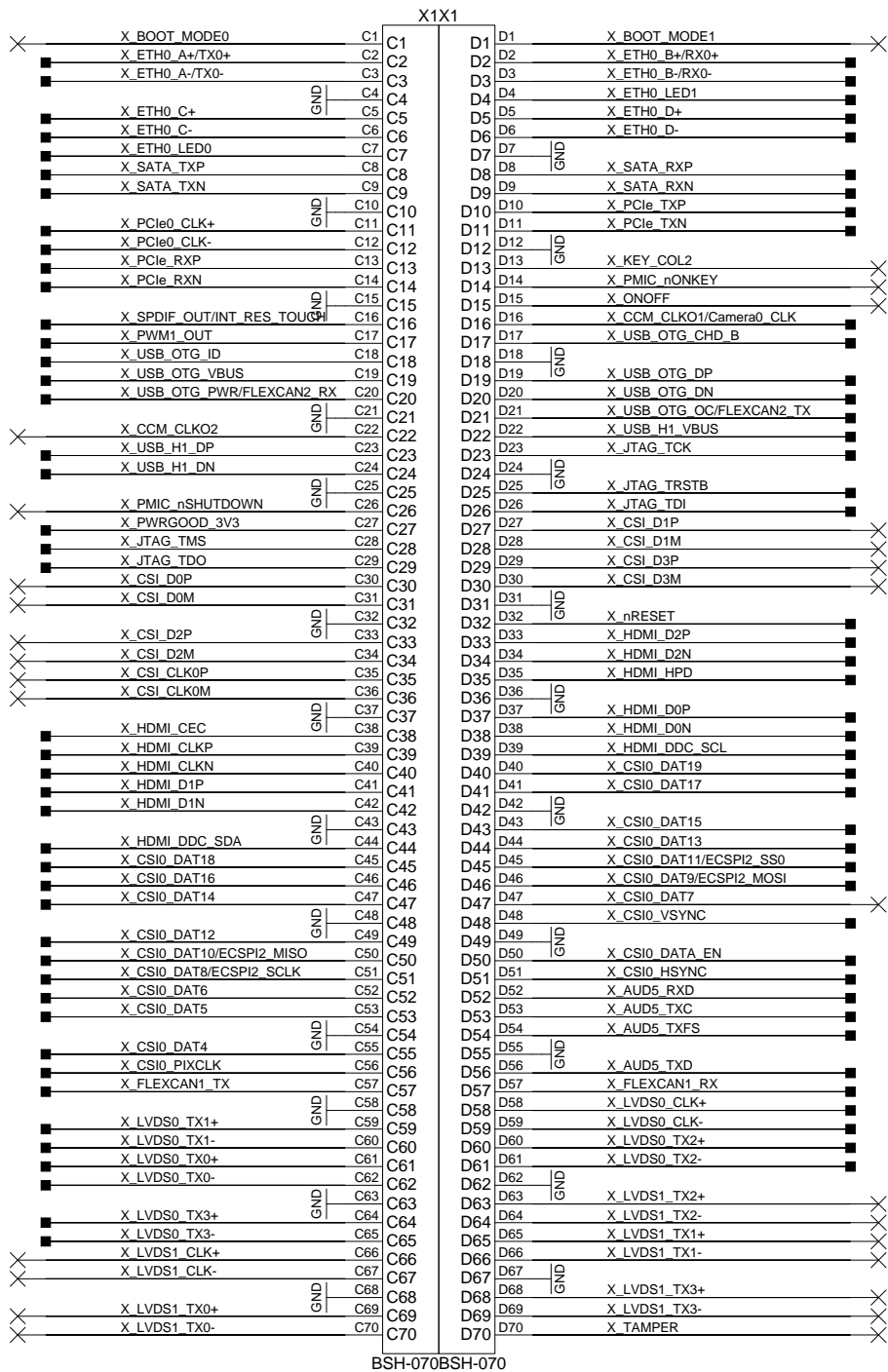
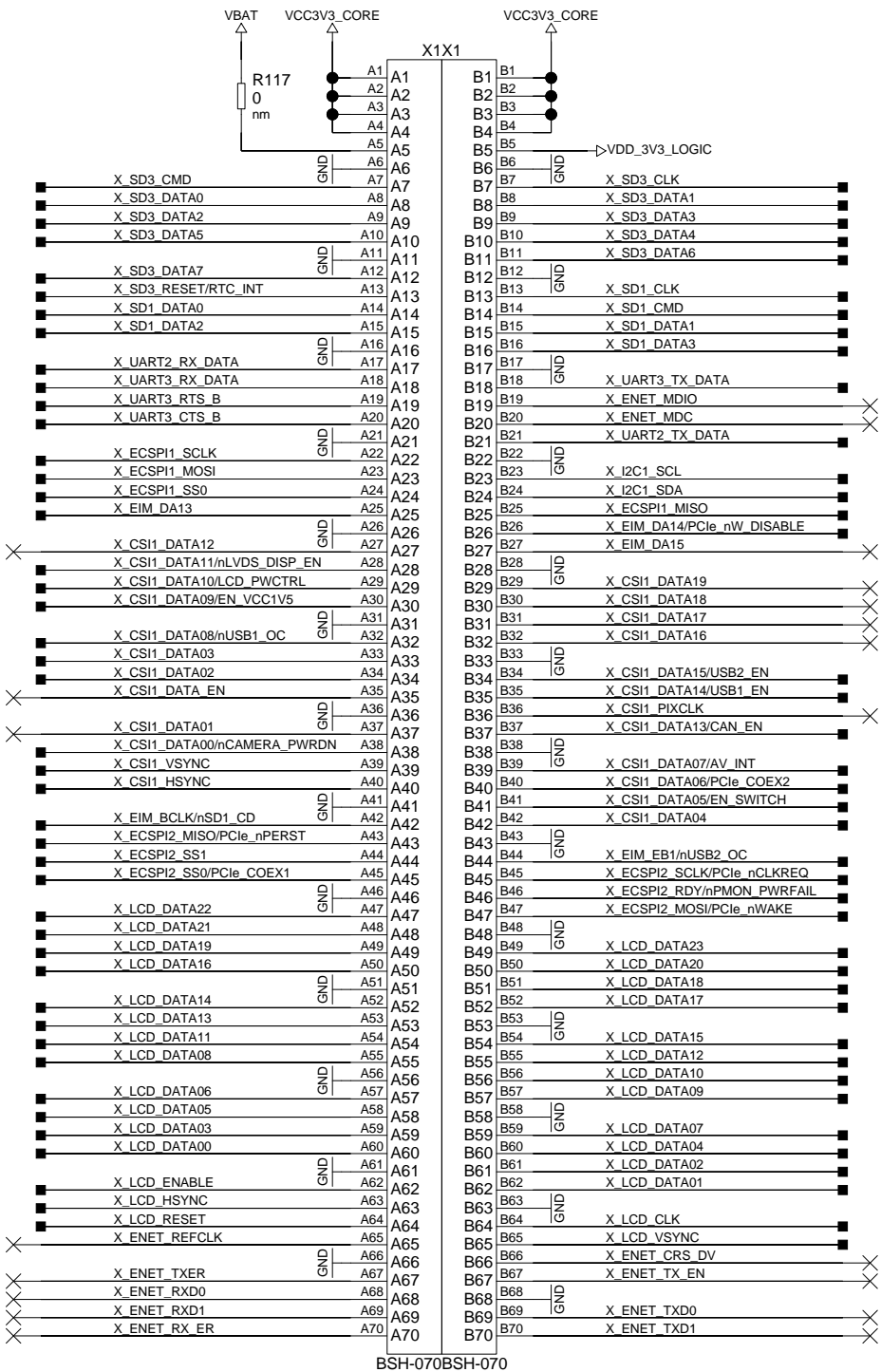
Onboard used I2C addresses with I2C1:
- 0x68 RTC
- 0x62 LED Dimmer
- 0x44 Touch

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

	EUROPE	NORTH AMERIKA
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Fax:	+49 (6131) 9221-33	1(206) 780-9135
Web Site:	http://www.phytec.de http://www.phytec.eu	http://www.phytec.com

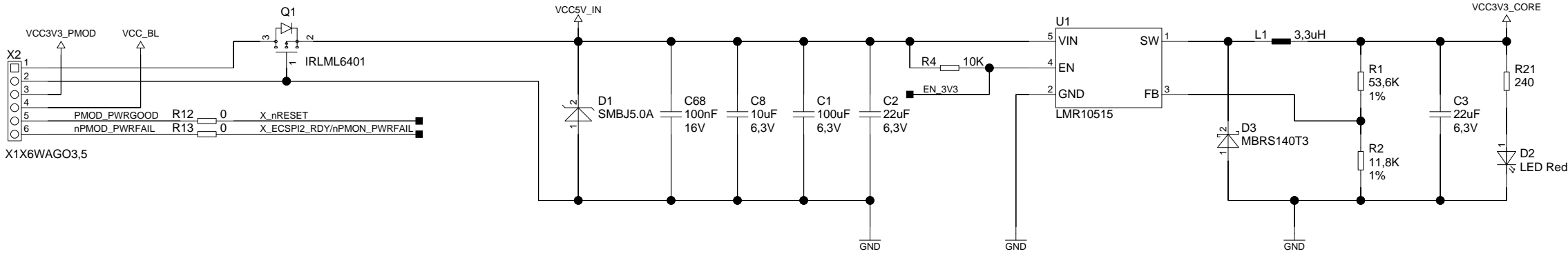
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Project: PBA-C-06 phyBOARD-Mira-i.MX 6		Department : F&E Author: R.Stidronski	
26.05.2015	PCB-No.: 1434.2	Revision : 001	Sheet 2 of 20

phyCORE-i.MX 6 Connector

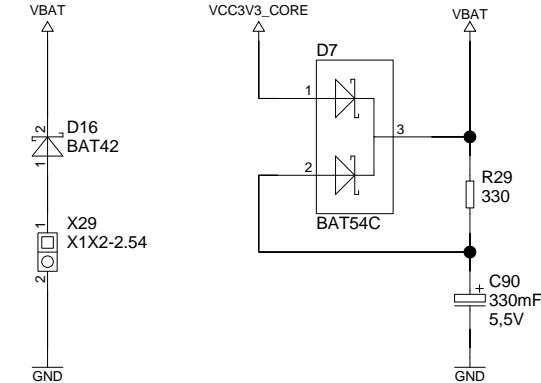


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Project:		PBA-C-06 phyBOARD-Mira-i.MX 6	
26.05.2015		PCB-No.: 1434.2	
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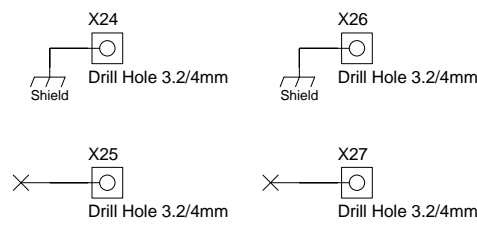
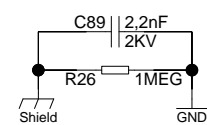
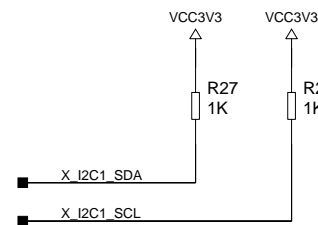
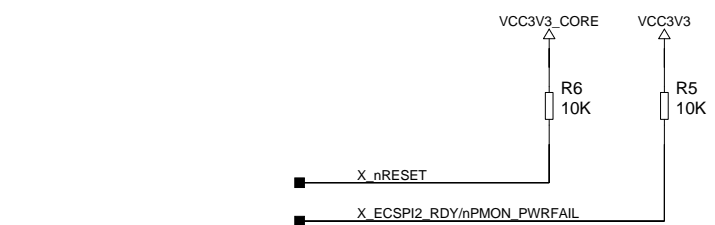
Power



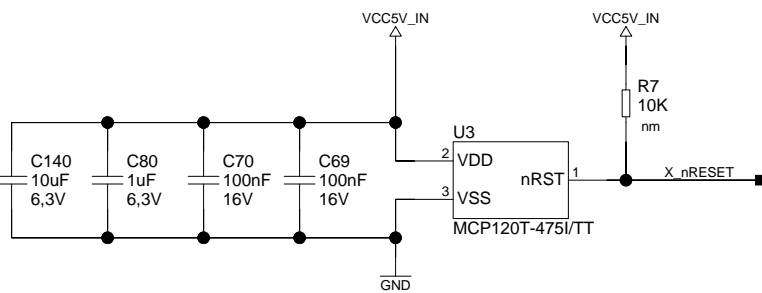
Backup
Goldcap



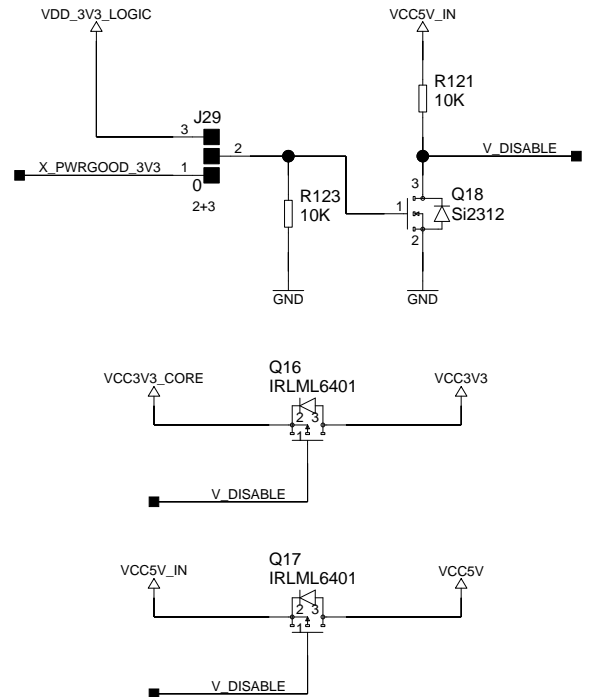
3.3V / 1.5A



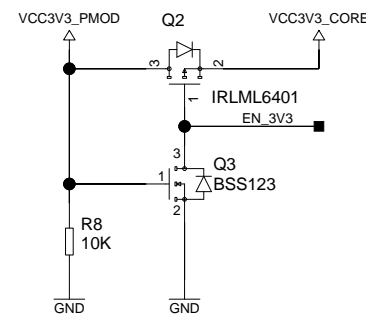
Voltage supervisor



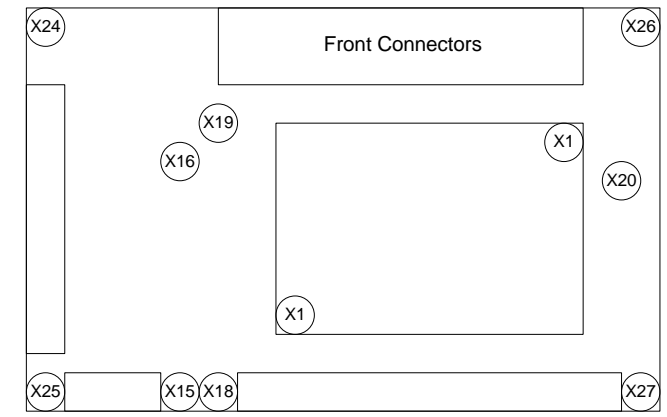
Enable board voltages



3V3 supply selector



Drill Hole placement



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

Project: PBA-C-06 phyBOARD-Mira-i.MX 6

Department: F&E
Author: R.Stidronski

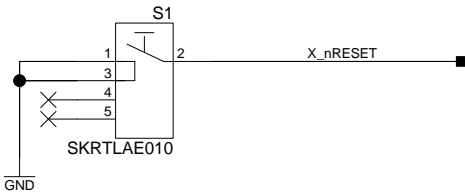
26.05.2015

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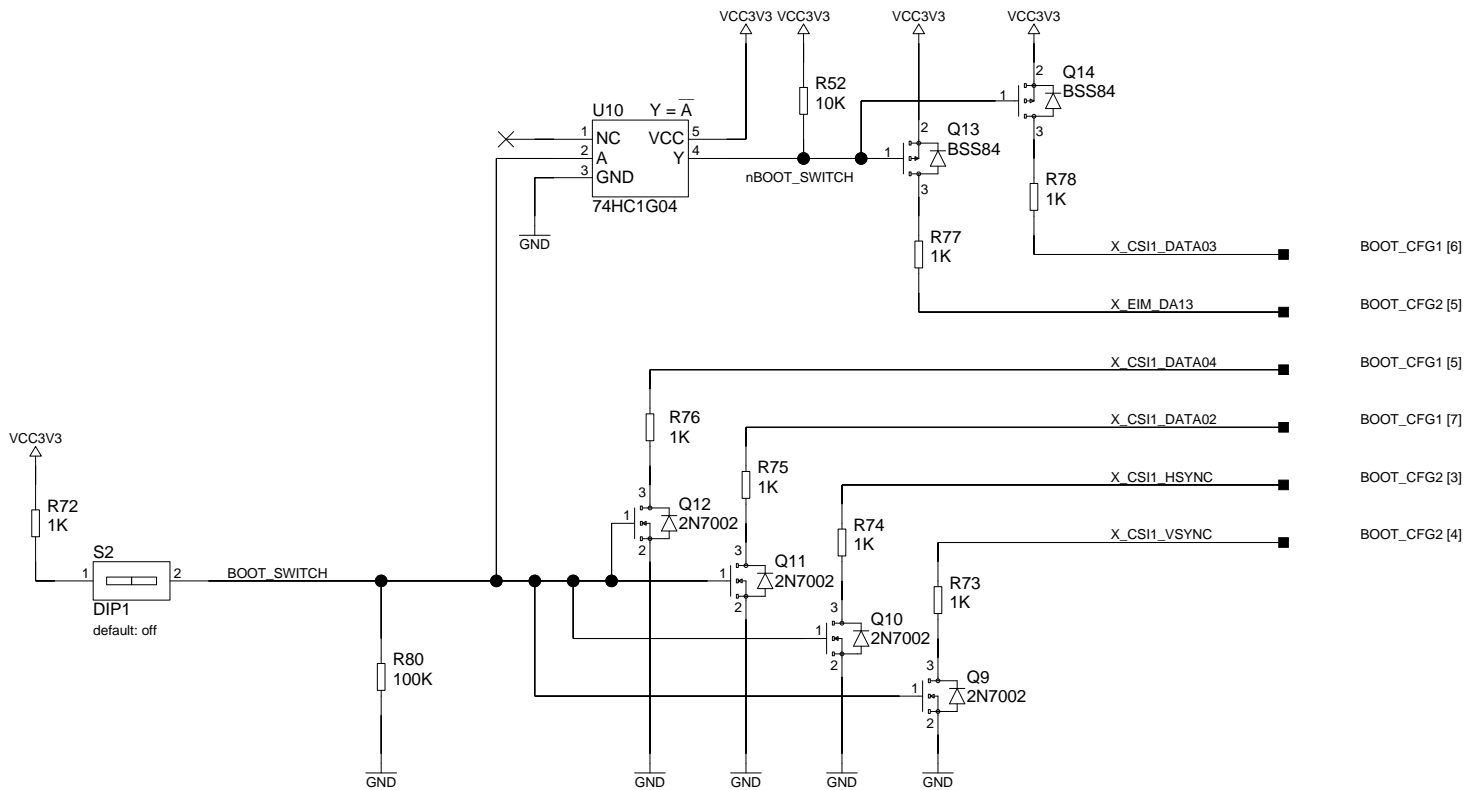
Revision: 001

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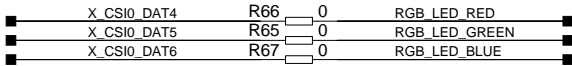
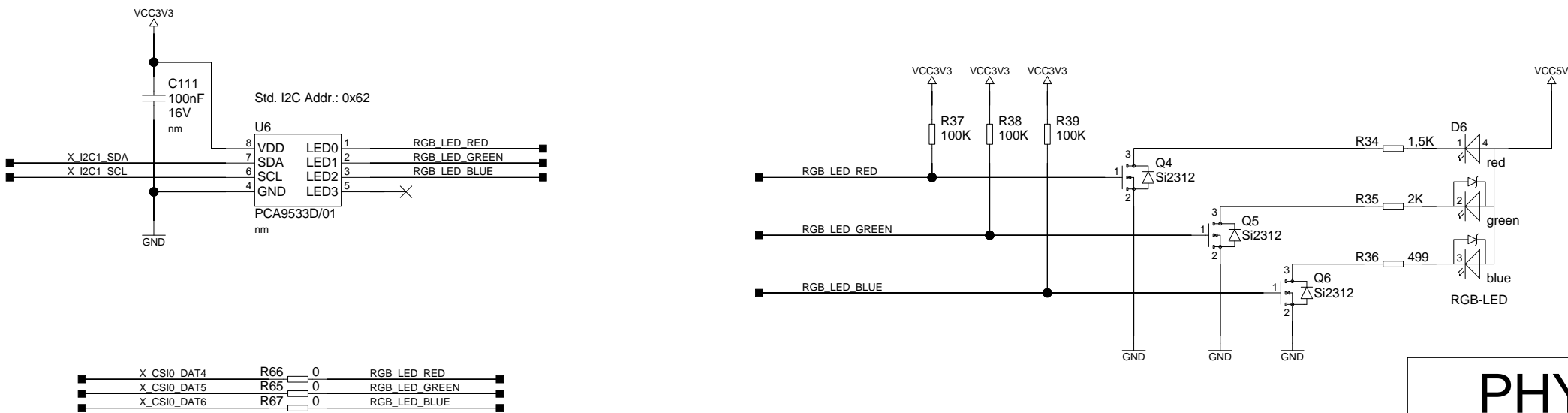
Reset Button



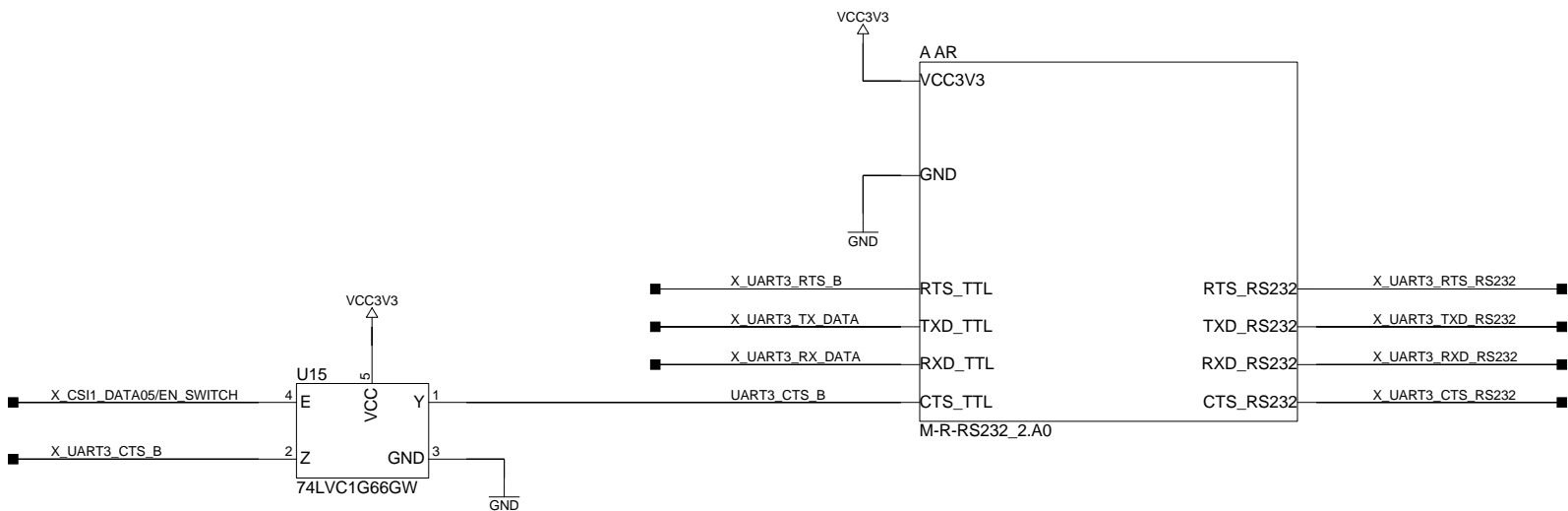
Boot Switch



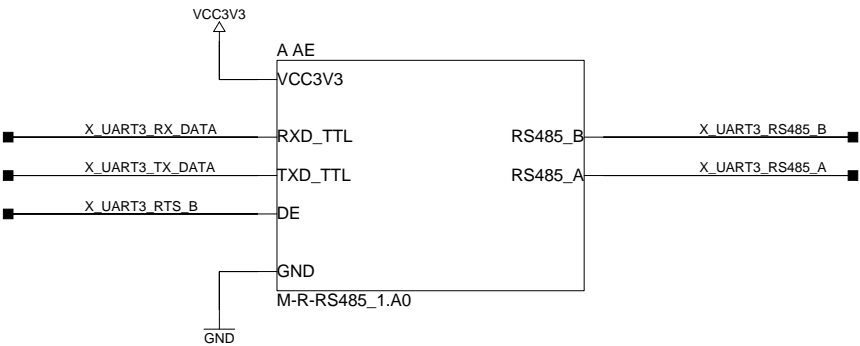
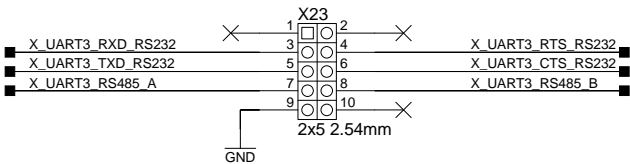
Multicolor LED



RS232 / 485

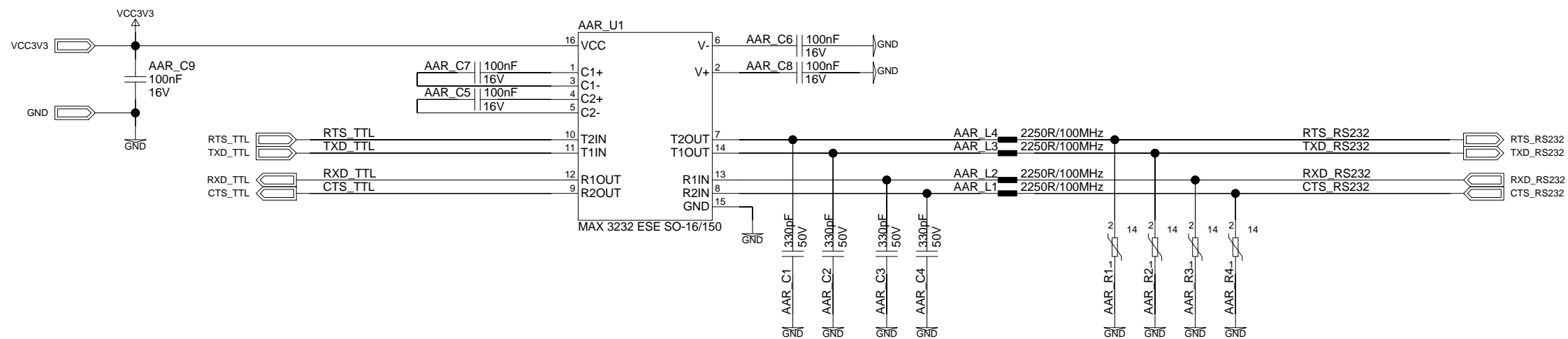


place as close together as possible



M-R-RS232_2

RS232 Transceiver



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

Block Name: M-R-RS232_2

Block Prefix:	AR
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Department : F&E
Author: T. Jacobus

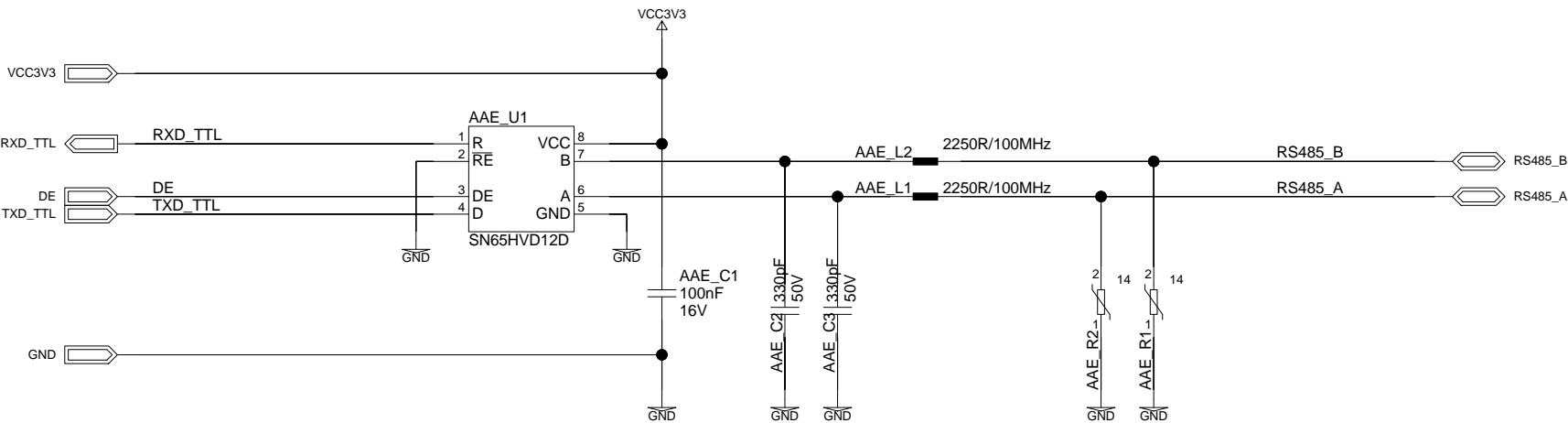
16.04.2015

Makro:	M-R-RS232_2.A0
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Revision : 001

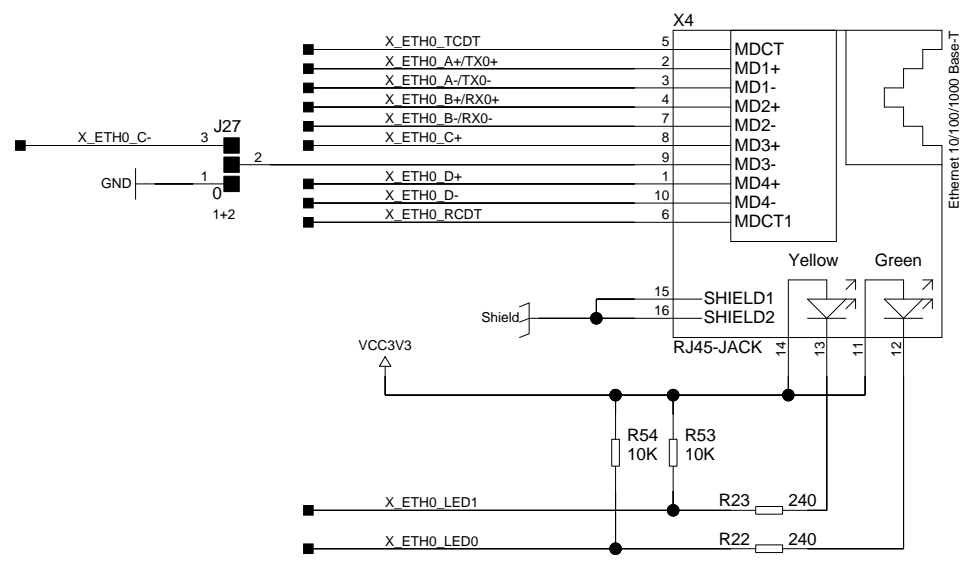
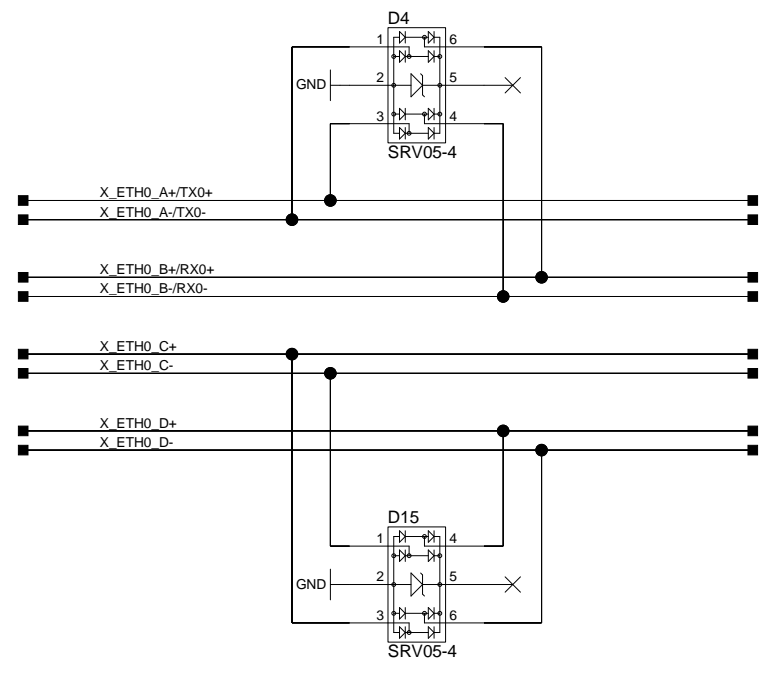
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M-R-RS485_1



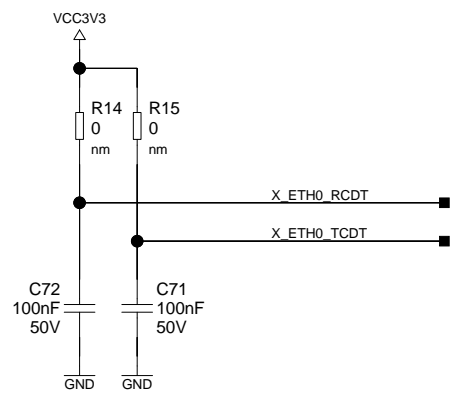
PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Block Name: M-R-RS485_1	Block Prefix: AE	Department : F&E Author: T. Jacobus	
16.04.2015	Makro: M-R-RS485_1.A0	Revision : 001	Sheet 8 of 20

Ethernet 0



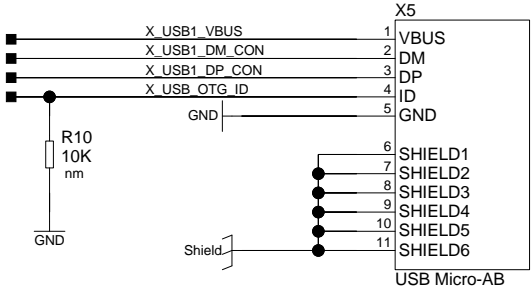
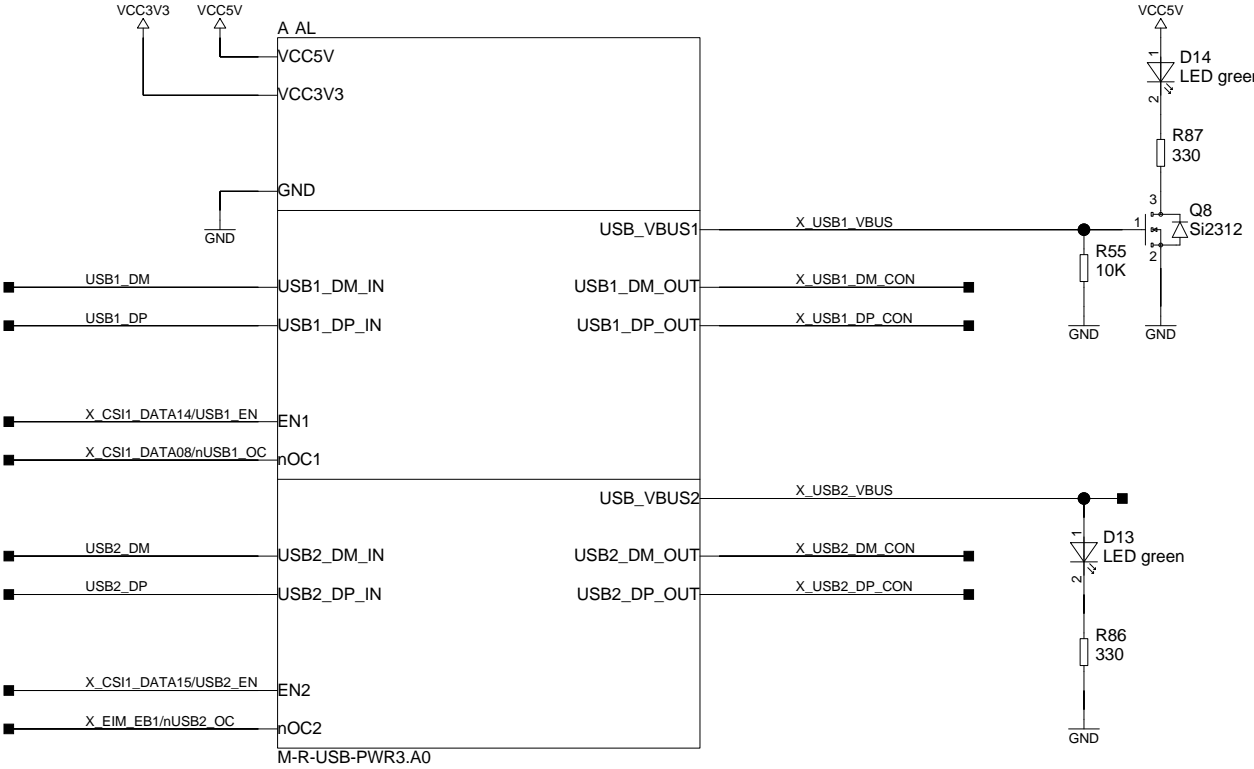
For 10/100Mbit:
Industrial (-40 to +85 C): VE309
Commercial (0 to +70 C): VE363
Set J27 to 1+2 if 10/100Mbit jack is used

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

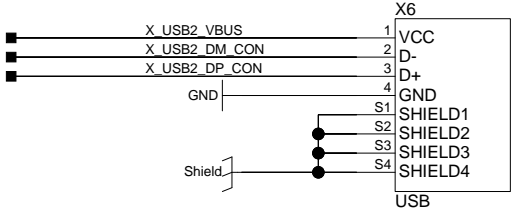


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USB

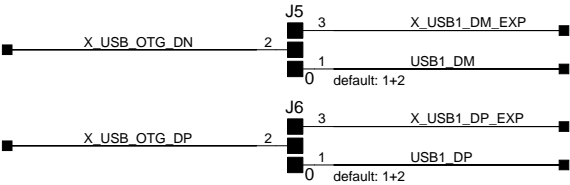


USB-OTG



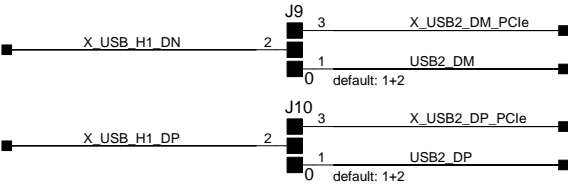
USB-Host

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

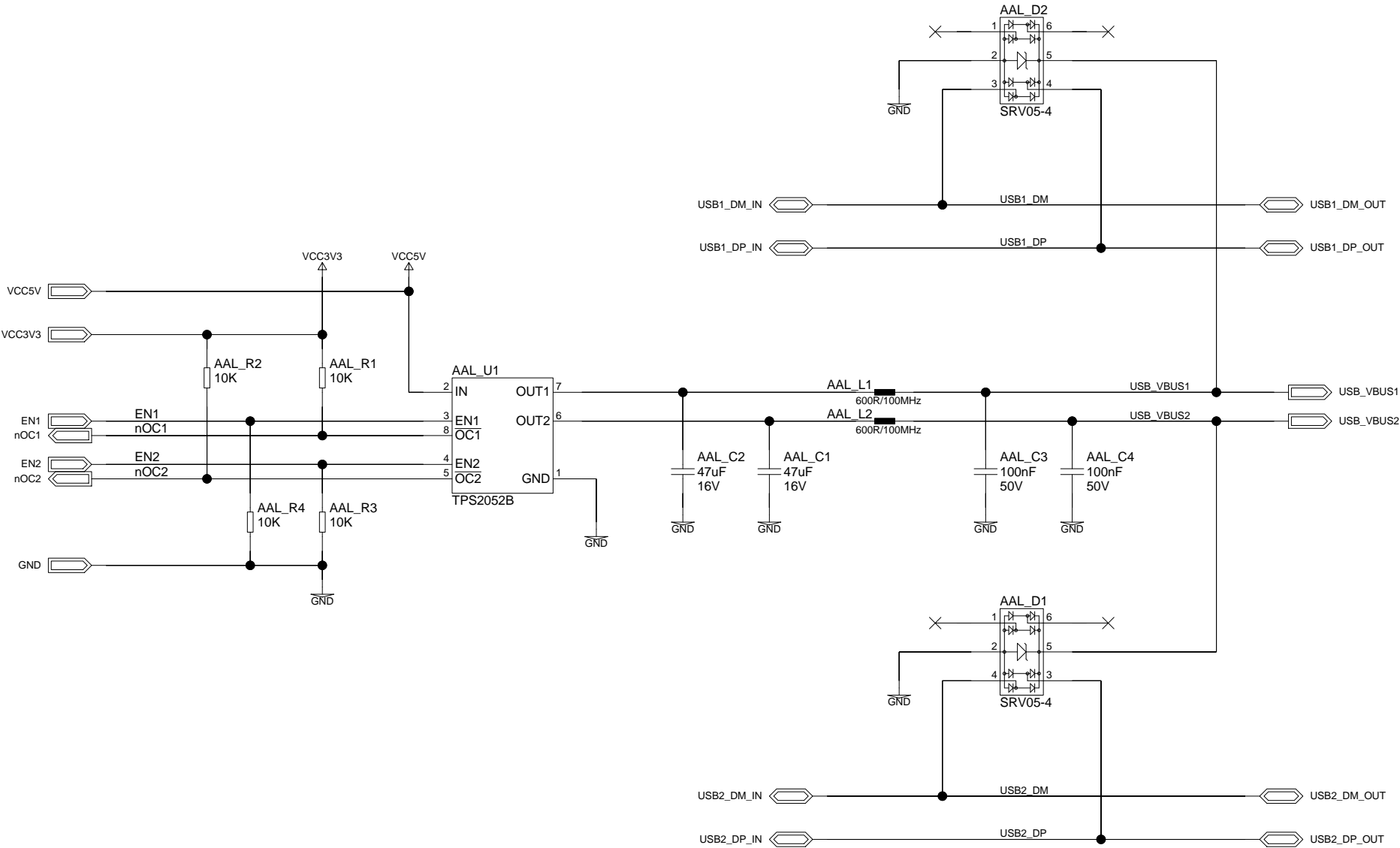


USB2 on USB-A connector X6: J9+J10=1+2
USB2 on mini PCIe connector X7: J9+J10=2+3

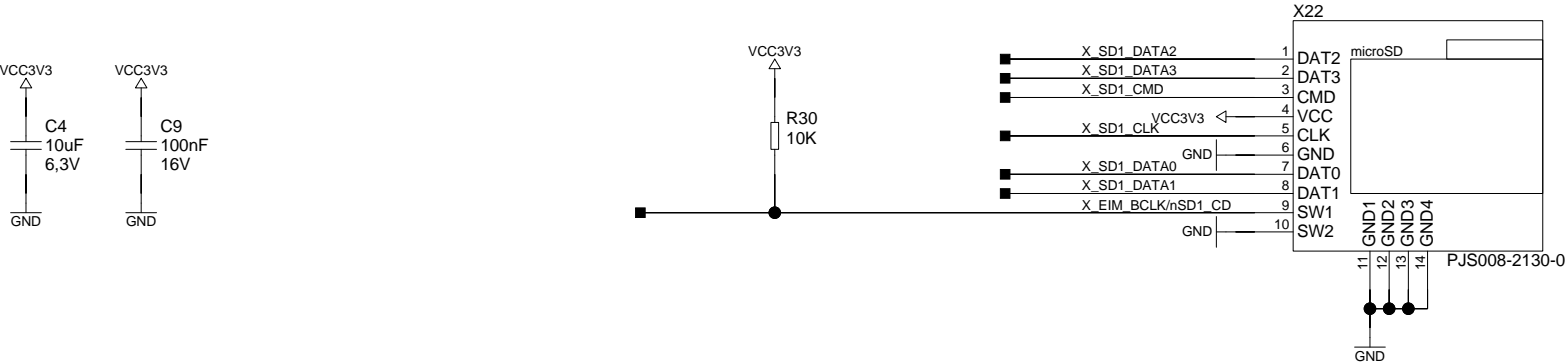


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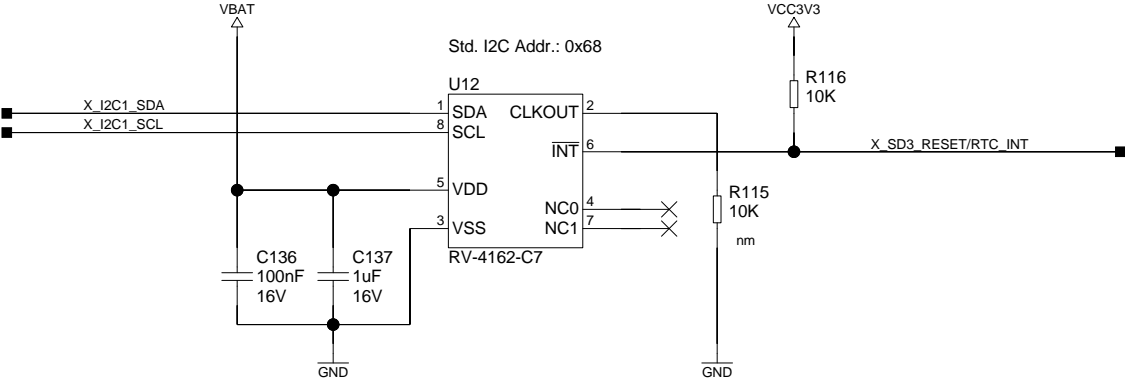
M-R-USB-PWR3



Micro SD Card

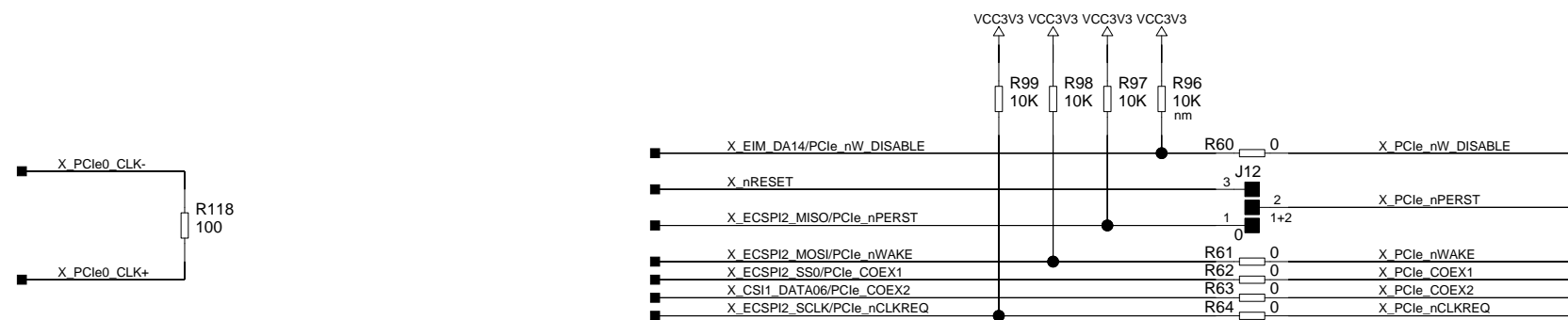
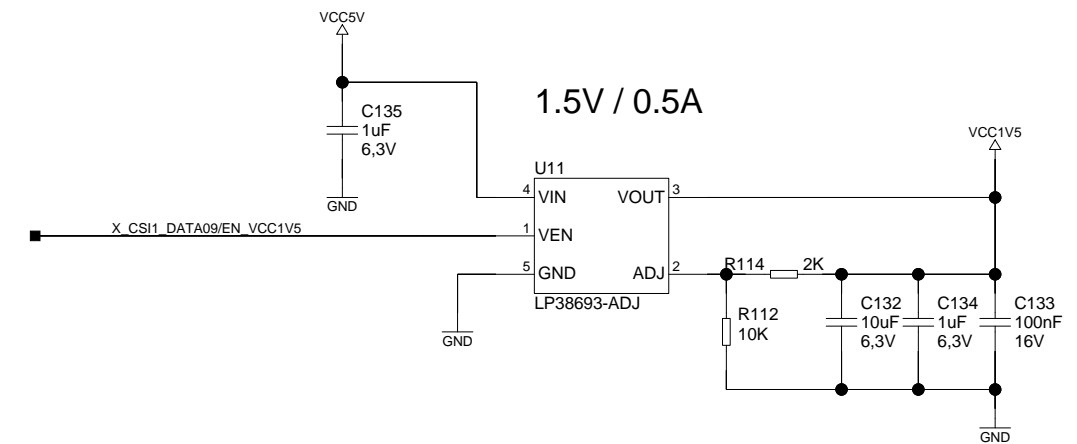
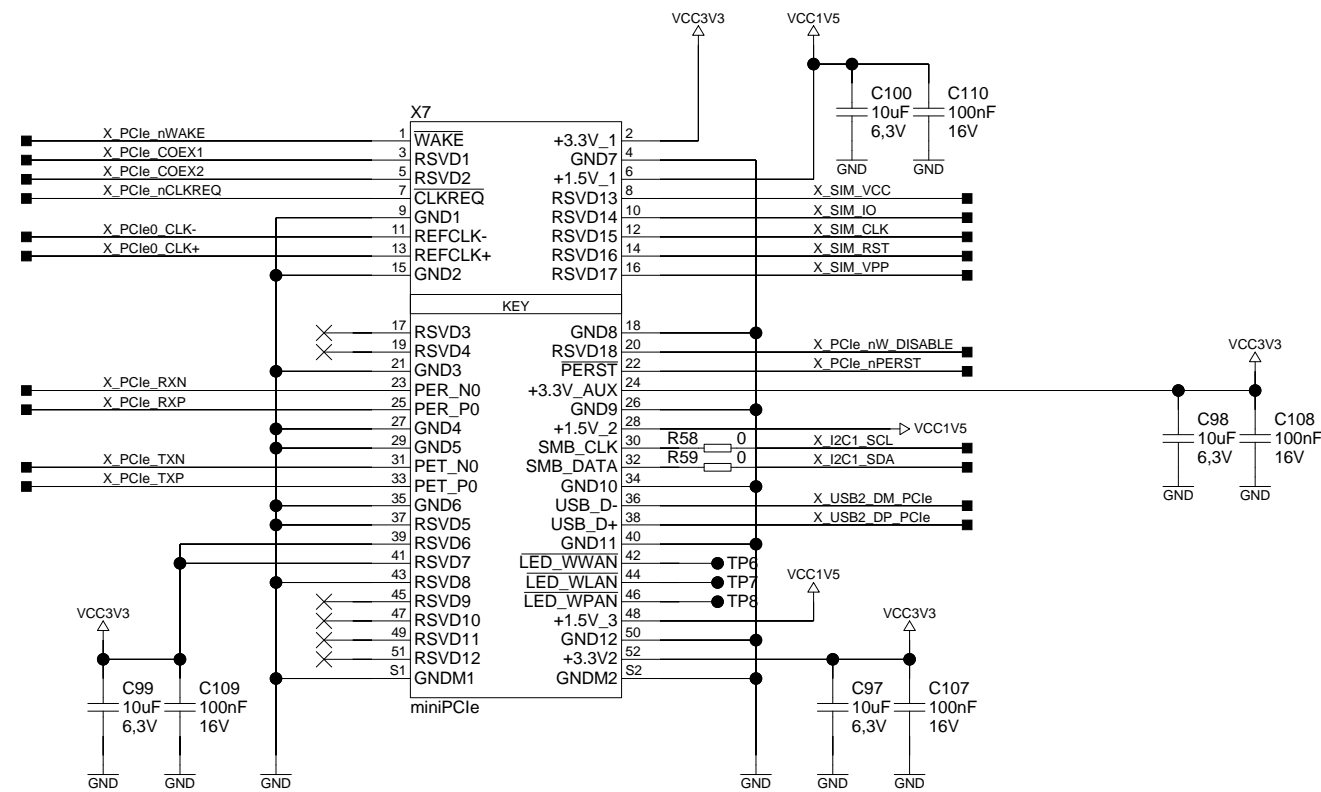


RTC

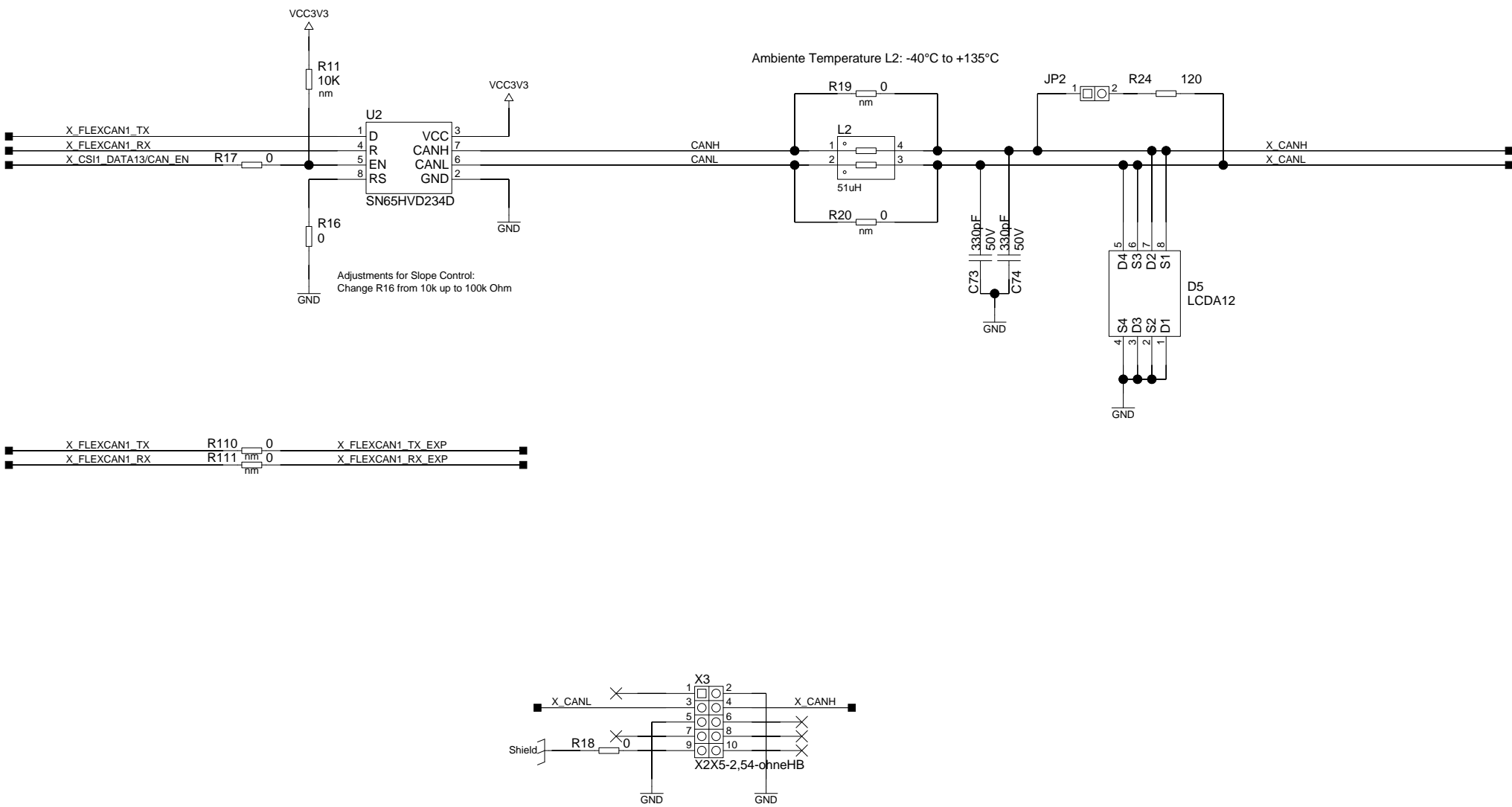


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Mini PCIe

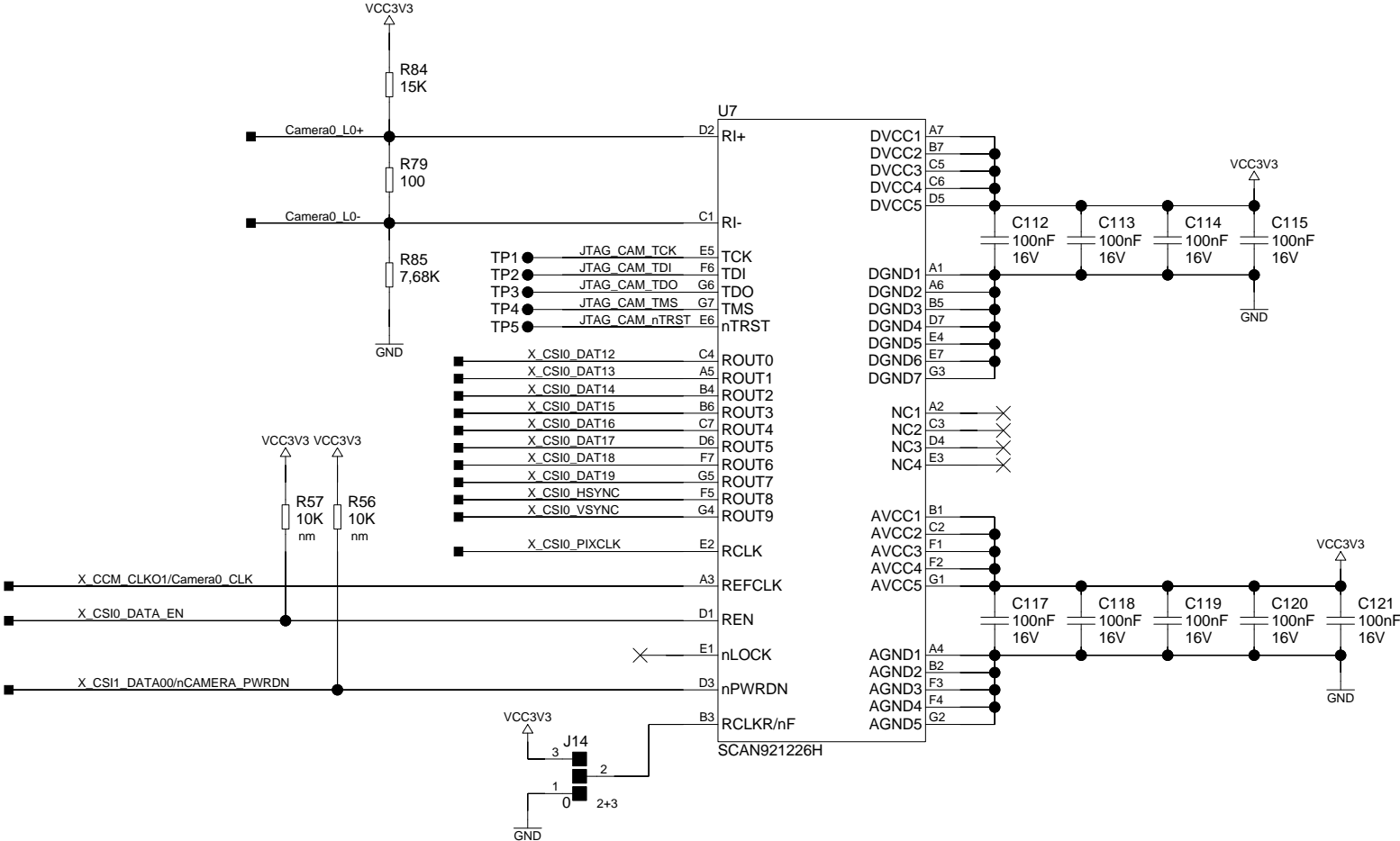
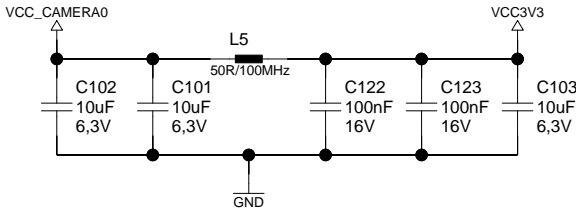
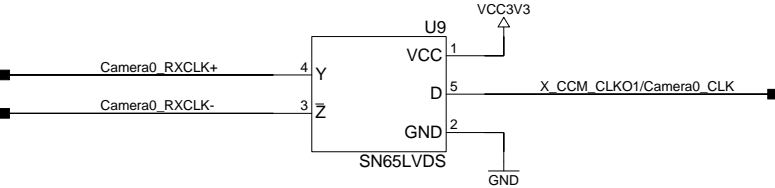
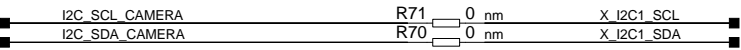
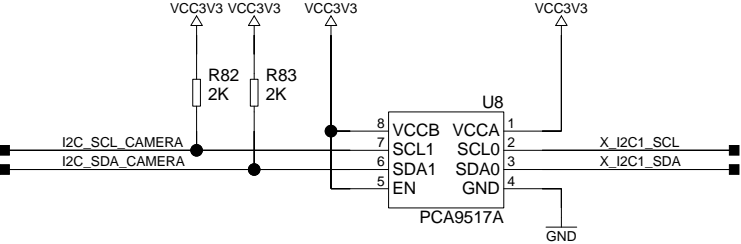
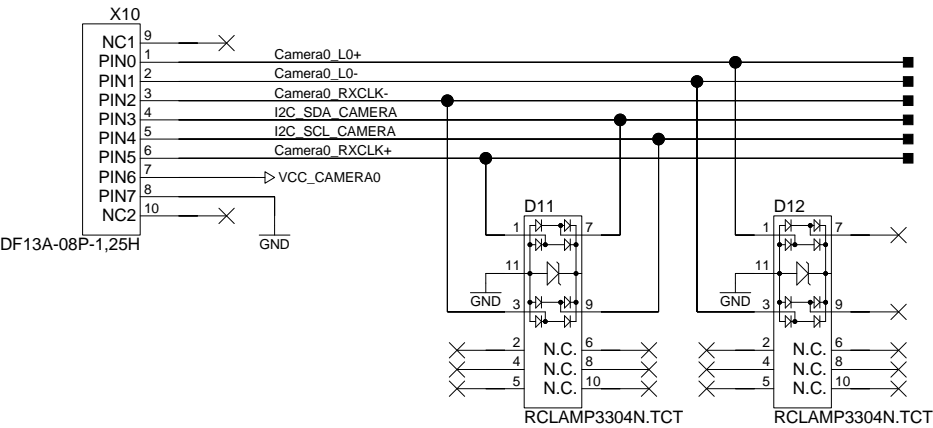


CAN

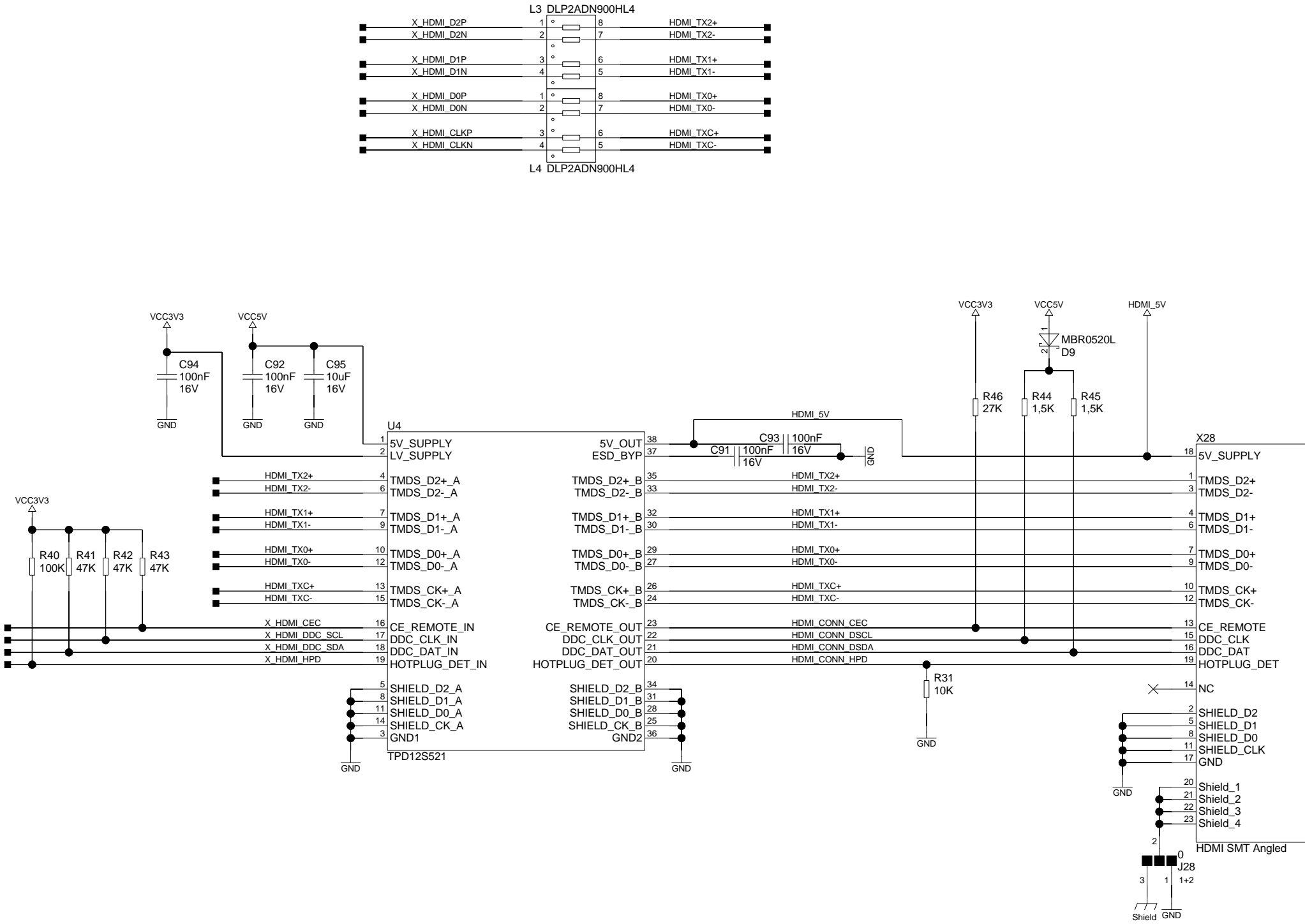


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Camera - phyCAM-S+

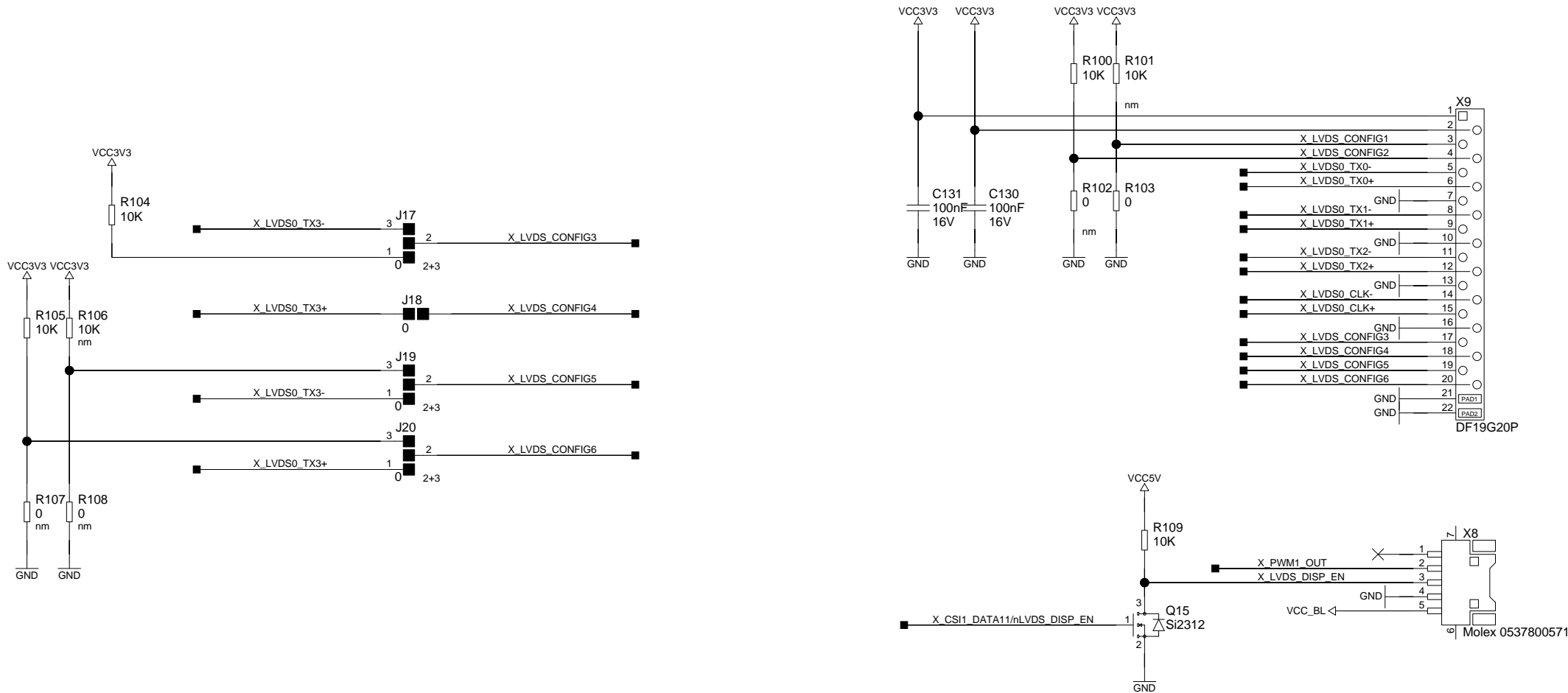


HDMI

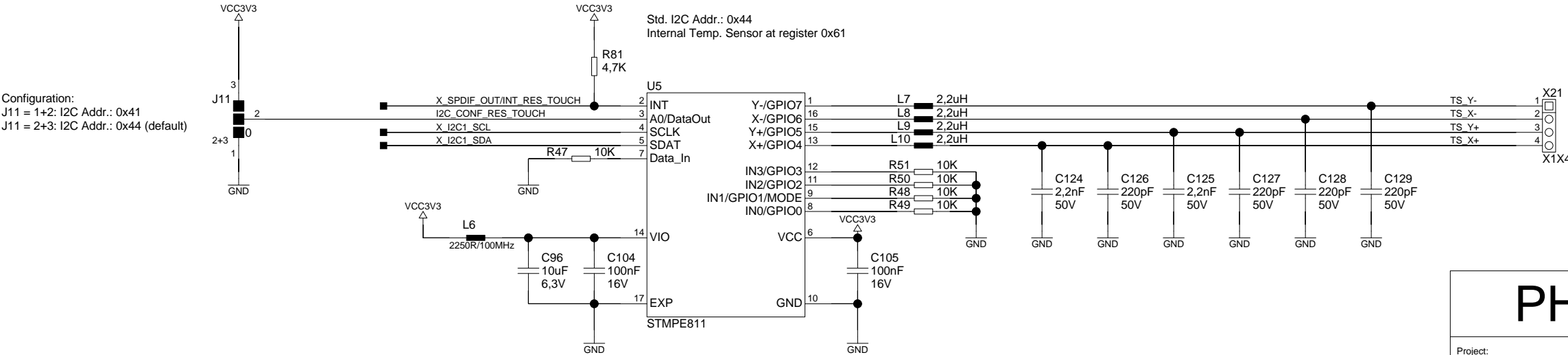


HDMI connector right angled: VE280
HDMI connector right angled with lock: VE354

LVDS

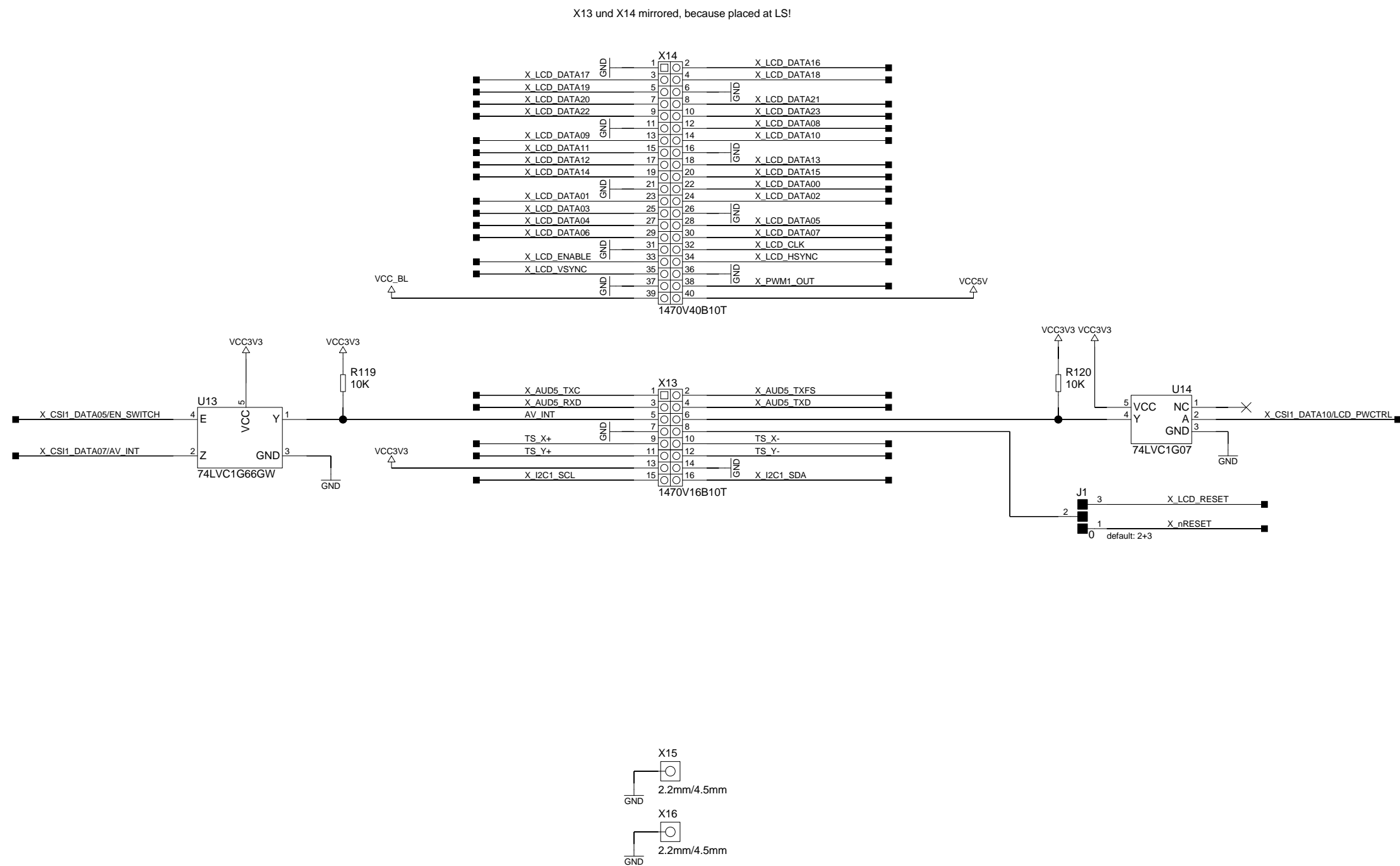


Touch Connector

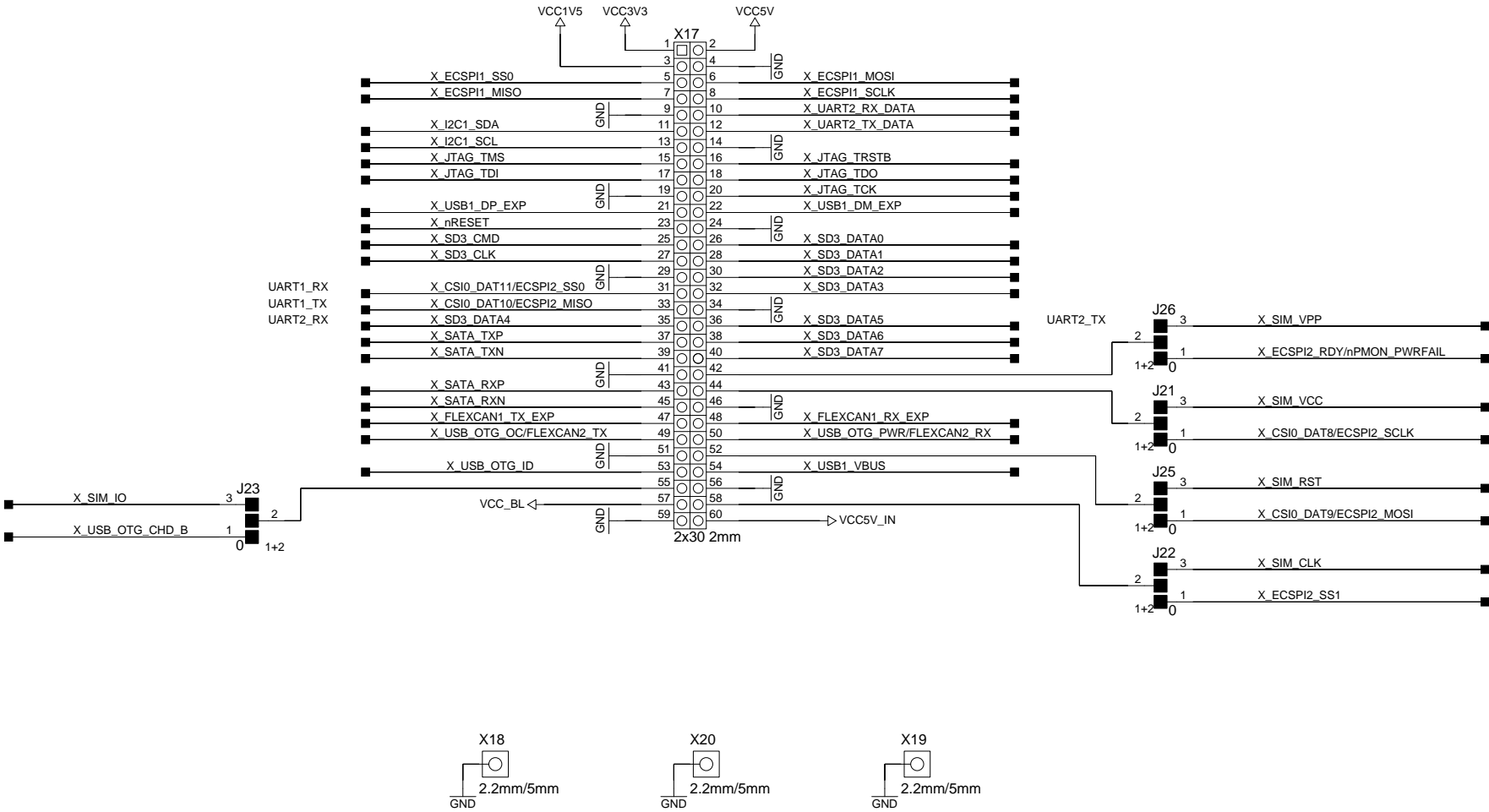


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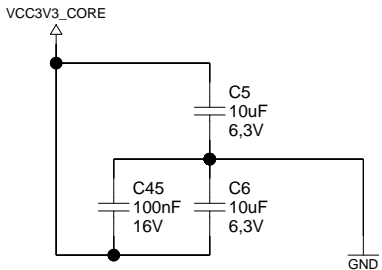
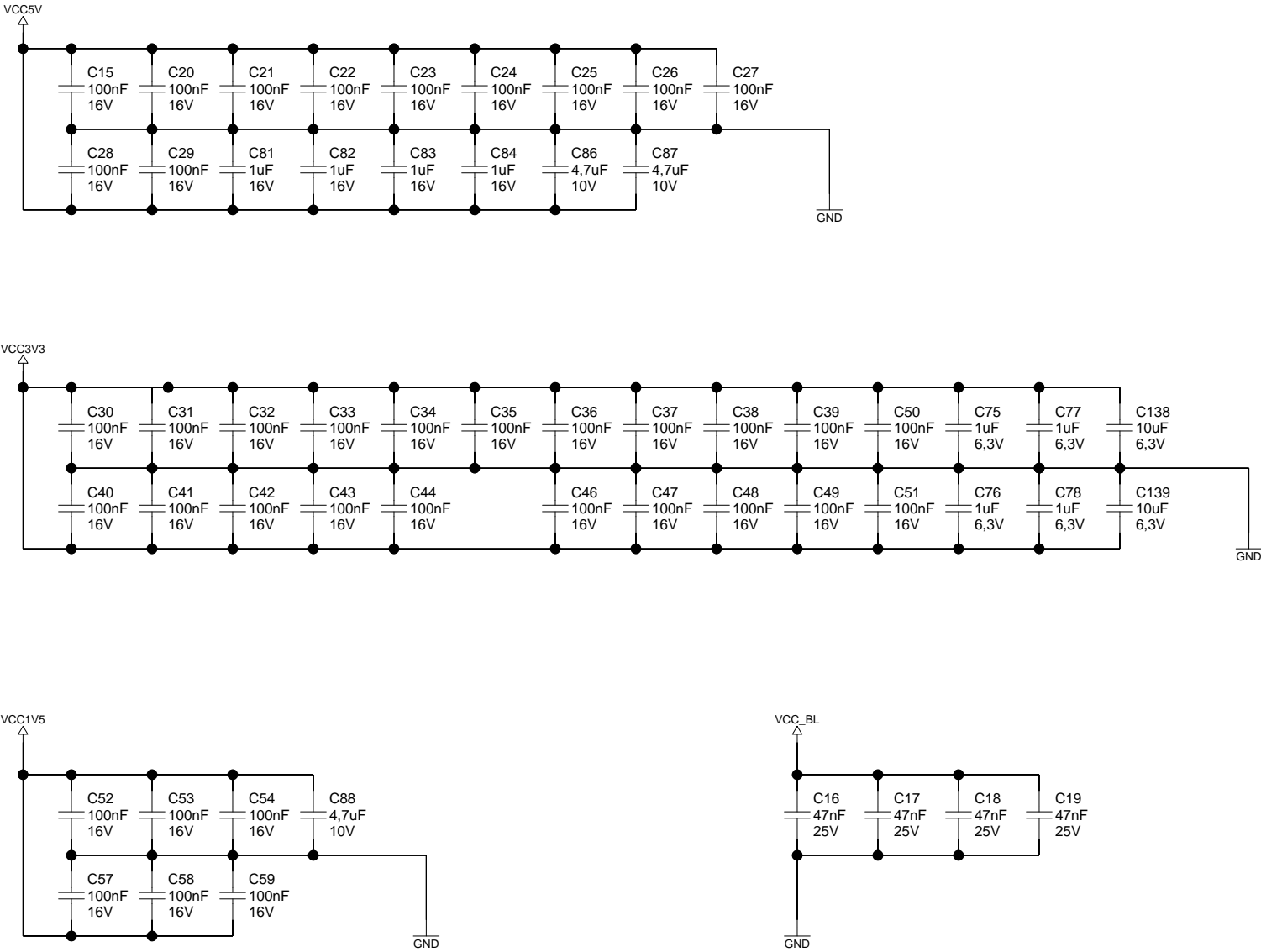
Audio/Video Connector



Expansion Connector



EMC



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