

PCM-953 Carrier Board for phyCORE-AM335x

Copyright 2012 PHYTEC TECHNOLOGIE HOLDING AG

INFORMATION IN THIS DOCUMENT IS PROVIDED SOLELY FOR USE IN CONJUNCTION WITH THE PHYTEC PRODUCT DESCRIBED HEREIN. NO INTELLECTUAL PROPERTY RIGHTS -- EXPRESS OR IMPLIED -- ARE GRANTED THROUGH THIS DOCUMENT. LIKEWISE, PHYTEC MAKES NO EXPRESS OR IMPLIED WARRANTIES OF ANY KIND, WHETHER AS TO MANUFACTURABILITY; MERCHANTABILITY; FITNESS FOR A PARTICULAR PURPOSE; OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. SPECIFICATIONS HEREIN ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE.

PHYTEC

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

Project:
PCM-953 Carrier Board for phyCORE-AM335x

Department : F&E
Author: T. Jacobson/C. Day

2012-10-22

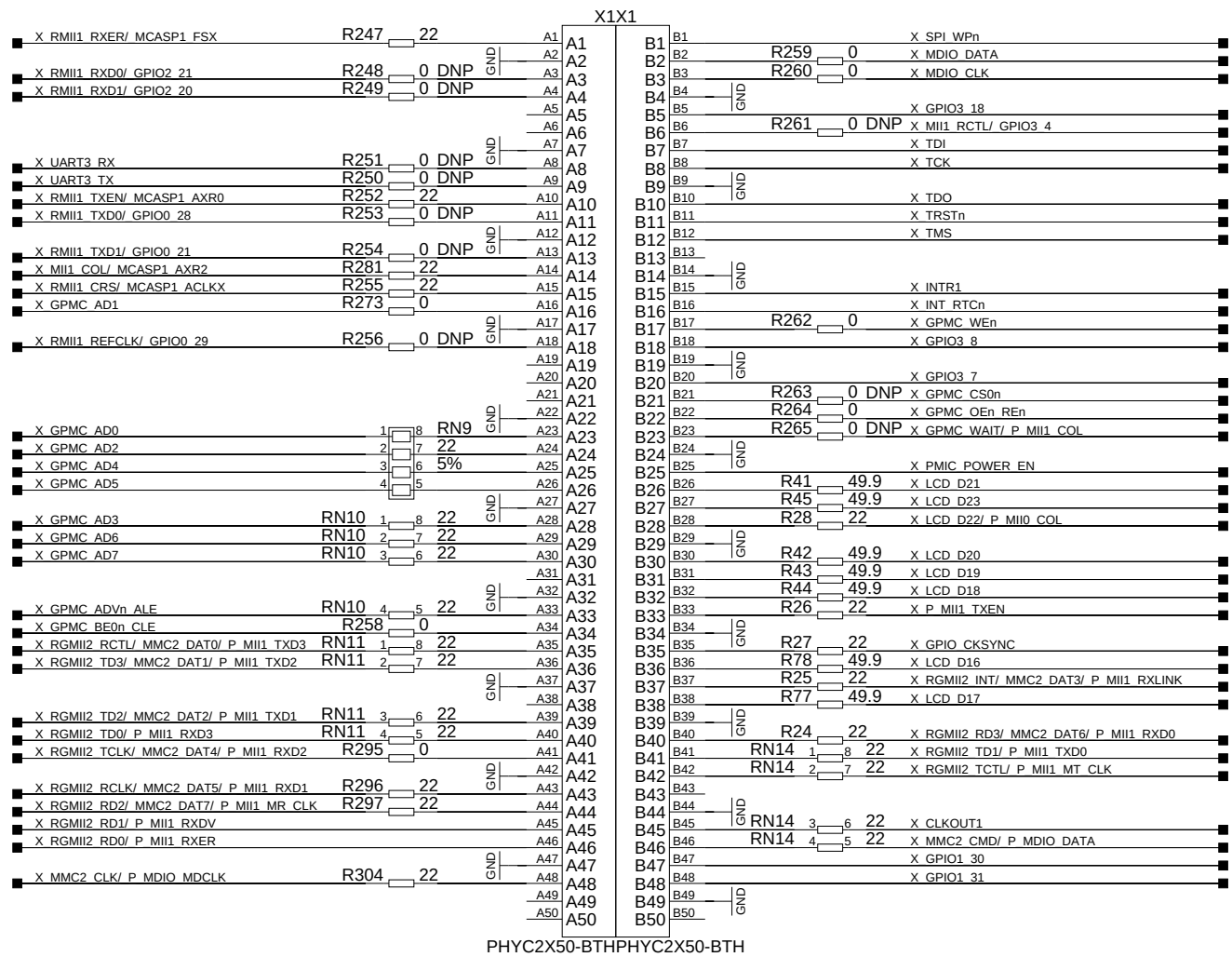
PCB-No.: 1359.3

Revision : 001

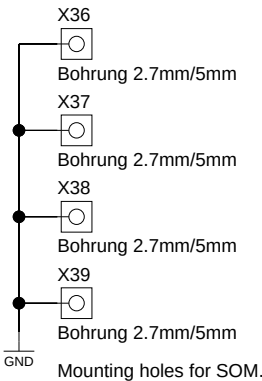
Sheet 1 of 13

phyCORE connectors

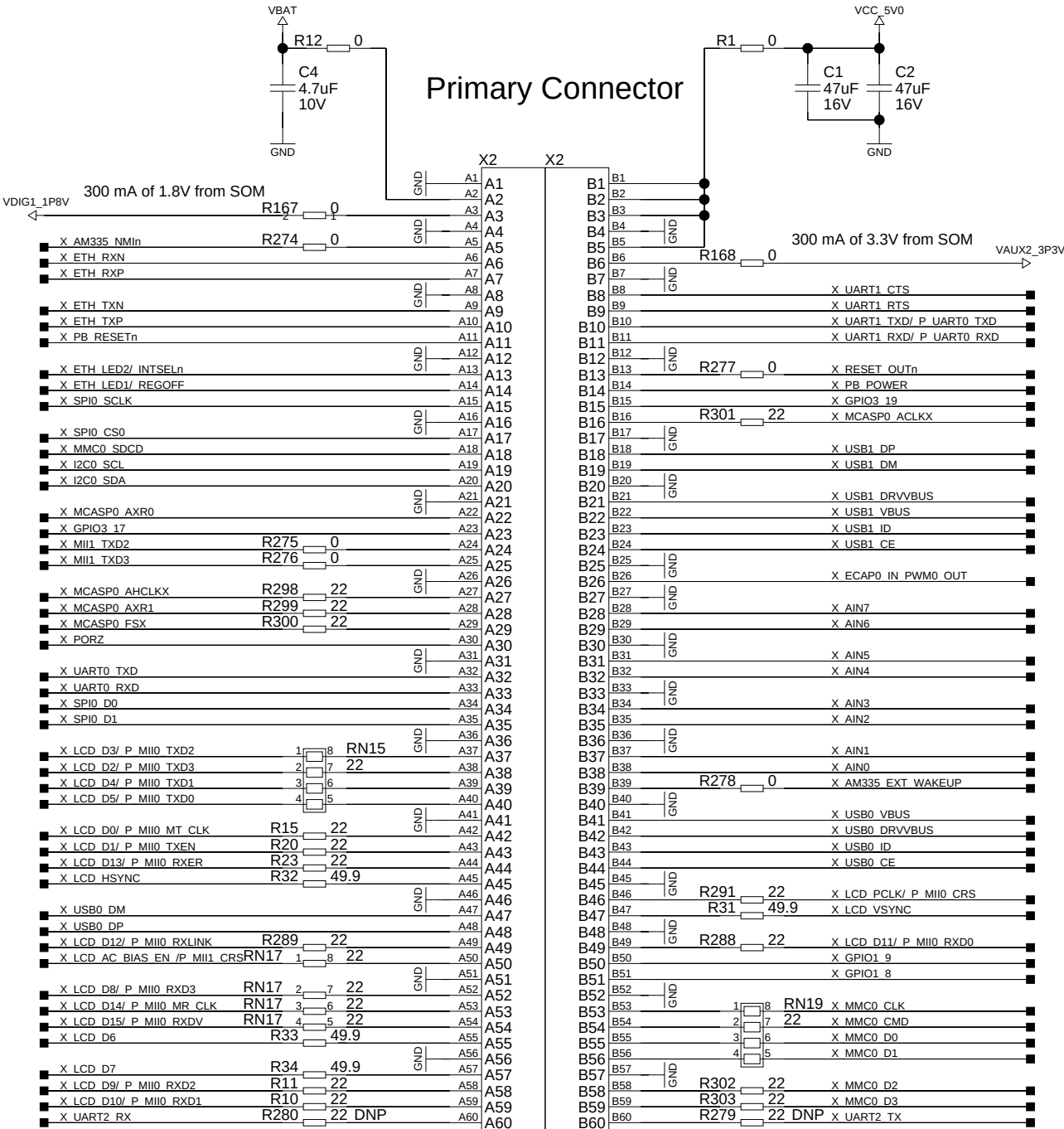
Optional Connector



PHYC2X50-BTHPHYC2X50-BTH



Primary Connector



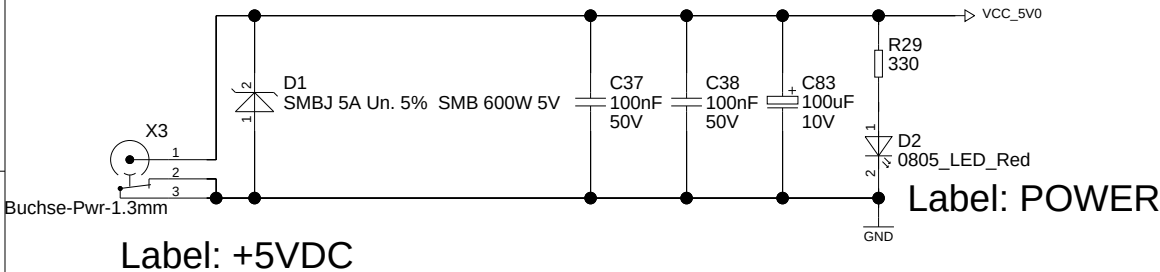
PHYC2X60-BTHPHYC2X60-BTH

PHYTEC

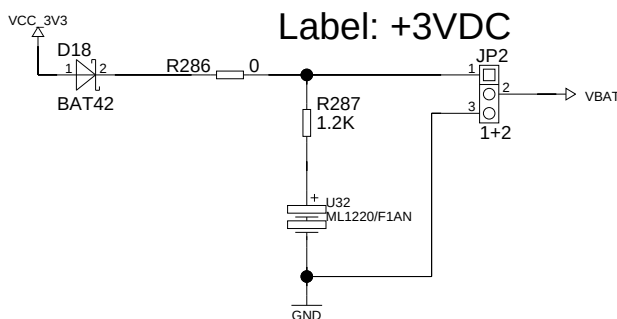
PHYTEC Messtechnik GmbH
Robert-Koch-Strasse 39
D-55129 Mainz

Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 2 of 13

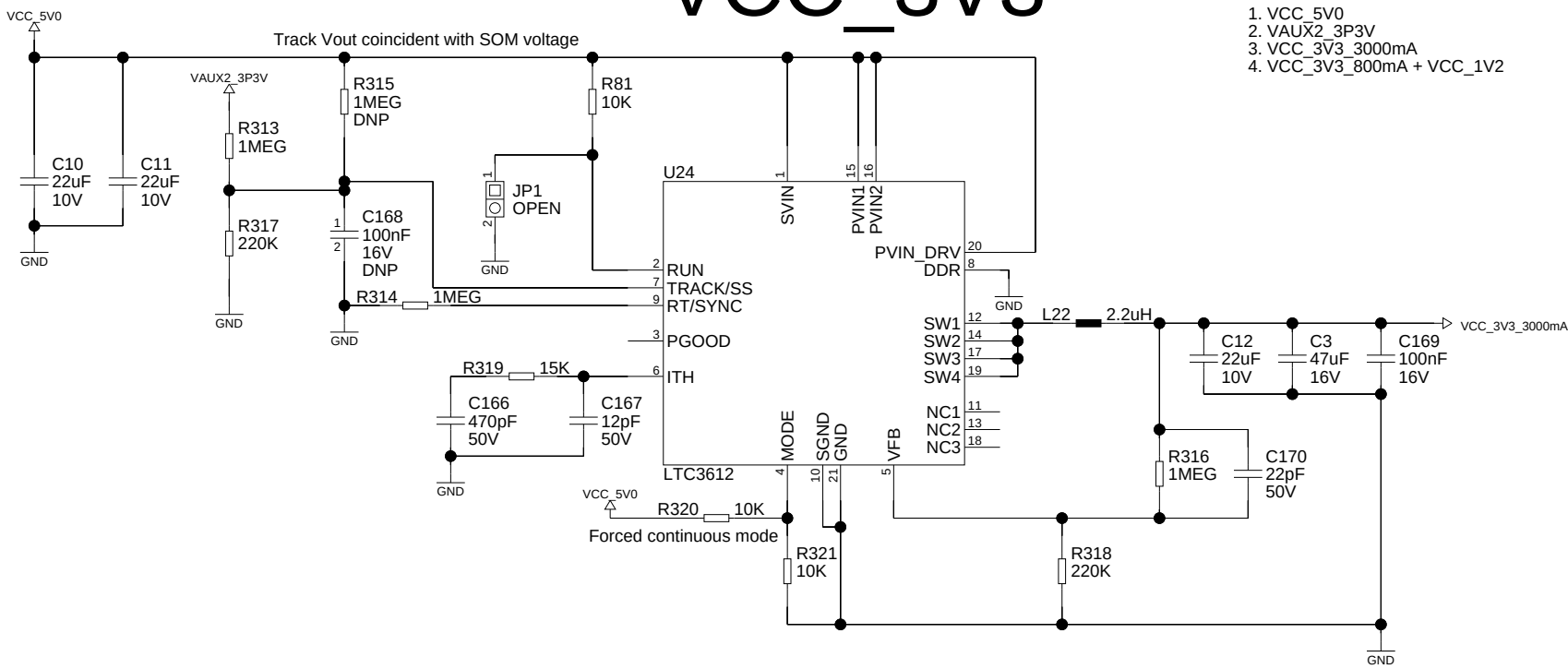
Power Input



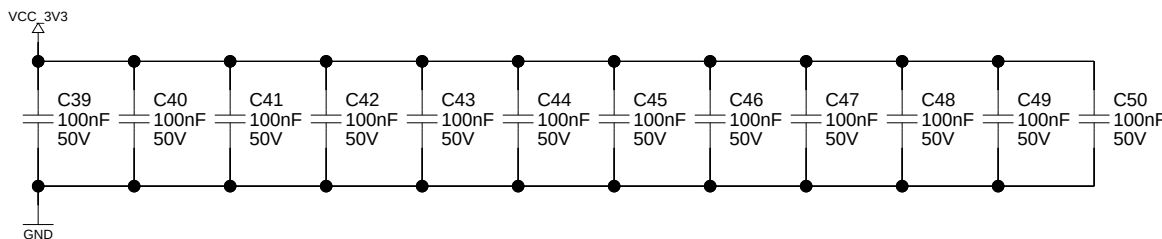
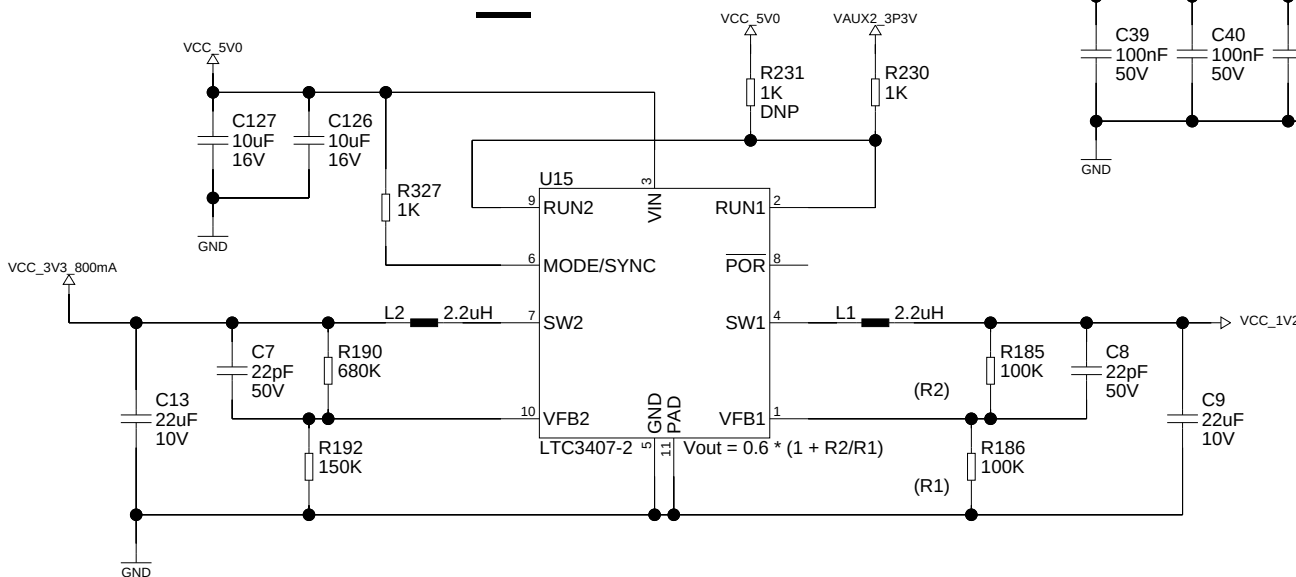
VBAT



VCC_3V3



VCC_1V2



PHYTEC

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

Project:
PCM-953 Carrier Board for phyCORE-AM335x

Department : F&E
Author : T. Jacobson/C. Day

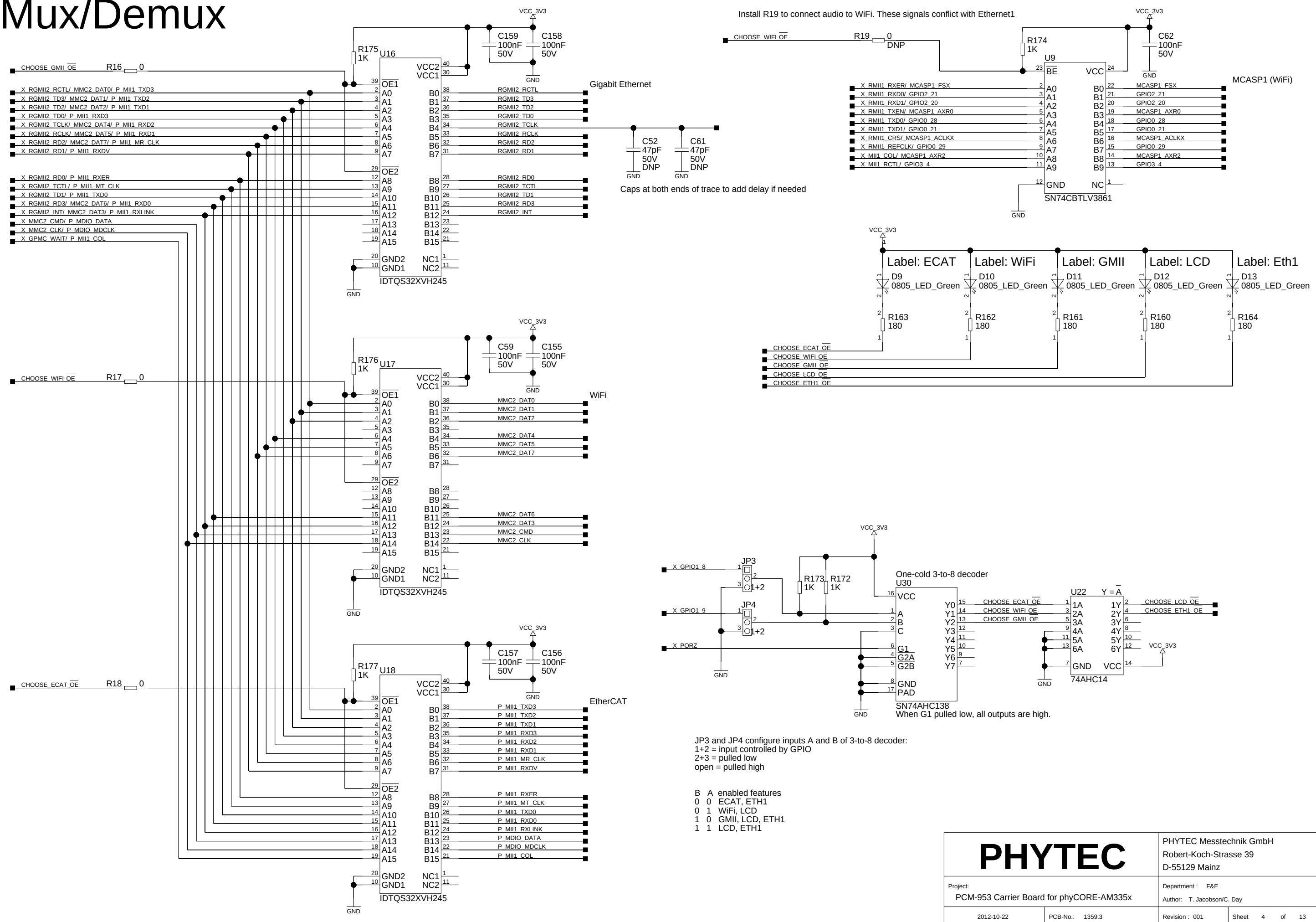
2012-10-22

PCB-No.: 1359.3

Revision : 001

Sheet 3 of 13

Mux/Demux



PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 4 of 13

A

B

C

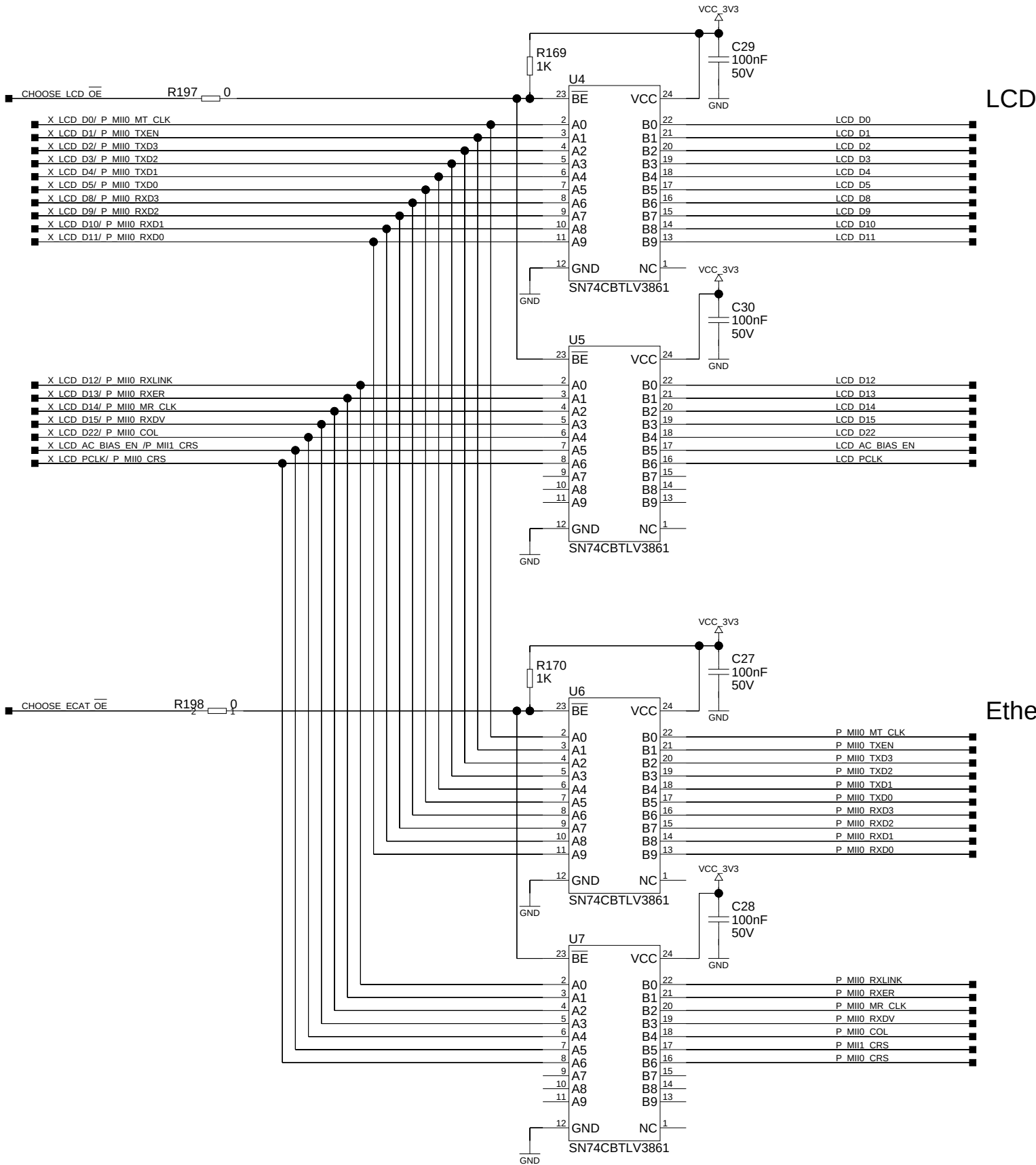
D

A

B

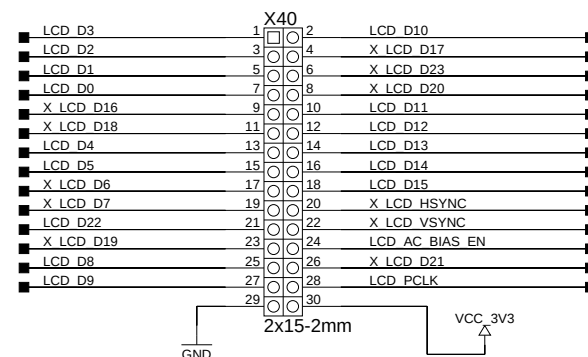
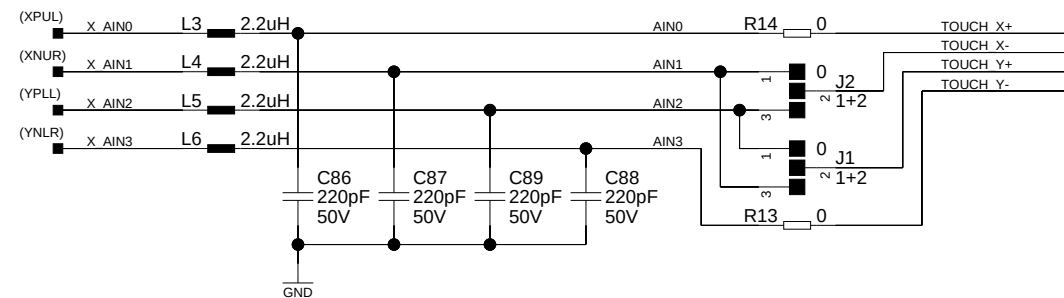
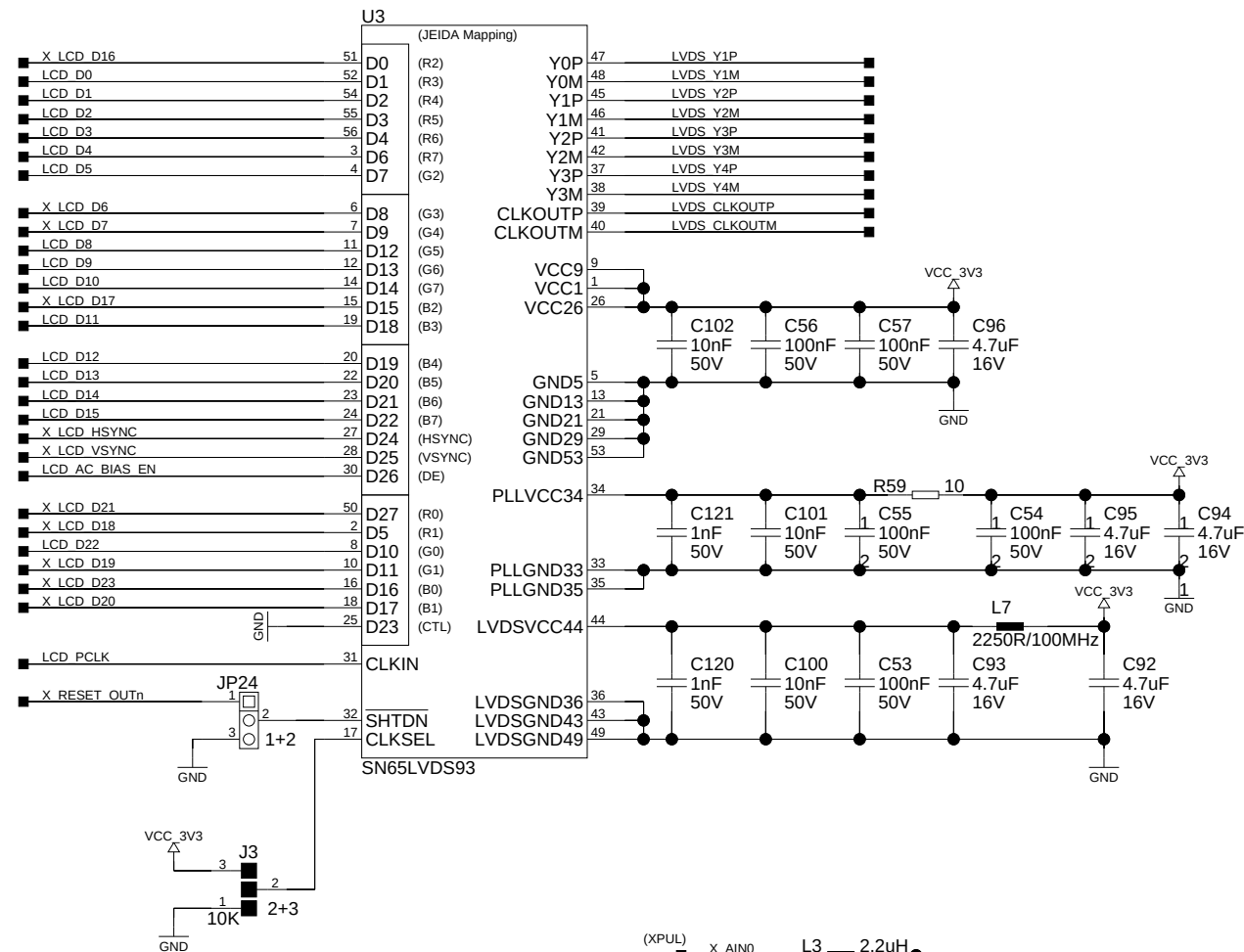
C

D

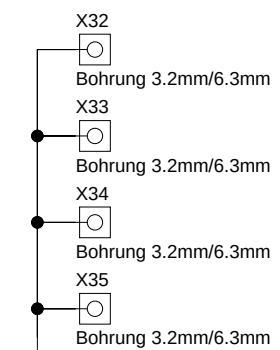


PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 5 of 13

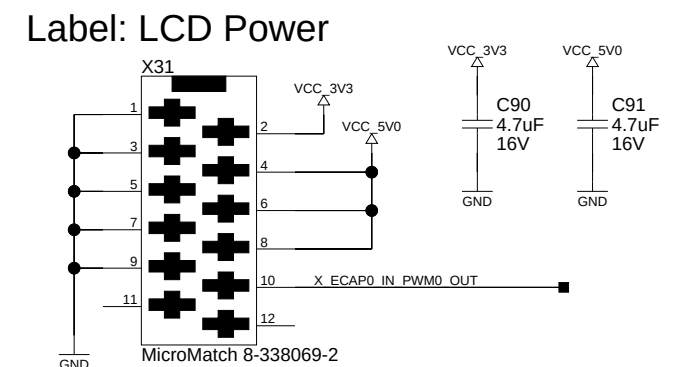
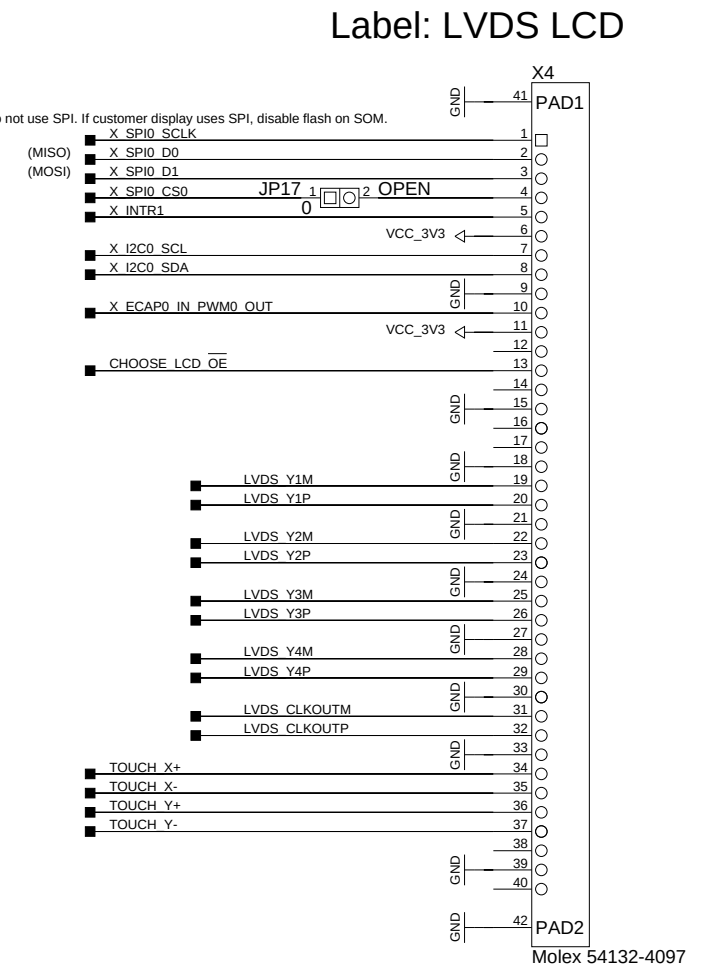
LCD LVDS



Keep stubs to this connector short.

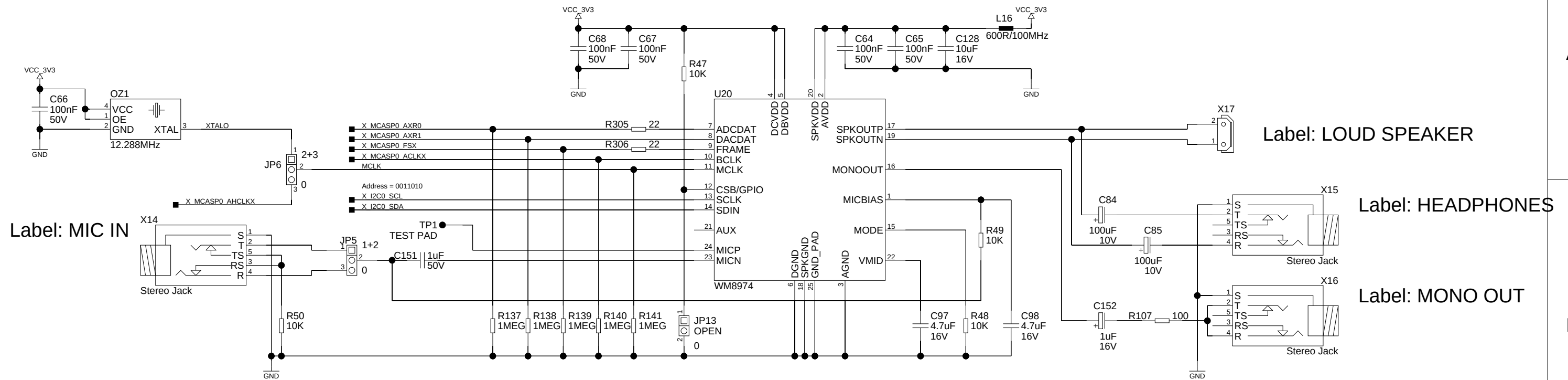


Mounting holes for corners of PCB.
The two holes on the left should be
placed to line up with LCD-017.

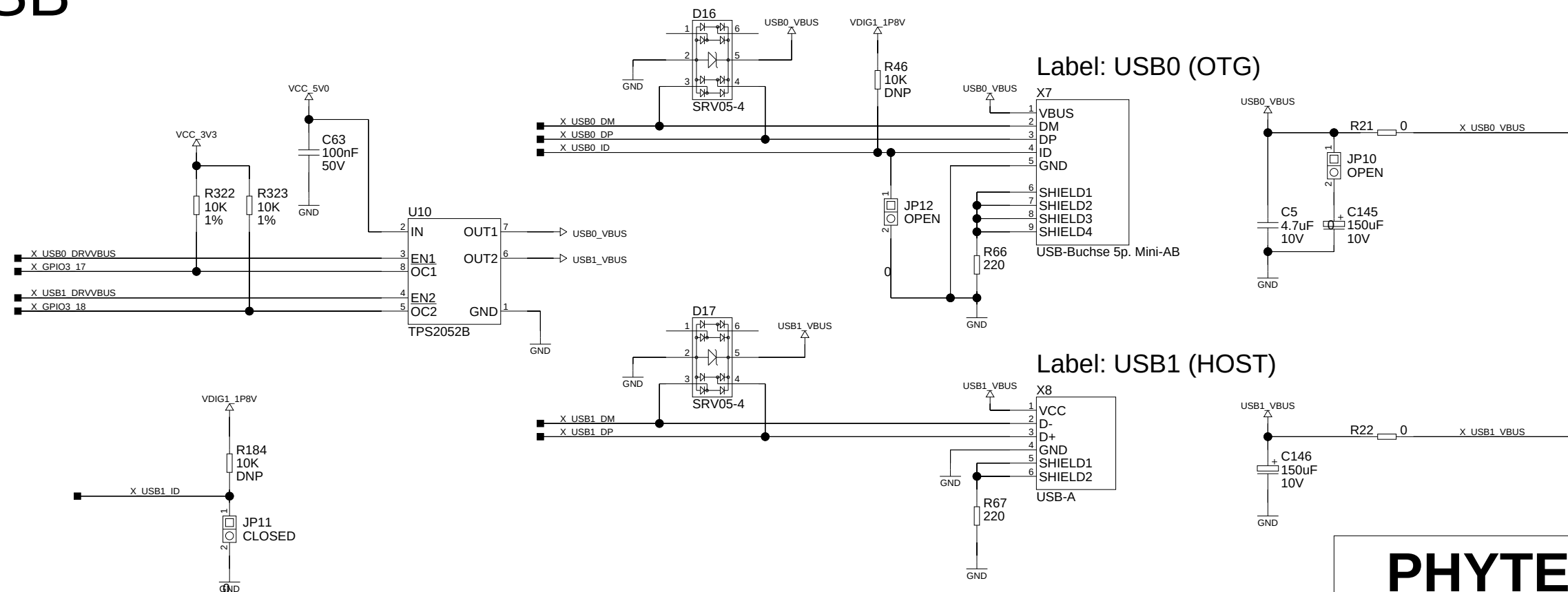


PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 6 of 13

Audio



USB



PHYTEC

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

Project:
PCM-953 Carrier Board for phyCORE-AM335x

Department : F&E
Author: T. Jacobson/C. Day

2012-10-22

PCB-No.: 1359.3

Revision : 001

Sheet 7 of 13

A

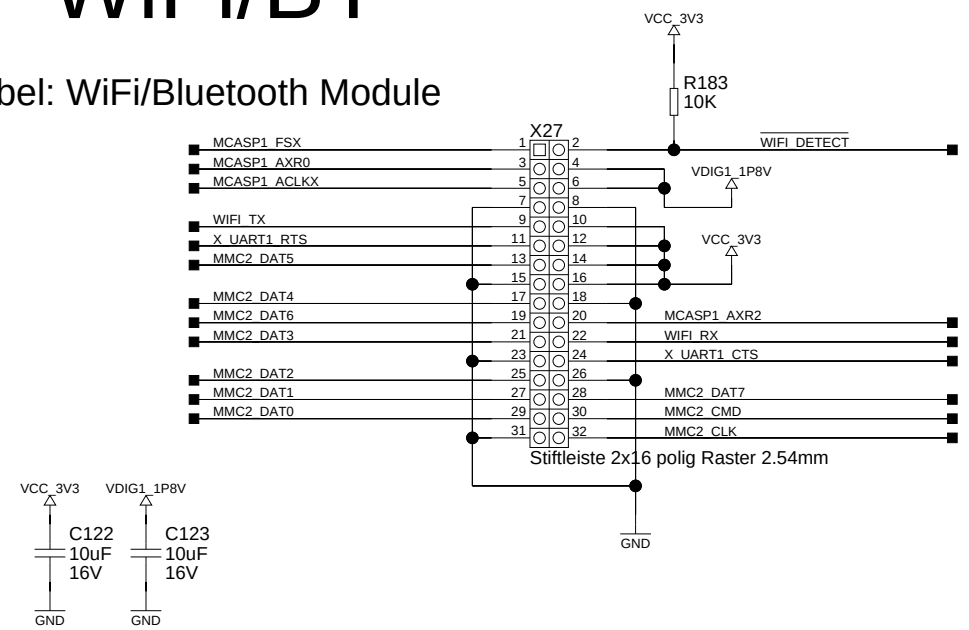


C

6

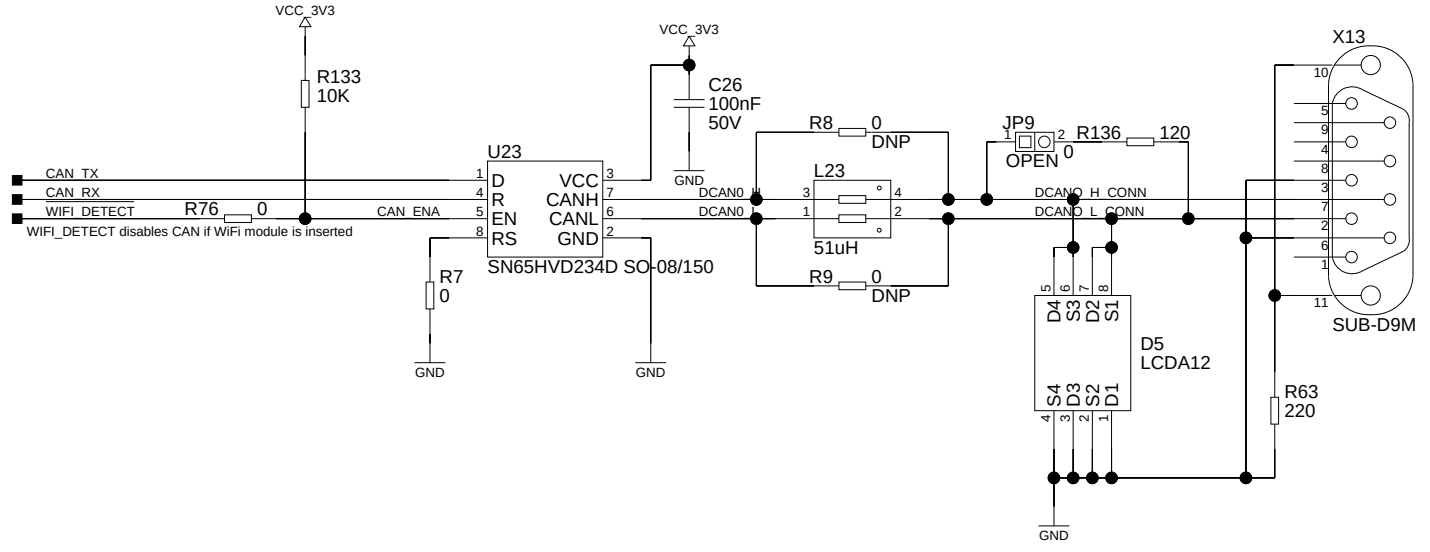
WiFi/BT

Label: WiFi/Bluetooth Module



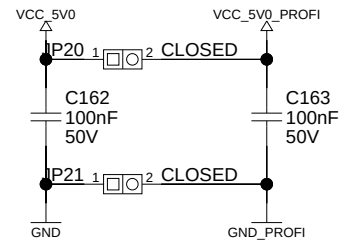
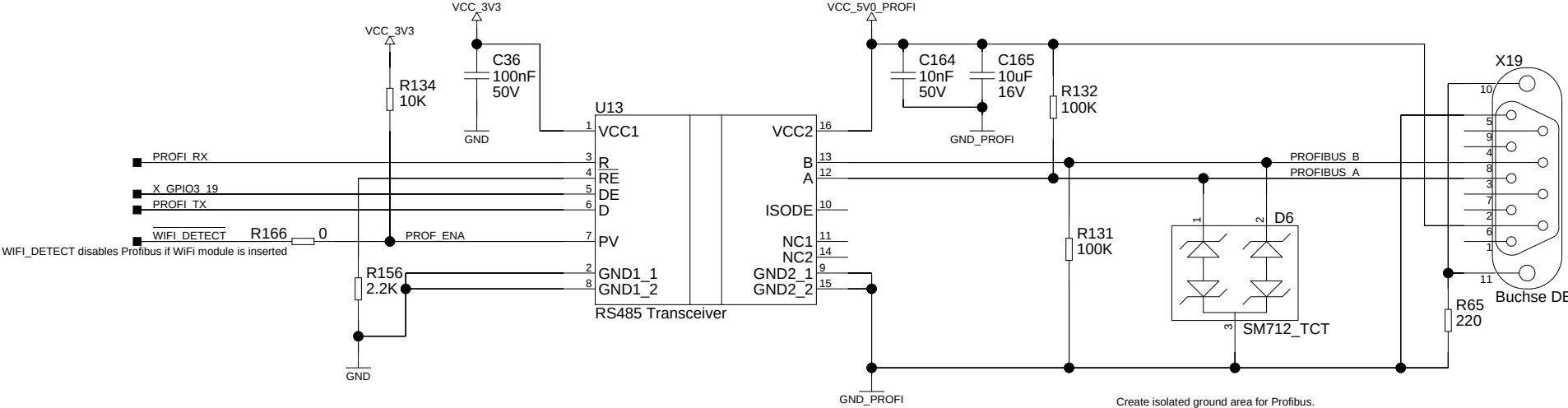
CAN

Label: CAN



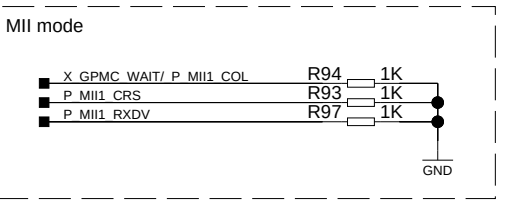
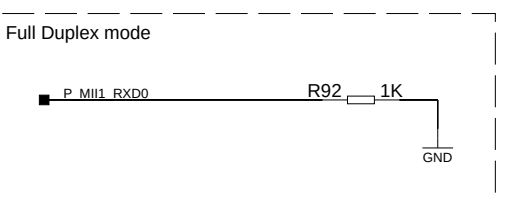
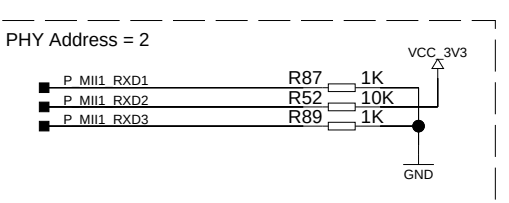
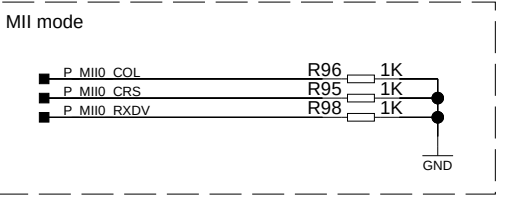
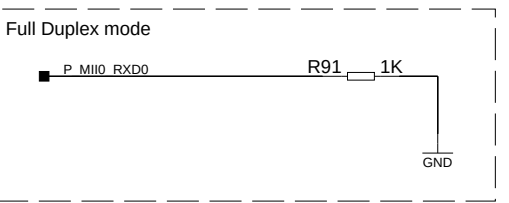
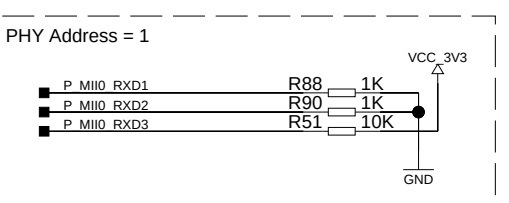
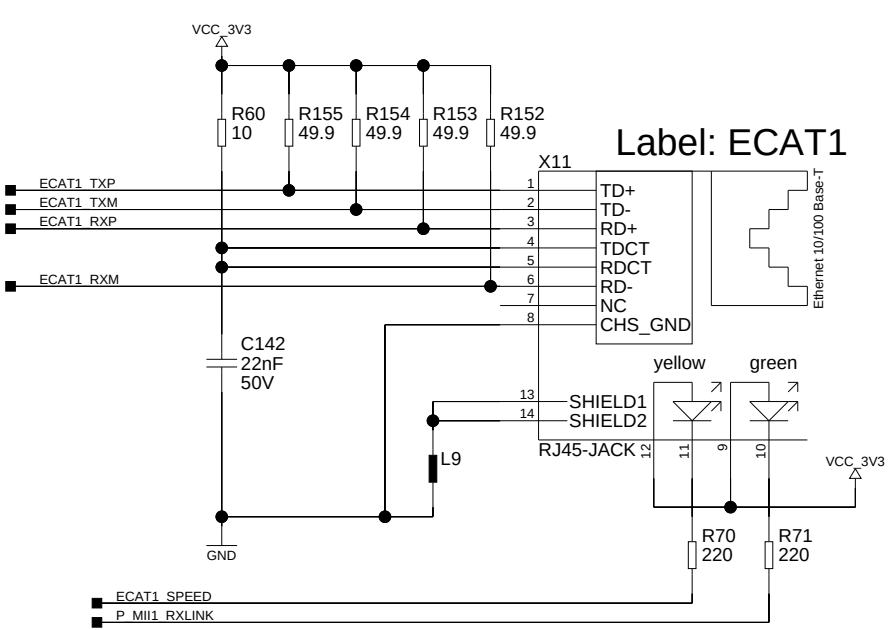
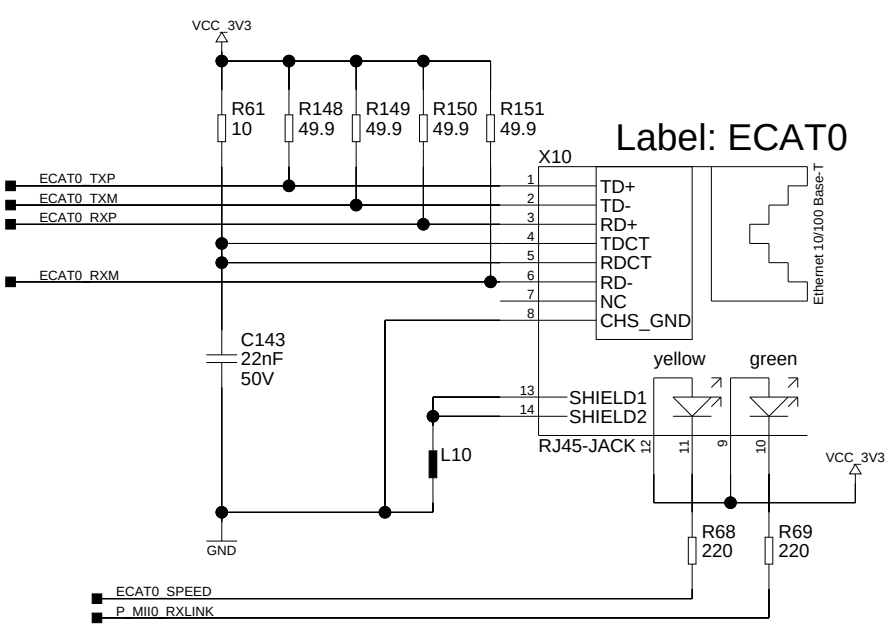
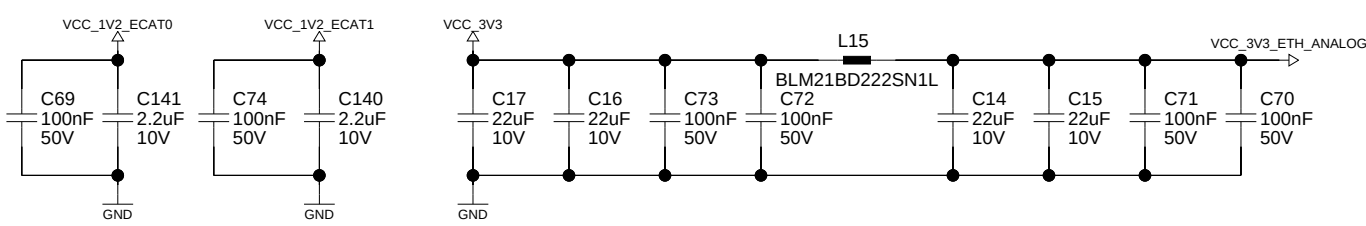
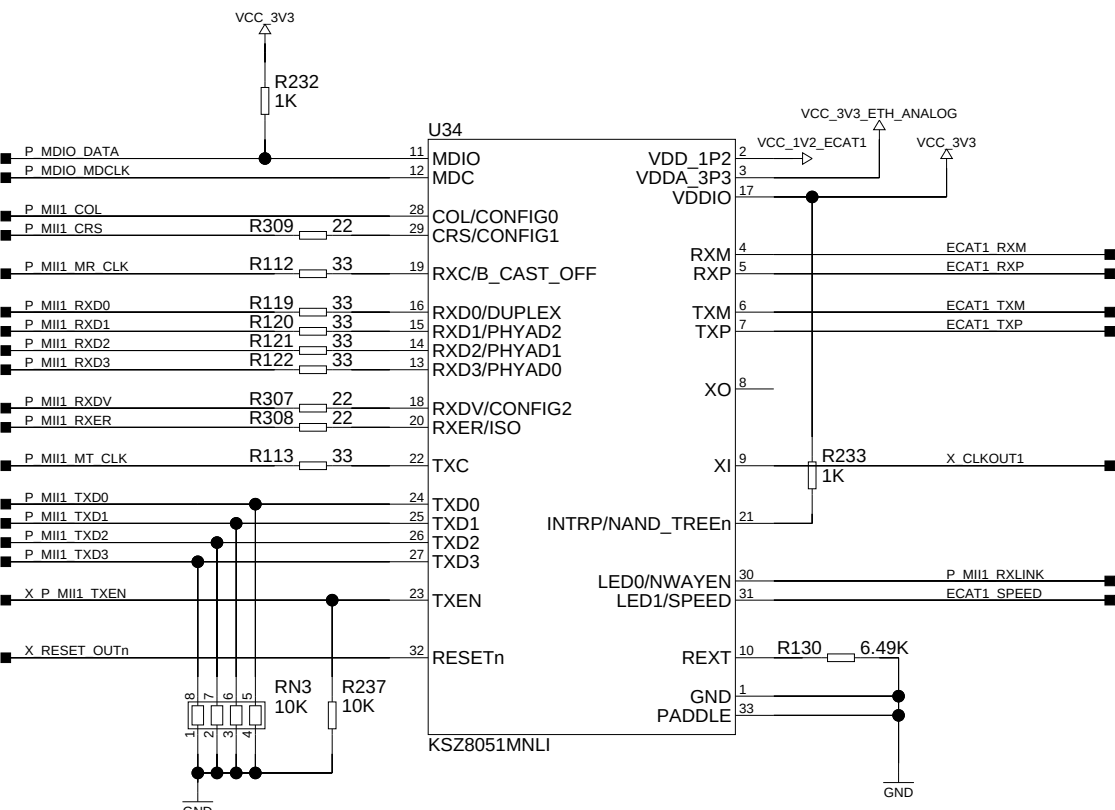
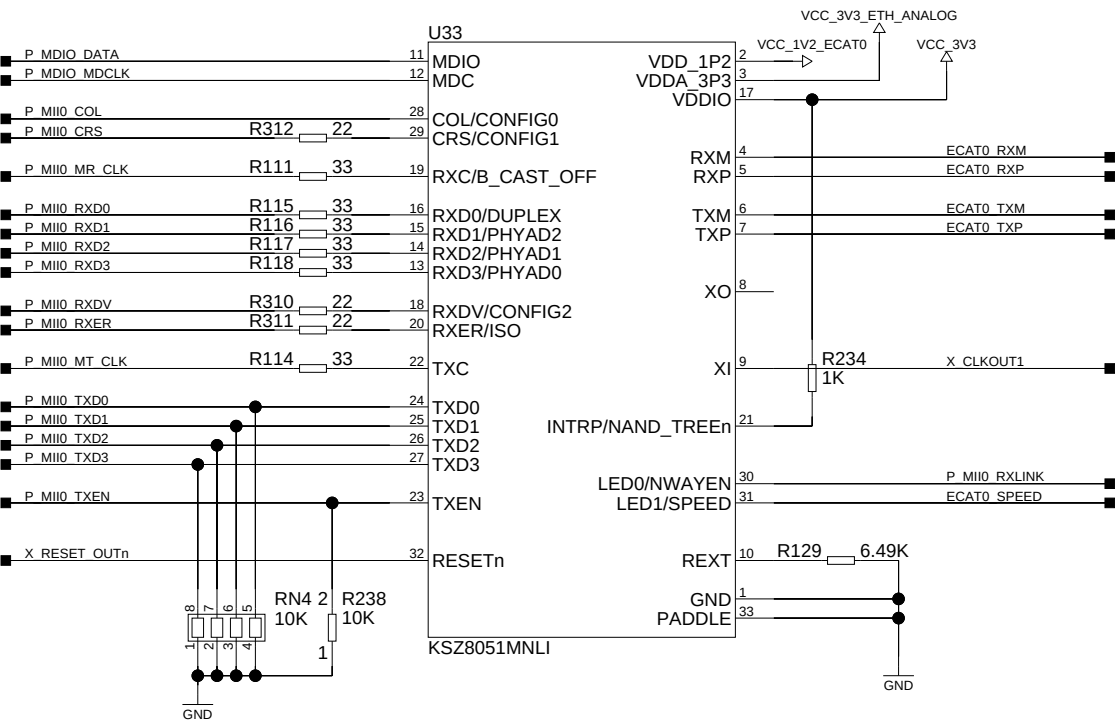
Profibus

Label: Profibus



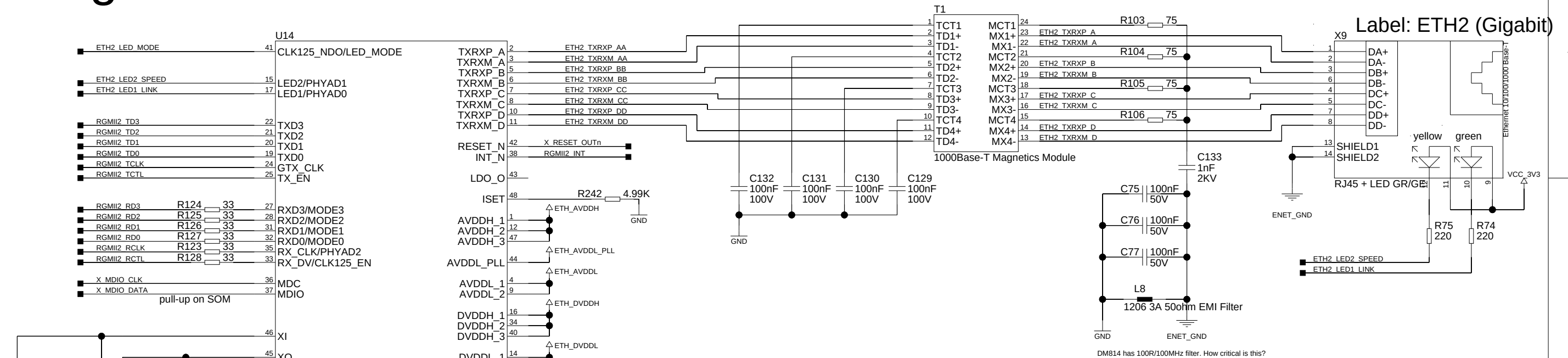
PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 9 of 13

EtherCAT

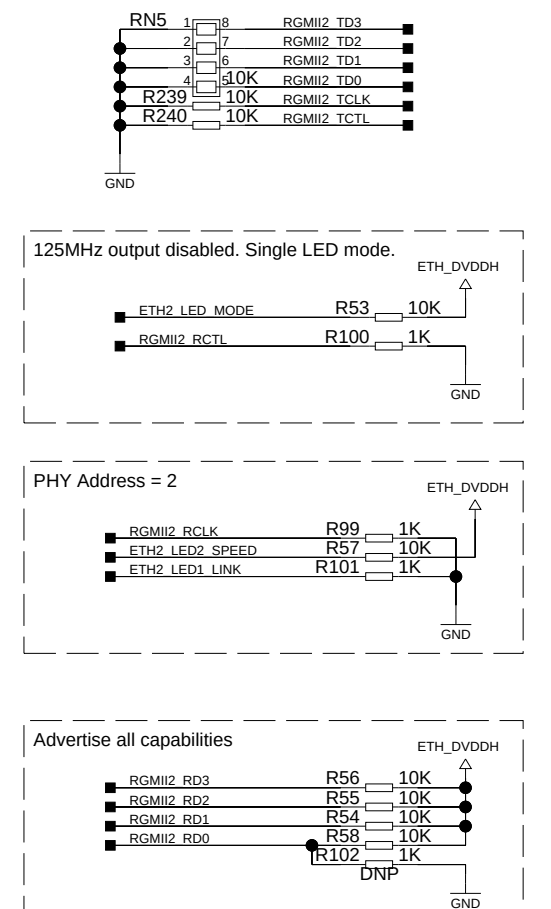
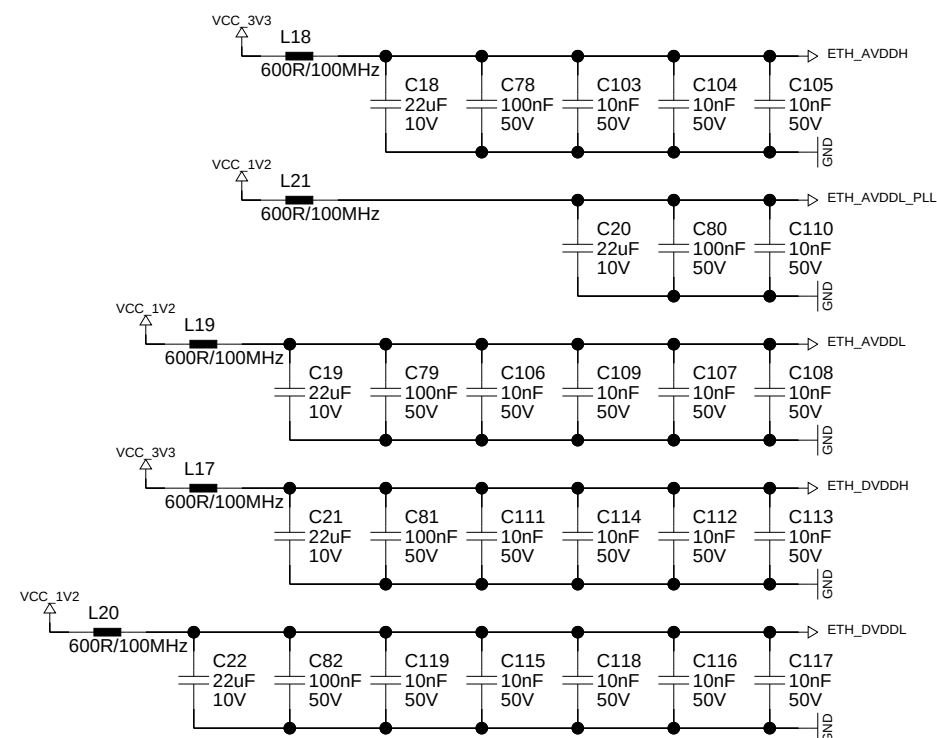
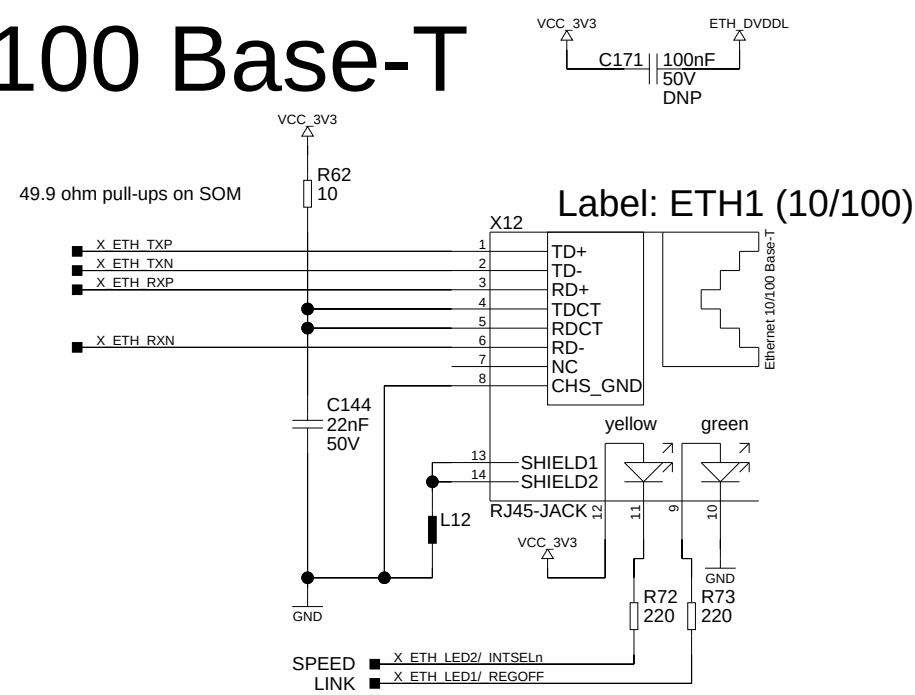


PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 10 of 13

Gigabit Ethernet



10/100 Base-T

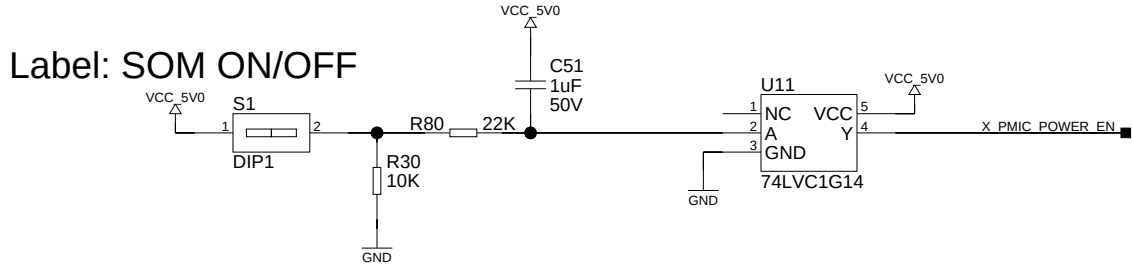


PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x	Department : F&E Author: T. Jacobson/C. Day		
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 11 of 13

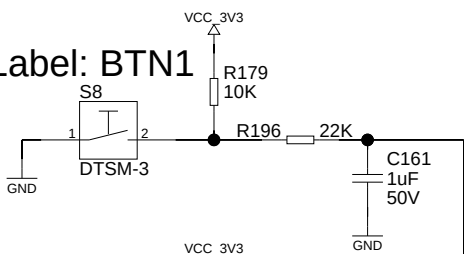
User LEDs and Buttons

Boot Settings

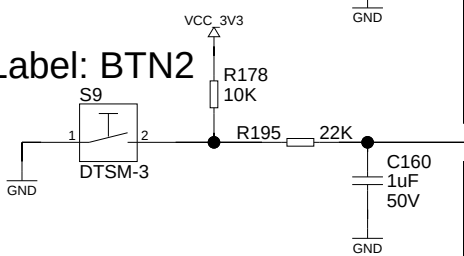
Label: SOM ON/OFF



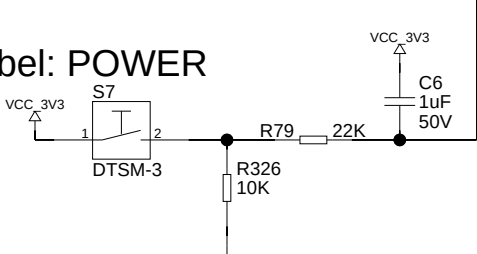
Label: BTN1



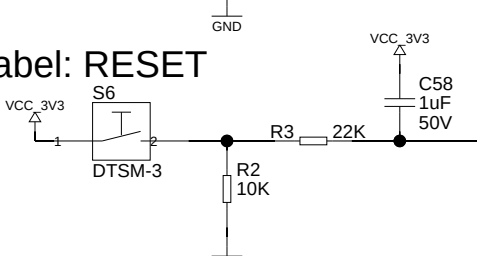
Label: BTN2



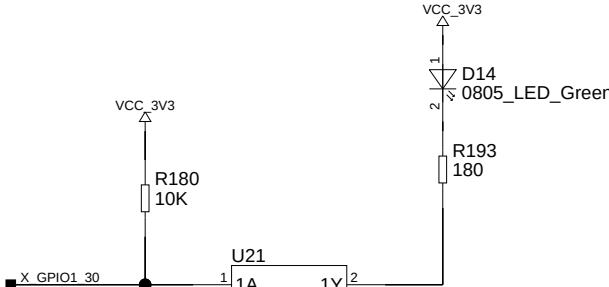
Label: POWER



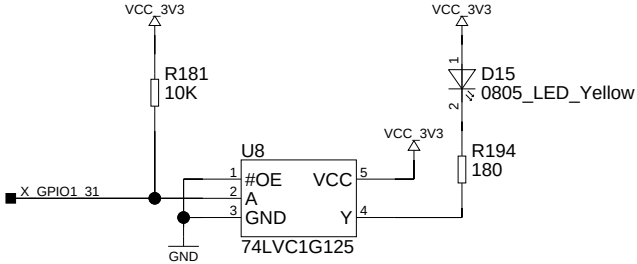
Label: RESET



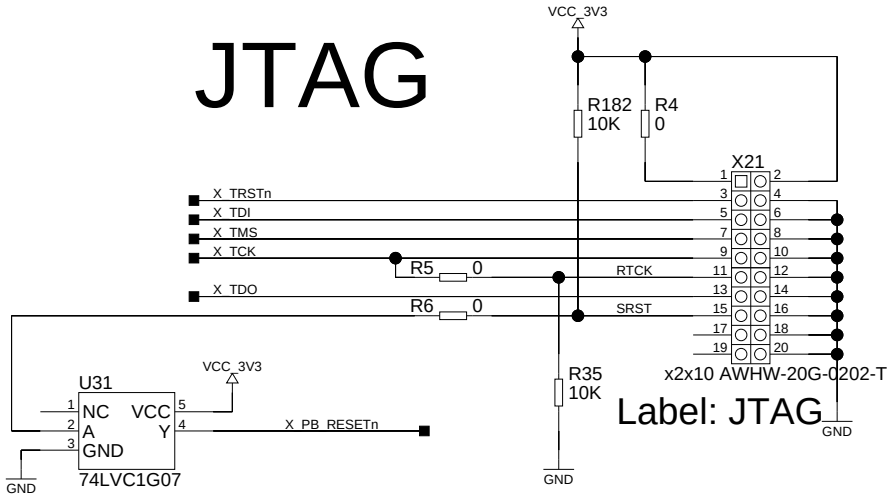
Label: LED1



Label: LED2



JTAG



PHYTEC

PHYTEC Messtechnik GmbH
Robert-Koch-Strasse 39
D-55129 Mainz
Department : F&E
Author: T. Jacobson/C. Day
Revision : 001
Sheet 12 of 13

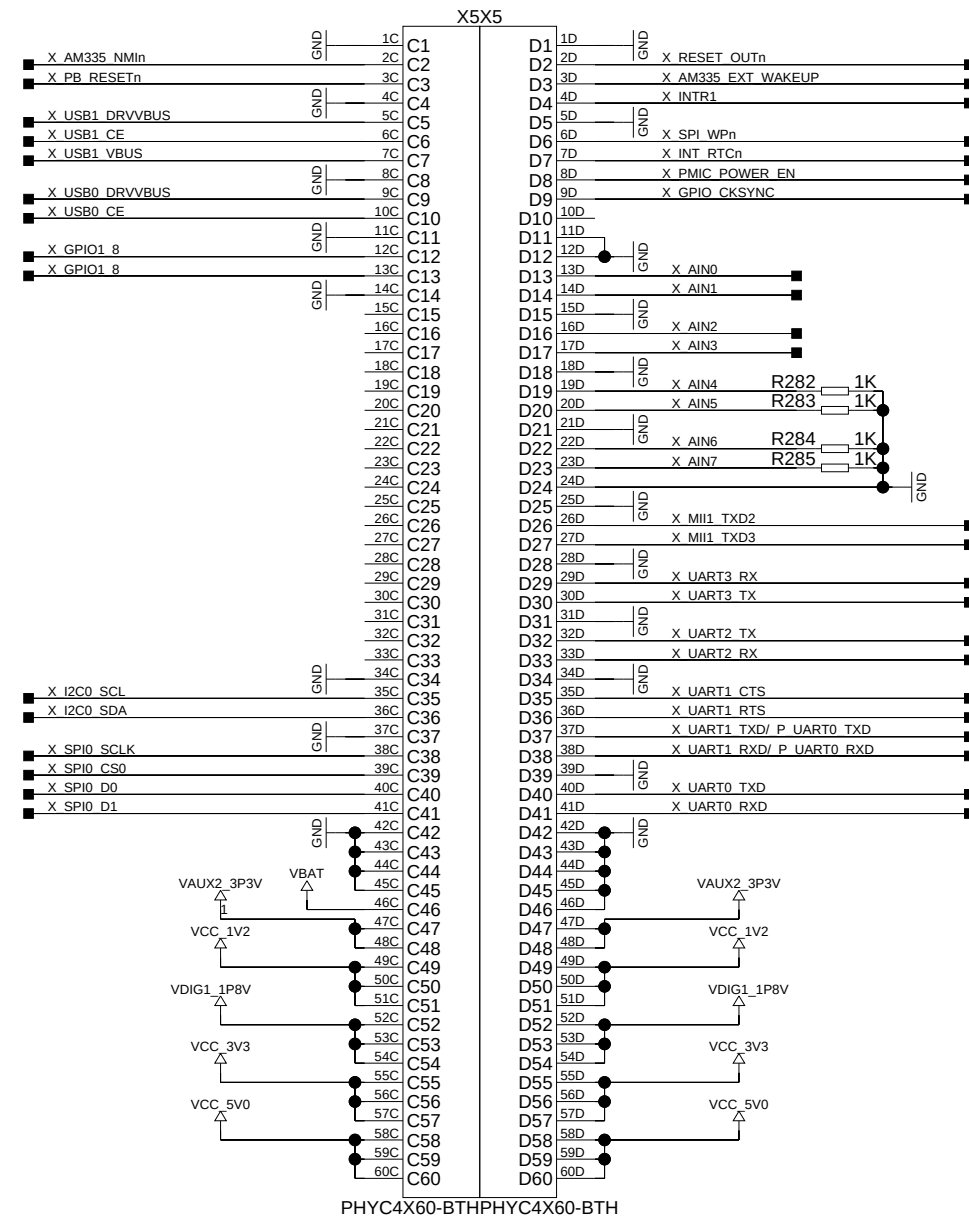
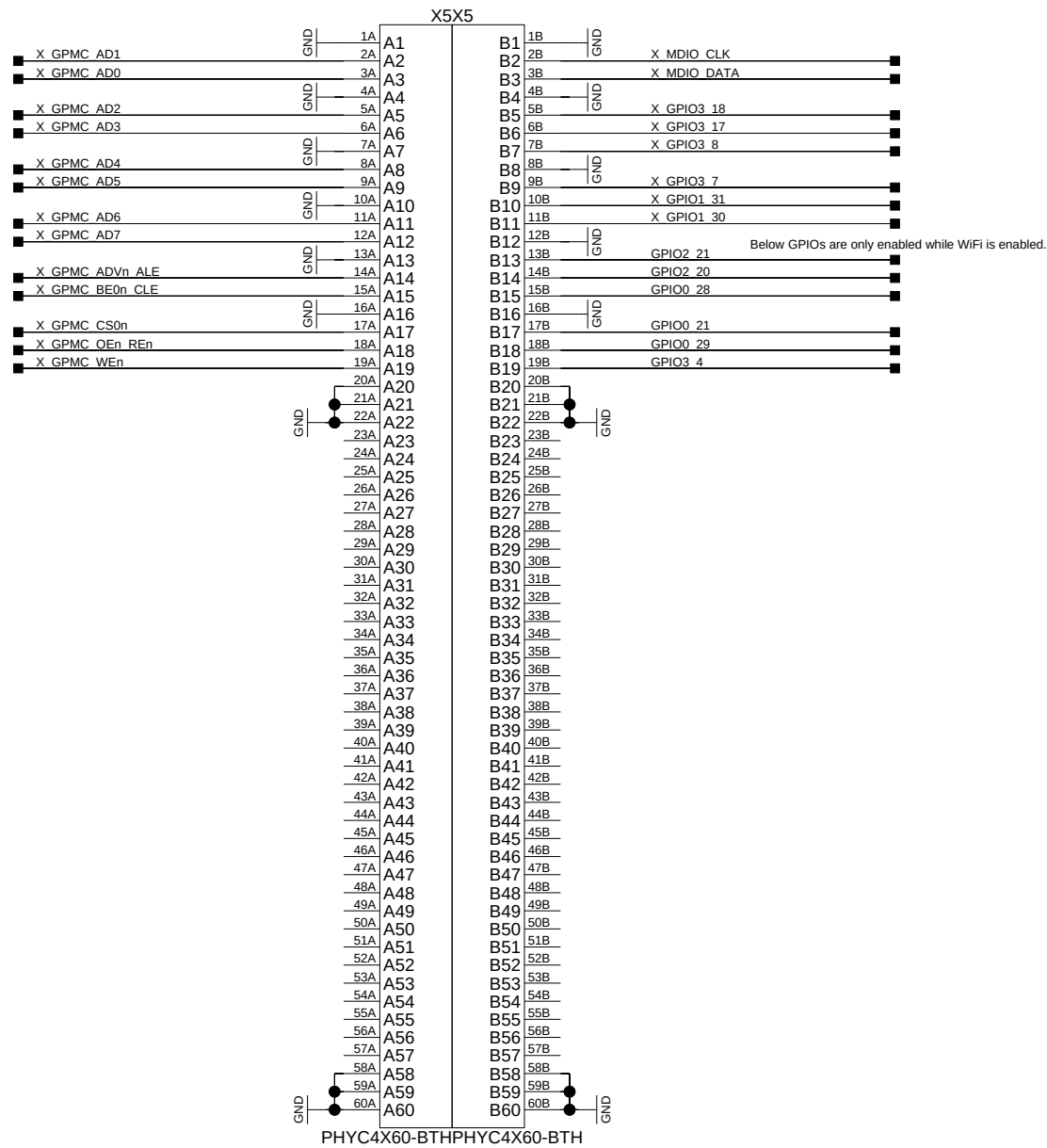
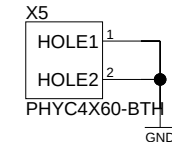
Project:
PCM-953 Carrier Board for phyCORE-AM335x

2012-10-22 PCB-No.: 1359.3

Jumper X_SPI_WPn to GND to write protect SPI flash on SOM.



GPIO Expansion Connector



PHYTEC		PHYTEC Messtechnik GmbH Robert-Koch-Strasse 39 D-55129 Mainz	
Project: PCM-953 Carrier Board for phyCORE-AM335x		Department : F&E Author: T. Jacobson/C. Day	
2012-10-22	PCB-No.: 1359.3	Revision : 001	Sheet 13 of 13