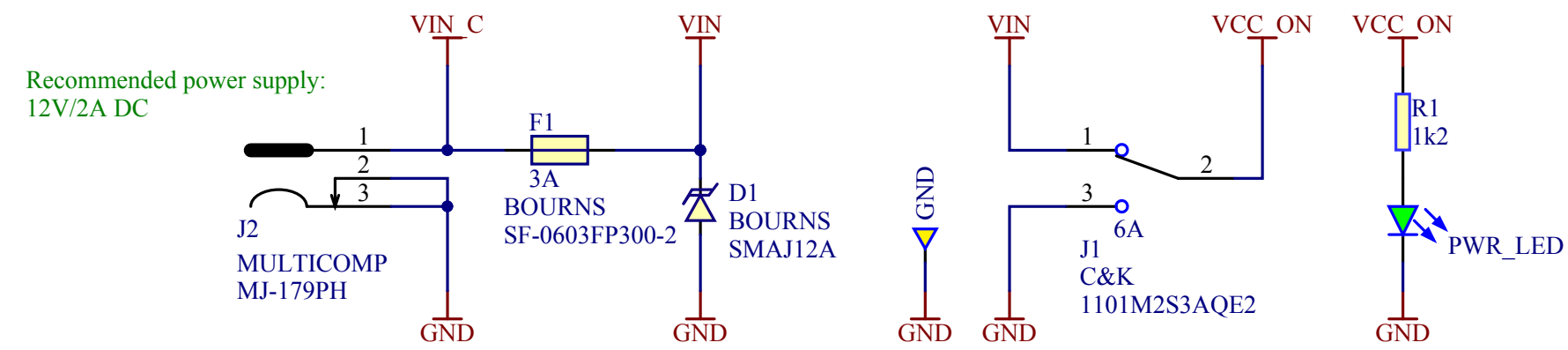
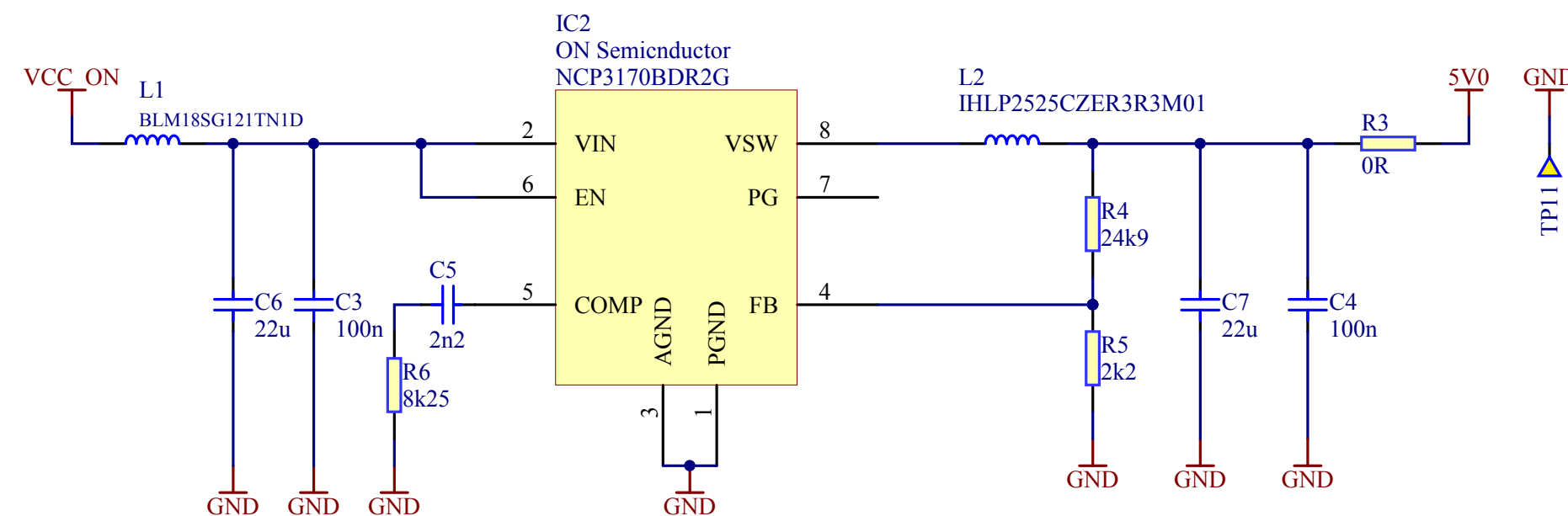


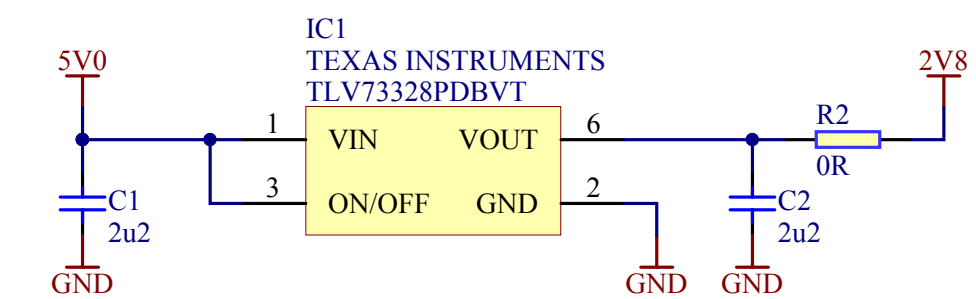
DC supply input



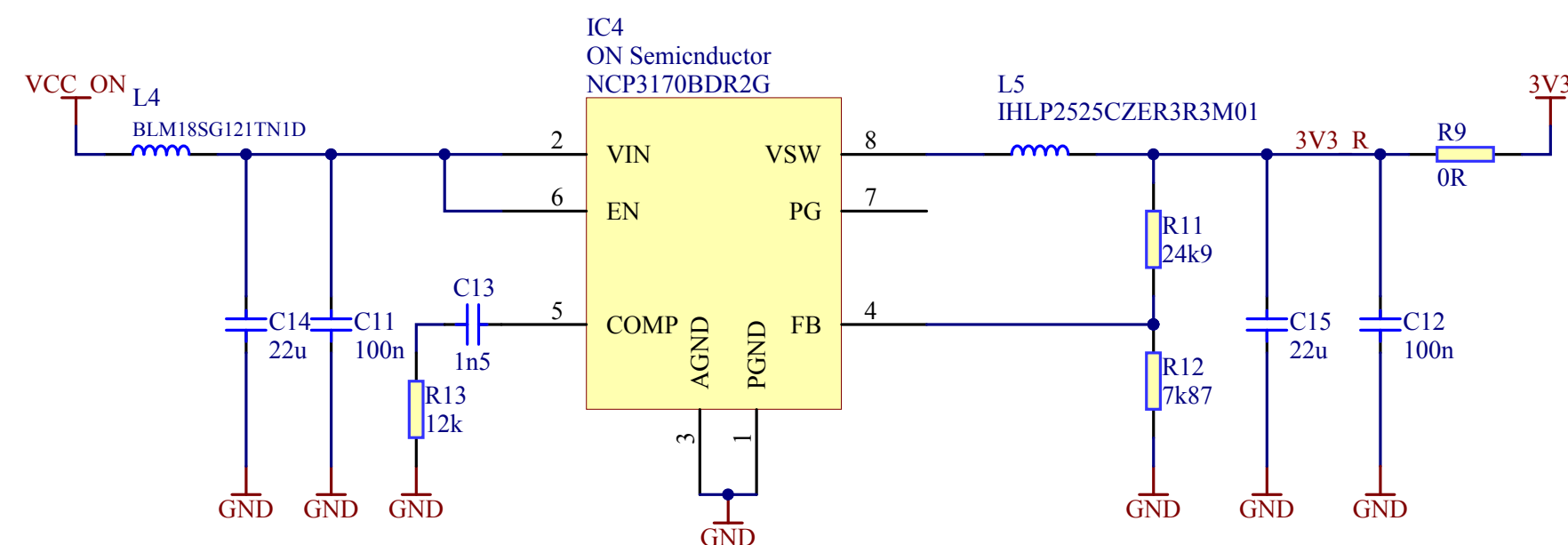
Step-down converter (5V, 3A)



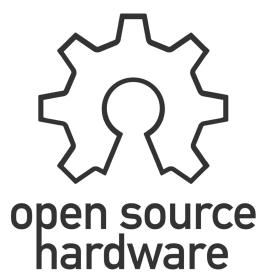
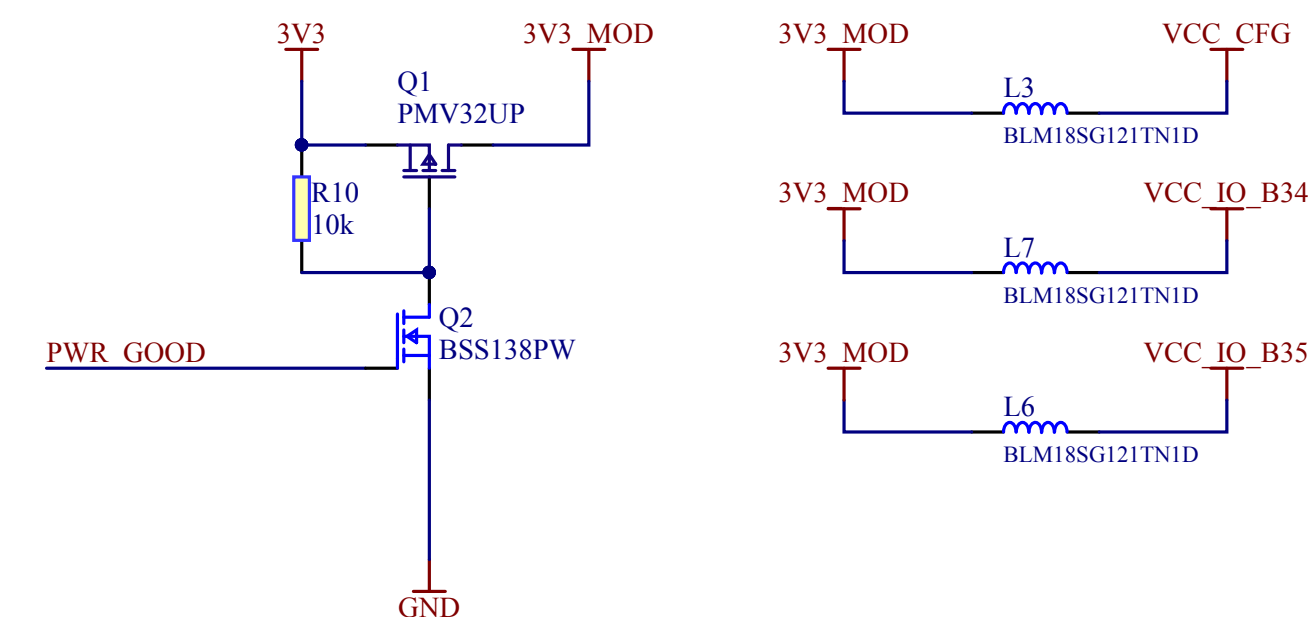
LDO (2.8V, 300mA)



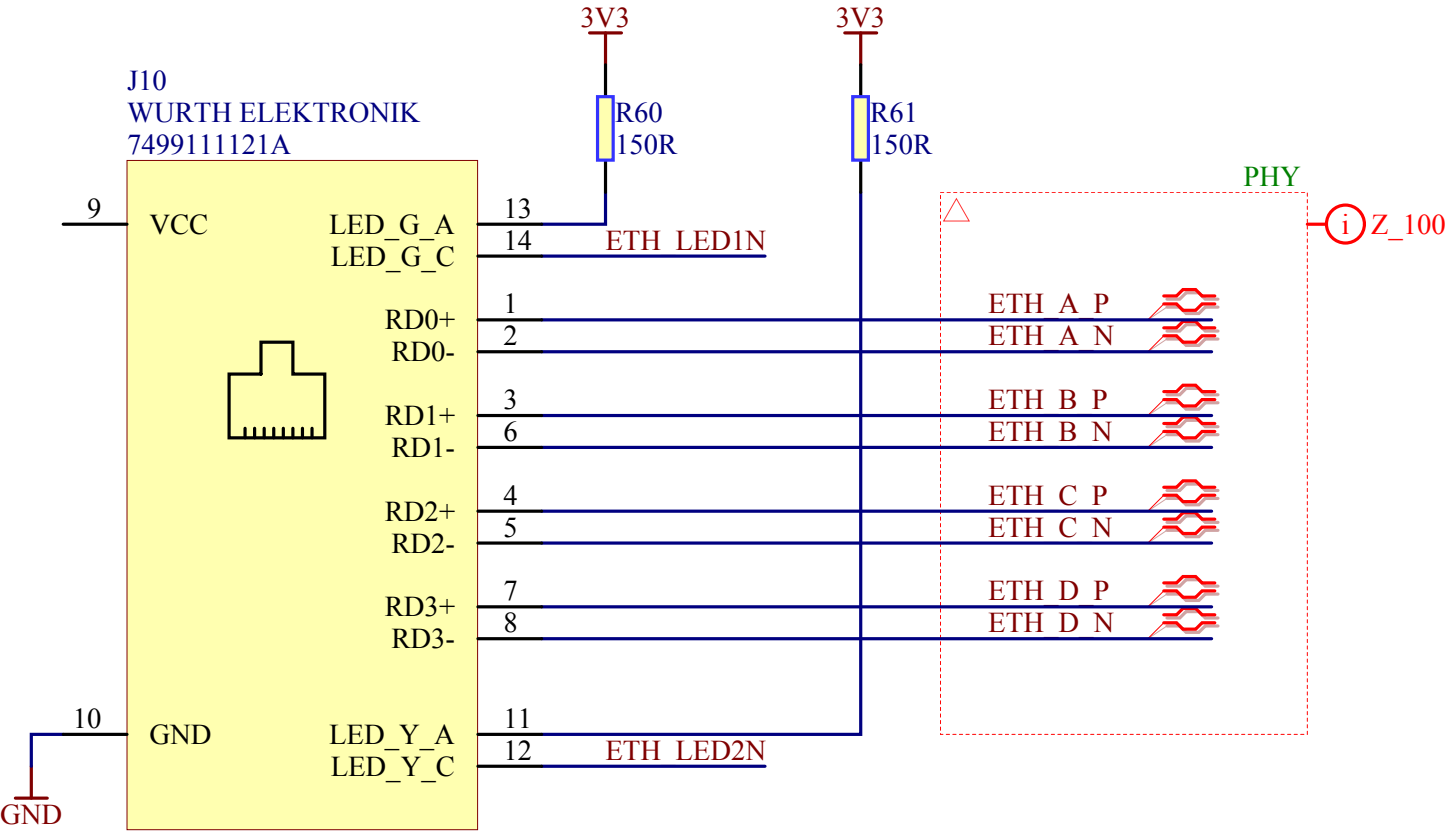
Step-down converter (3.3V, 3A)



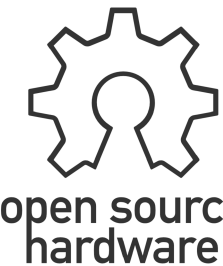
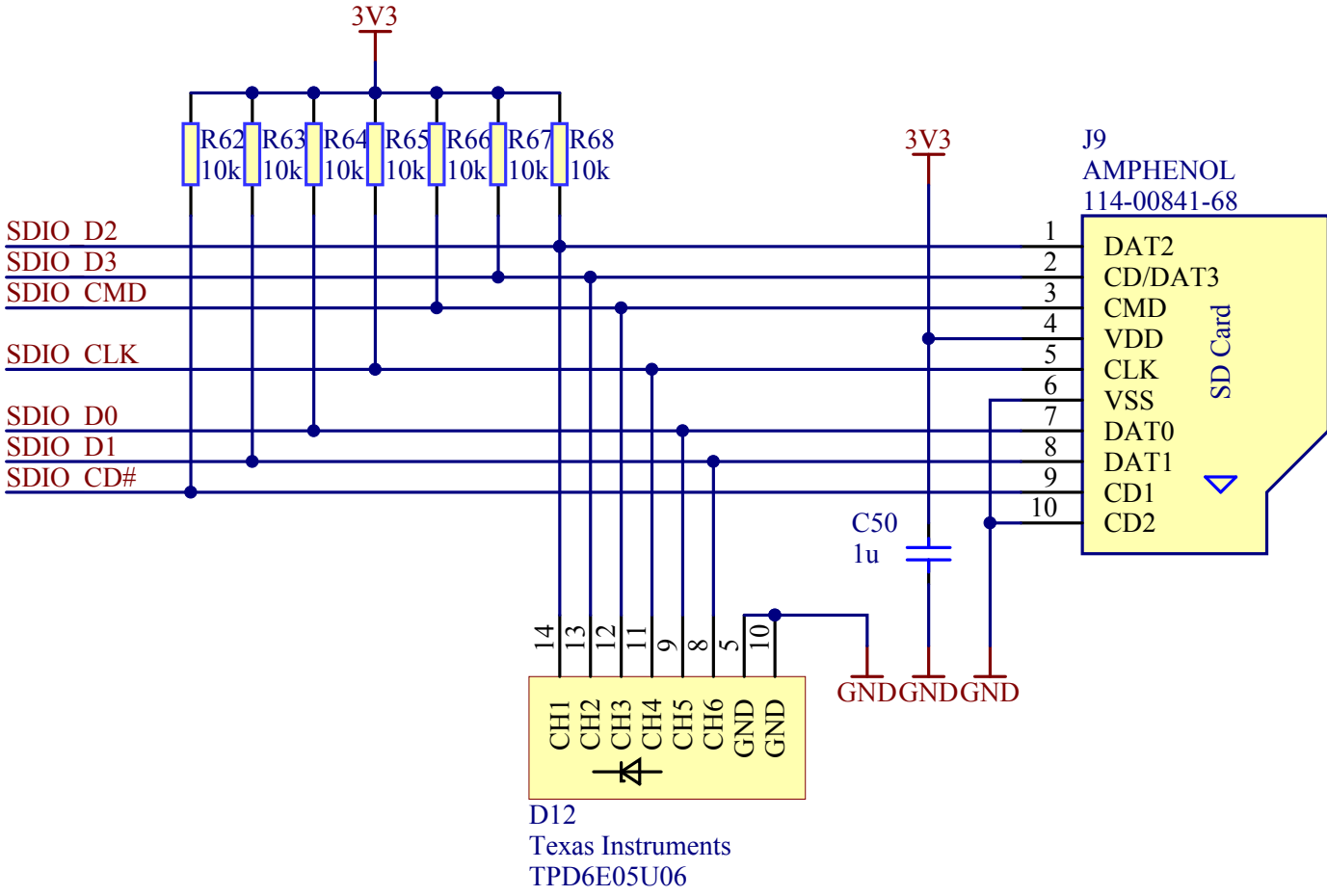
Mars module power sequencer



Gigabit Ethernet interface



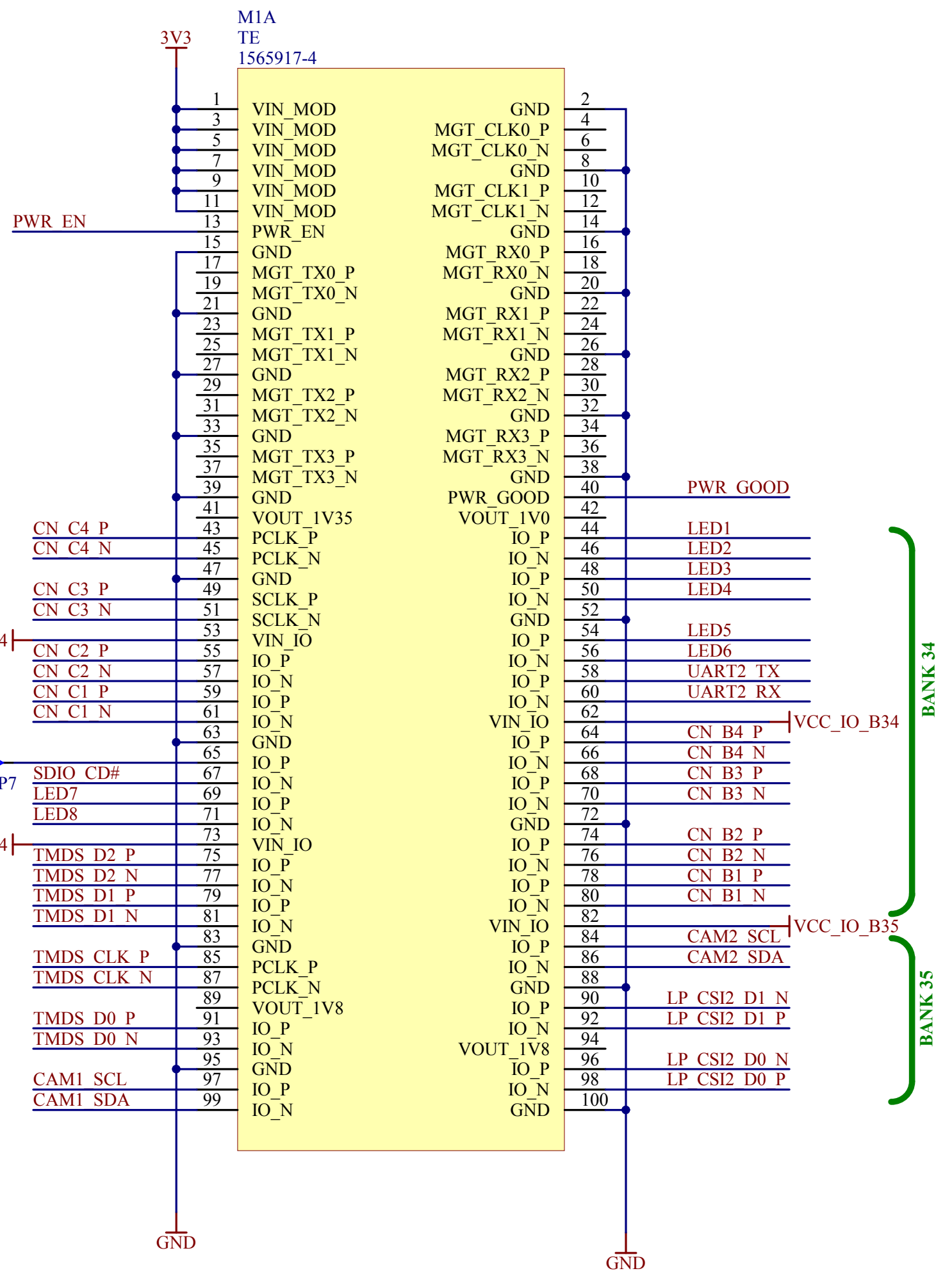
SD card



PSoC SO-DIMM connector

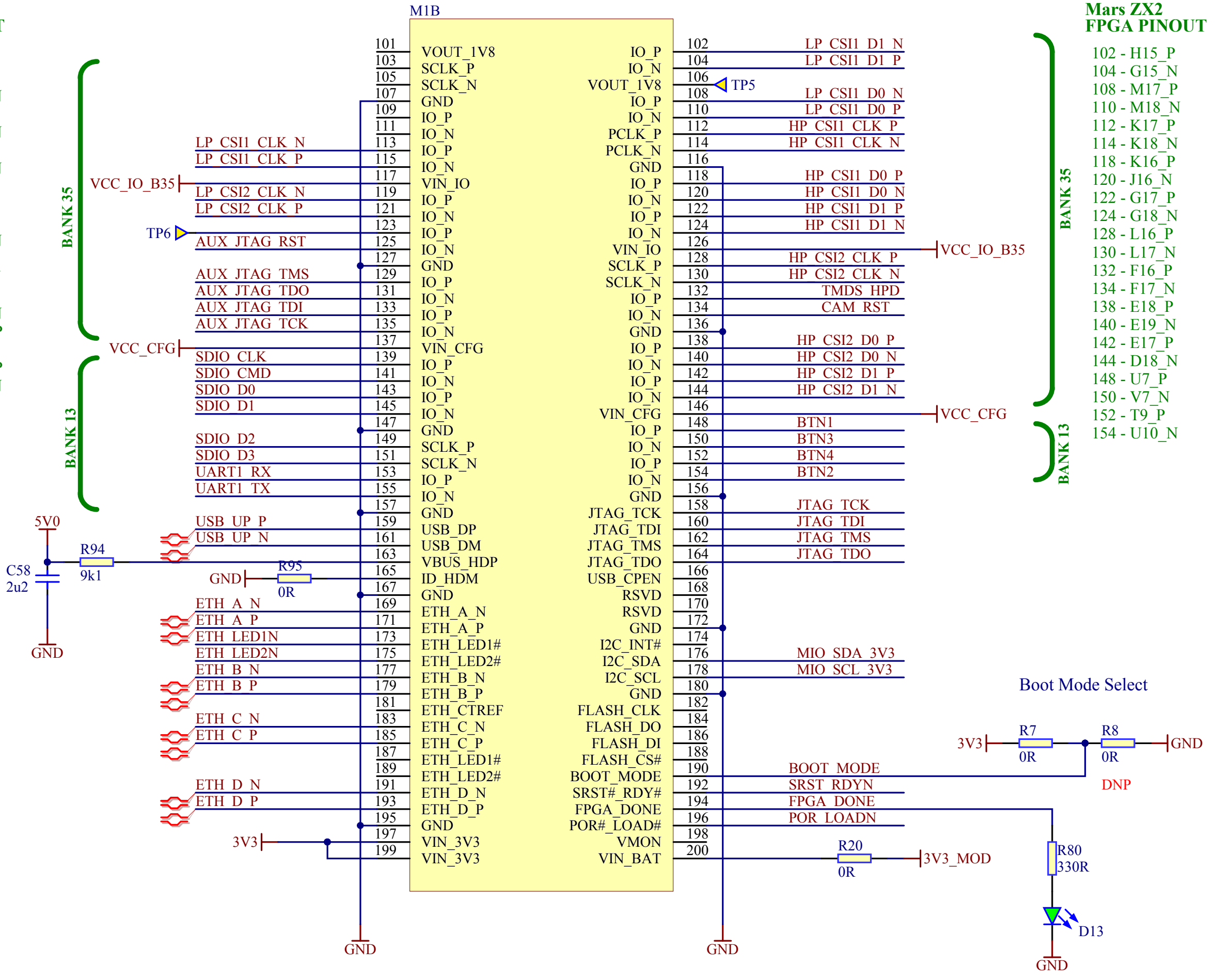
Mars ZX2
FPGA PINOUT

- 17 - T17_P
- 19 - R18_N
- 23 - T12_P
- 25 - U12_N
- 29 - V16_P
- 31 - W16_N
- 35 - R16_P
- 37 - R17_N
- 43 - N18_P
- 45 - P19_N
- 49 - N20_P
- 51 - P20_N
- 55 - V15_P
- 57 - W15_N
- 59 - Y16_P
- 61 - Y17_N
- 65 - Y18_P
- 67 - Y19_N
- 69 - W18_P
- 71 - W19_N
- 75 - N15_P
- 77 - N16_N
- 79 - M19_P
- 81 - M20_N
- 85 - H16_P
- 87 - H17_N
- 91 - L19_P
- 93 - L20_N
- 97 - K19_P
- 99 - J19_N



Mars ZX2 FPGA PINOUT

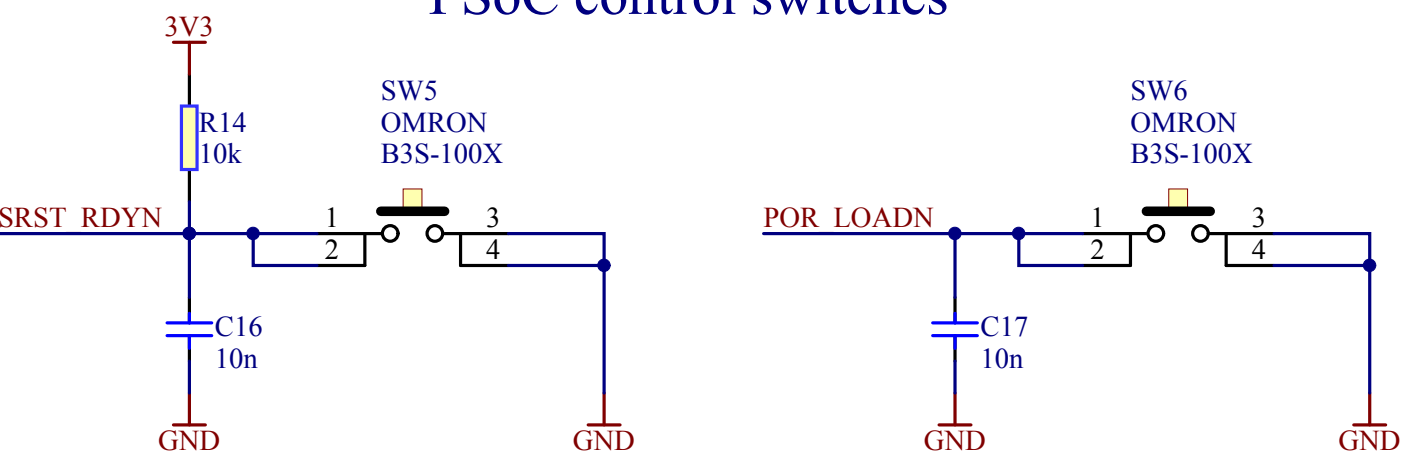
- 4 - U18_P
- 6 - U19_N
- 10 - U14_P
- 12 - U15_N
- 16 - V17_P
- 18 - V18_N
- 22 - U13_P
- 24 - V13_N
- 28 - T11_P
- 30 - T10_N
- 34 - V12_P
- 36 - W13_N
- 44 - W14_P
- 46 - Y14_N
- 48 - P14_P
- 50 - R14_N
- 54 - T14_P
- 56 - T15_N
- 58 - T16_P
- 60 - U17_N
- 64 - P15_P
- 66 - P16_N
- 70 - P18_N
- 74 - V20_P
- 76 - W20_N
- 78 - T20_P
- 80 - U20_N
- 84 - M14_P
- 86 - M15_N
- 90 - L14_P
- 103 - J18_P
- 105 - H18_N
- 109 - J20_P
- 111 - H20_N
- 113 - G19_P
- 115 - G20_N
- 119 - F19_P
- 121 - F20_N
- 123 - D19_P
- 125 - D20_N
- 129 - C20_P
- 131 - B20_N
- 133 - B19_P
- 135 - A20_N
- 139 - W10_P
- 141 - W9_P
- 143 - W11_P
- 145 - Y11_N
- 149 - Y9_P
- 151 - Y8_N
- 153 - T5_P
- 155 - U5_N



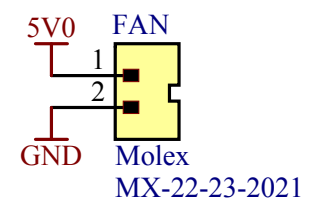
Mars ZX2
FPGA PINOUT

- 102 - H15_P
- 104 - G15_N
- 108 - M17_P
- 110 - M18_N
- 112 - K17_P
- 114 - K18_N
- 118 - K16_P
- 120 - J16_N
- 122 - G17_P
- 124 - G18_P
- 128 - L16_P
- 130 - L17_N
- 132 - F16_P
- 134 - F17_N
- 138 - E18_P
- 140 - E19_N
- 142 - E17_P
- 144 - D18_N
- 148 - U7_P
- 150 - V7_N
- 152 - T9_P
- 154 - U10_N

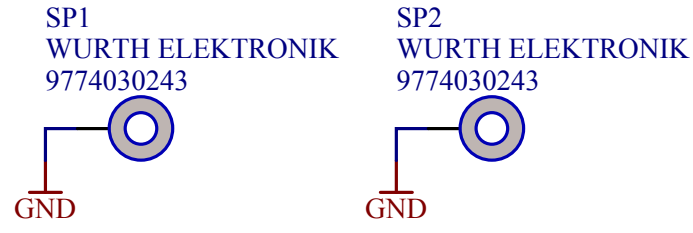
PSoC control switches



Fan connector



Mars mounting studs

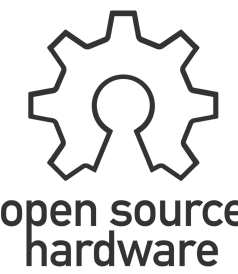
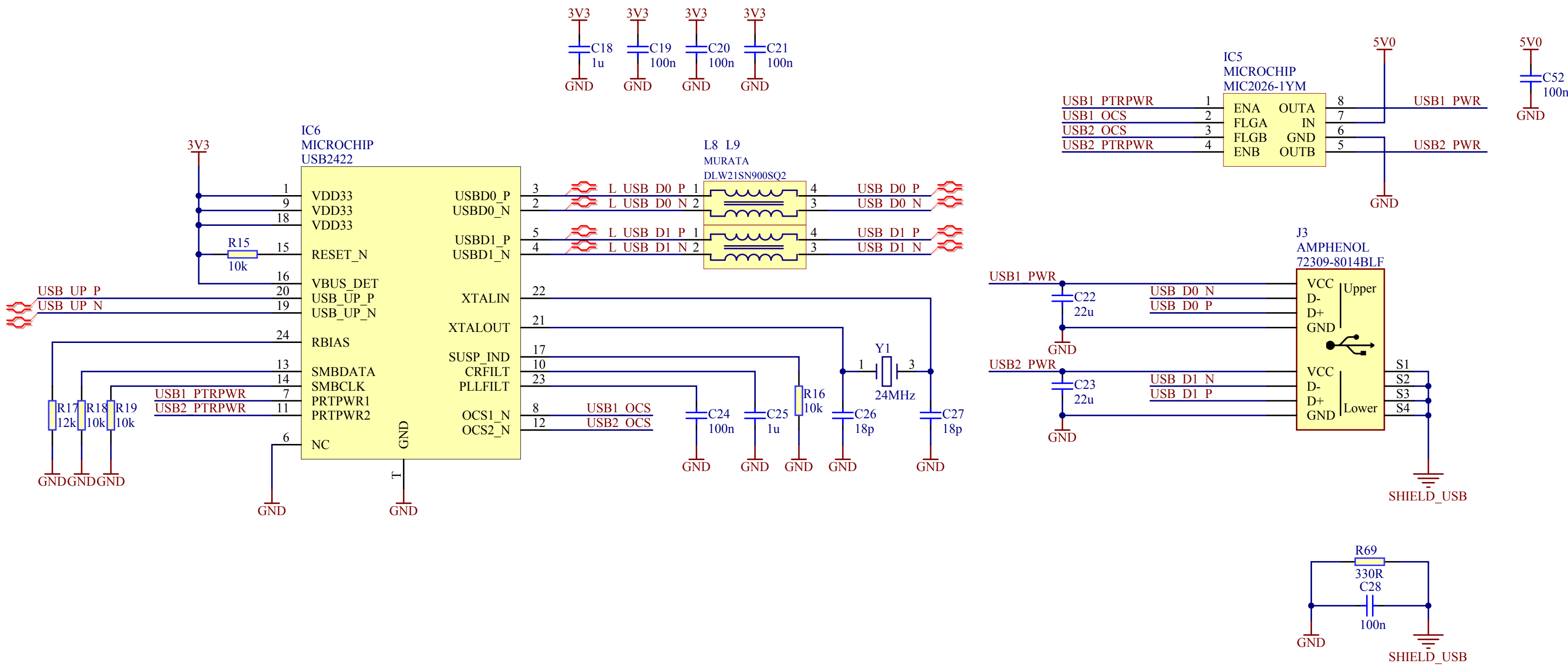


Module VOUT
VOUT_1V35 - Max current 0.3A
VOUT_1V0 - Max current 0.3A
VOUT_1V8 - Max current 0.7A (and 0.3A per pin)

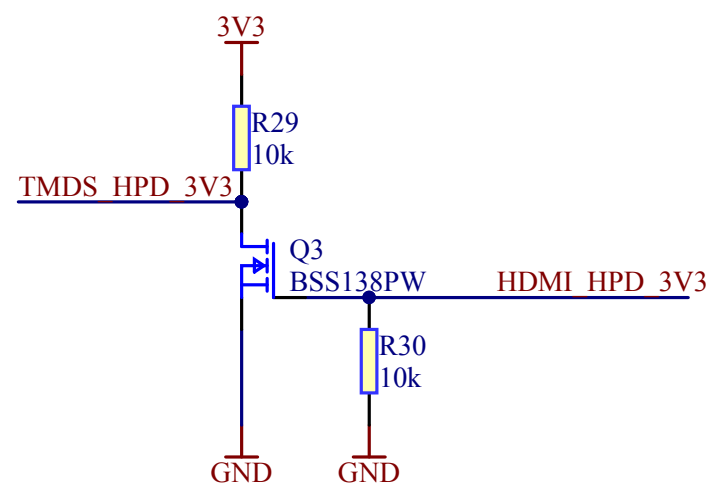
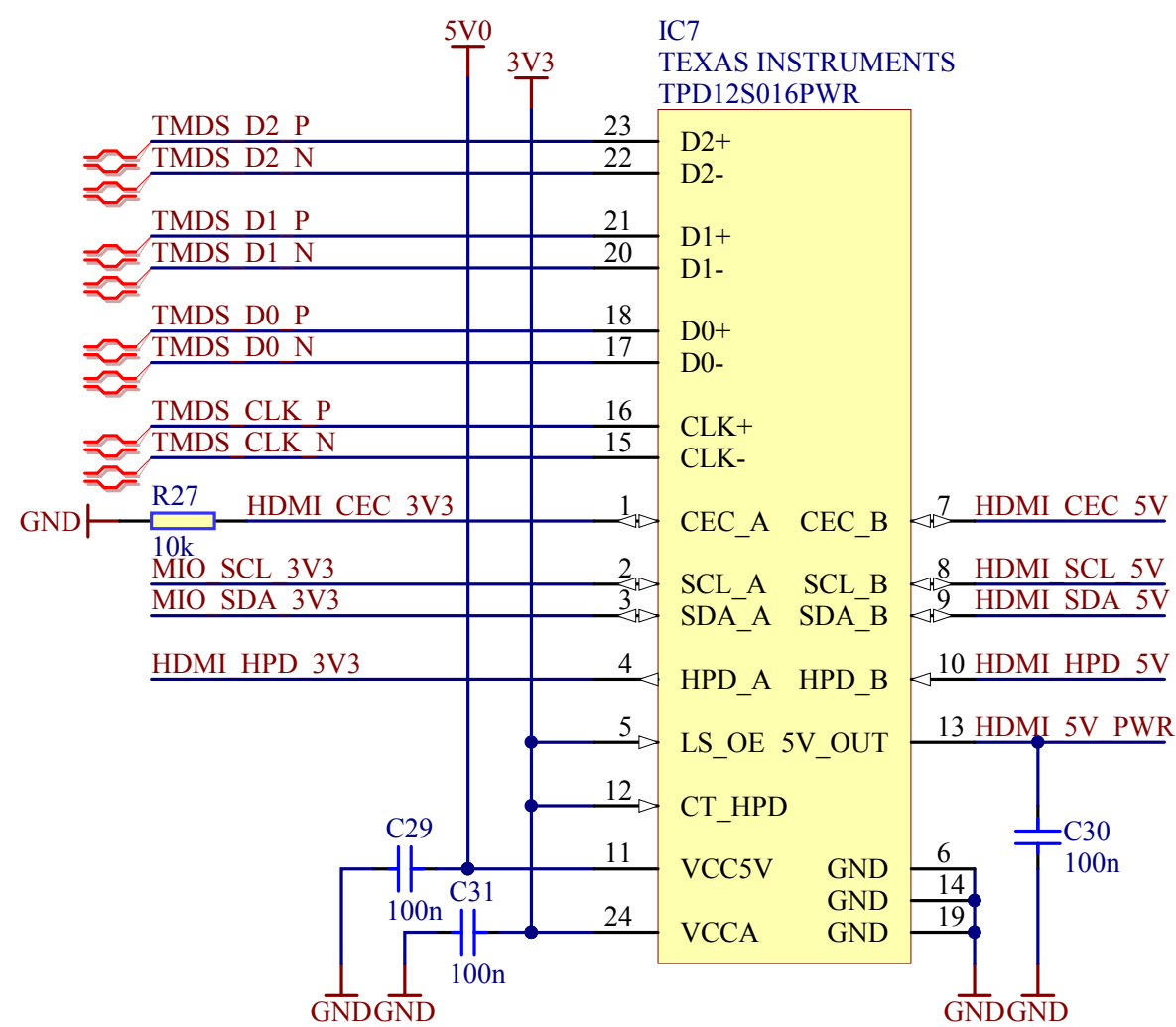
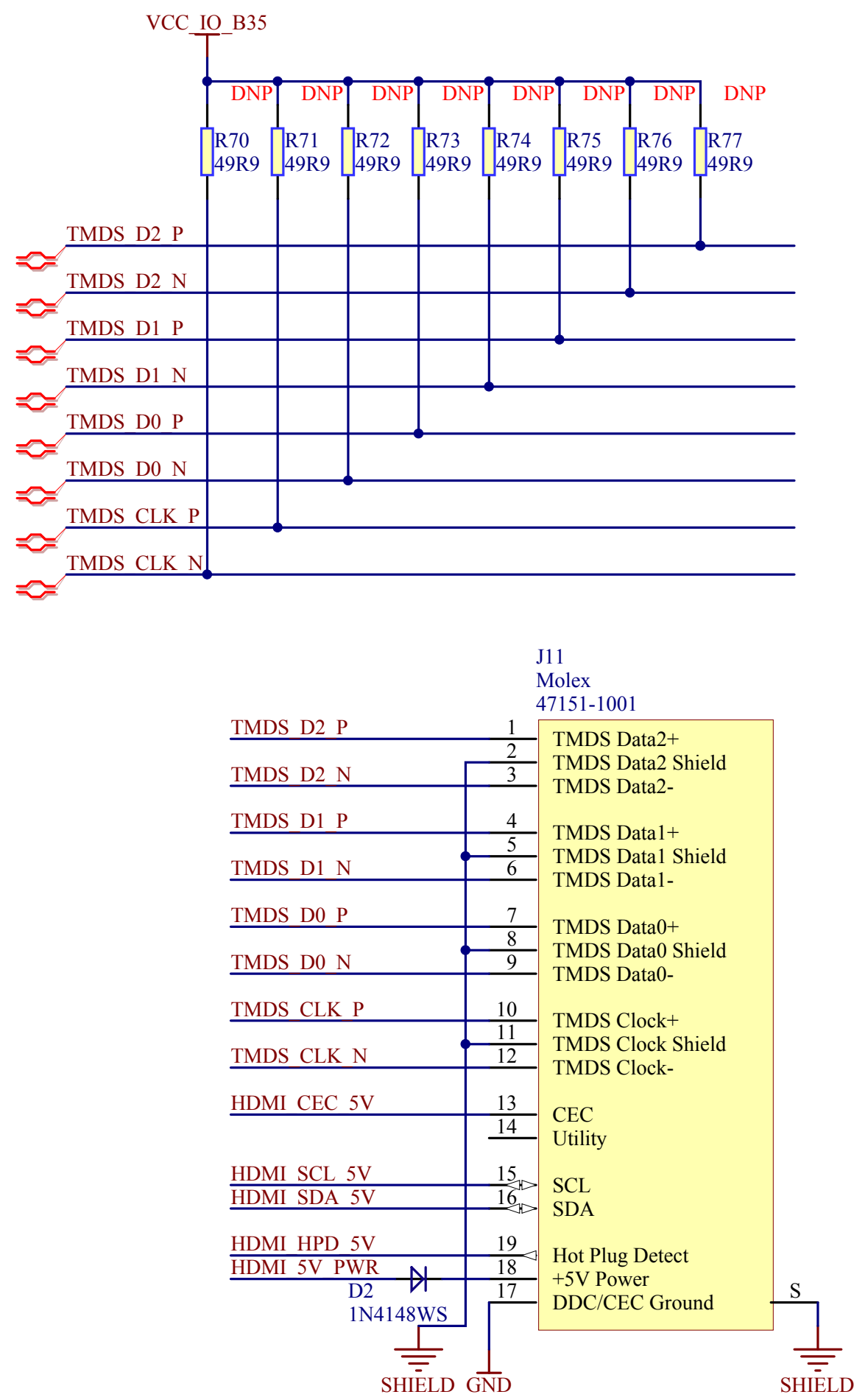


Title: Zynq Video Board		 Antmicro Ltd. www.antmicro.com
Size: A3	Page: 3 of 9	
Date: 2/22/2019	Revision: 1.2	
File: [3] SO-DIMM.SchDoc		

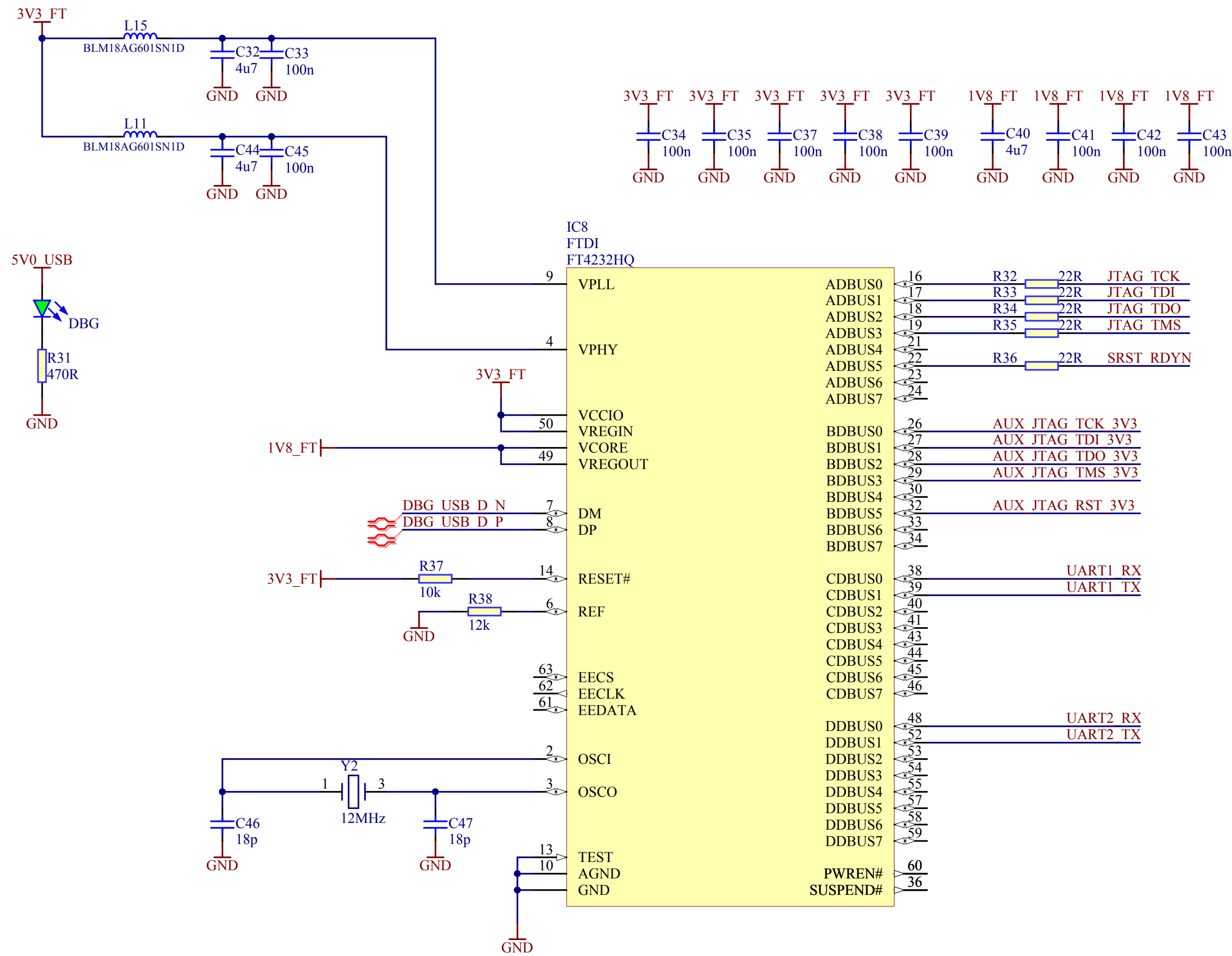
USB 2.0 HUB



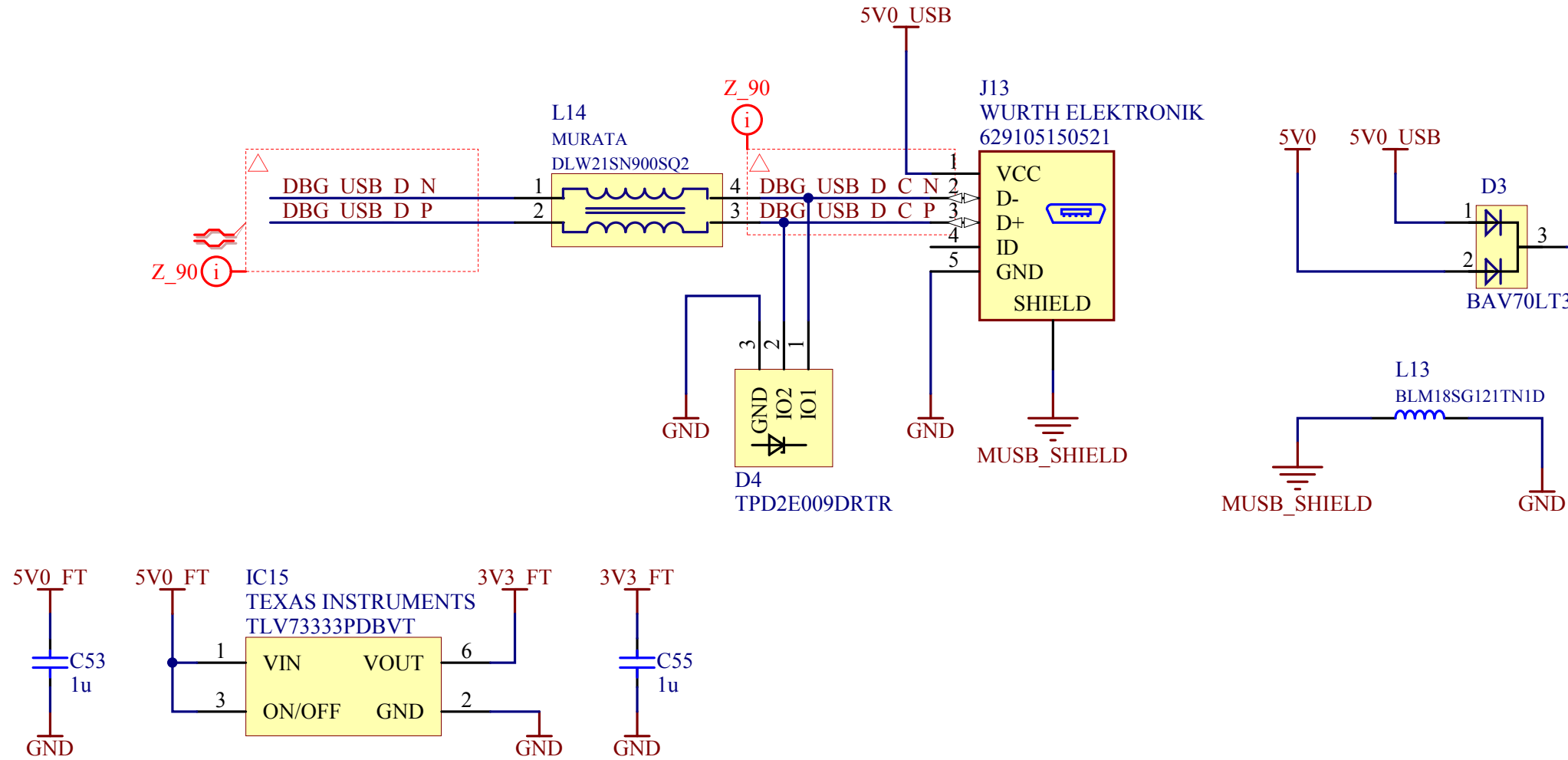
HDMI interface



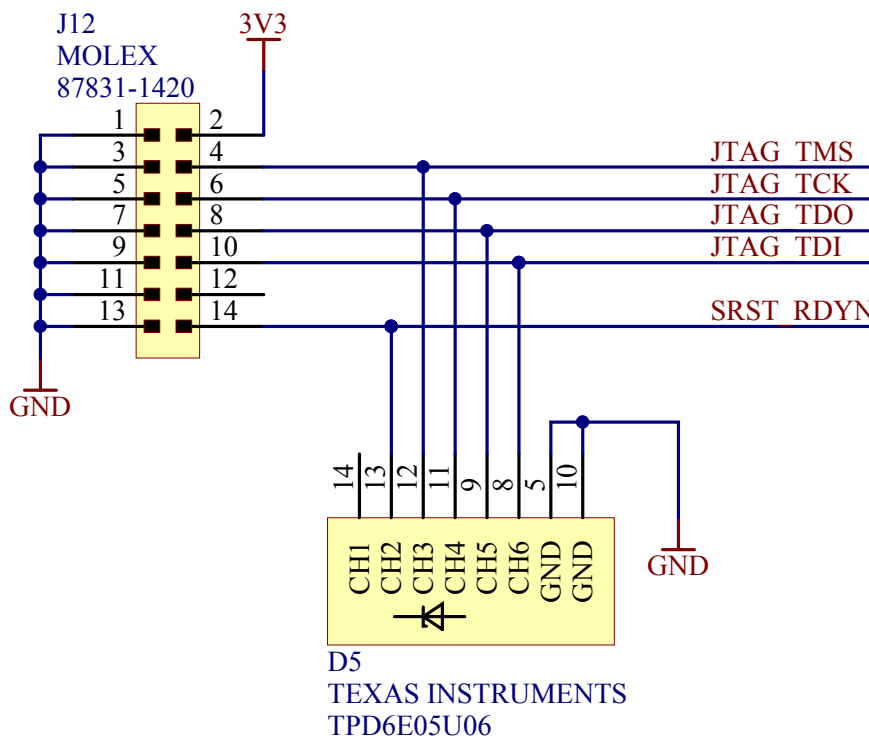
UART and JTAG to USB



Debug USB connector



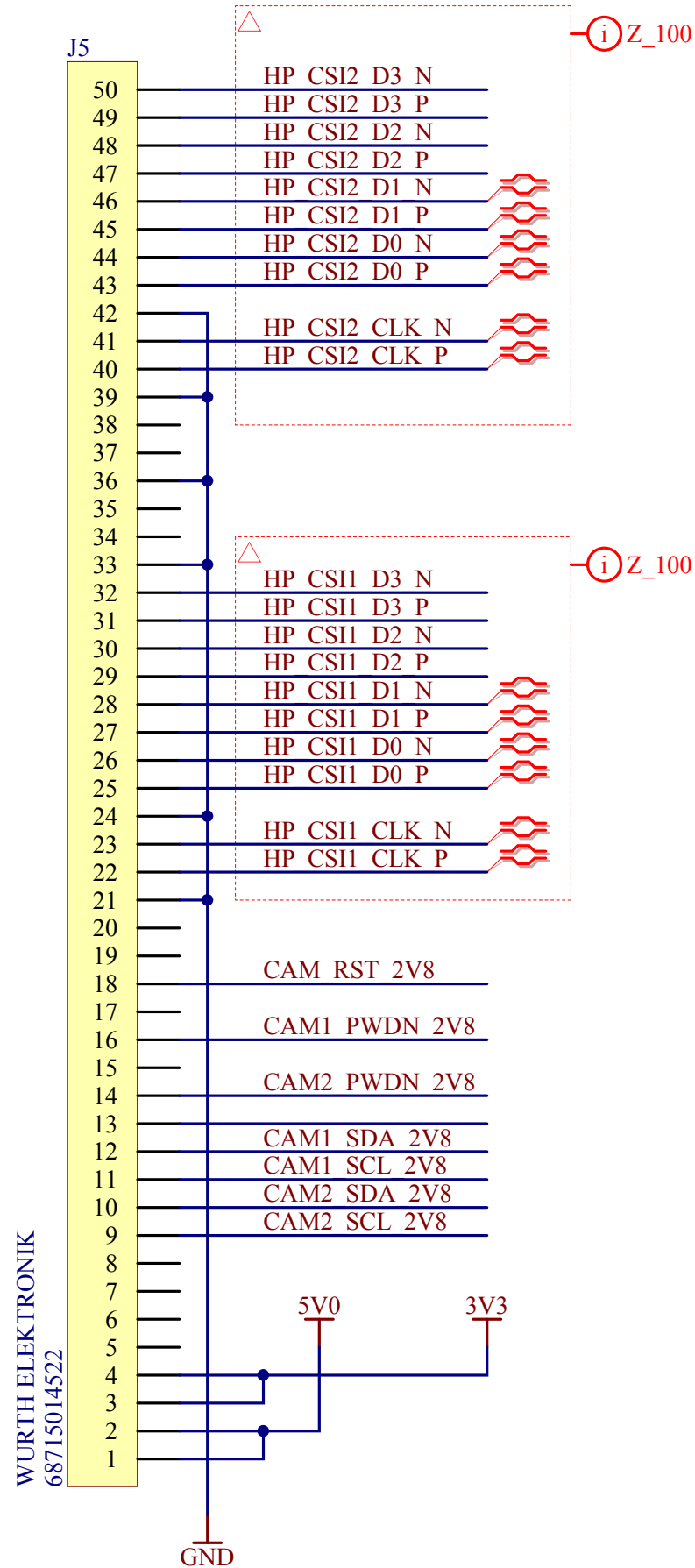
Zynq JTAG



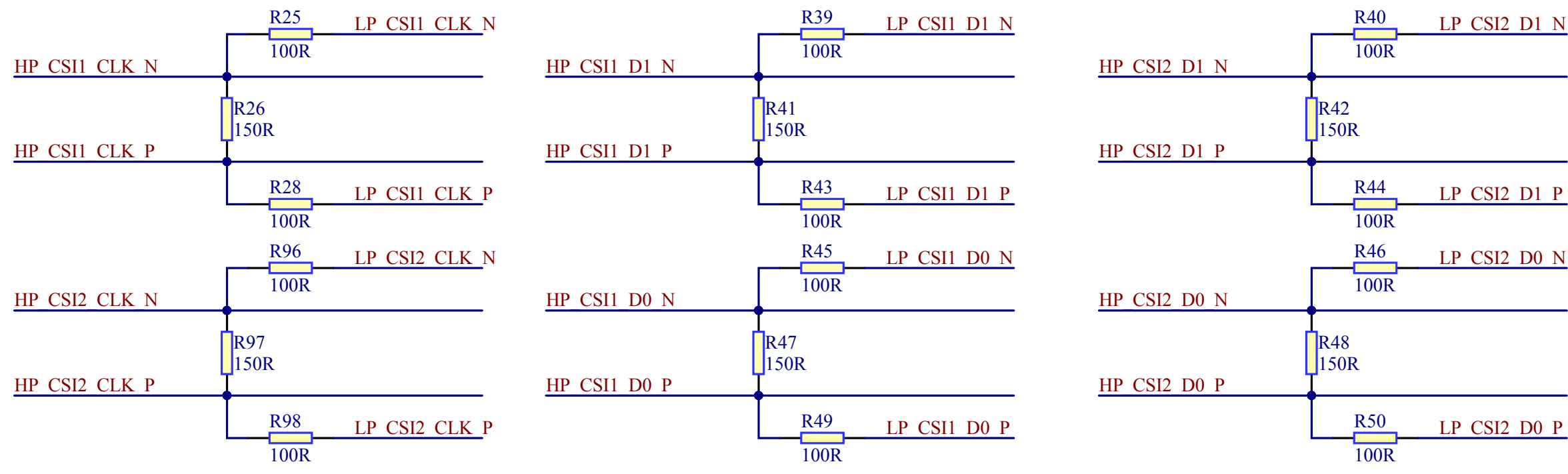
Auxiliary JTAG level translator



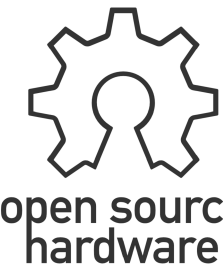
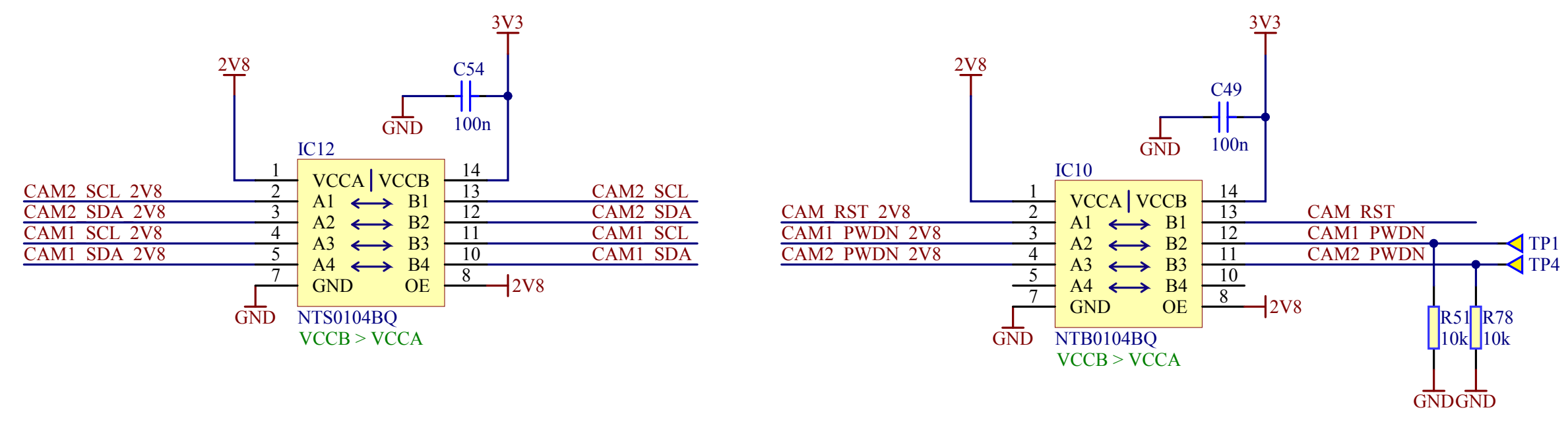
MIPI CSI camera connector



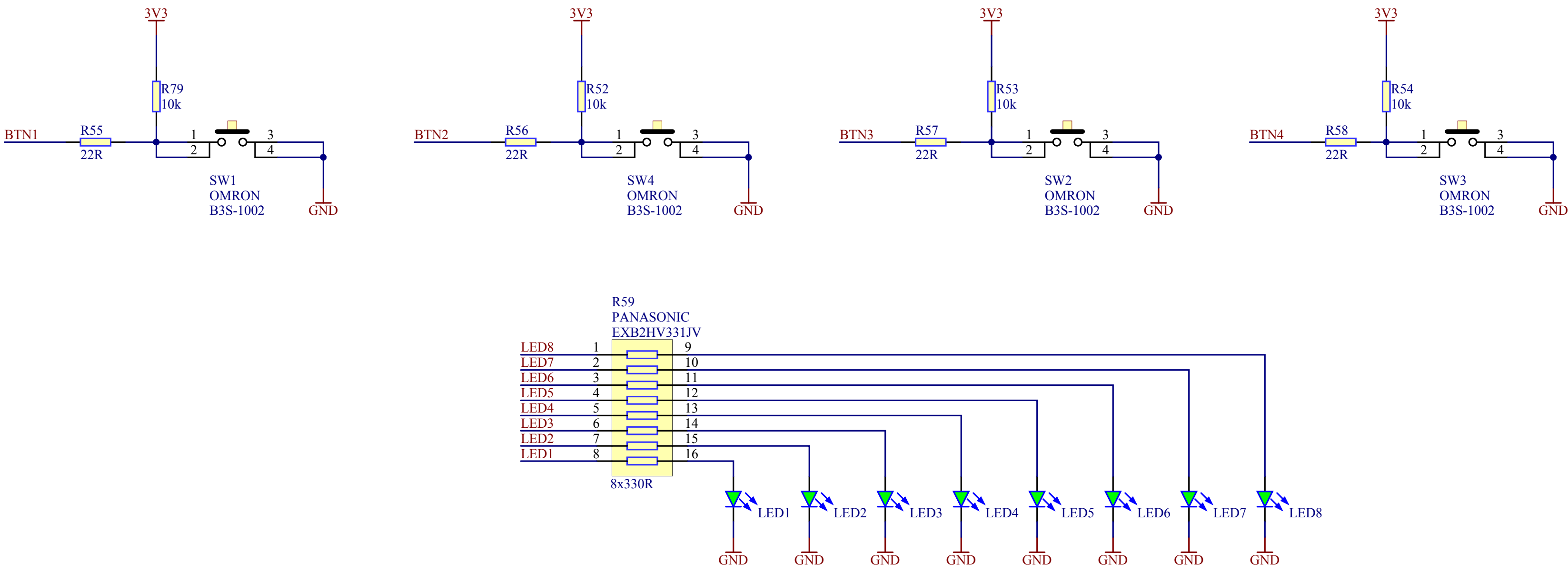
FPGA compatible D-PHY receiver



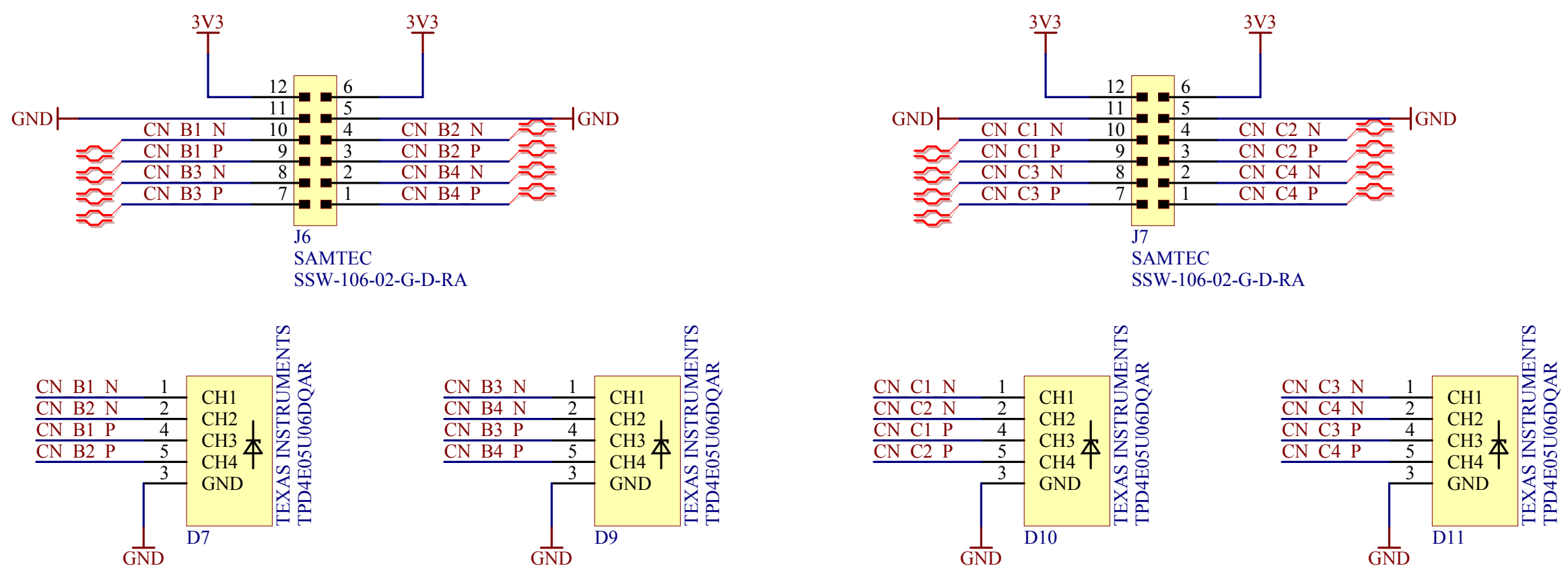
Voltage level translators



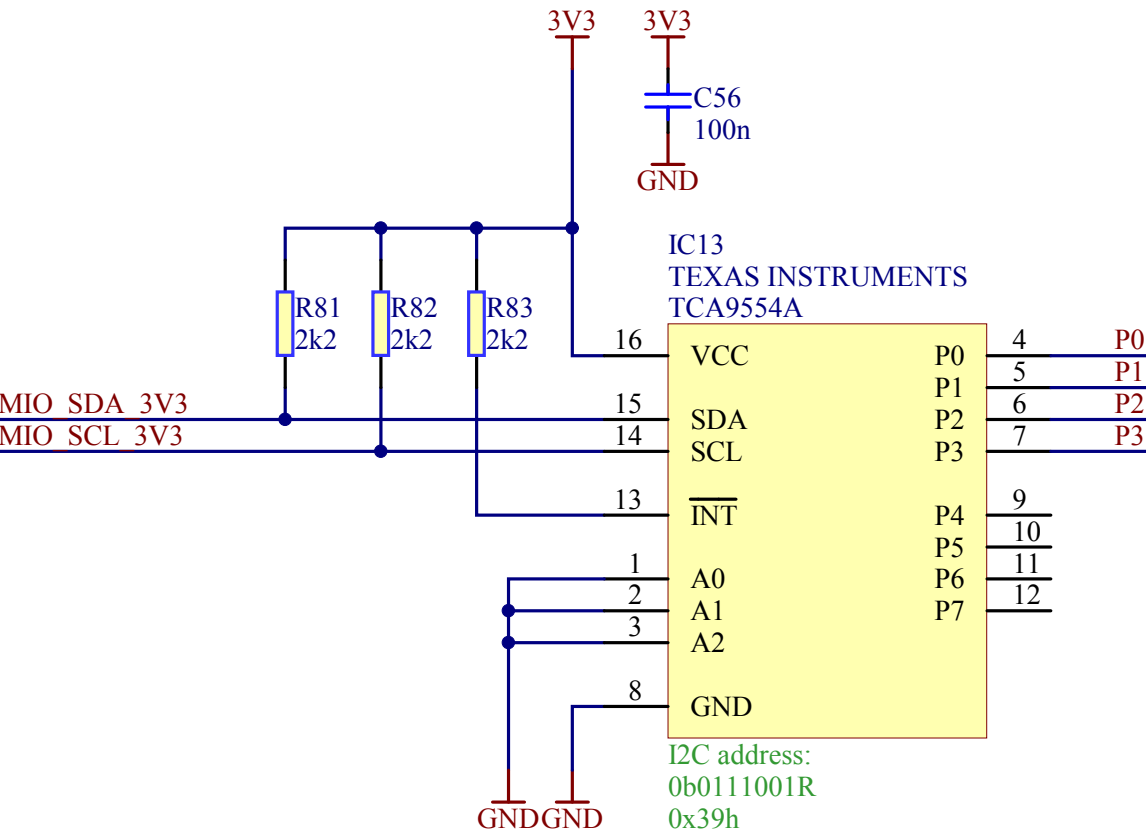
GPIO/LED



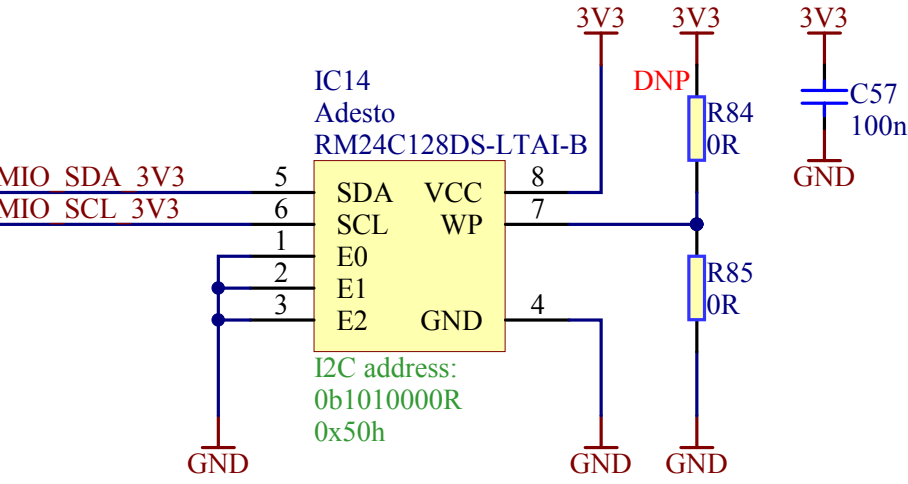
Pmod interfaces



GPIO expander



Unique ID with OTP



Serial number coding

