

NOTES:

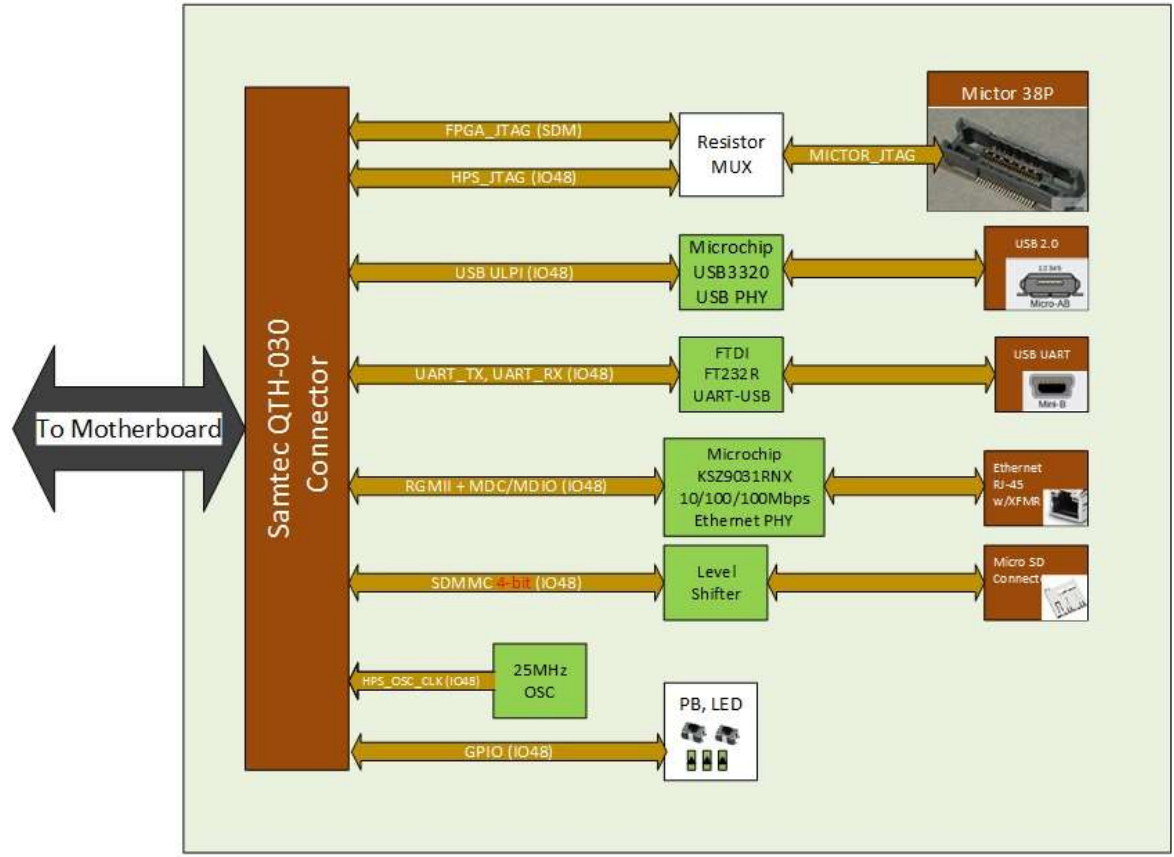
- 1. Project Drawing Numbers:
- Raw PCB 100-0330632-A1
- Gerber Files 110-0330632-A1
- PCB Design Files 120-0330632-A1
- Assembly Drawing 130-0330632-A1
- Fab Drawing 140-0330632-A1
- Schematic Drawing 150-0330632-A1
- PCB Film 160-0330632-A1
- Bill of Materials 170-0330632-A1
- Schematic Design Files 180-0330632-A1
- Functional Specification 210-0330632-A1
- PCB Layout Guidelines 220-0330632-A1
- Assembly Rework 320-0330632-A1

Pre-Release Schematic

DO NOT COPY

2. This board was designed for Stratix 10 SoC Development Kit.

REV	DATE	PAGE	DESCRIPTION
A			initial schematic release

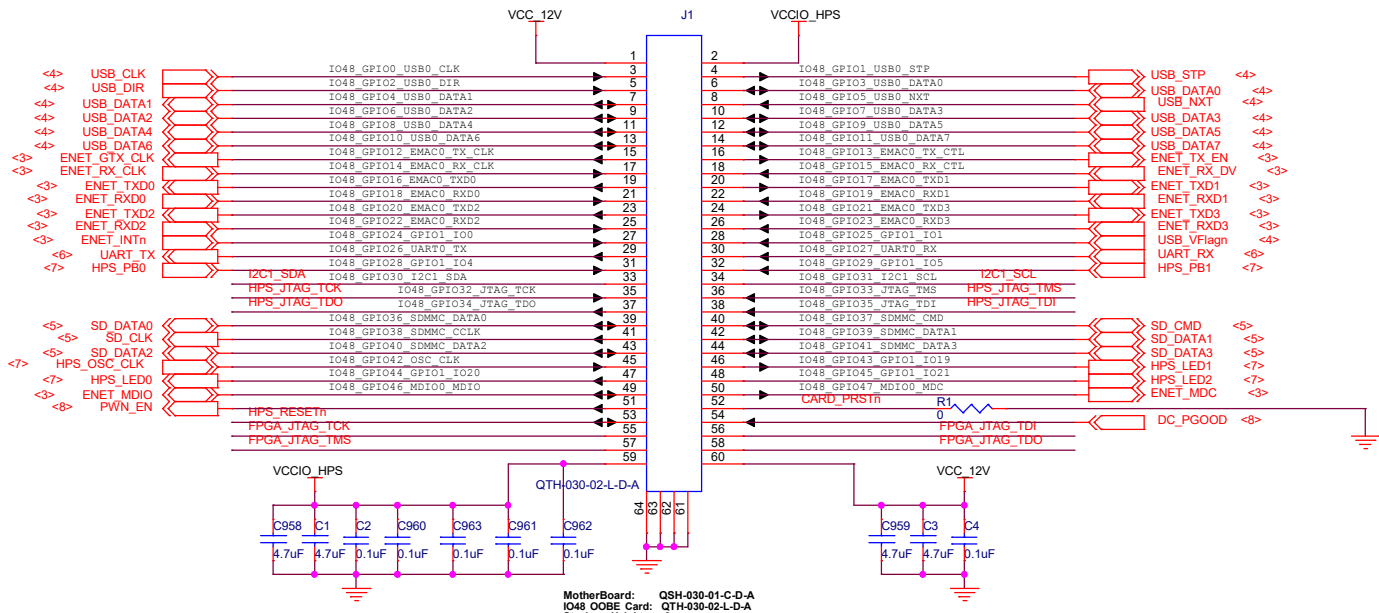


PAGE	DESCRIPTION
1	Title
2	IO48 Connector
3	RGMII Ethernet
4	USB2.0 OTG
5	Micro SD Card
6	USB2UART
7	Mictor, PBs, LEDs
8	Power

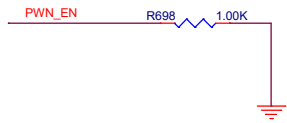
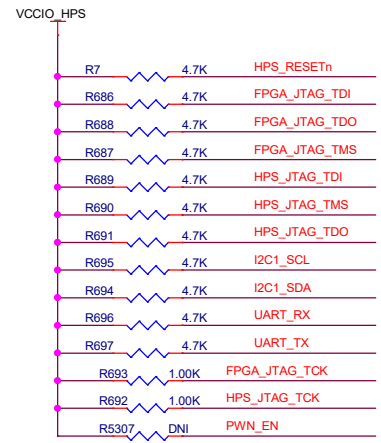
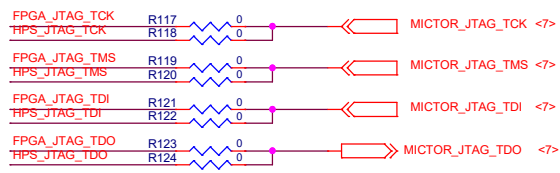
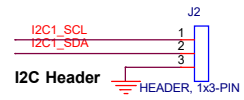
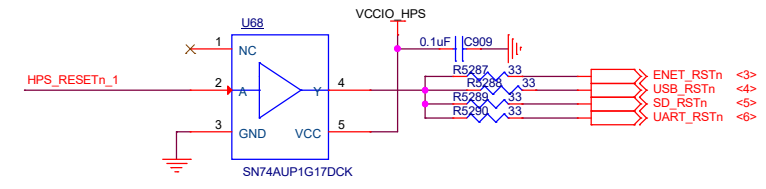


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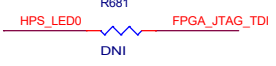
PAGE	DESCRIPTION
1	Page Description, revision history



MotherBoard: QSH-030-01-C-D-A
 IO48 OOB E Card: QTH-030-02-L-D-A
 Stack-up Height: 8mm



Used in S10 Check out board



Reset FPGA logic externally by HPS



Update external watchdog for HP

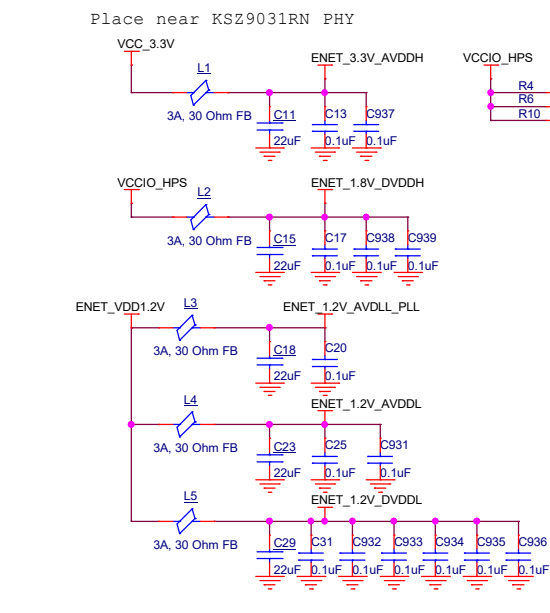
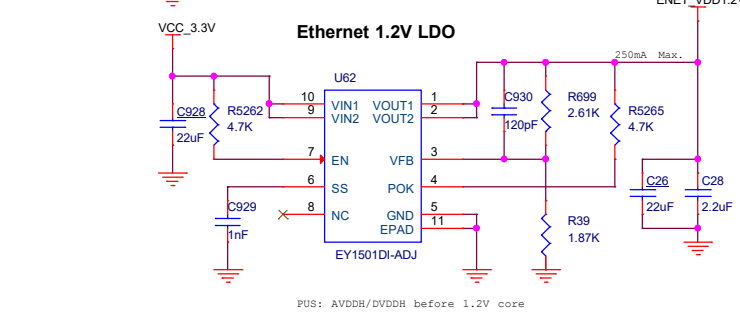
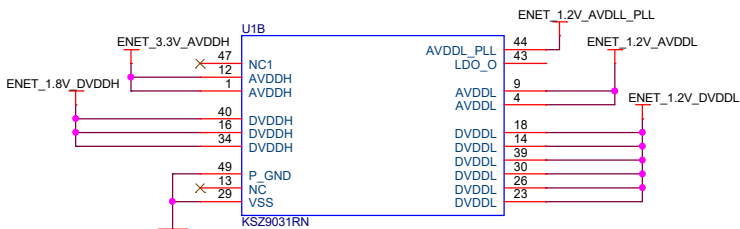
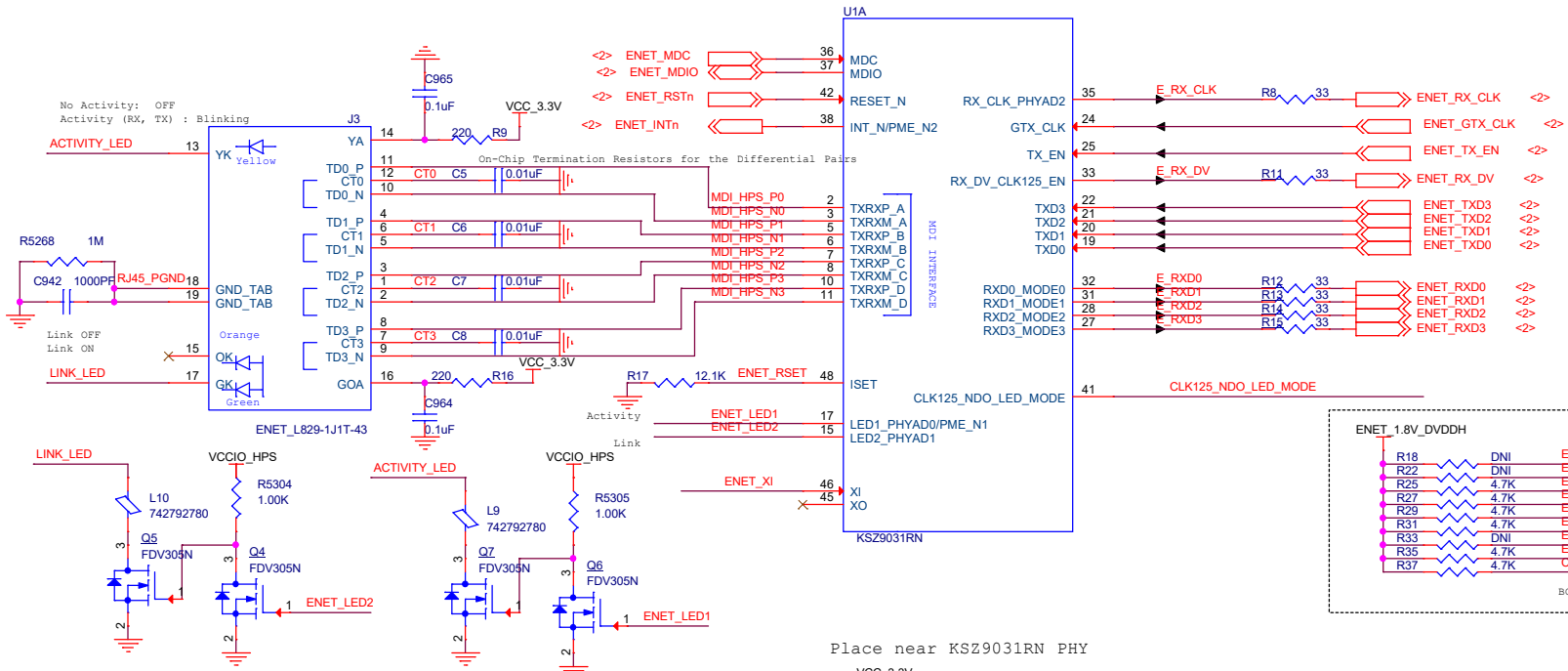


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10/100/1000 Ethernet - HPS

Ethernet Interface

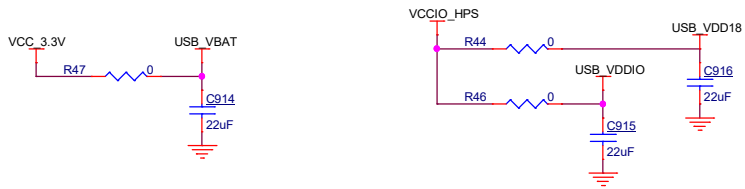
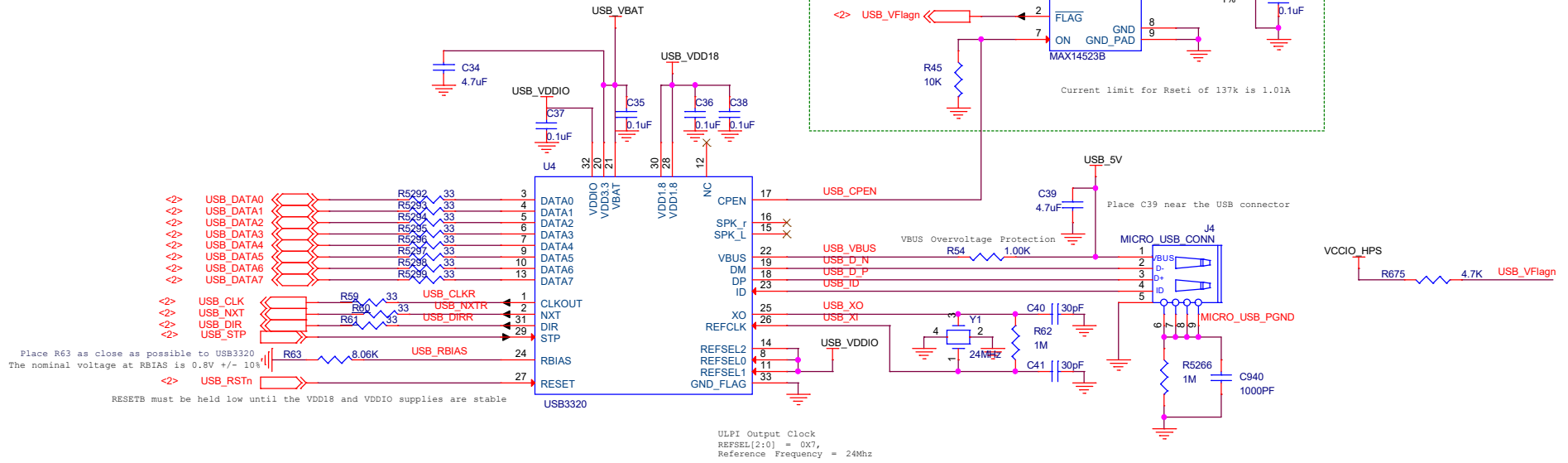
NAME	Pin	Value	Description
PHYAD2	35	1	ID = b"100"
PHYAD1	15	0	
PHYAD0	17	0	
MODE3	27	1	RGMII (10/100/1000 half-/full-duplex)
MODE2	28	1	
MODE1	31	1	
MODE0	32	1	
CLK125_EN	33	0	No clockoutput from pin41
LED_MODE	41	1	single led mode



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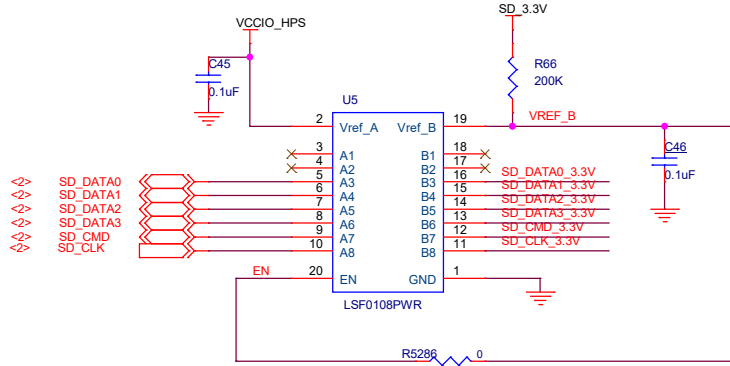
USB 2.0 OTG Port

USB Current Limit

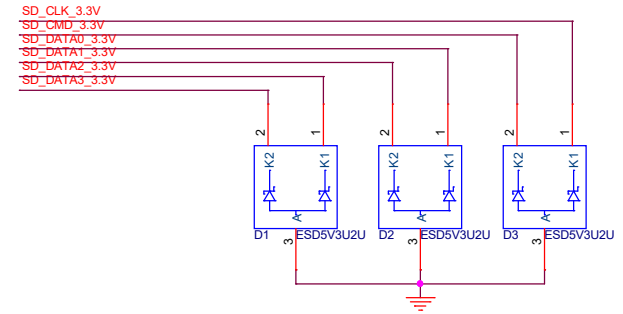
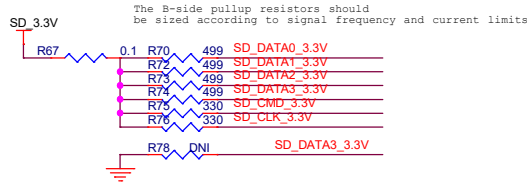
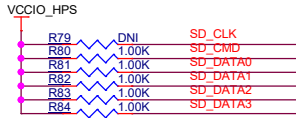
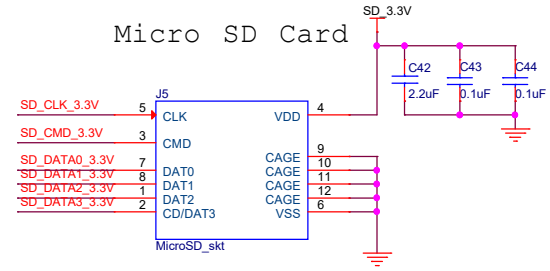


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MicroSD Card



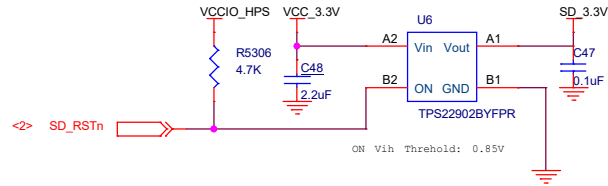
Micro SD Card



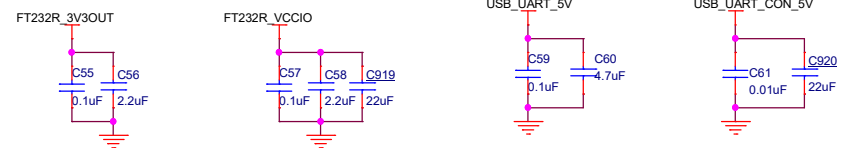
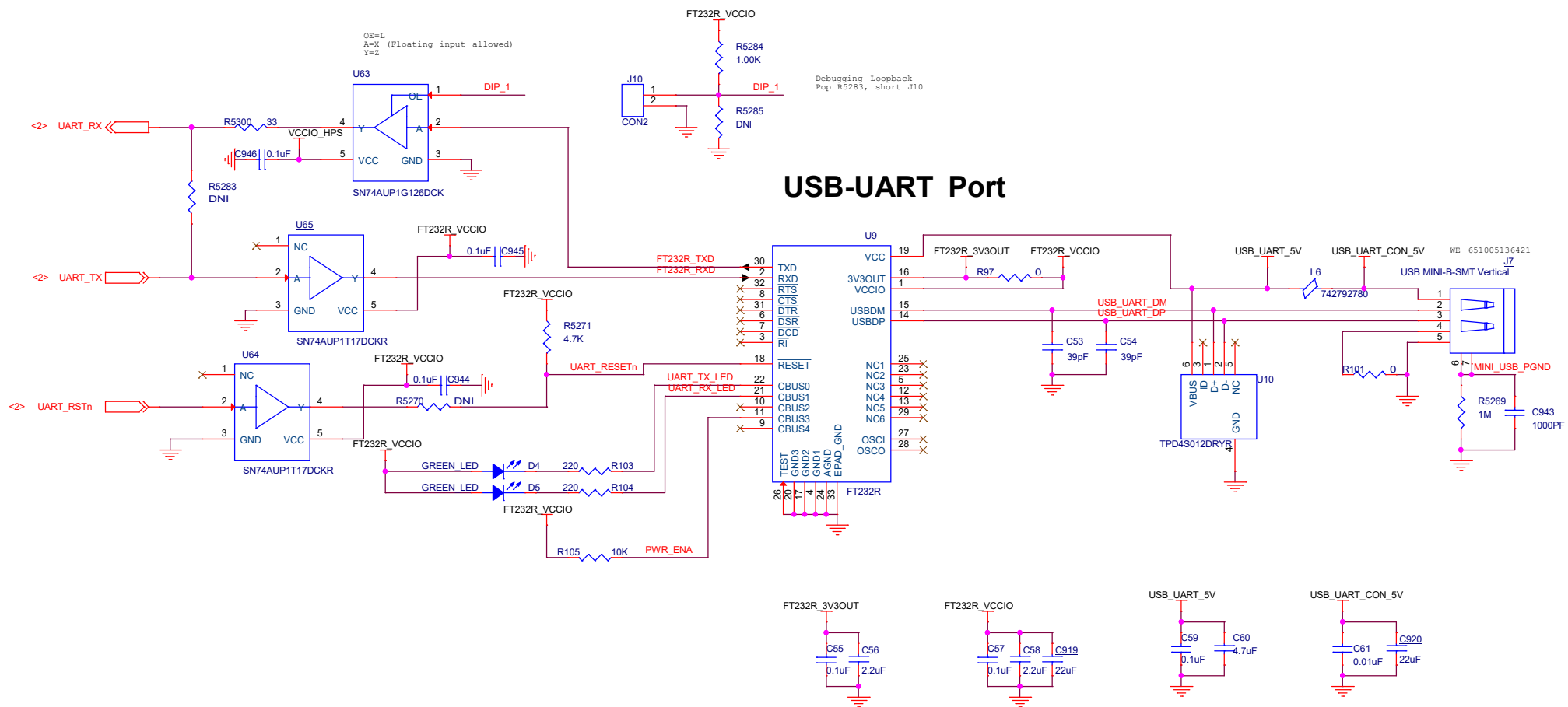
IEC61000-4-2 (ESD): ± 20 kV (air / contact)

IEC61000-4-4 (EFT): ±50 A (5/50 ns)

IEC61000-4-5 (surge): ±3 A (8/20 µs)

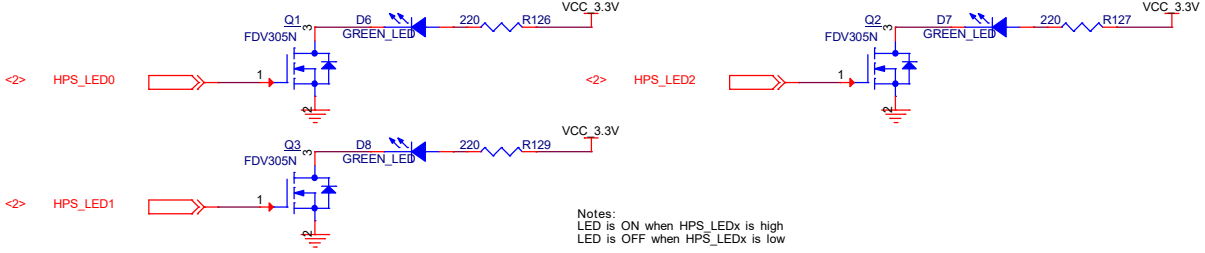
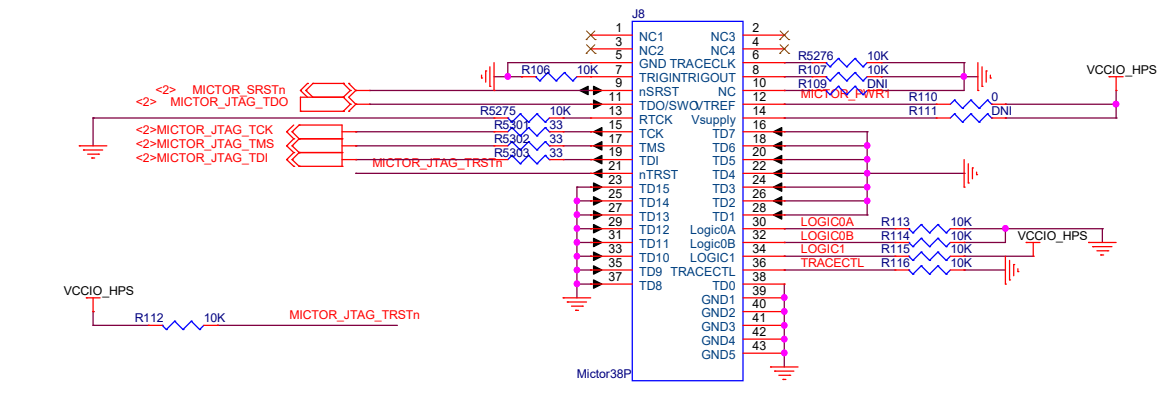
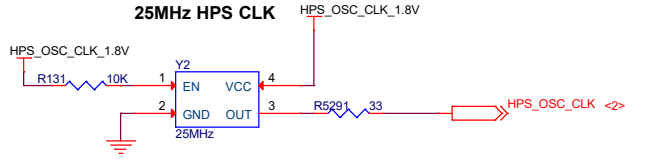
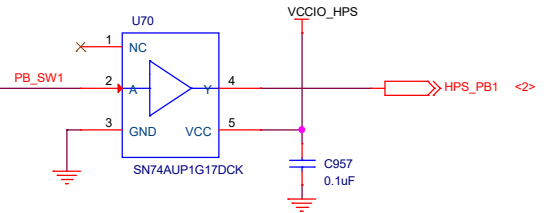
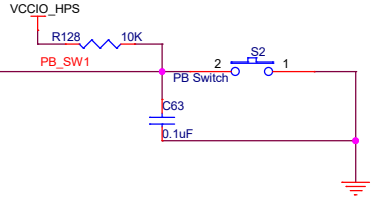
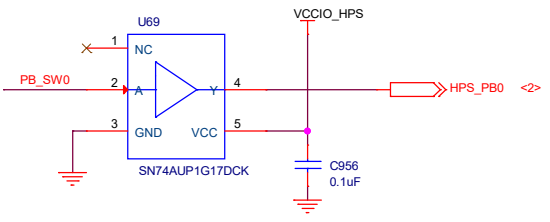
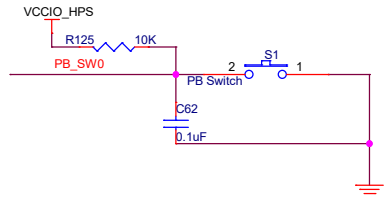


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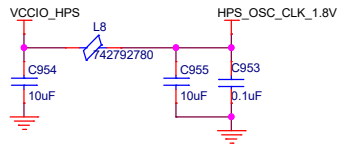


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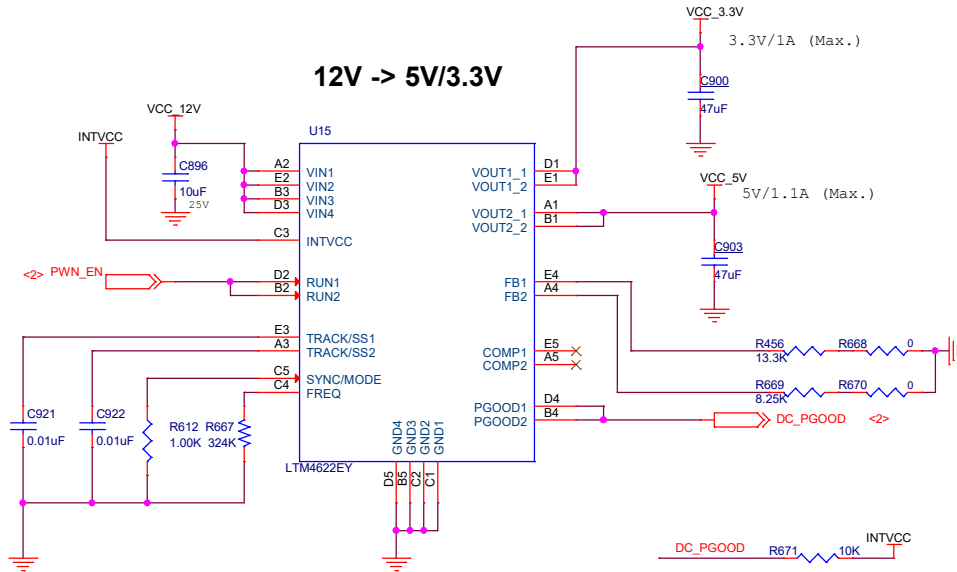
Mictor, LED, PushButton, CLK



Notes:
LED is ON when HPS_LEDx is high
LED is OFF when HPS_LEDx is low



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