# PE100 Block Diagram

| REV | DATE | PAGES | DESCRIPTION |
|---|---|---|---|
| 1.0 | 8/30/2018 | All | Rev 1.0 Release |
| 1.1 | 11/30/2018 | All | Rev 1.1 Release |

| PAGE | DESCRIPTION |
|---|---|
| 1 | Title, Notes, Block Diagram, Revision History |
| 2 | B2B Connector: JM1, JM2 |
| 3 | B2B Connector: JM3, JTAG |
| 4 | USB-UART, SD |
| 5 | USB Host(Only For ZYNQ) |
| 6 | ETH0, KEY, LED |
| 7 | ETH1 |
| 8 | HDMI TX |
| 9 | PCIe, GTP Clock |
| 10 | M.2 Connector |
| 11 | SFP |
| 12 | GPIO Connector |
| 13 | Power |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |
| 25 | |
| 26 | |
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| 28 | |
| 29 | |

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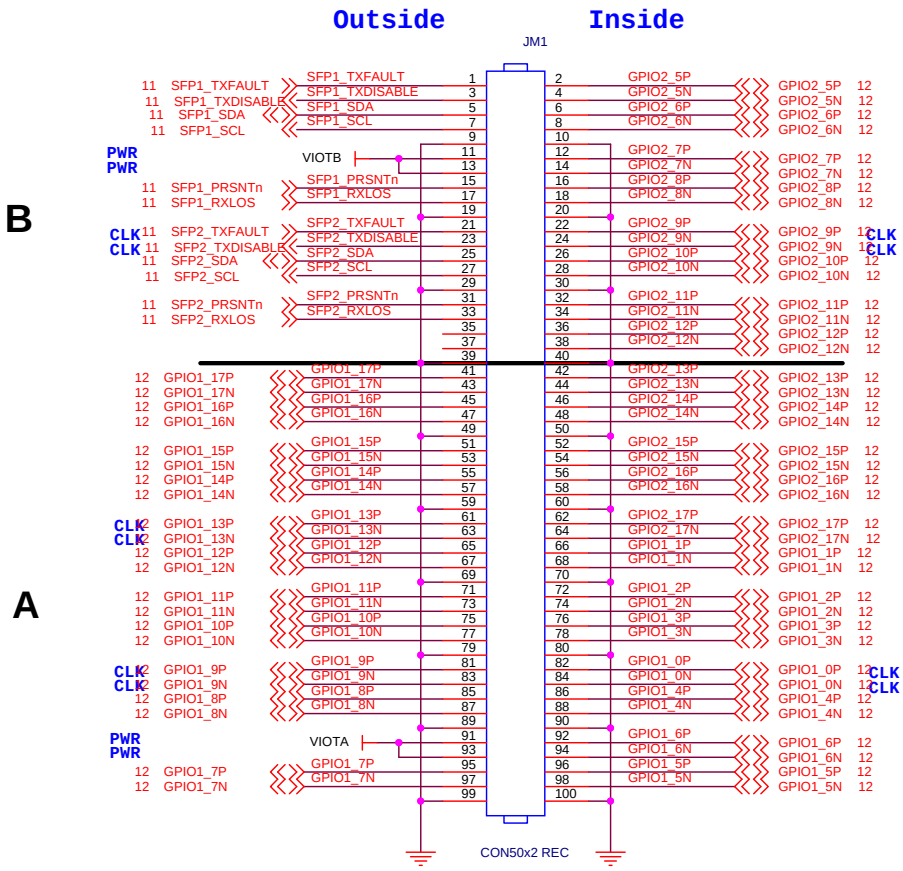
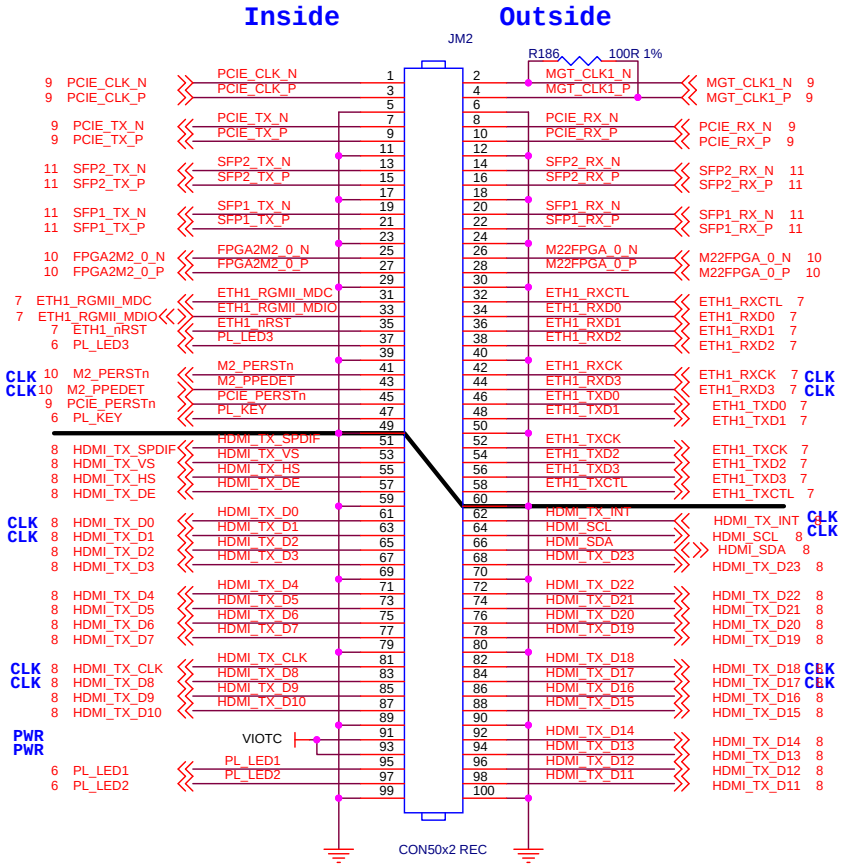
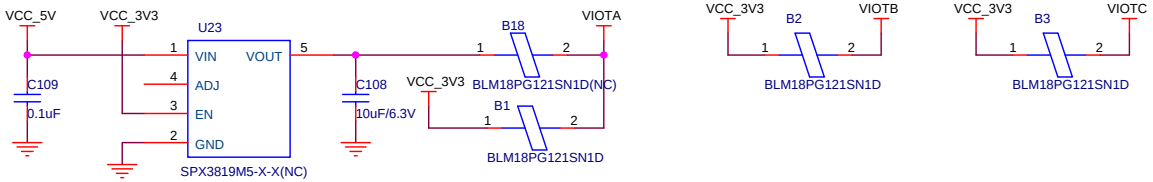
Title: Block Diagram

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 1 of 13

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|---|---|---|
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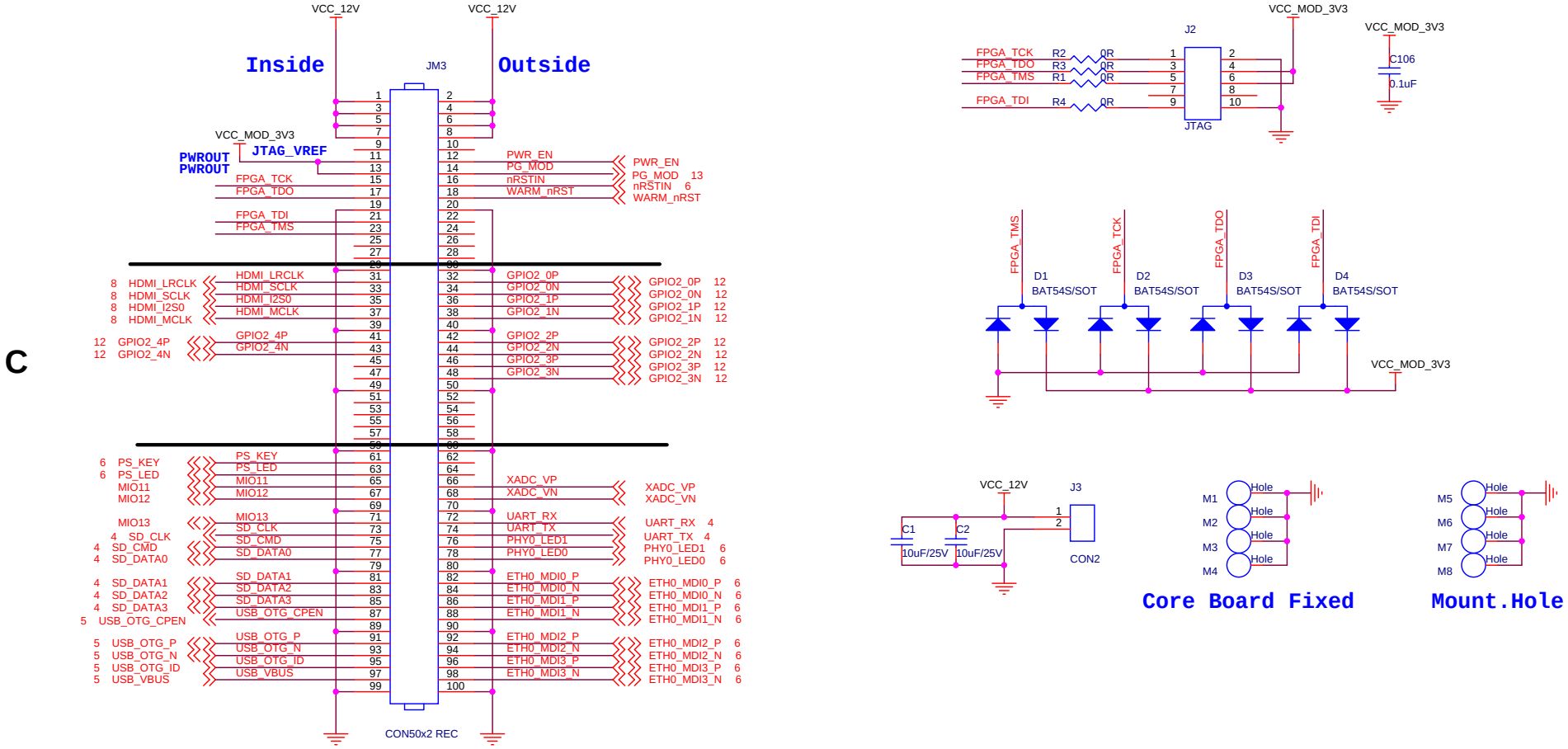
| Title: B2B Connector: JM1, JM2 | | |
| Size | Document Number: PE100 Schematic | Rev: 1.1 |
| Date: Wednesday, October 09, 2019 | Sheet 2 of 13 | |

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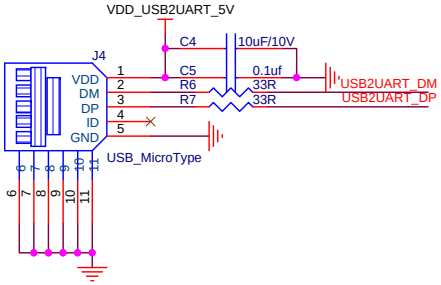
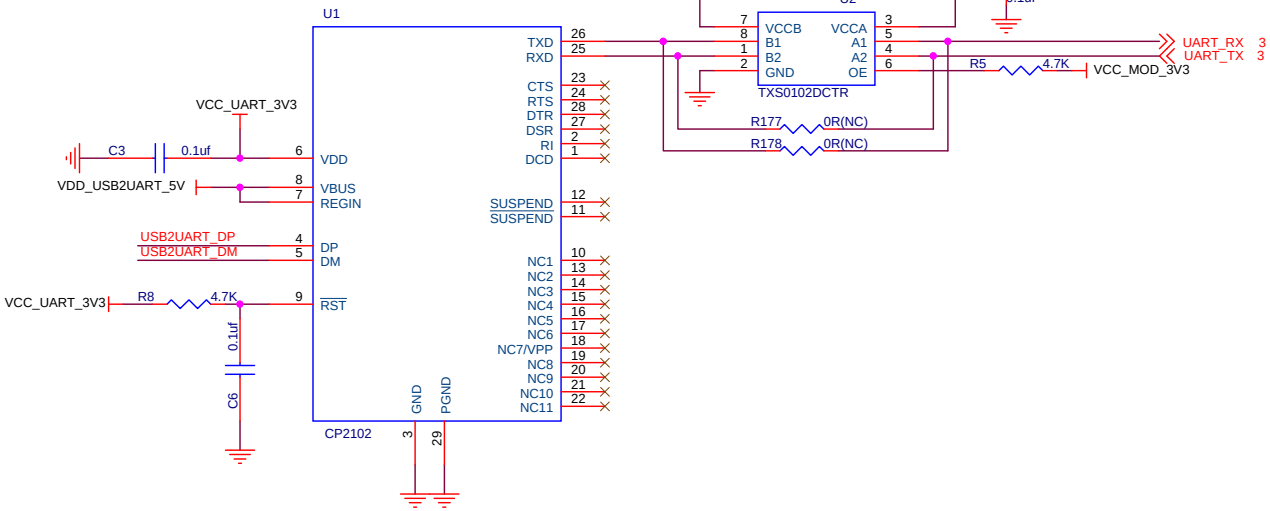
Title: B2B Connector: JM3, JTAG

Size | Document Number: PE100 Schematic | Rev: 1.1

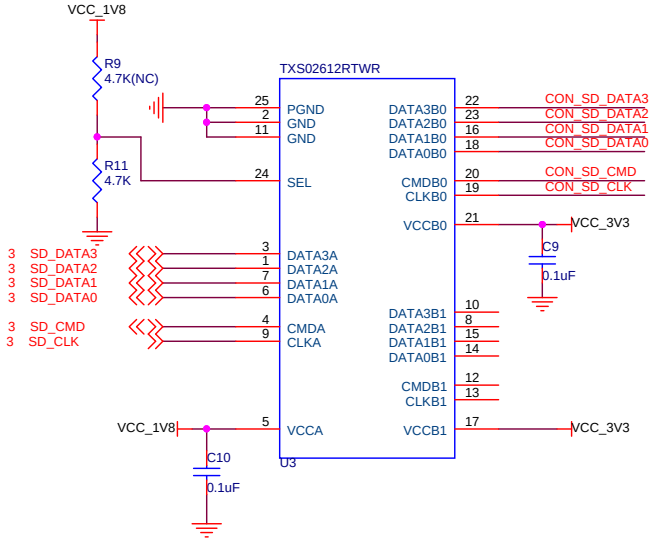
Date: Wednesday, October 30, 2019 | Sheet 3 of 13

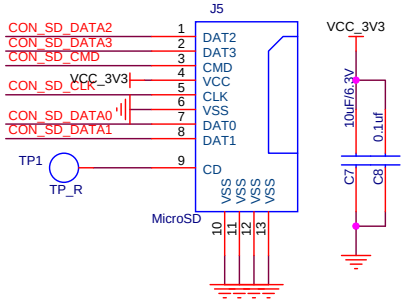
# USB2UART




# SD CARD



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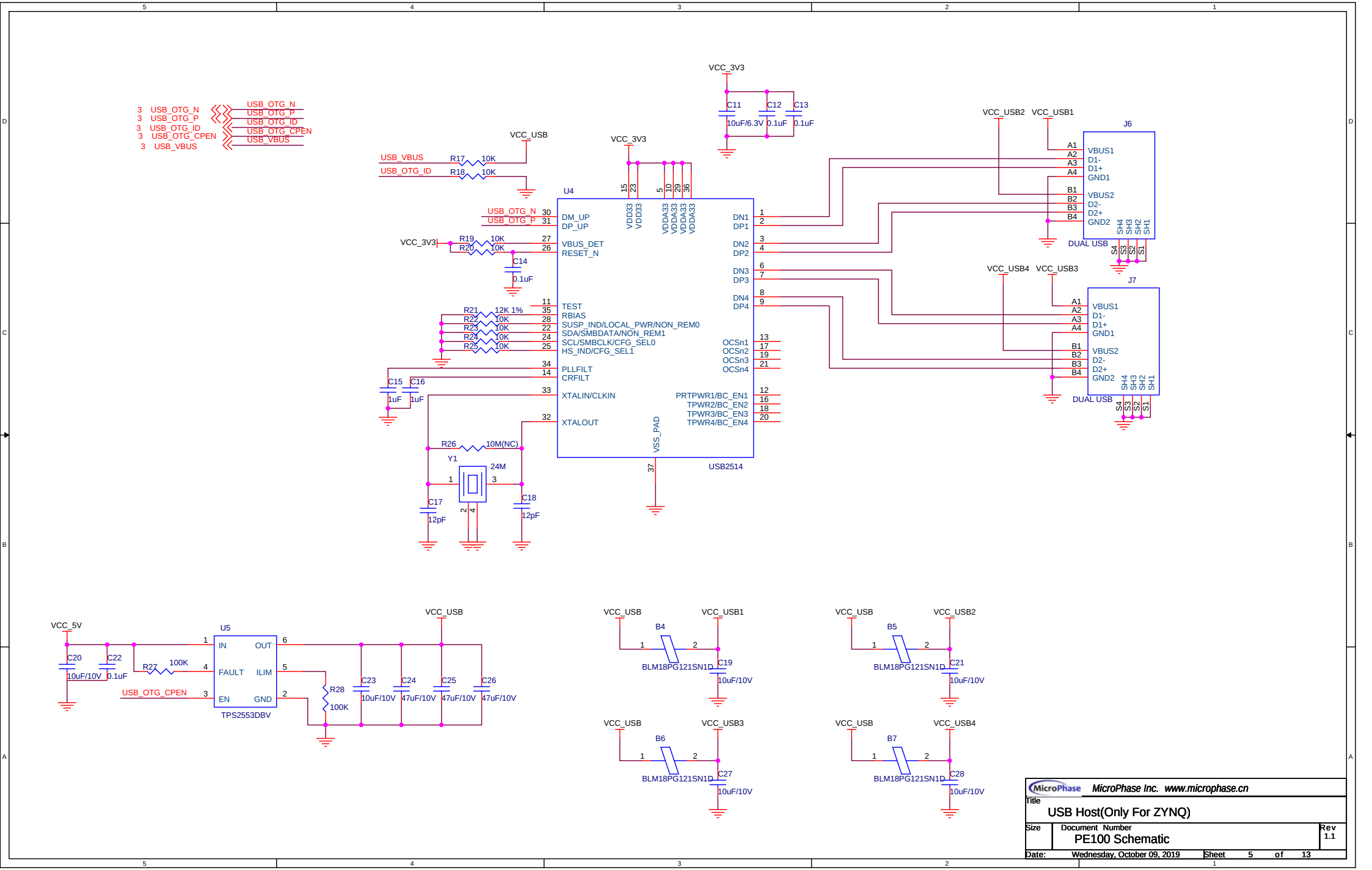
Title: USB-UART, SD

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 4 of 13


3 USB_OTG_N
3 USB_OTG_P
3 USB_OTG_ID
3 USB_OTG_CPEN
3 USB_VBUS
USB_OTG_N
USB_OTG_P
USB_OTG_ID
USB_OTG_CPEN
USB_VBUS
VCC_3V3
C11 10uF/6.3V
C12 0.1uF
C13 0.1uF
VCC_USB
USB_VBUS
USB_OTG_ID
R17 10K
R18 10K
U4
VCC_3V3
VDD33 15
VDD33 23
VDDA33 5
VDDA33 10
VDDA33 29
VDDA33 36
USB_OTG_N 30
USB_OTG_P 31
DM_UP
DP_UP
VCC_3V3
R19 10K
R20 10K
VBUS_DET 27
RESET_N 26
C14 0.1uF
R21 12K 1%
R22 10K
R23 10K
R24 10K
R25 10K
TEST 11
RBIAS 35
SUSP_IND/LOCAL_PWR/NON_REM0 28
SDA/SMBDATA/NON_REM1 22
SCL/SMBCLK/CFG_SEL0 24
HS_IND/CFG_SEL1 25
C15 1uF
C16 1uF
PLLFILT 34
CRFILT 14
XTALIN/CLKIN 33
XTALOUT 32
R26 10M(NC)
Y1 24M
C17 12pF
C18 12pF
VSS_PAD 37
USB2514
DN1 1
DP1 2
DN2 3
DP2 4
DN3 6
DP3 7
DN4 8
DP4 9
OCSn1 13
OCSn2 17
OCSn3 19
OCSn4 21
PRTPWR1/BC_EN1 12
TPWR2/BC_EN2 16
TPWR3/BC_EN3 18
TPWR4/BC_EN4 20
VCC_USB2
VCC_USB1
J6
A1 VBUS1
A2 D1-
A3 D1+
A4 GND1
B1 VBUS2
B2 D2-
B3 D2+
B4 GND2
SH4 SH3 SH2 SH1
DUAL USB
S4 S3 S2 S1
VCC_USB4
VCC_USB3
J7
A1 VBUS1
A2 D1-
A3 D1+
A4 GND1
B1 VBUS2
B2 D2-
B3 D2+
B4 GND2
SH4 SH3 SH2 SH1
DUAL USB
S4 S3 S2 S1
VCC_5V
U5
IN 1
OUT 6
FAULT 4
ILIM 5
EN 3
GND 2
TPS2553DBV
C20 10uF/10V
C22 0.1uF
R27 100K
USB_OTG_CPEN
R28 100K
VCC_USB
C23 10uF/10V
C24 47uF/10V
C25 47uF/10V
C26 47uF/10V
VCC_USB
VCC_USB1
B4
BLM18PG121SN1D
C19 10uF/10V
VCC_USB
VCC_USB2
B5
BLM18PG121SN1D
C21 10uF/10V
VCC_USB
VCC_USB3
B6
BLM18PG121SN1D
C27 10uF/10V
VCC_USB
VCC_USB4
B7
BLM18PG121SN1D
C28 10uF/10V
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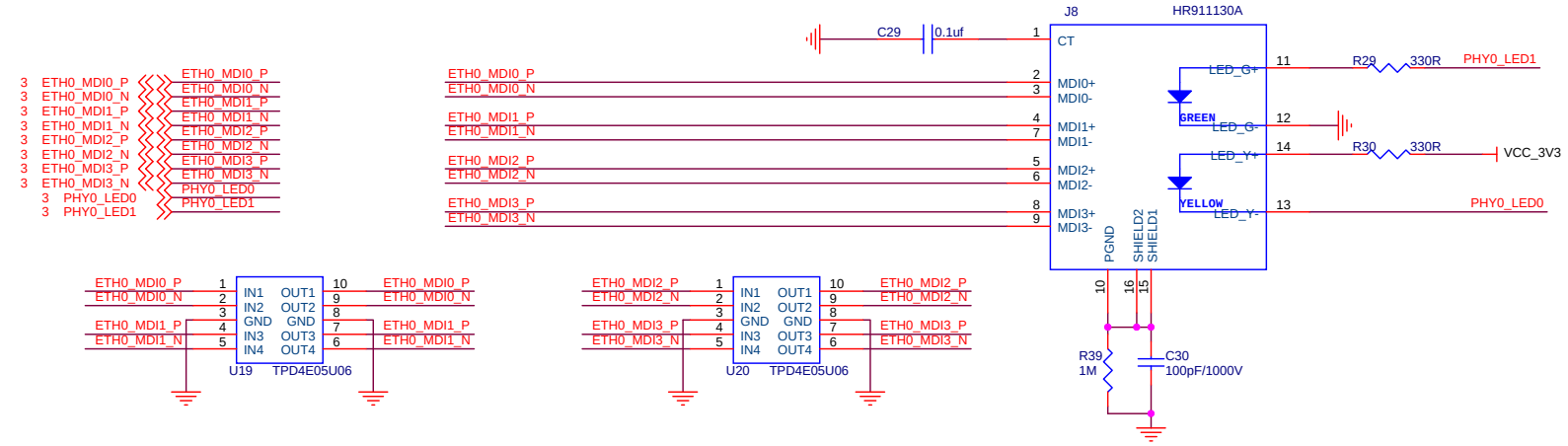
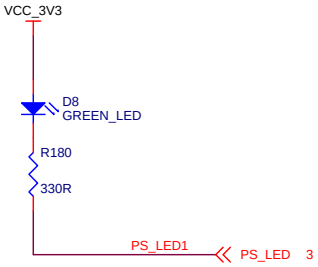
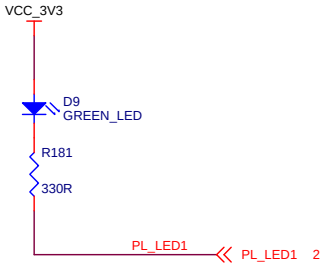
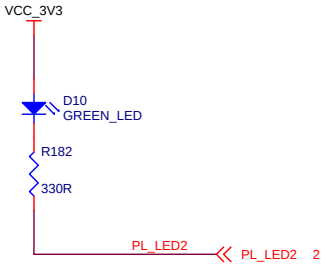
Title
USB Host(Only For ZYNQ)
Size
Document Number
PE100 Schematic
Rev 1.1
Date: Wednesday, October 09, 2019
Sheet 5 of 13

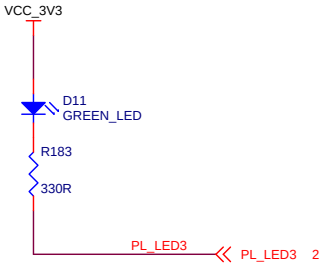
# RJ45

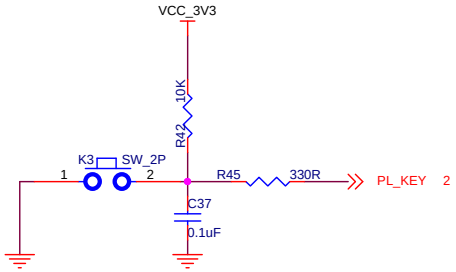


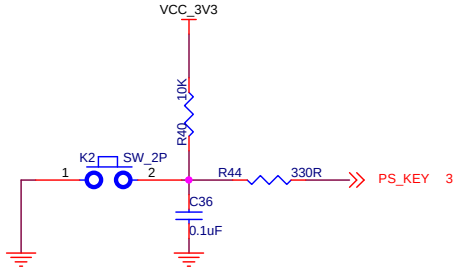



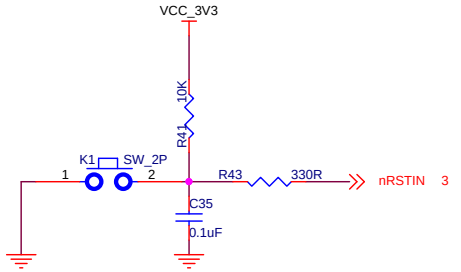

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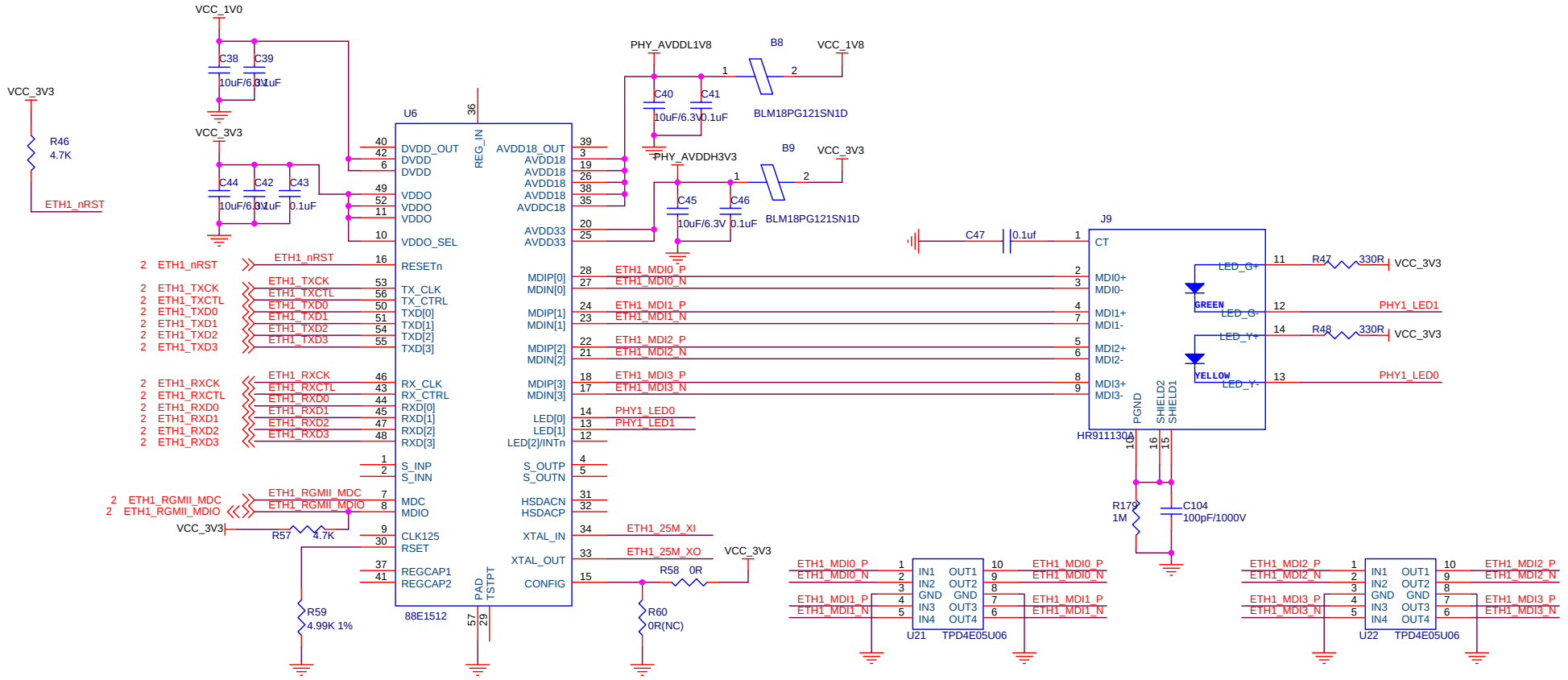
Title: ETH0, KEY, LED

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 6 of 13




PHY Address is 00001

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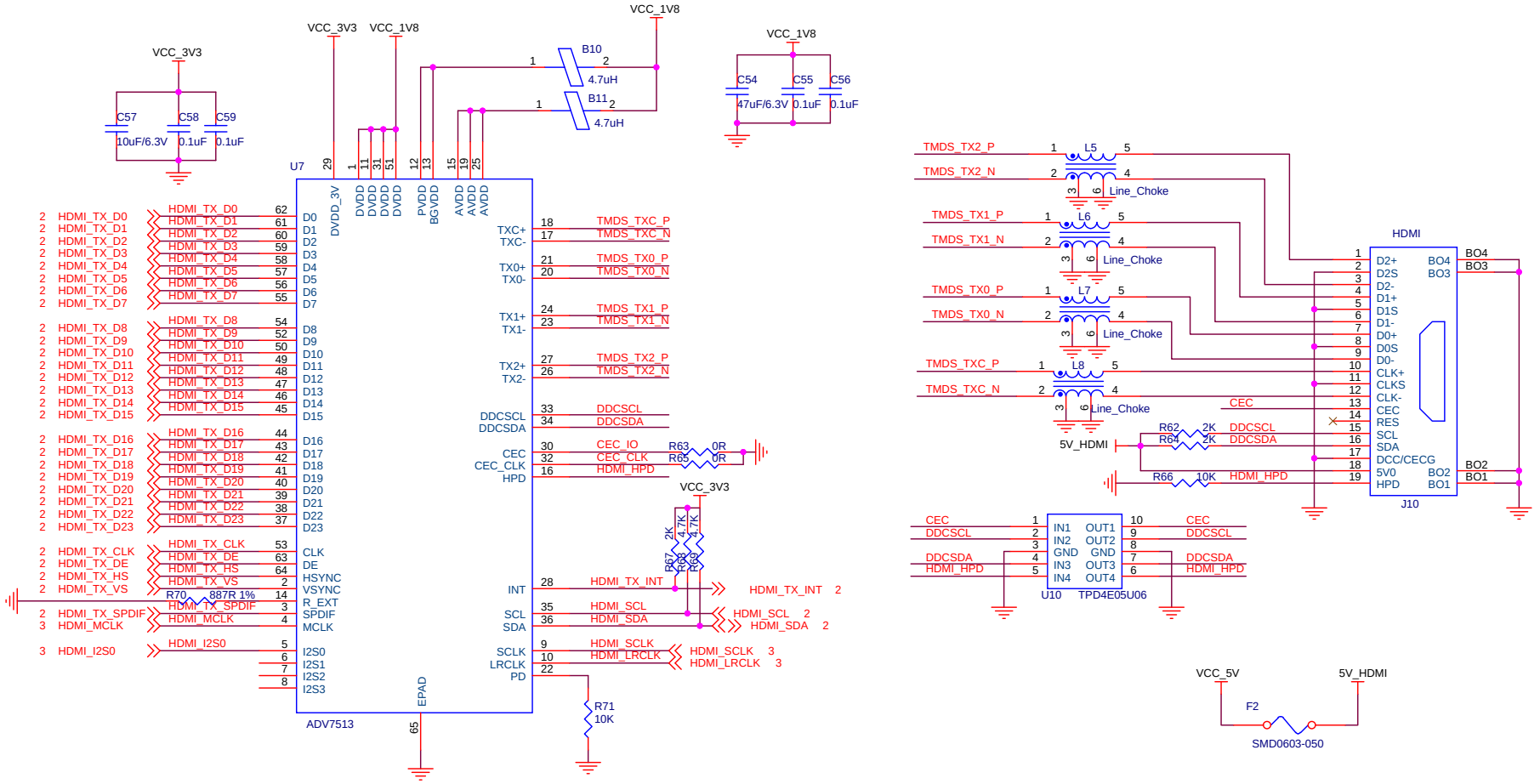
| Title: ETH1 | | | |
| Size | Document Number: PE100 Schematic | | Rev: 1.1 |
| Date: Wednesday, October 09, 2019 | Sheet 7 of 13 | | |

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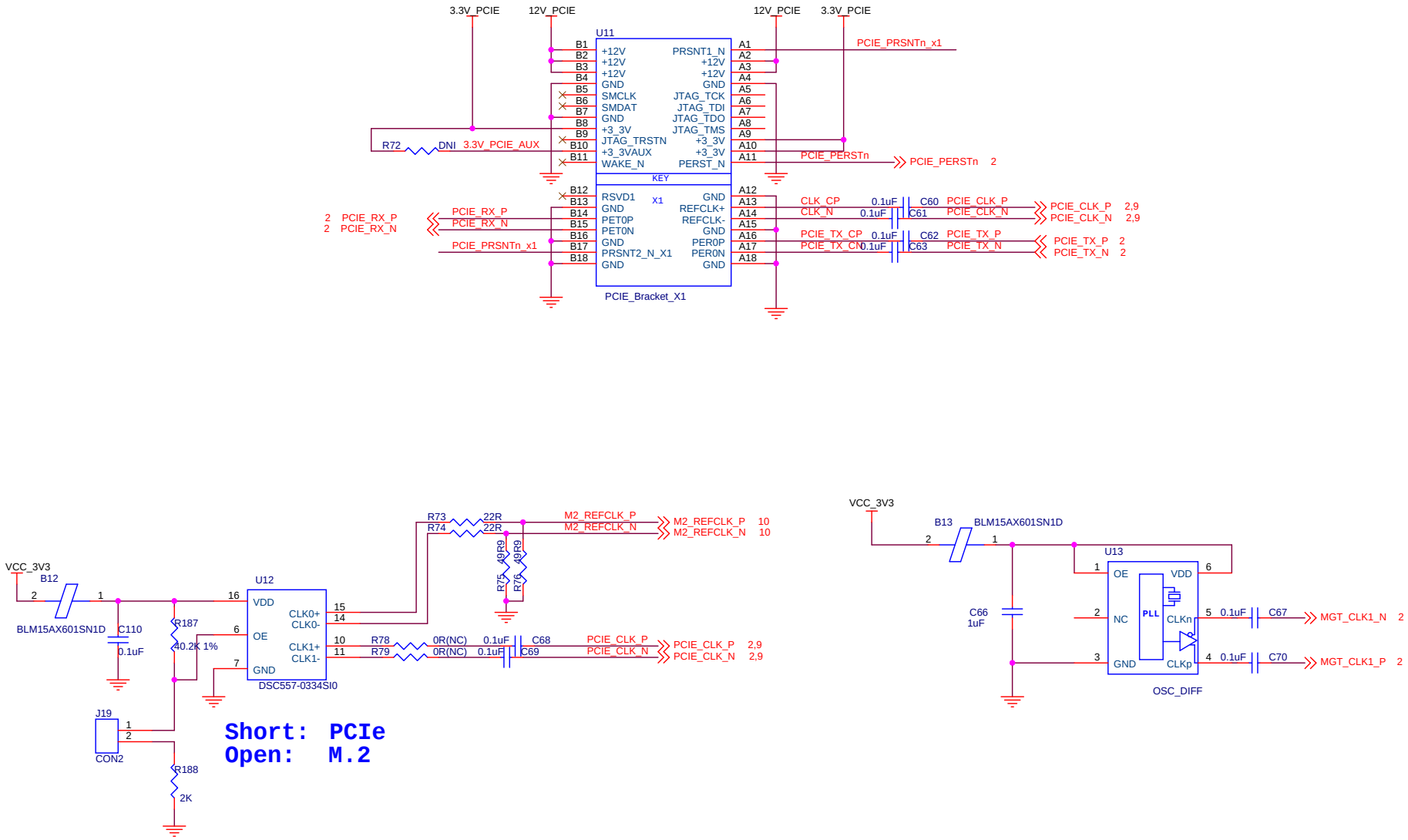
Title: HDMI TX

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 30, 2019 | Sheet 8 of 13

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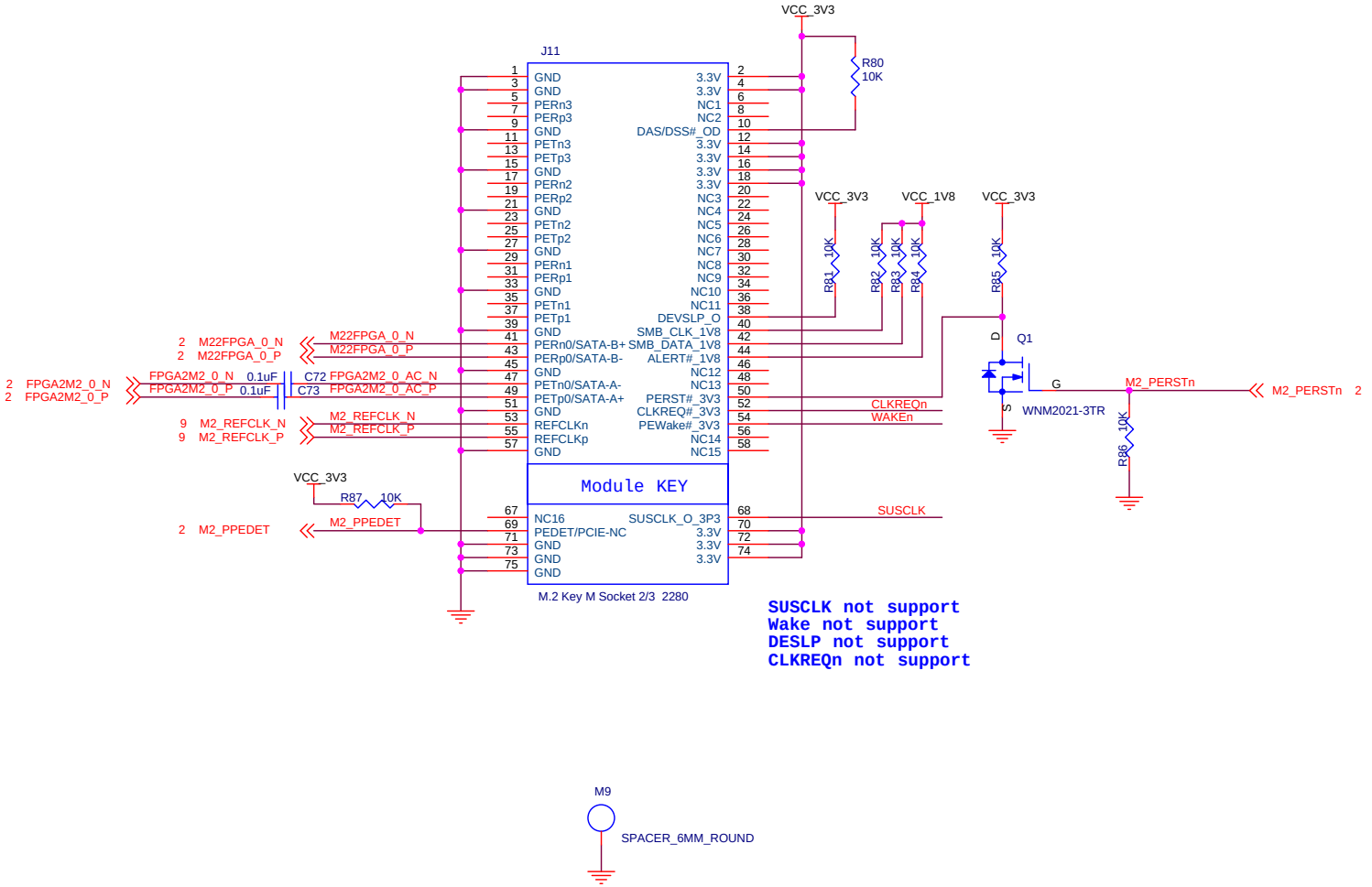
Title: PCIe, GTP Clock

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 30, 2019 | Sheet 9 of 13

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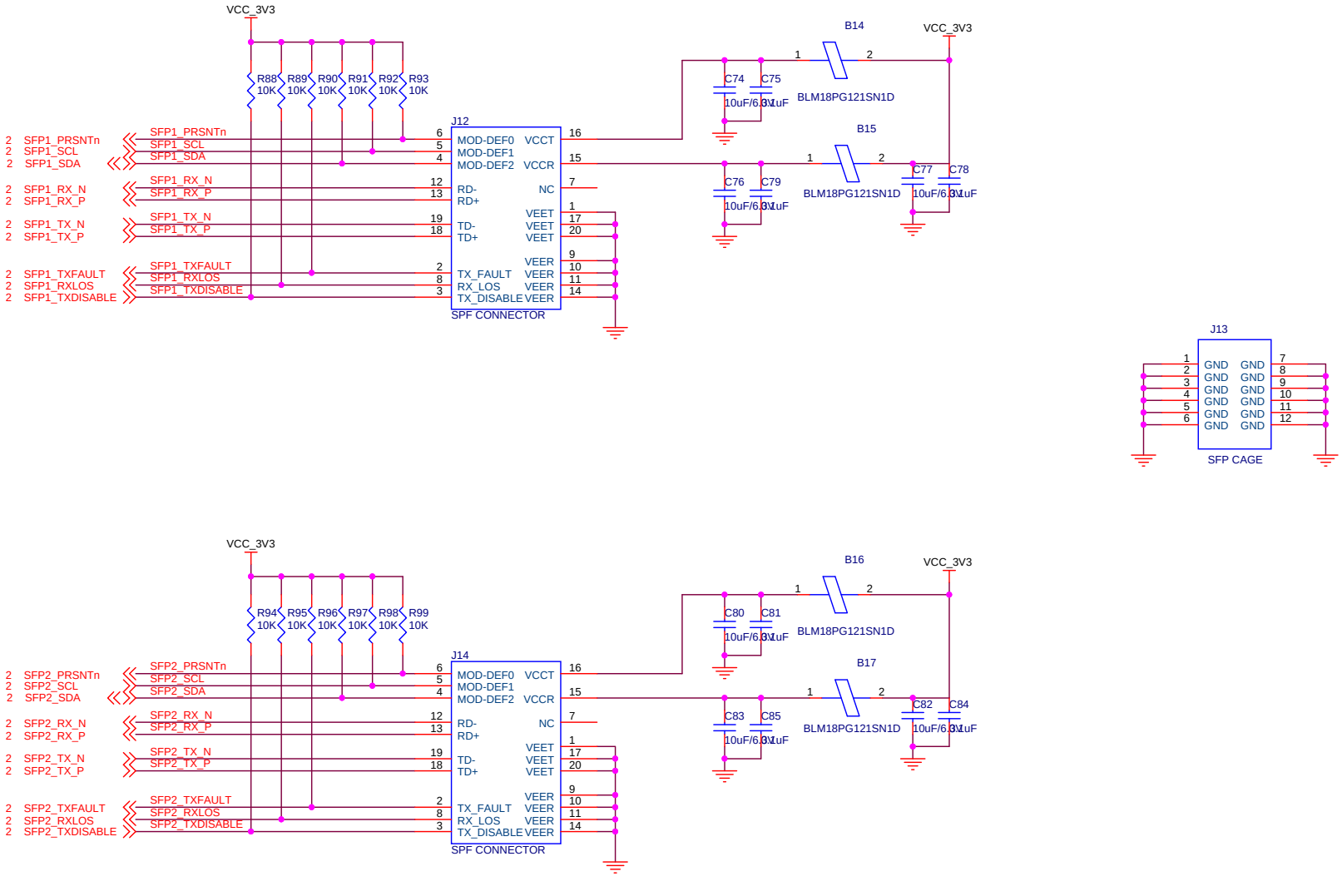
Title: M.2 Connector

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 10 of 13

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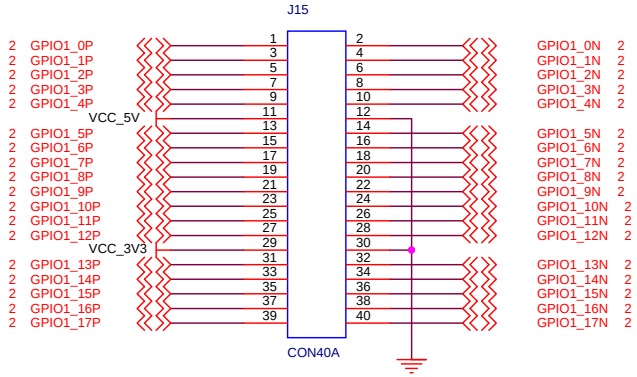
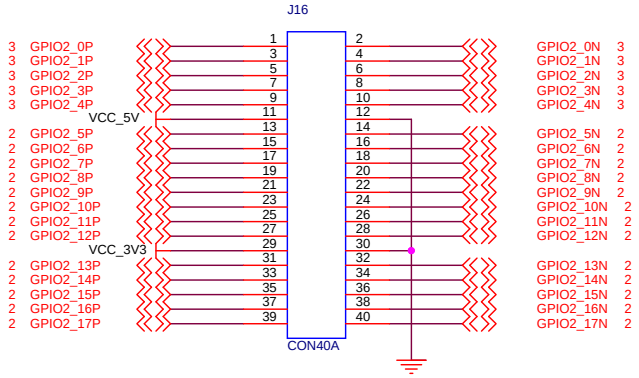
Title: SFP

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 11 of 13

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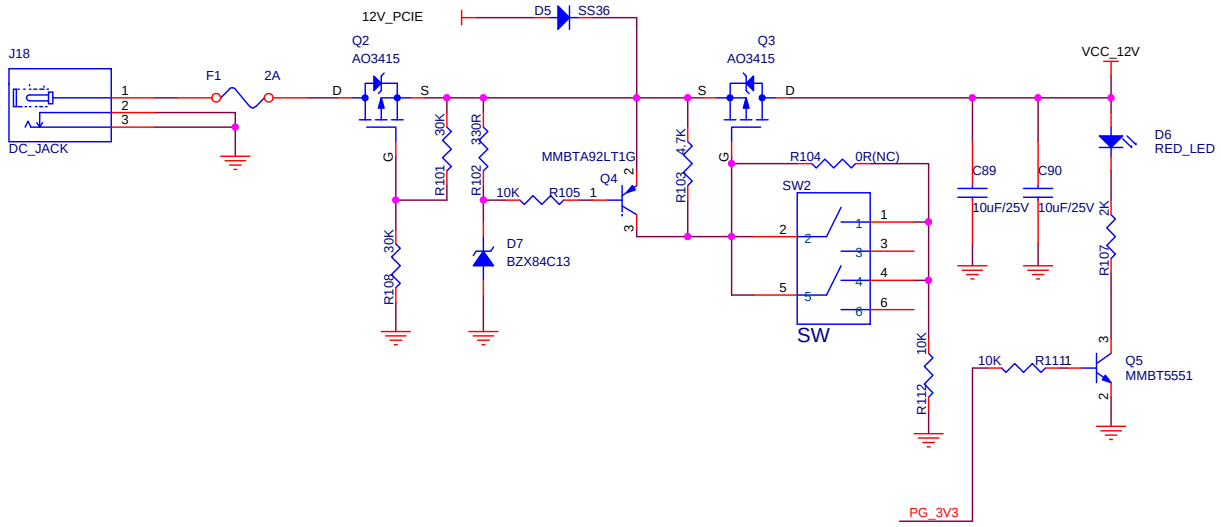
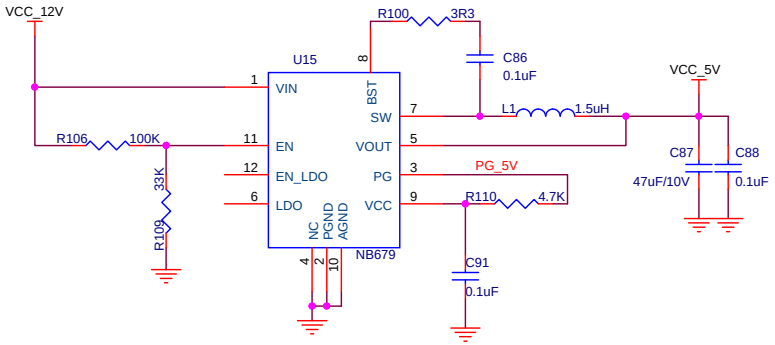
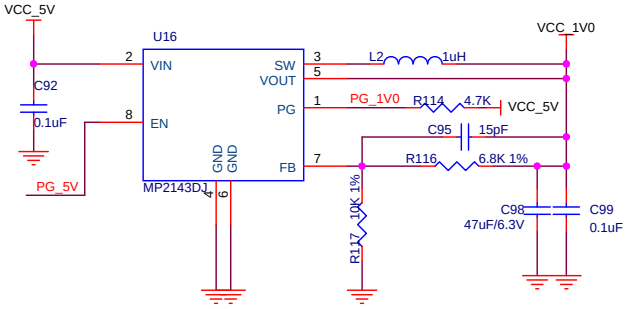
Title: GPIO

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 12 of 13

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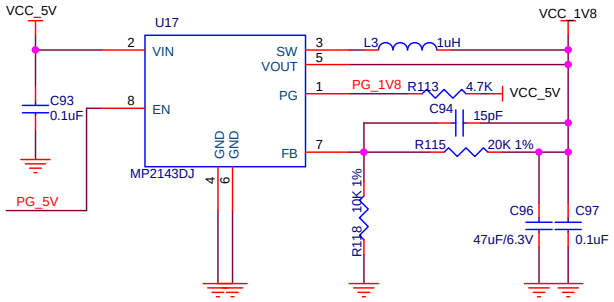
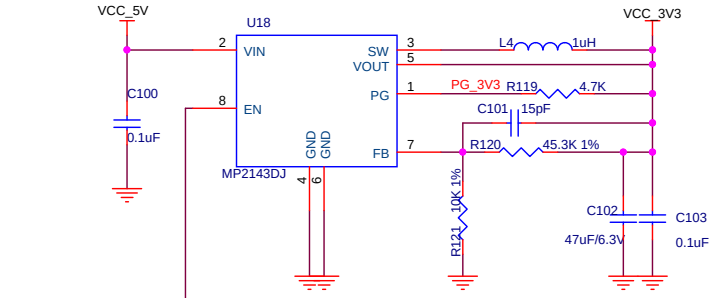



Vref = 0.6V VOUT = 1.8V




Vref = 0.6V VOUT = 3.3V

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Title: Power

Size | Document Number: PE100 Schematic | Rev: 1.1

Date: Wednesday, October 09, 2019 | Sheet 13 of 13