



ROCK3 Compute Module IO Board

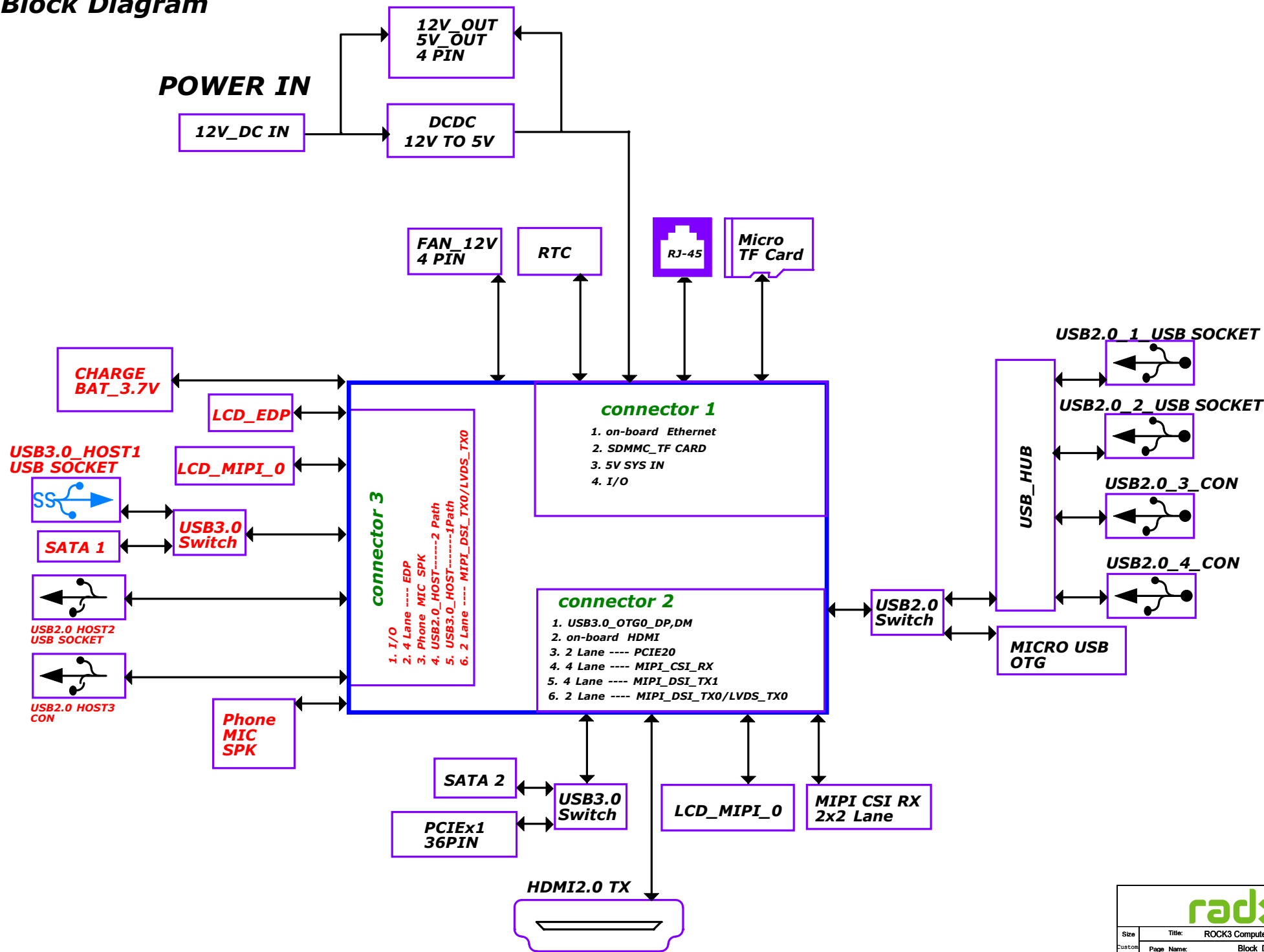
schematic

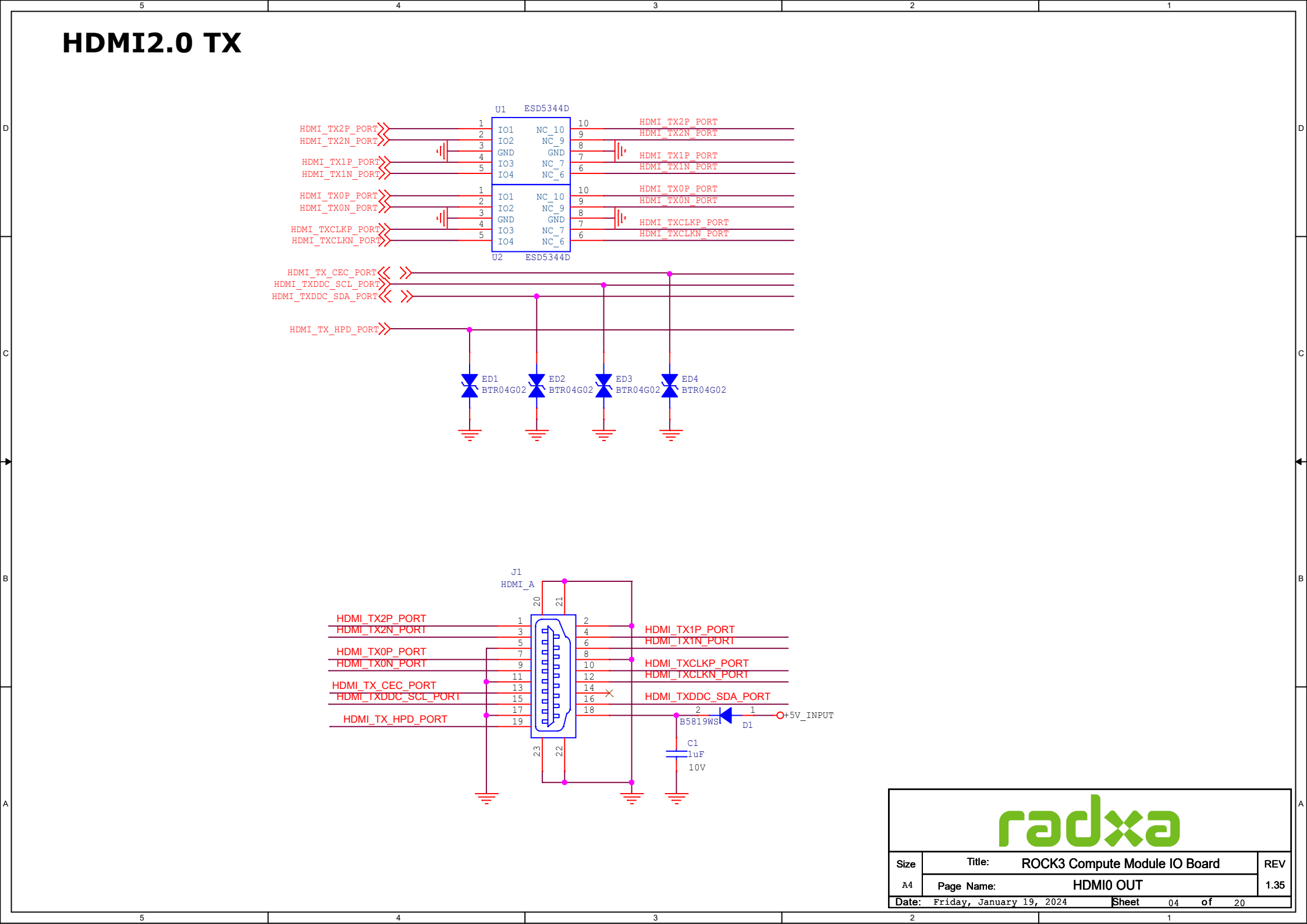
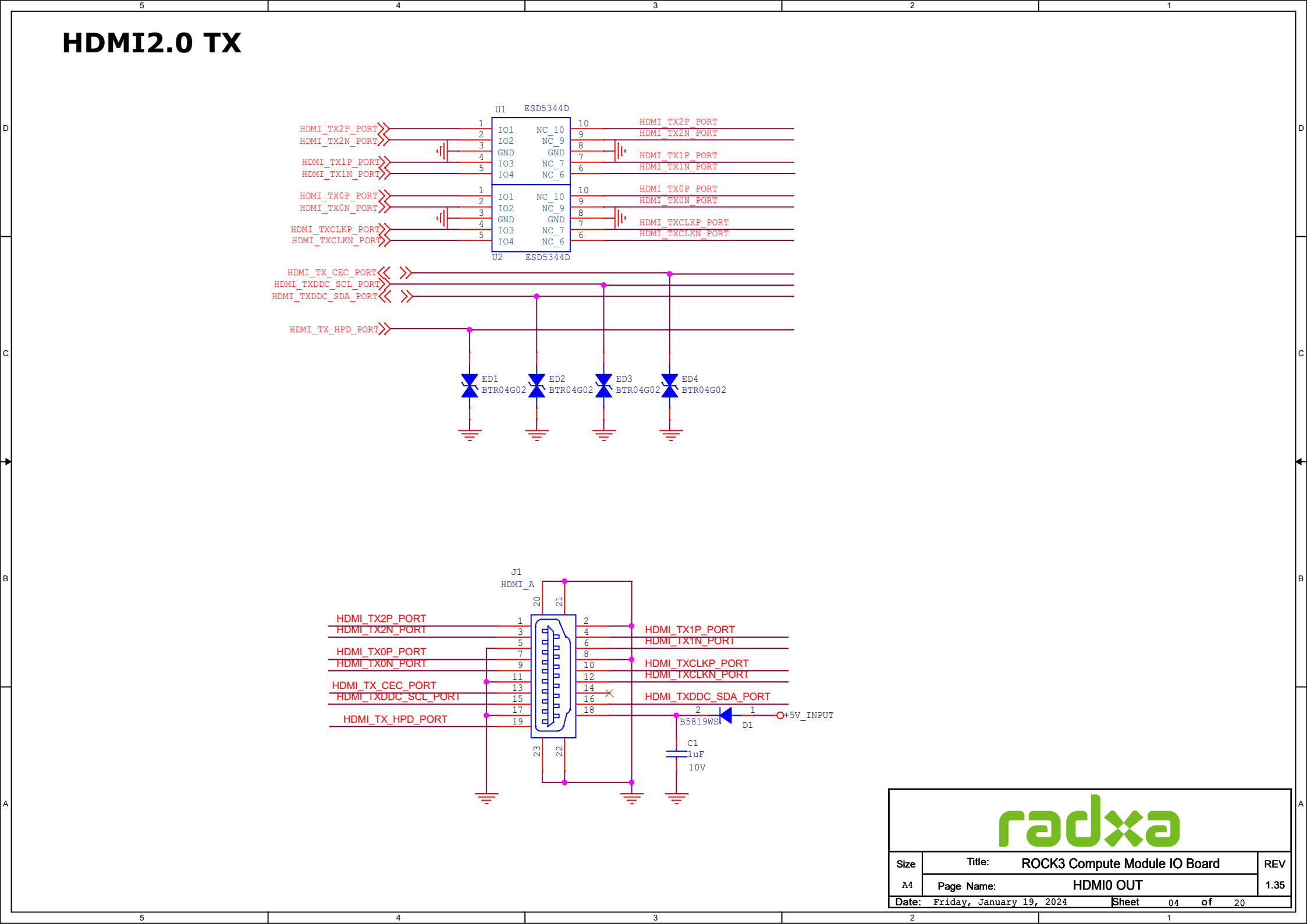
V1.35

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Block Diagram



[illegible]

HDMI2.0 TX

U1 ESD5344D

IO1 NC_10 10 HDMI_TX2P_PORT
IO2 NC_9 9 HDMI_TX2N_PORT
IO3 GND 7 HDMI_TX1P_PORT
IO4 NC_6 6 HDMI_TX1N_PORT

IO1 NC_10 10 HDMI_TX0P_PORT
IO2 NC_9 9 HDMI_TX0N_PORT
IO3 GND 7 HDMI_TXCLKP_PORT
IO4 NC_6 6 HDMI_TXCLKN_PORT

U2 ESD5344D

HDMI_TX_CEC_PORT
HDMI_TXDDC_SCL_PORT
HDMI_TXDDC_SDA_PORT
HDMI_TX_HPD_PORT

ED1 BTR04G02
ED2 BTR04G02
ED3 BTR04G02
ED4 BTR04G02

J1 HDMI_A

HDMI_TX2P_PORT
HDMI_TX2N_PORT
HDMI_TX0P_PORT
HDMI_TX0N_PORT
HDMI_TX_CEC_PORT
HDMI_TXDDC_SCL_PORT
HDMI_TX_HPD_PORT

HDMI_TX1P_PORT
HDMI_TX1N_PORT
HDMI_TXCLKP_PORT
HDMI_TXCLKN_PORT
HDMI_TXDDC_SDA_PORT

B5819WS D1
C1 1uF 10V

+5V_INPUT

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A4	Page Name: HDMI0 OUT	1.35
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HDMI2.0 TX

U1 ESD5344D

IO1 NC_10 10 HDMI_TX2P_PORT
IO2 NC_9 9 HDMI_TX2N_PORT
IO3 GND 7 HDMI_TX1P_PORT
IO4 NC_6 6 HDMI_TX1N_PORT

IO1 NC_10 10 HDMI_TX0P_PORT
IO2 NC_9 9 HDMI_TX0N_PORT
IO3 GND 7 HDMI_TXCLKP_PORT
IO4 NC_6 6 HDMI_TXCLKN_PORT

U2 ESD5344D

HDMI_TX_CEC_PORT
HDMI_TXDDC_SCL_PORT
HDMI_TXDDC_SDA_PORT
HDMI_TX_HPD_PORT

ED1 BTR04G02
ED2 BTR04G02
ED3 BTR04G02
ED4 BTR04G02

J1 HDMI_A

HDMI_TX2P_PORT
HDMI_TX2N_PORT
HDMI_TX0P_PORT
HDMI_TX0N_PORT
HDMI_TX_CEC_PORT
HDMI_TXDDC_SCL_PORT
HDMI_TX_HPD_PORT

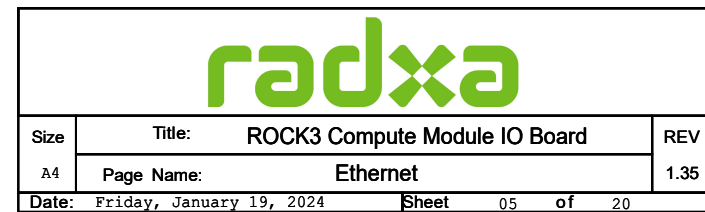
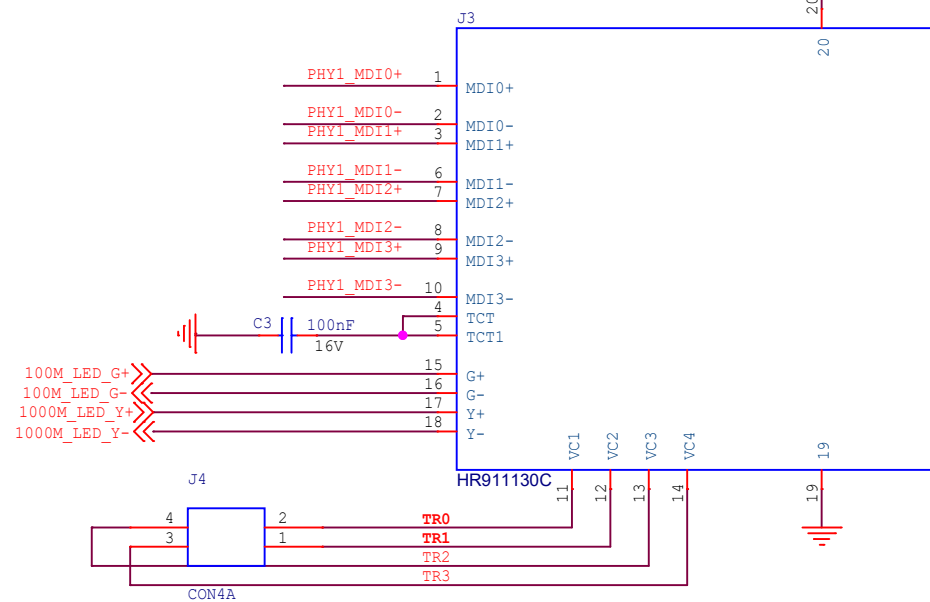
HDMI_TX1P_PORT
HDMI_TX1N_PORT
HDMI_TXCLKP_PORT
HDMI_TXCLKN_PORT
HDMI_TXDDC_SDA_PORT

B5819WS
D1
C1 1uF 10V

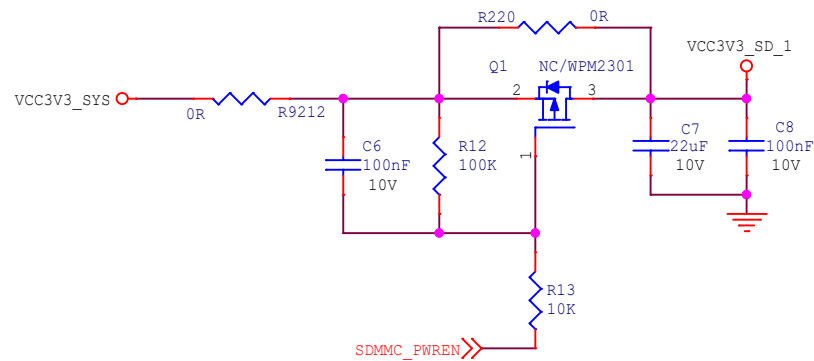
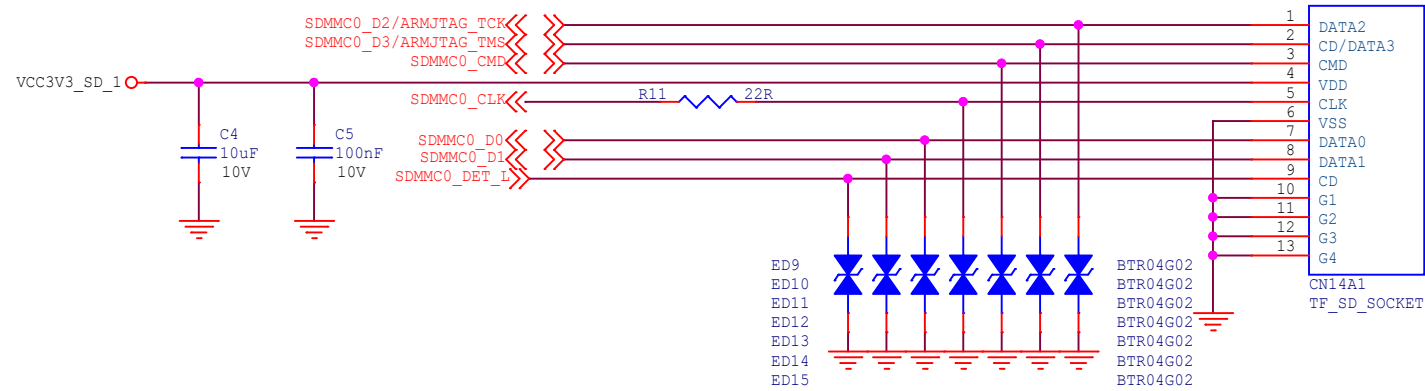
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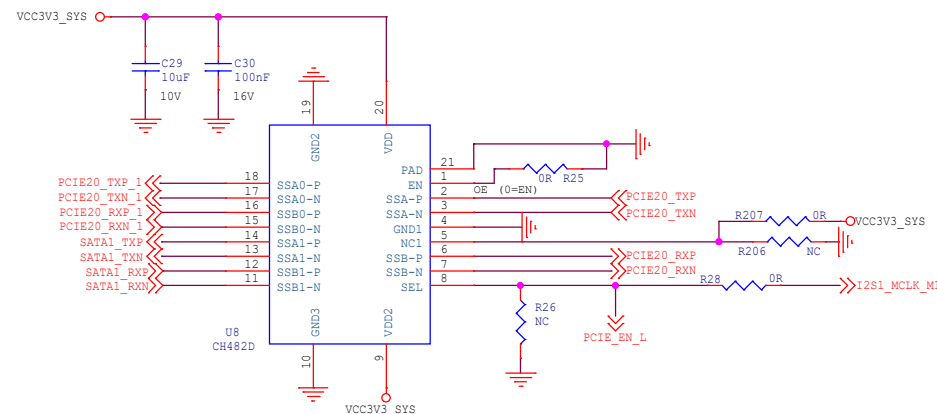
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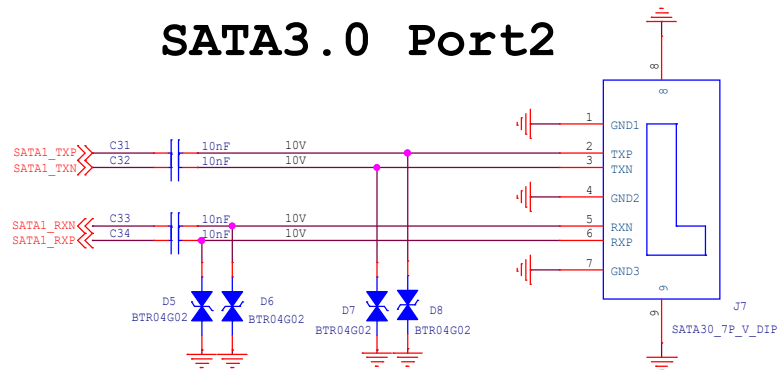


MicroSD Card



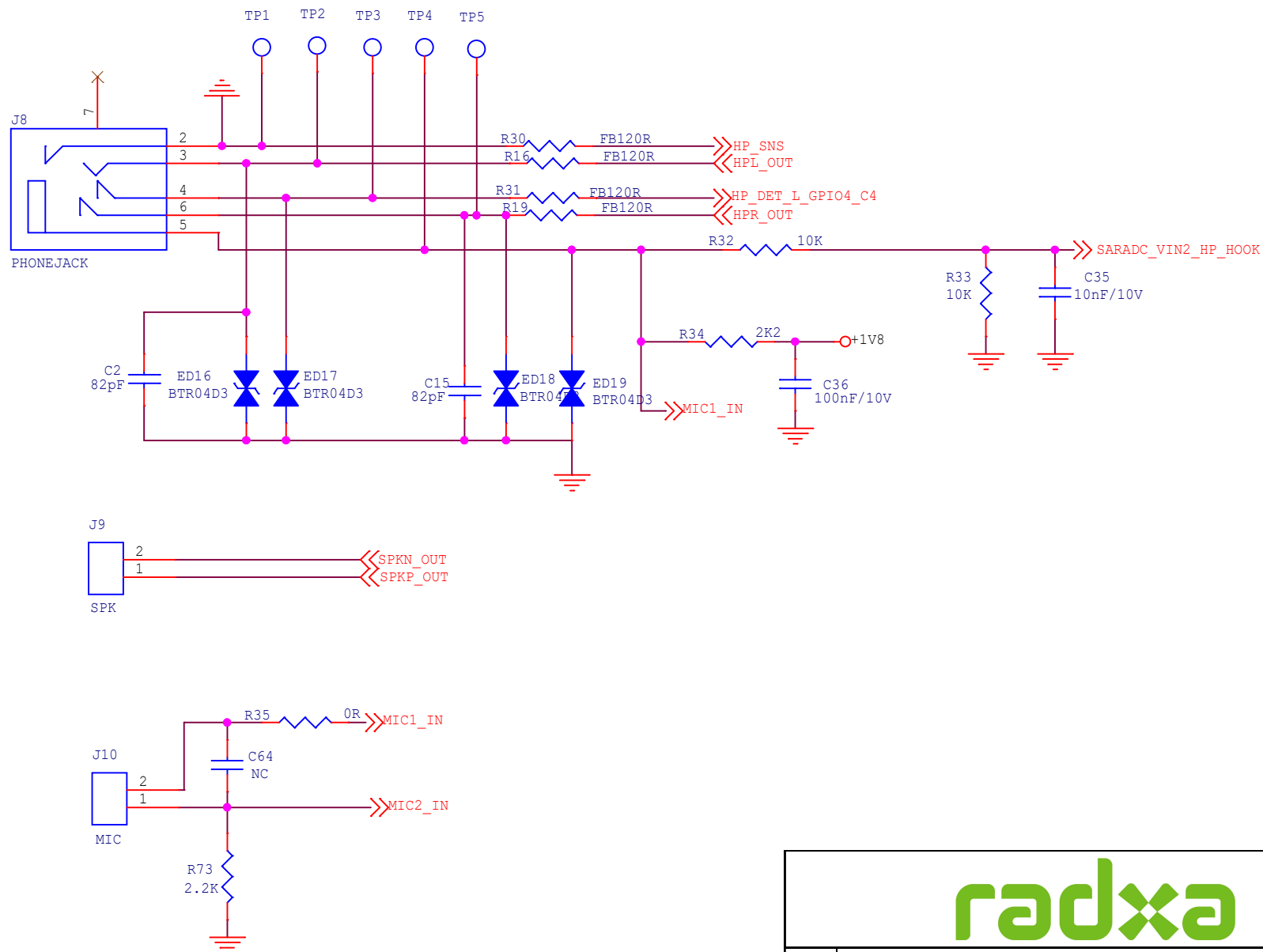


SATA3.0 Port2



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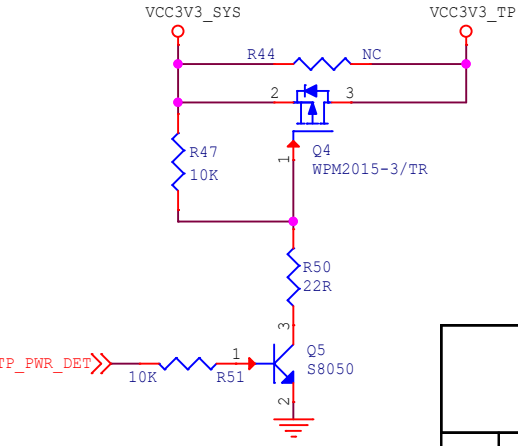
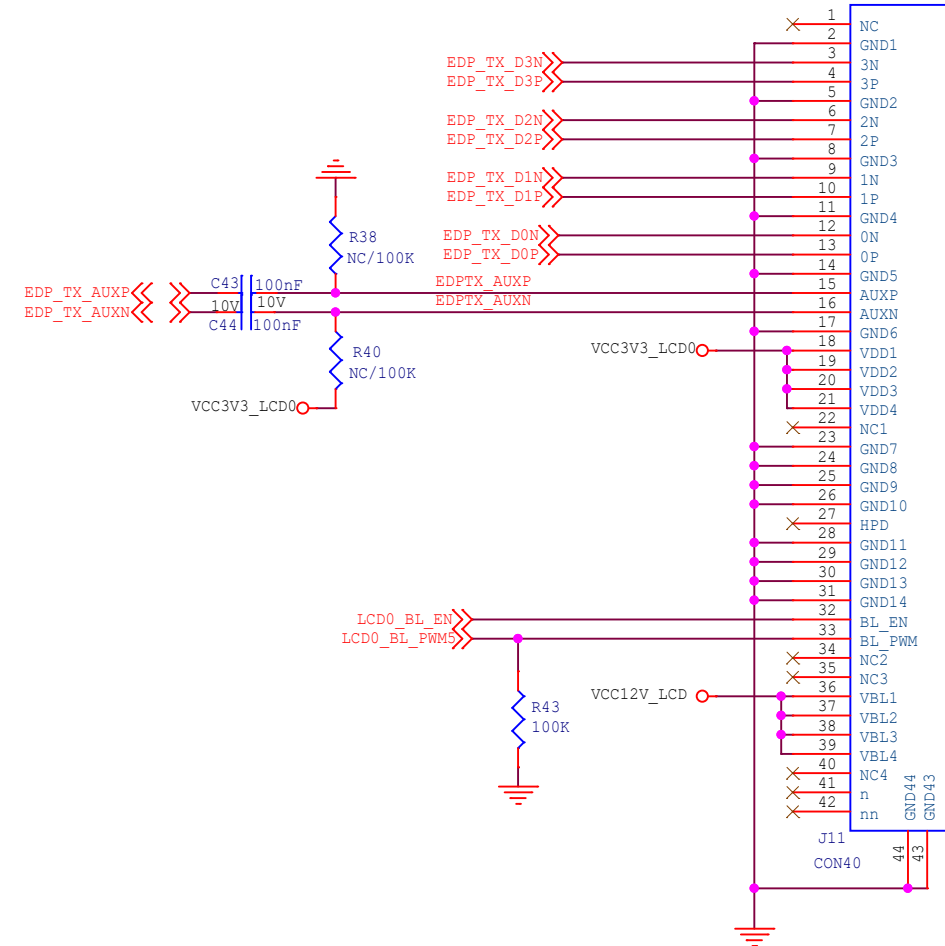
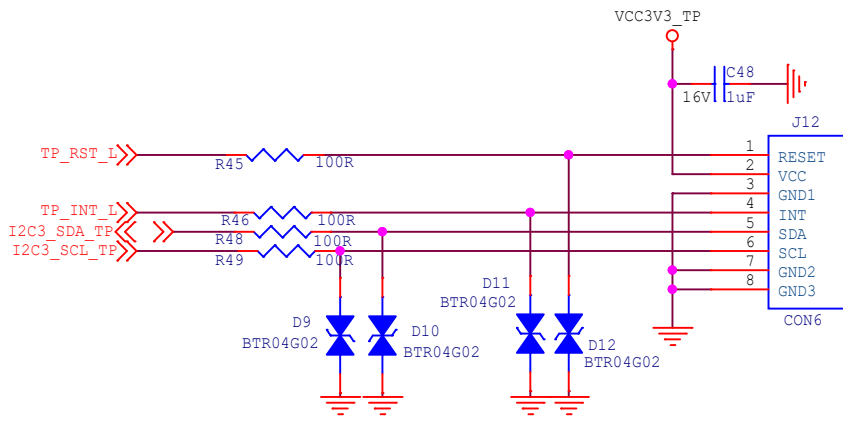
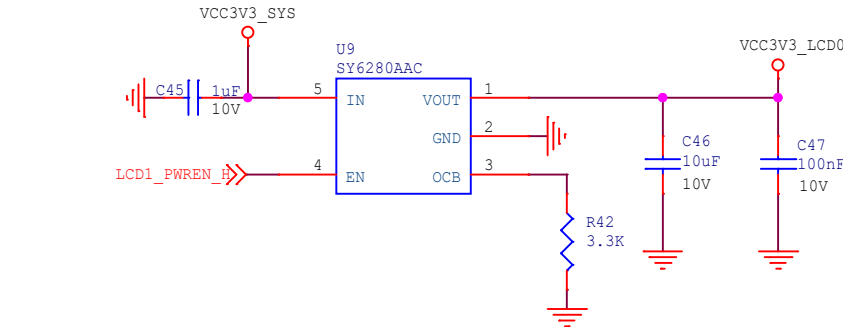
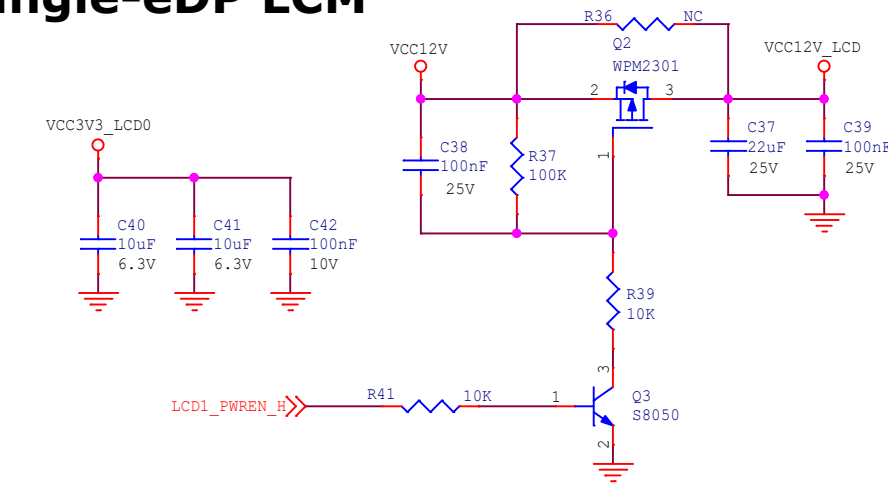
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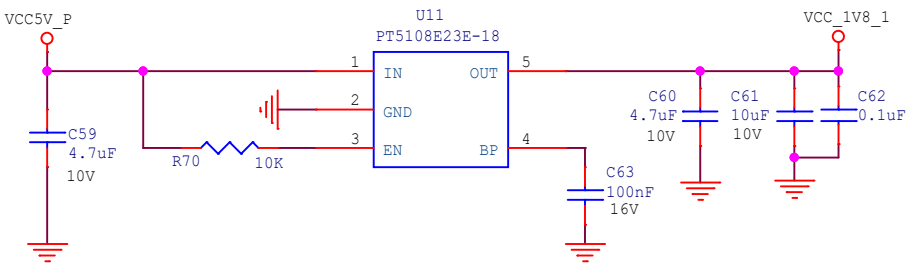
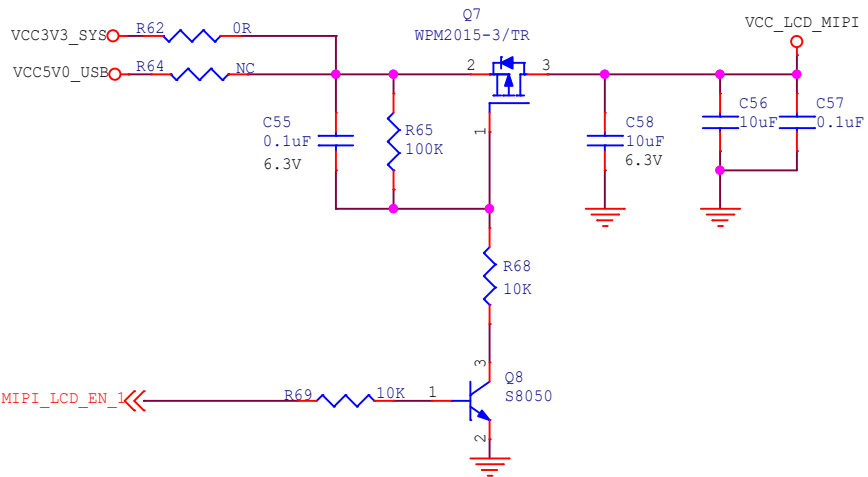
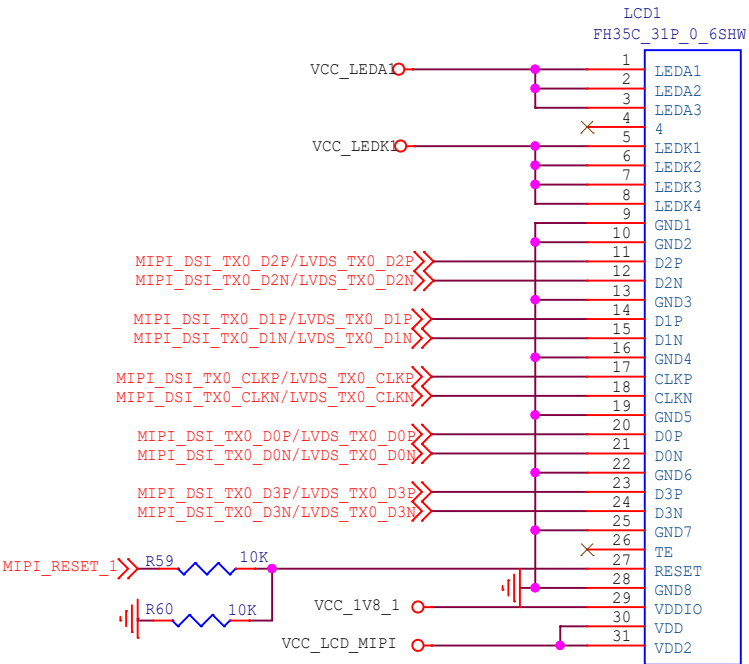
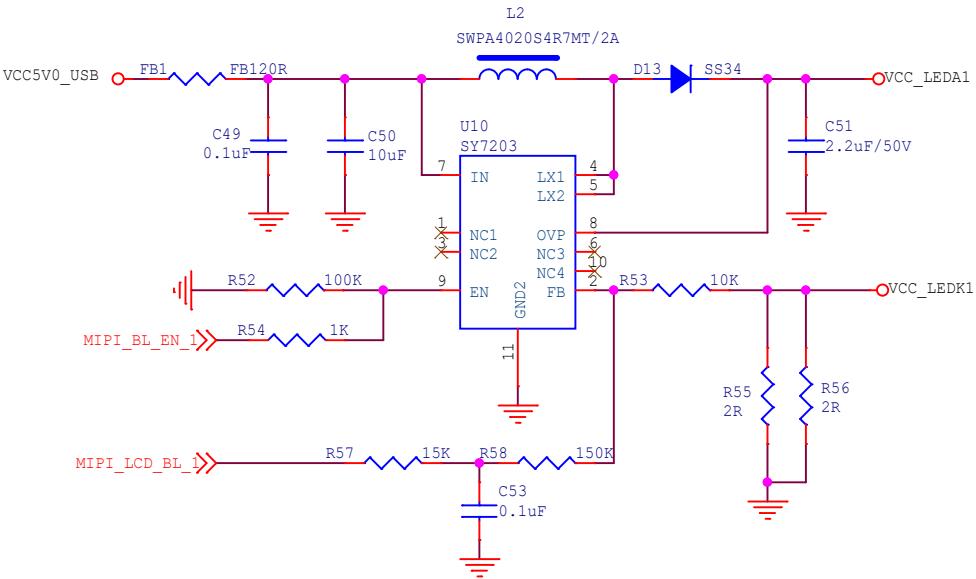
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Single-eDP LCM

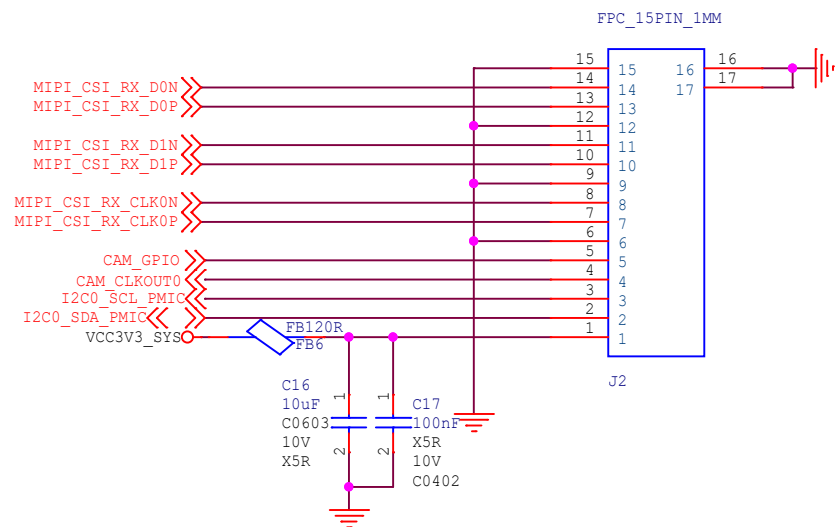


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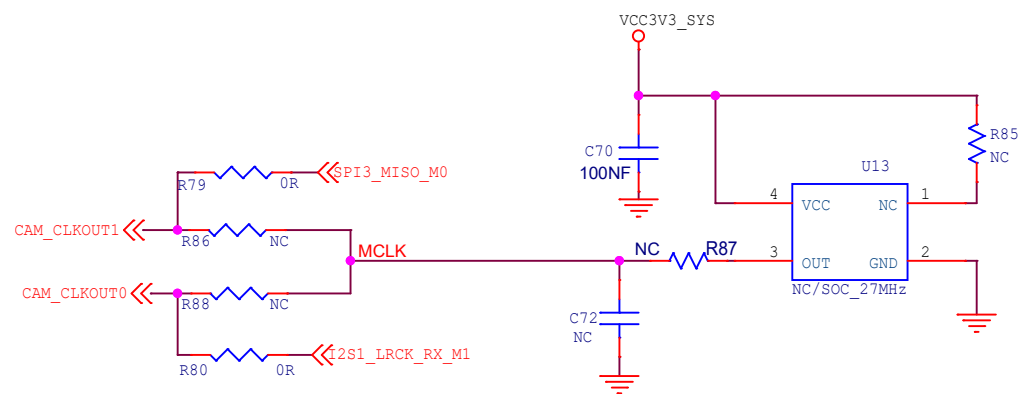
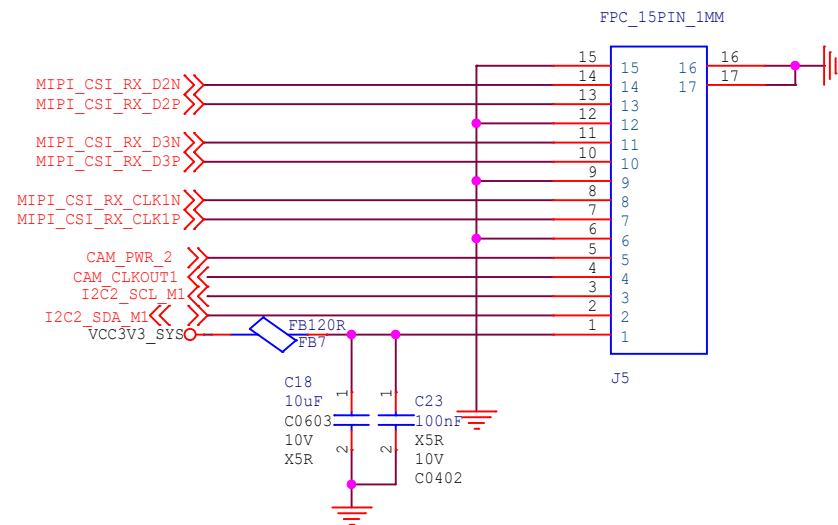
MIPI_LCD_TX0



MIPI_CSI_RX 2Lanes

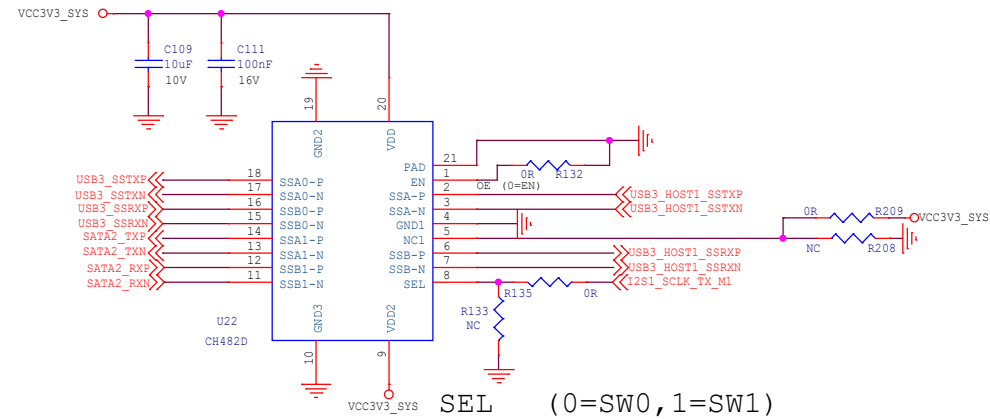
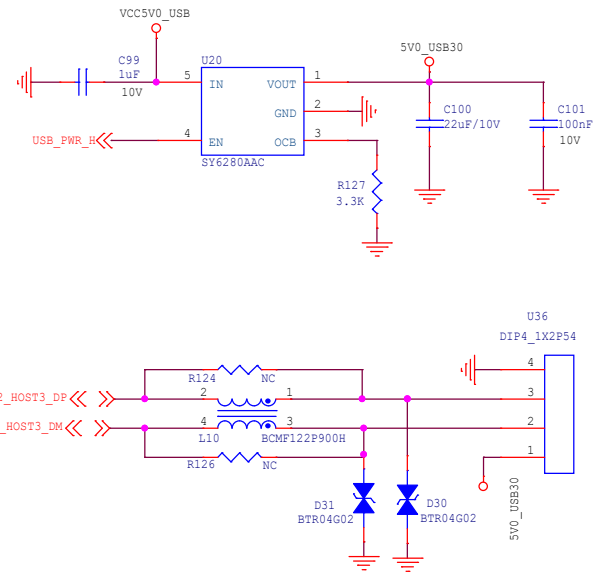
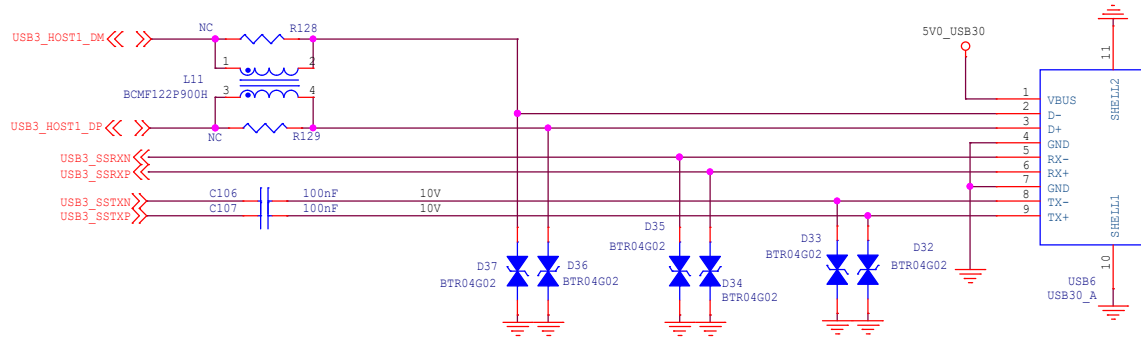


MIPI_CSI_RX 2Lanes

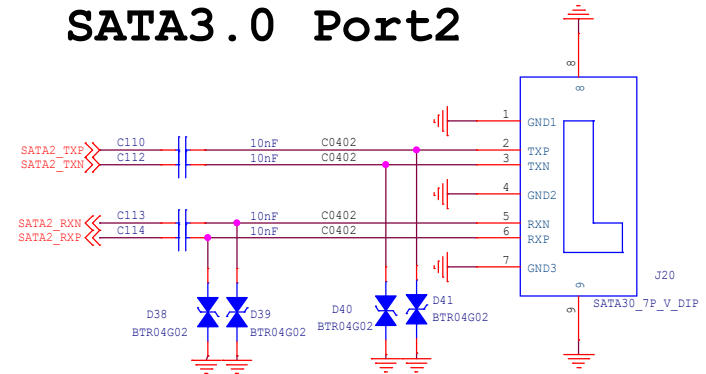


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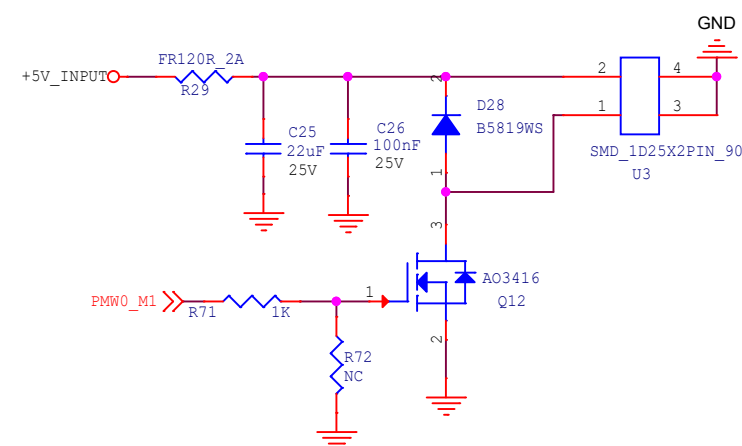
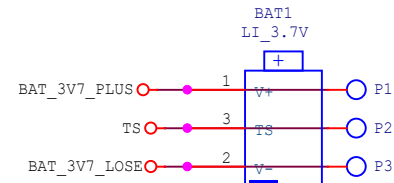
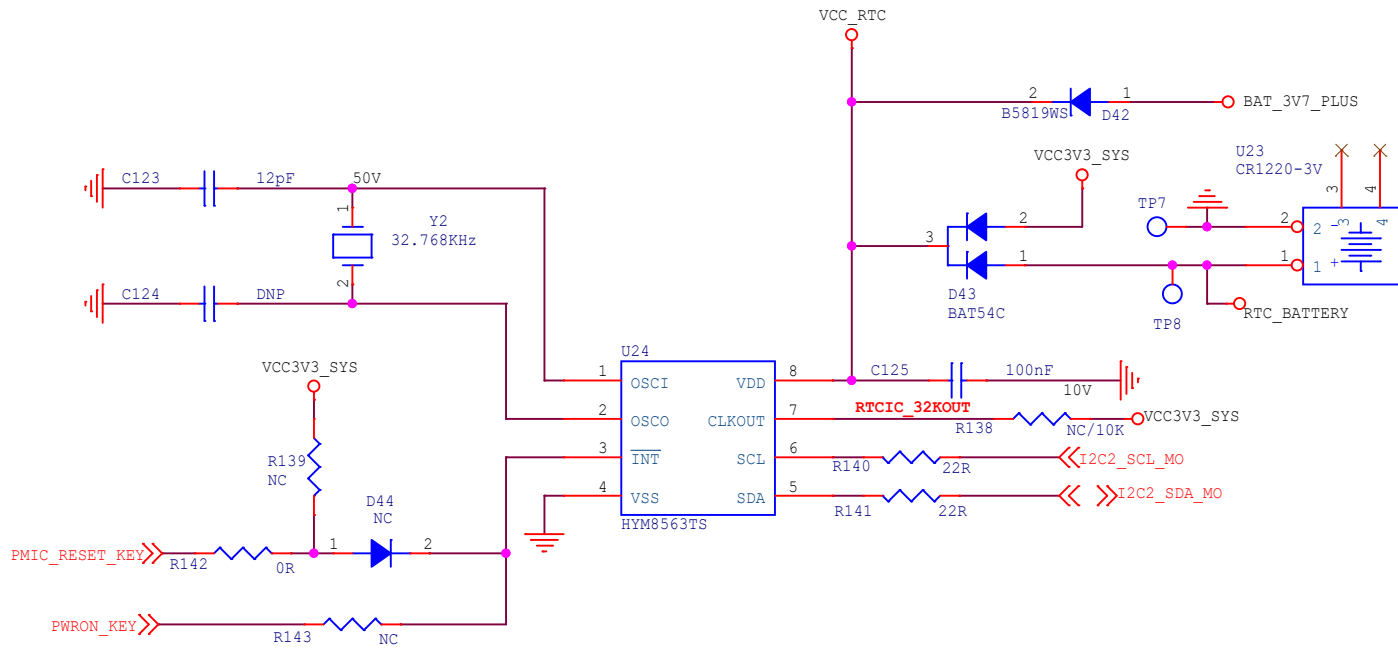


SATA3.0 Port2

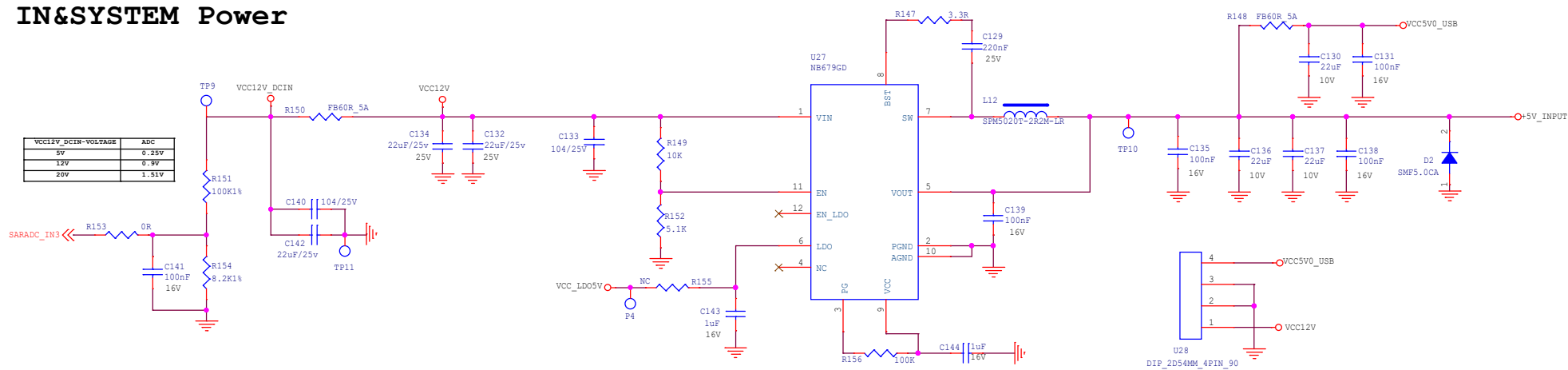


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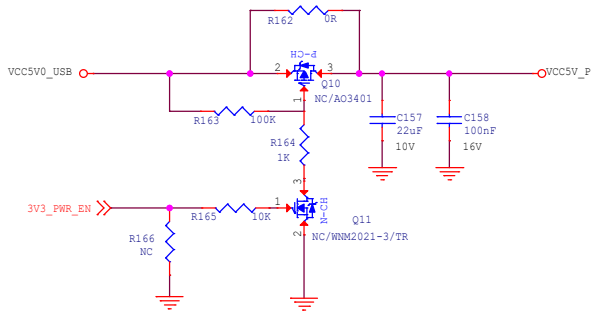
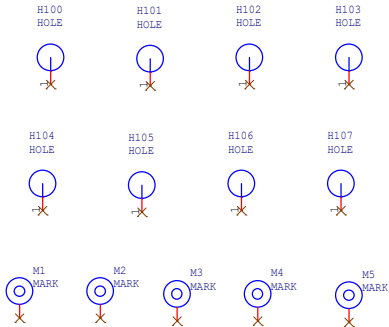
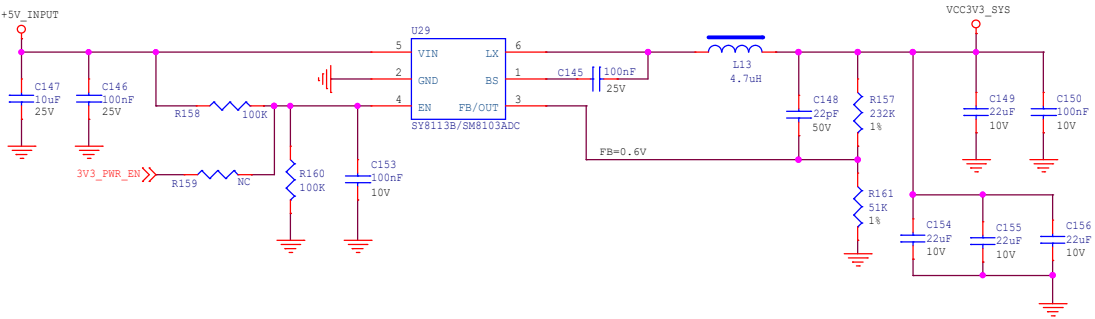
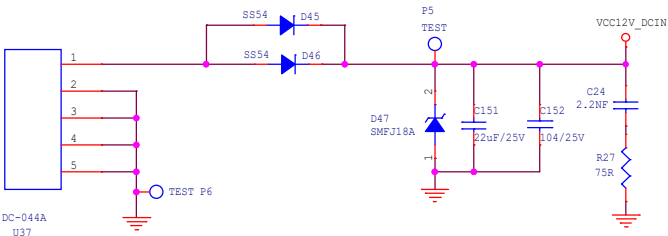
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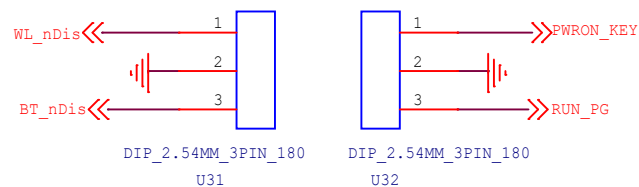
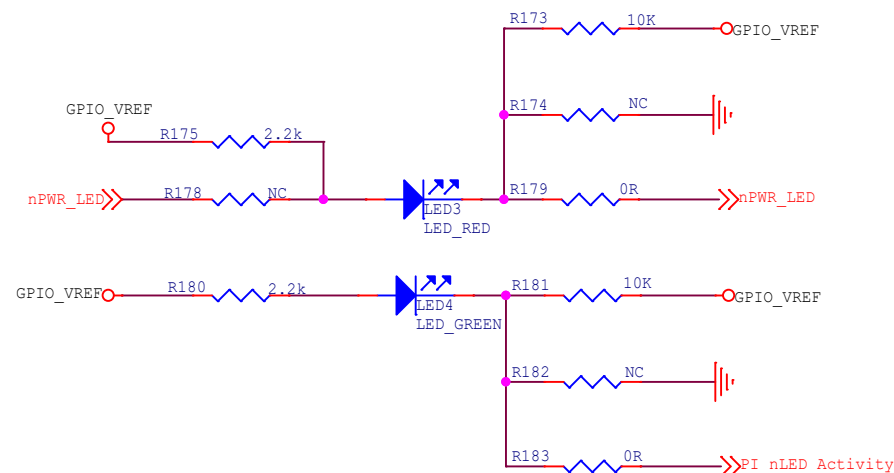
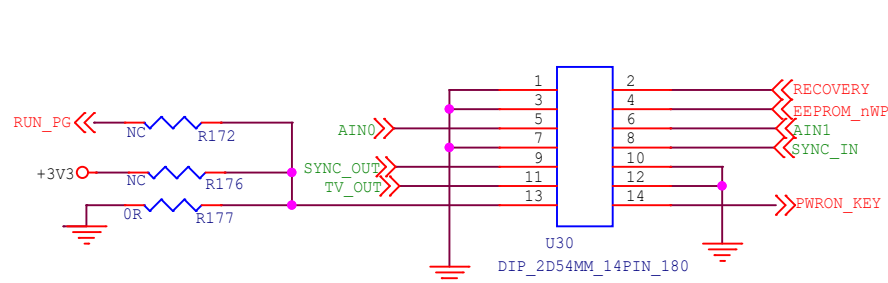
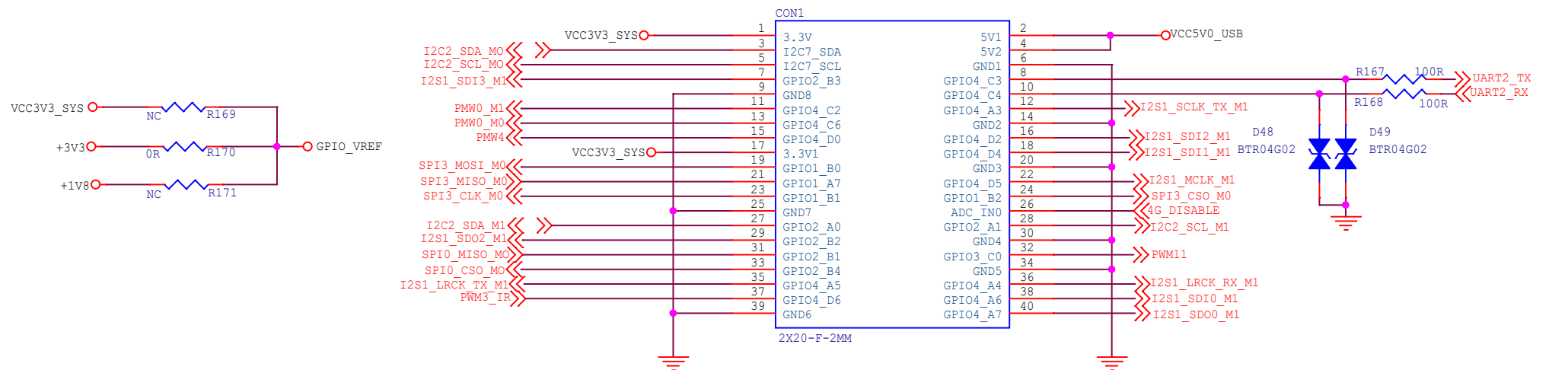


DC IN&SYSTEM Power

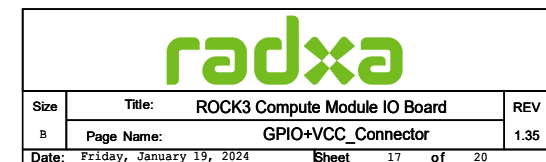


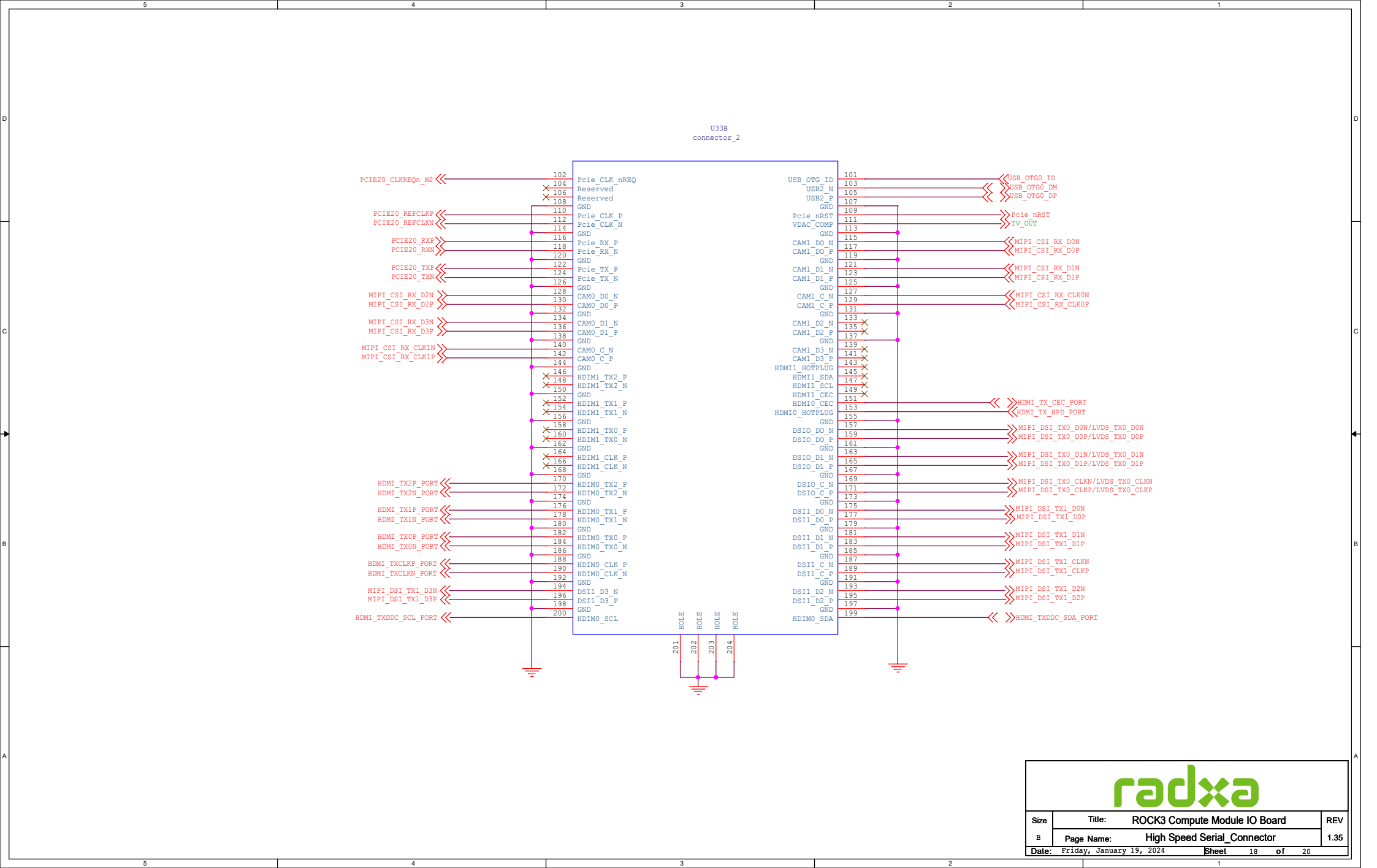
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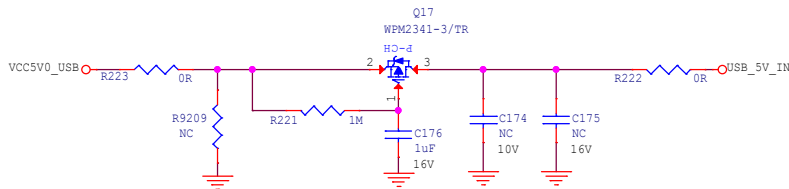
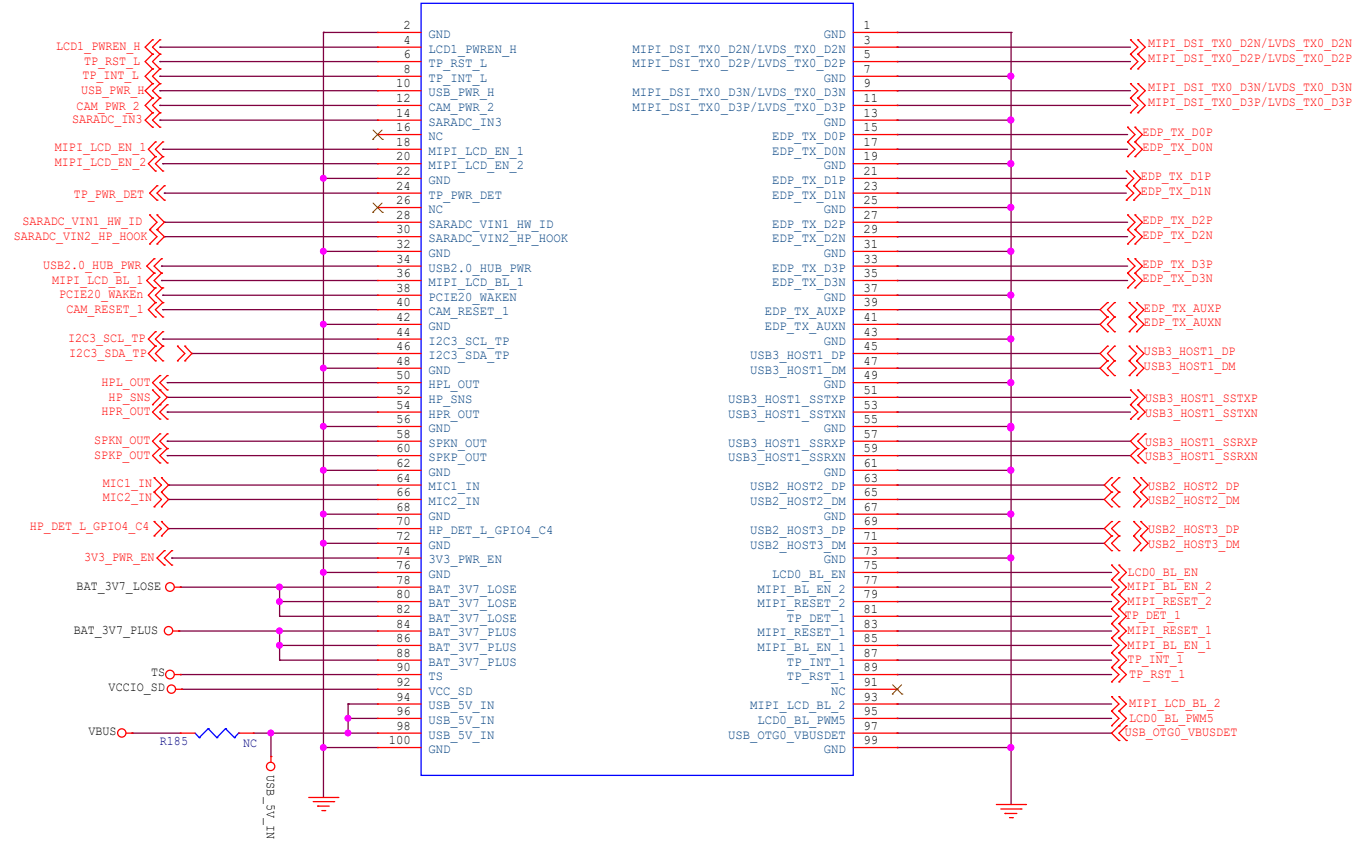




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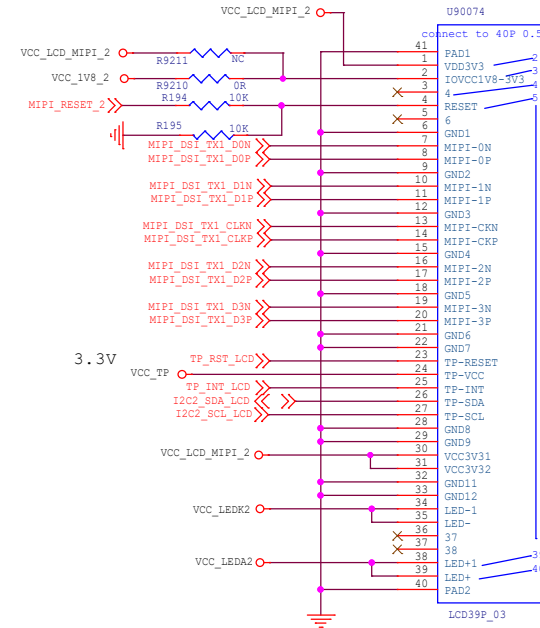
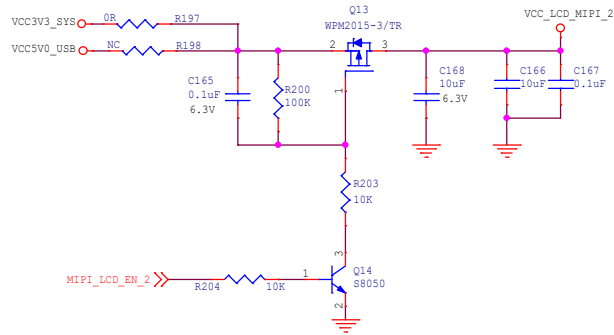
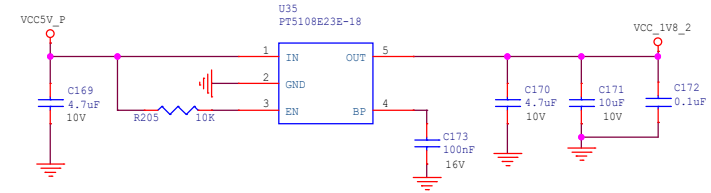
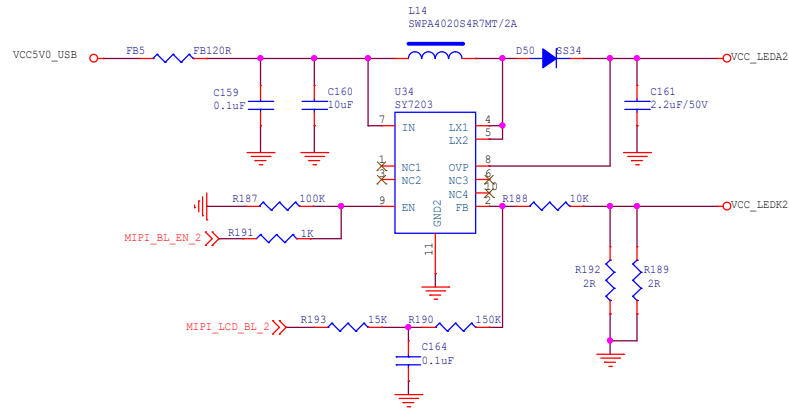
J24
connector3



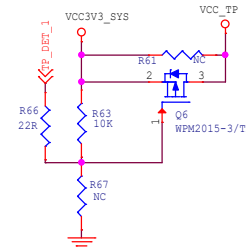
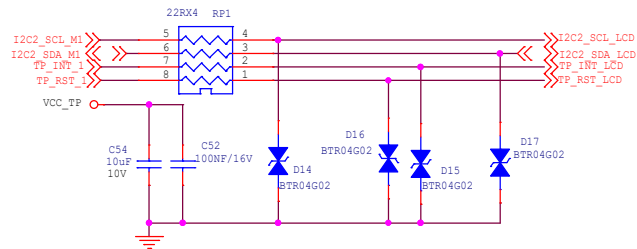
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Size	Title: ROCK3 Compute Module IO Board	REV
B	Page Name: IO_Connector	1.35
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MIPI_LCD_TX1



LCD_TP



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A3	Page Name: MIPI_LCD_TX1	1.35
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