



VisionFive 2 Lite

Schematic

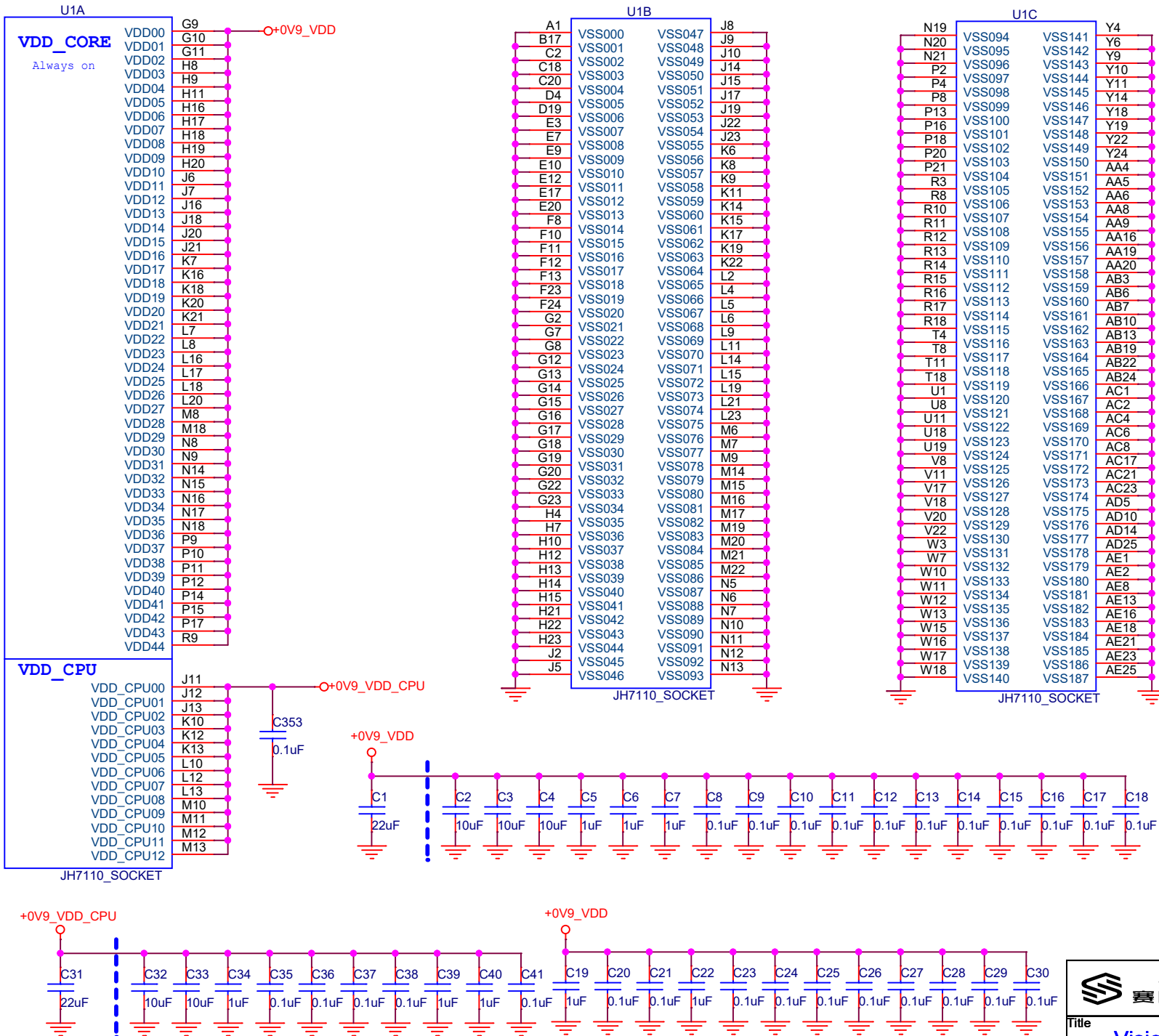
V1.0

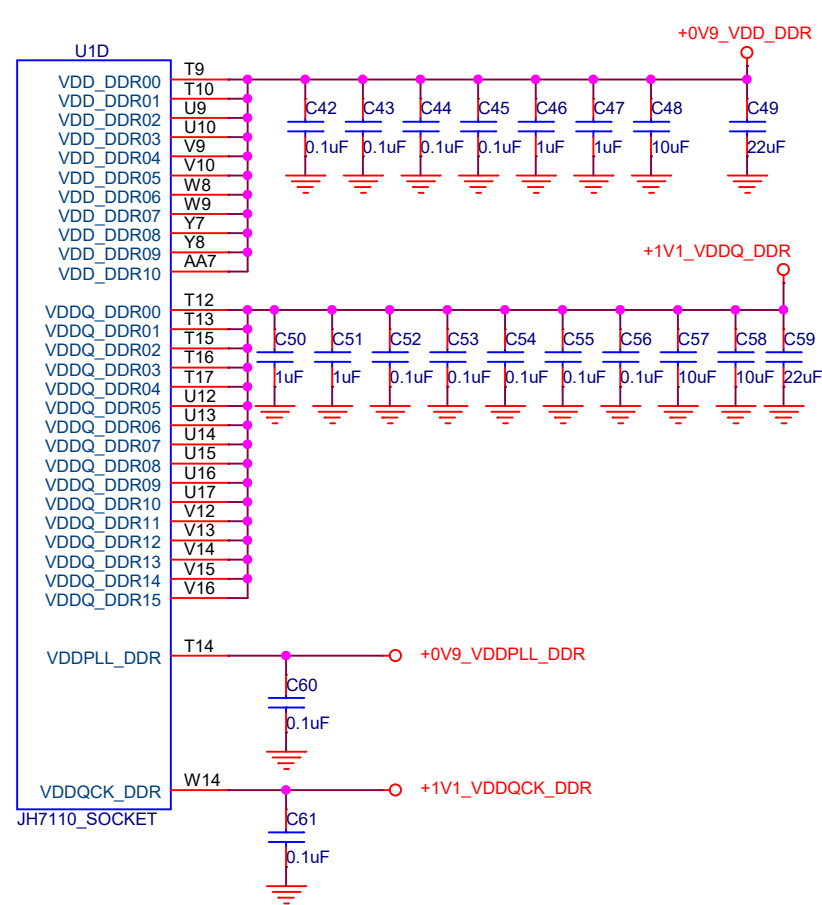
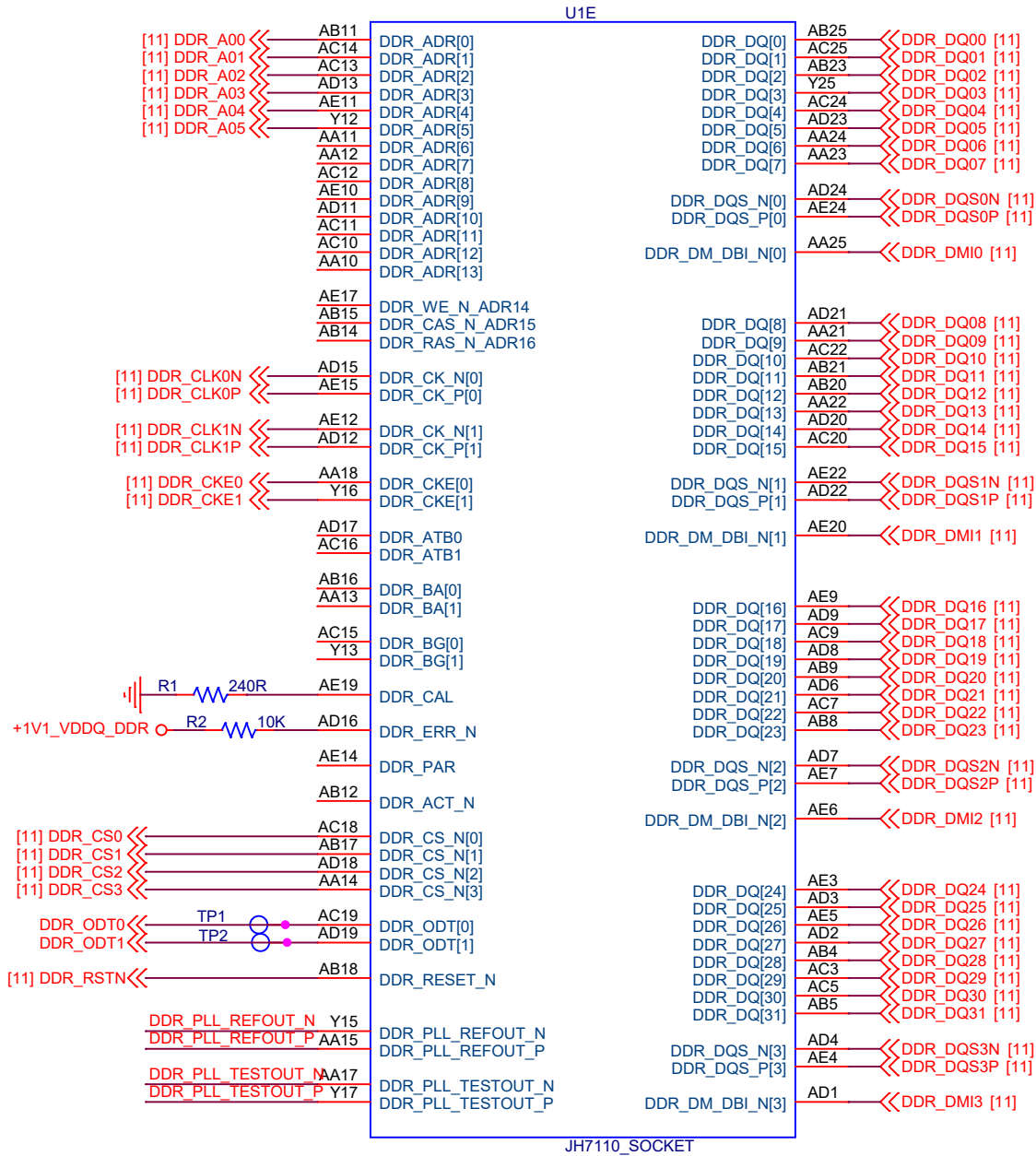
Table of Content:

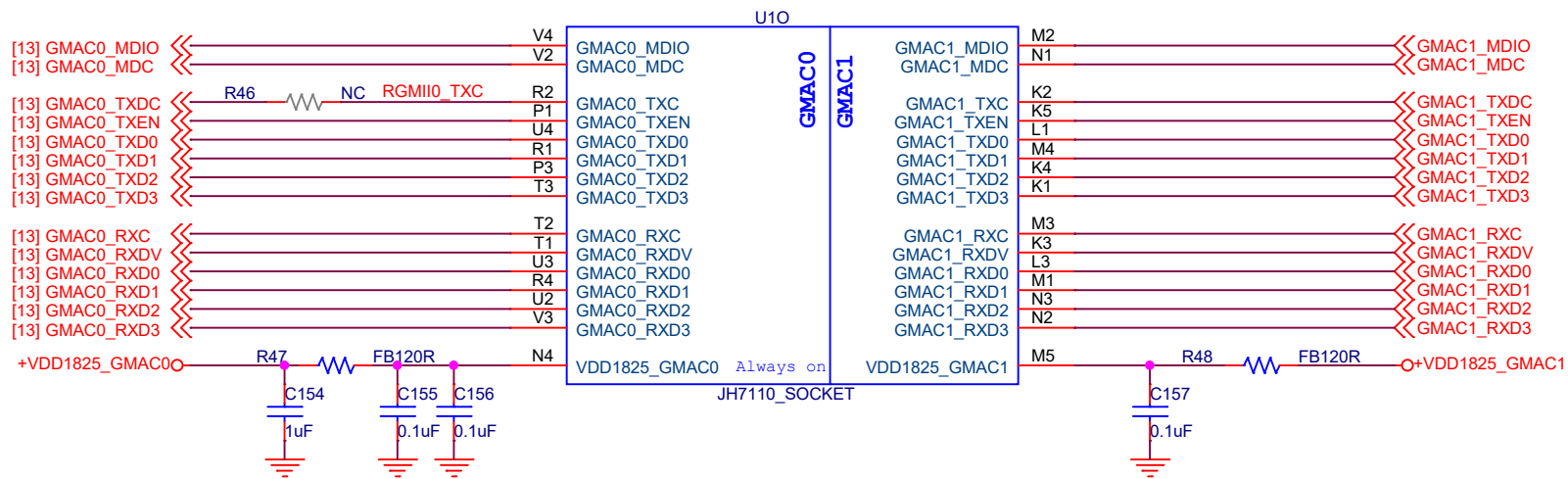
- 01_COVER
- 02_INDEX
- 03_Block Diagram
- 04_GPIO List
- 05_JH7110S Power
- 06_JH7110S DDR Ctrl
- 07_JH7110S GMAC0&1
- 08_JH7110S GPIOs
- 09_JH7110 OSC&SPI&SDIO
- 10_JH7110S_HDMI_PCIE_MIPI_USB
- 11_LPDDR4 RAM
- 12_MIPI_TX/RX
- 13_Ethernet
- 14_HDMI
- 15_eMMC & SD
- 16_Wifi interface
- 17_USB Interface
- 18_M KEY_PCIE
- 19_40PIN IO
- 20_AON PWR
- 21_PMIC-AXP15060
- 22_Power-DC IN

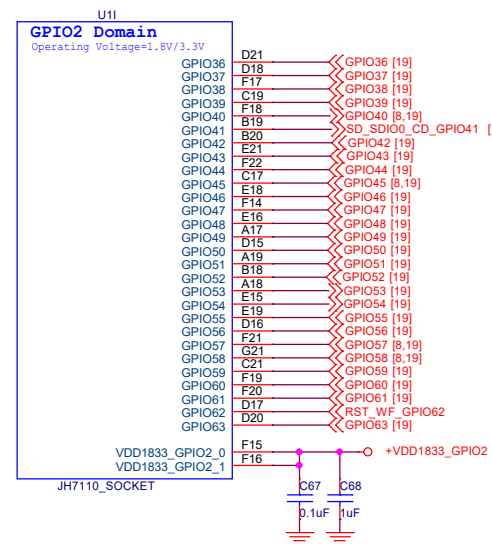
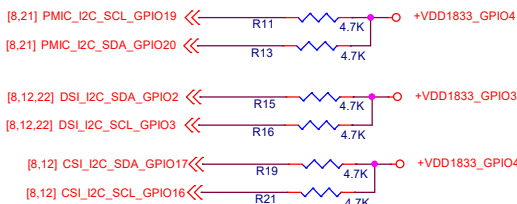
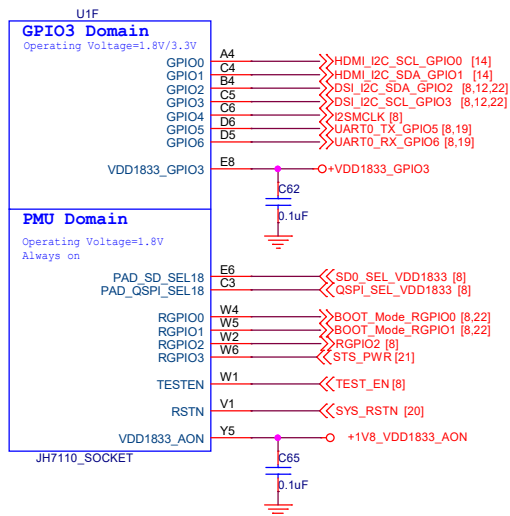
D

C11

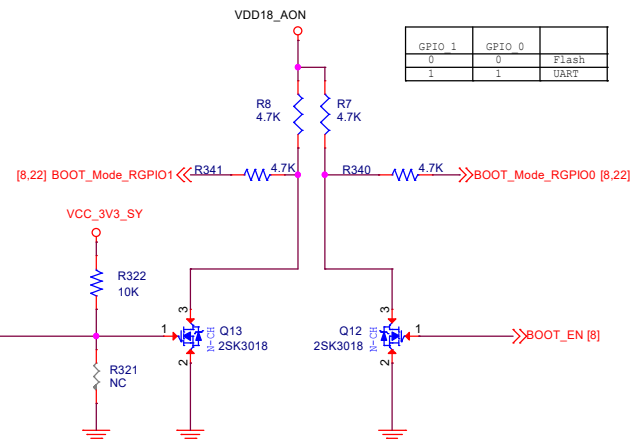
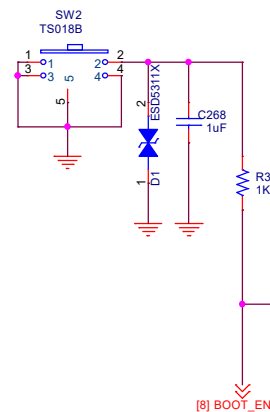
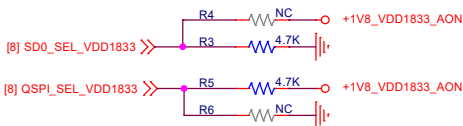
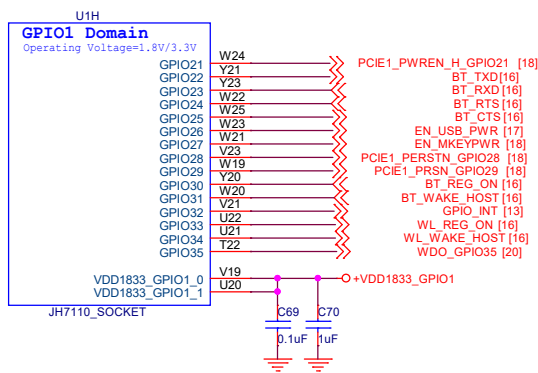
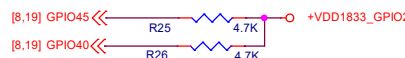
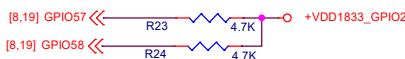
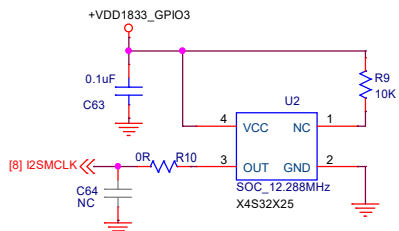




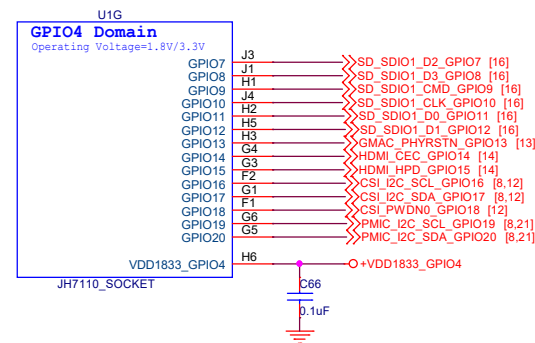




Note:
+VDD1833_SD0=1.8V, SD0_SEL=H.
+VDD1833_SD0=3.3V, SD0_SEL=L.
+VDDQSPI_ADJ=1.8V, QSPI_SEL=H.
+VDDQSPI_ADJ=3.3V, QSPI_SEL=L.



GPIO 1	GPIO 0	
0	0	Flash
1	1	UART



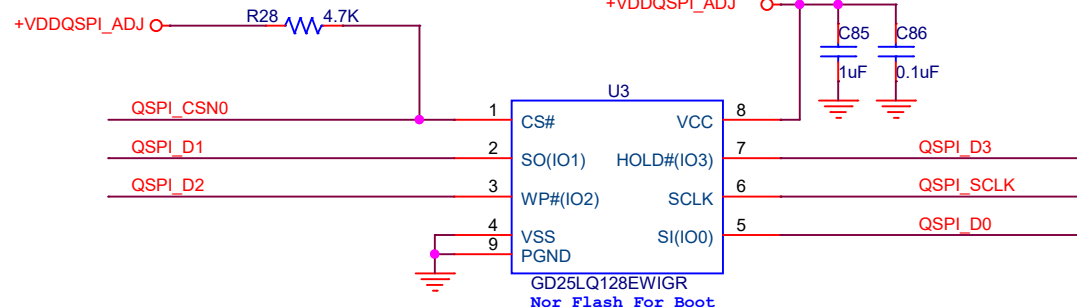
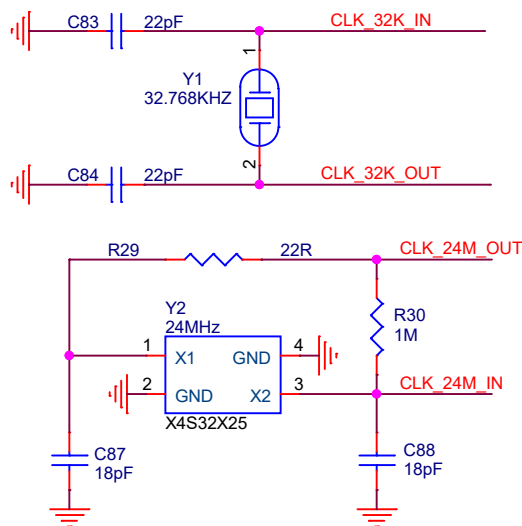
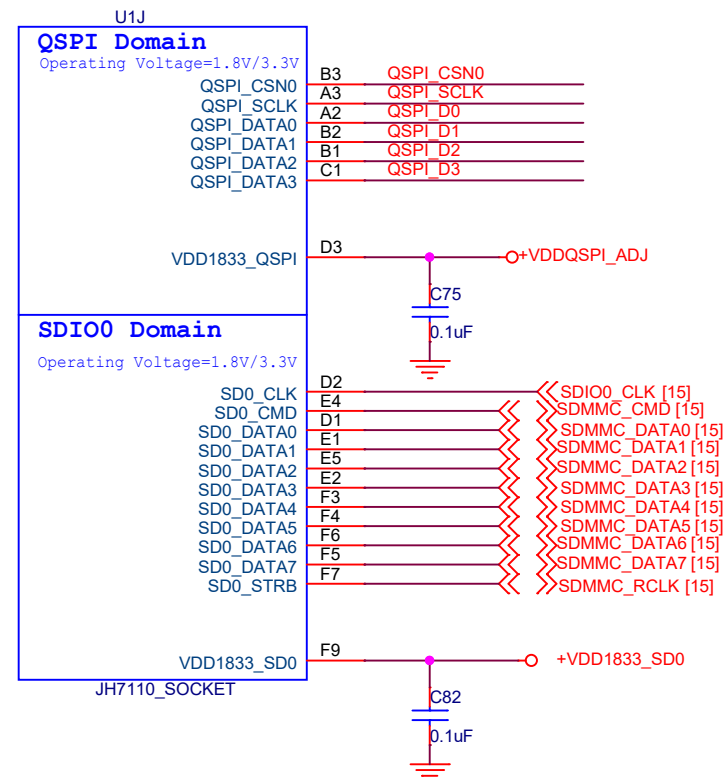
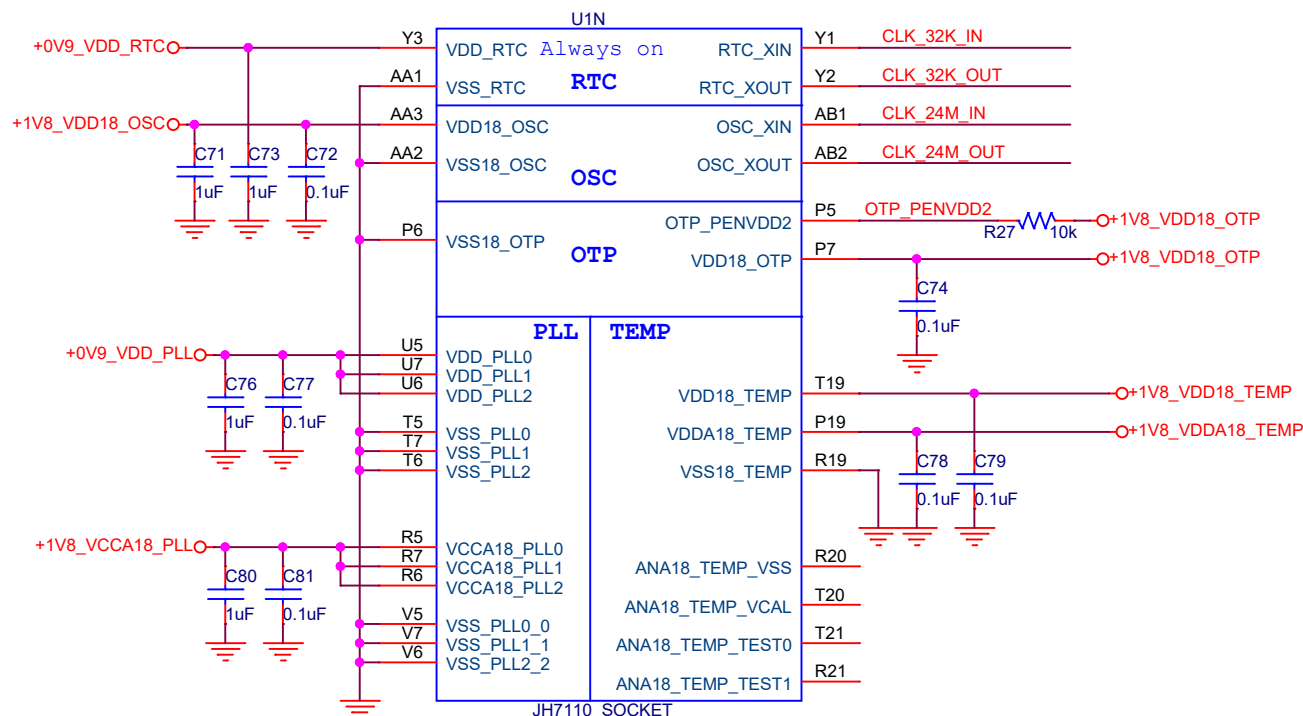
Title
VisionFive 2 Lite

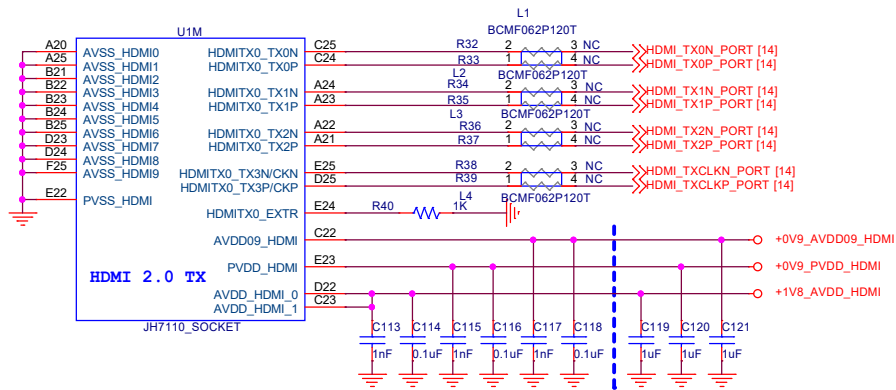
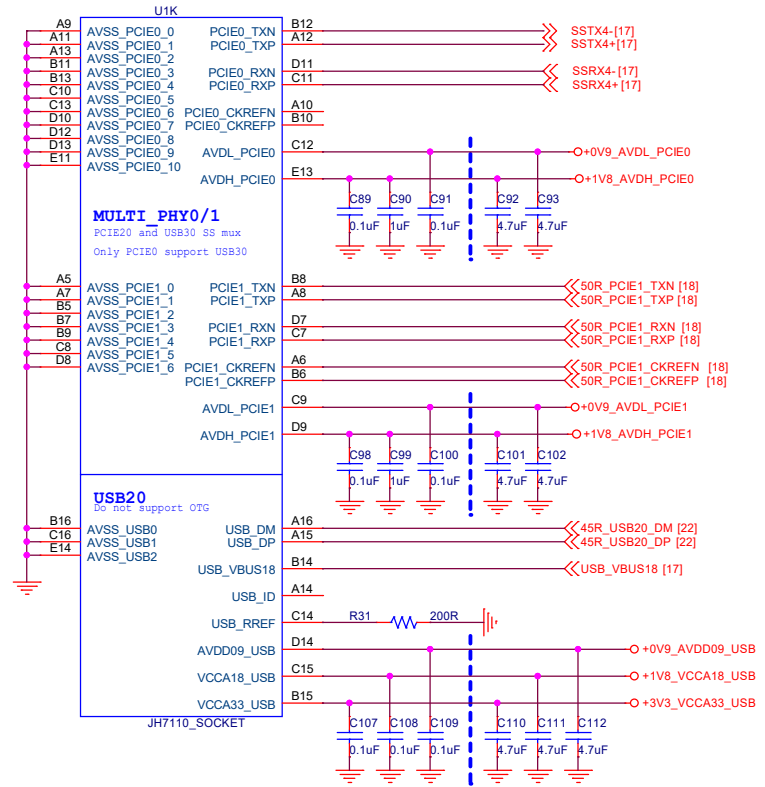
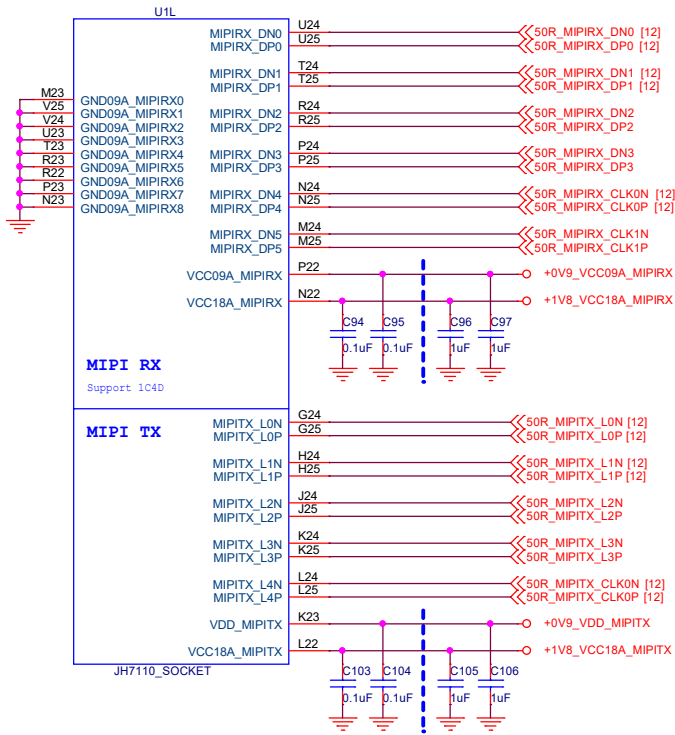
Size
A3

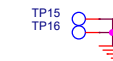
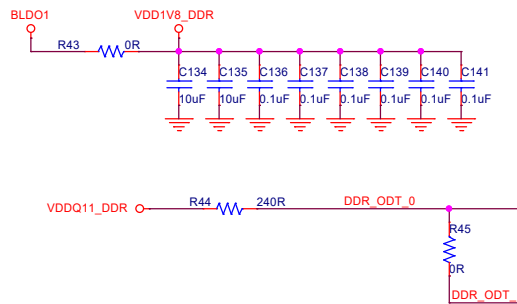
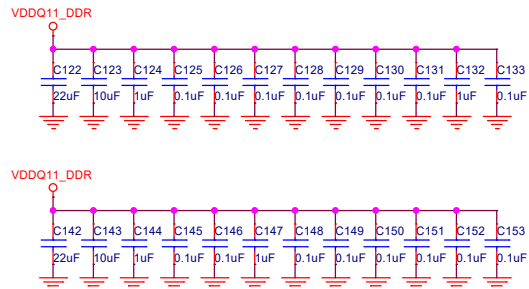
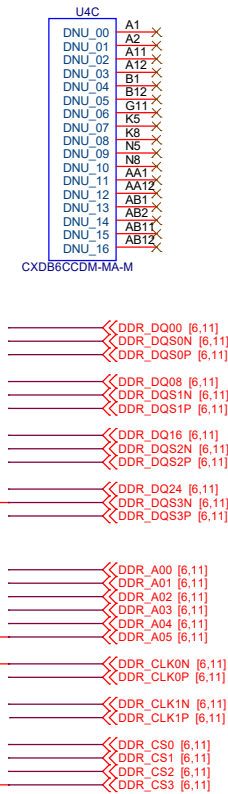
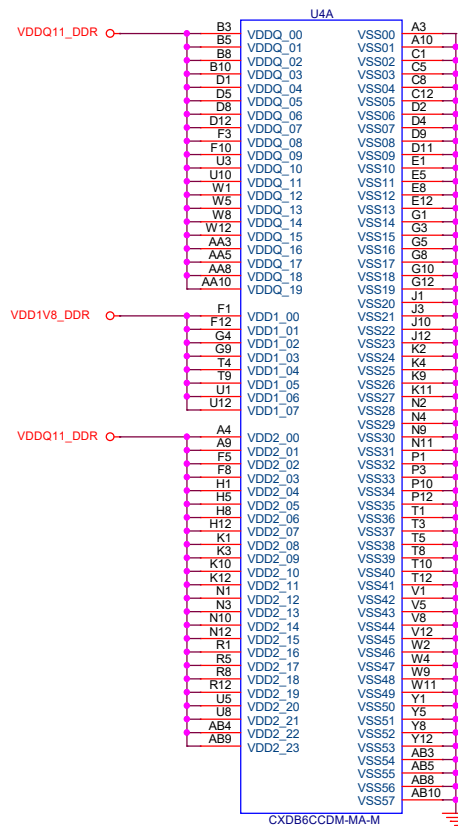
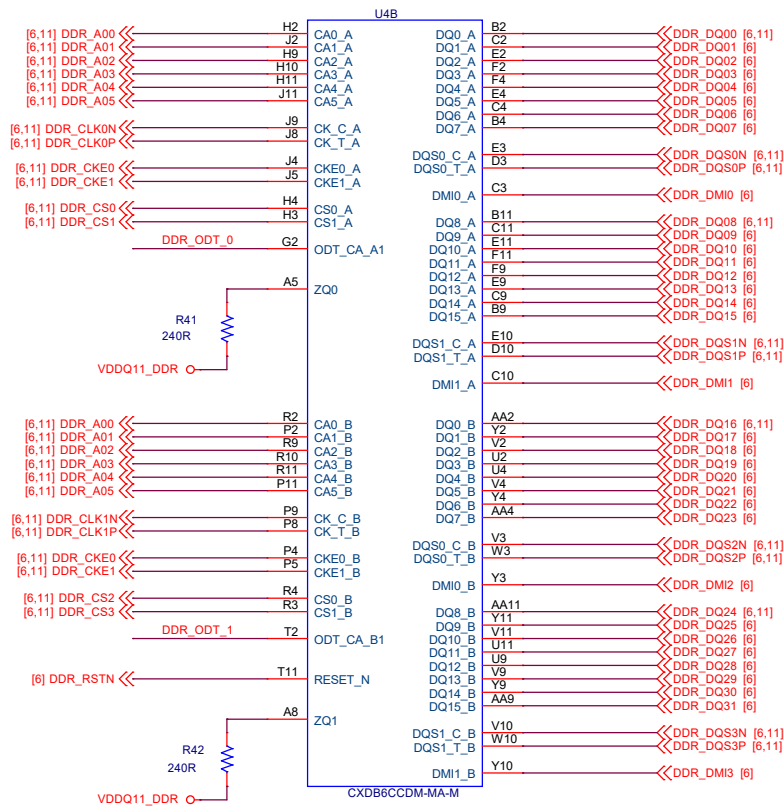
Date: Thursday, July 17, 2025

Sheet 8 of 22

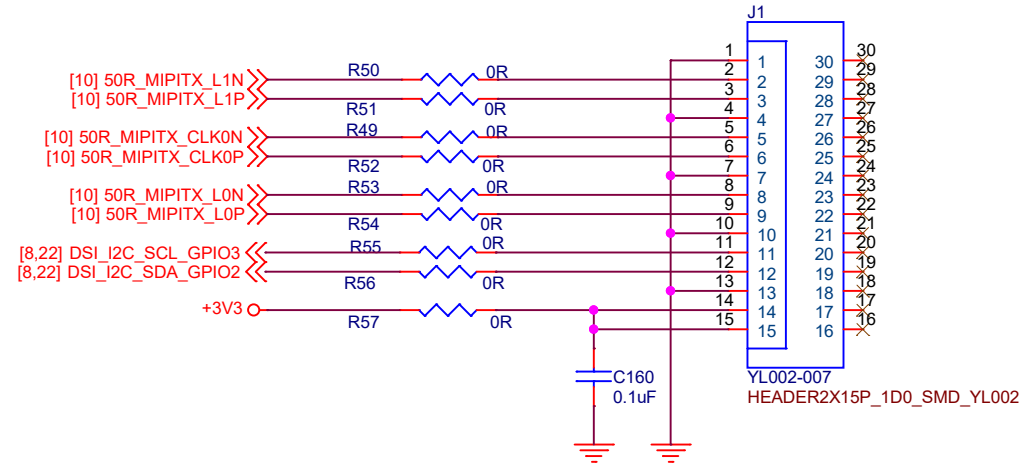
Rev
V01



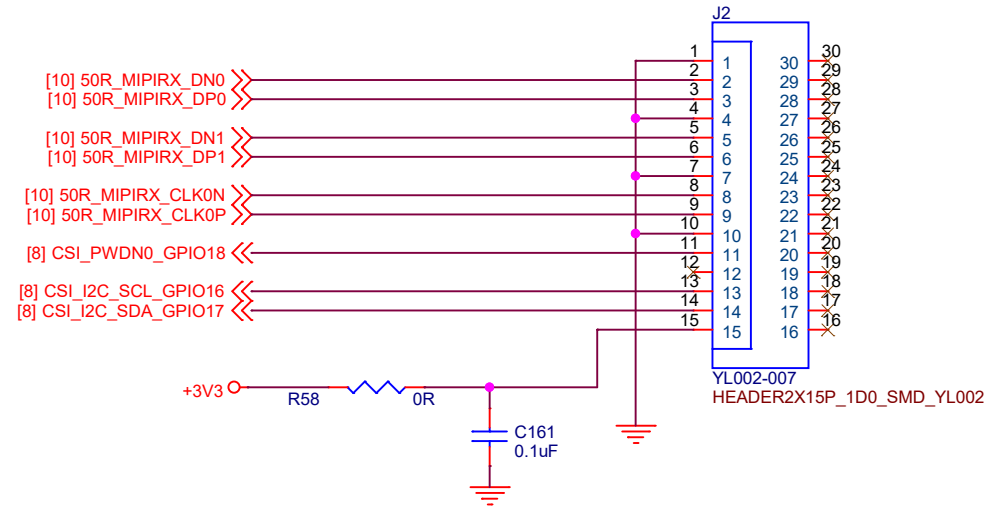




MIPI_TX



MIPI_RX0

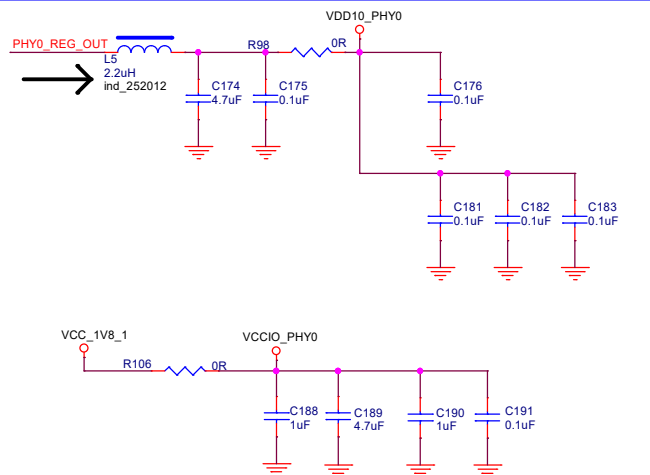
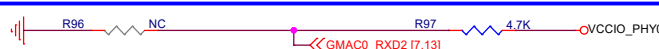
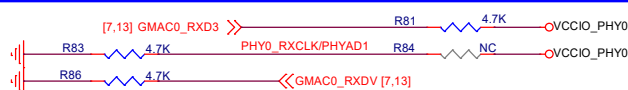
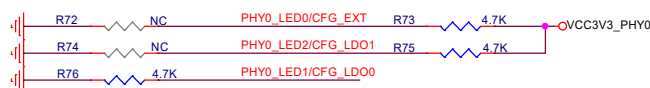
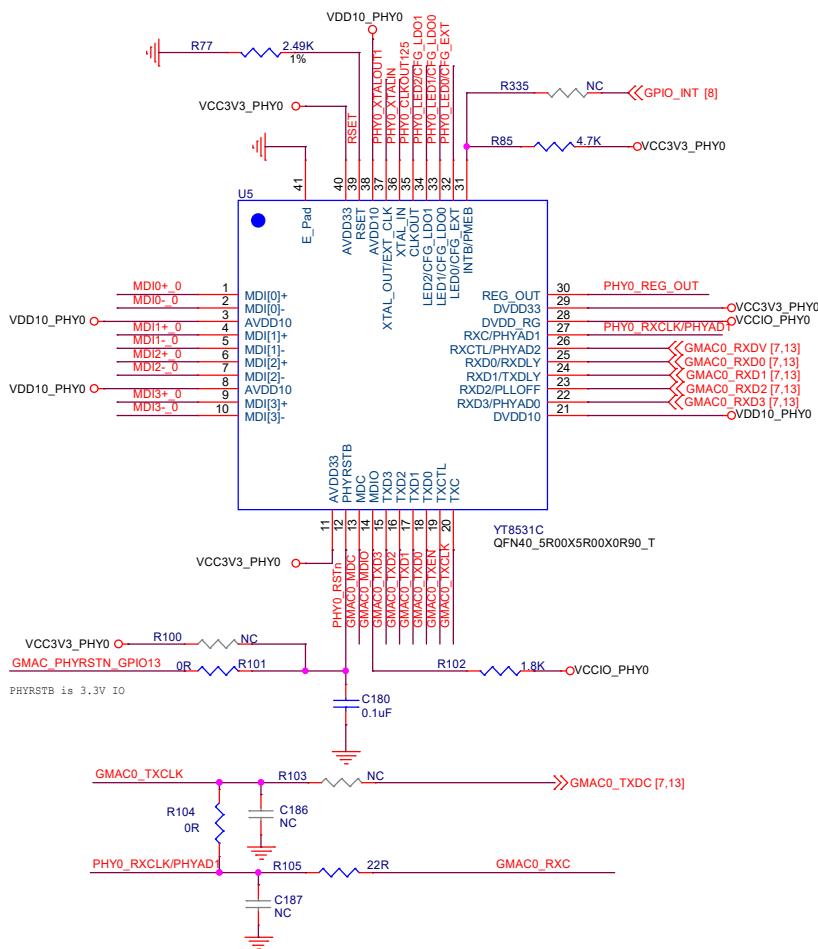
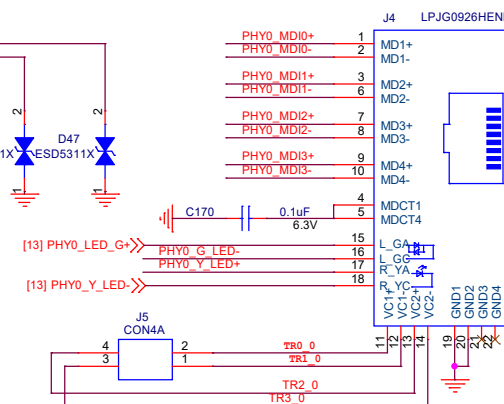
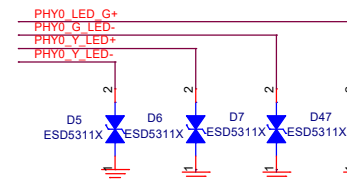
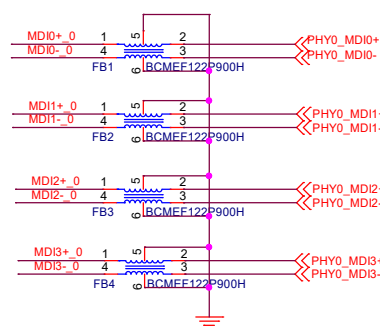
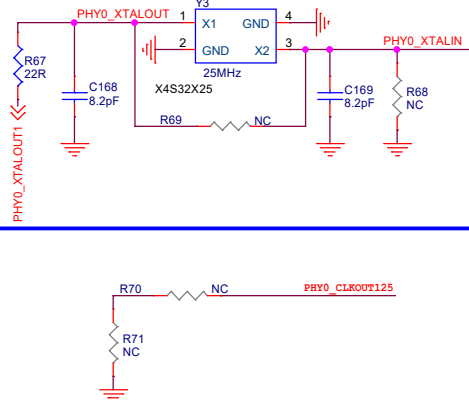


Title
VisionFive 2 Lite

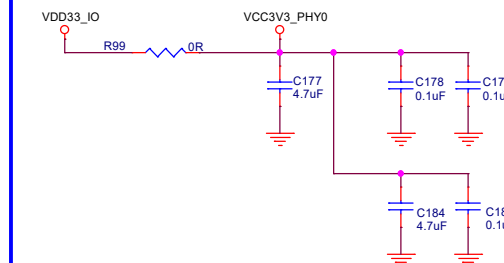
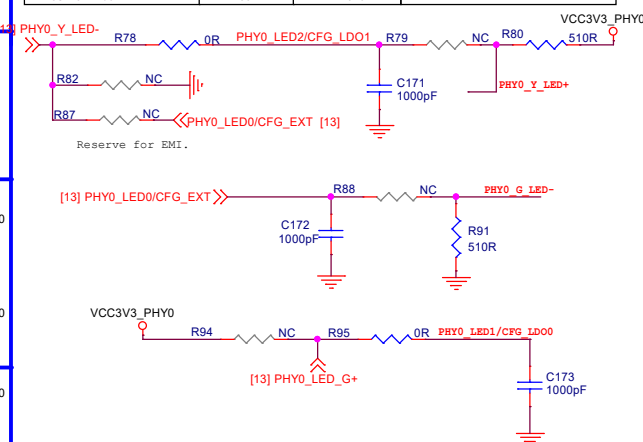
Size	Document Number	Rev
A4	12_MIPI_TX/RX	V01

Date: Thursday, July 17, 2025 Sheet 12 of 22

>>> GMAC0_TXD0 [7]
 >>> GMAC0_TXD1 [7]
 >>> GMAC0_TXD2 [7]
 >>> GMAC0_TXD3 [7]
 >>> GMAC0_TXEN [7]
 >>> GMAC0_TXDC [7,13]
 <<< GMAC0_RXD0 [7,13]
 <<< GMAC0_RXD1 [7,13]
 <<< GMAC0_RXD2 [7,13]
 <<< GMAC0_RXD3 [7,13]
 <<< GMAC0_RXDV [7,13]
 <<< GMAC0_RXC [7]



RGMI1 Power Source	CFG EXT	CFG LDO[1:0]	
External 3.3V	1'b1	2'b00	
External 1.8V (default)	1'b1	2'b10	
Internal 1.8V	1'b0	2'b10	

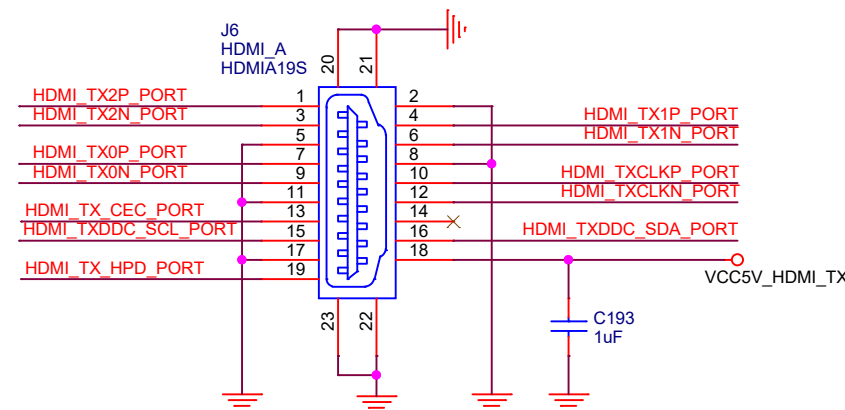
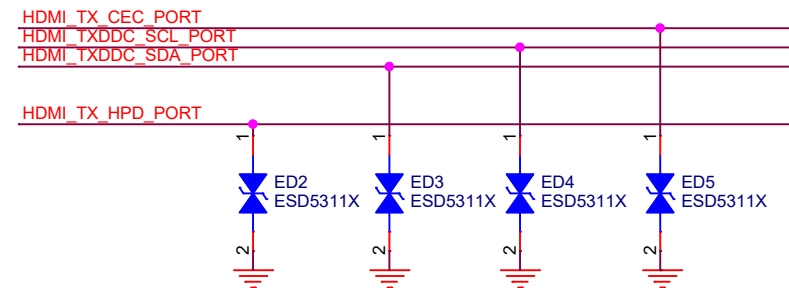
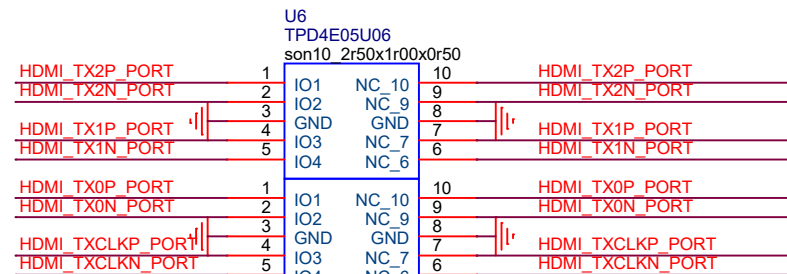
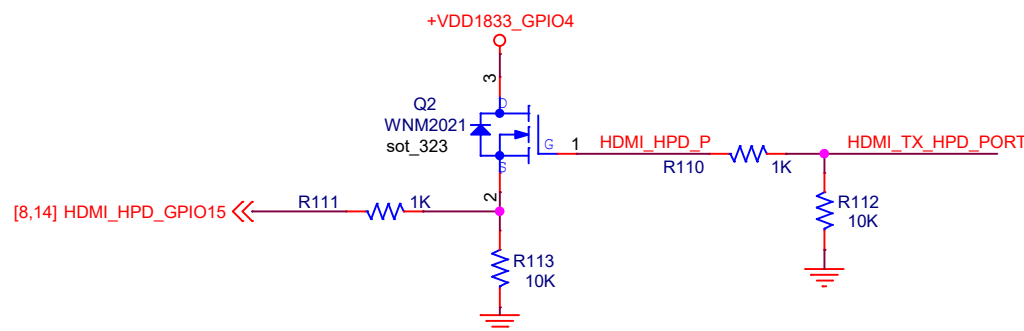
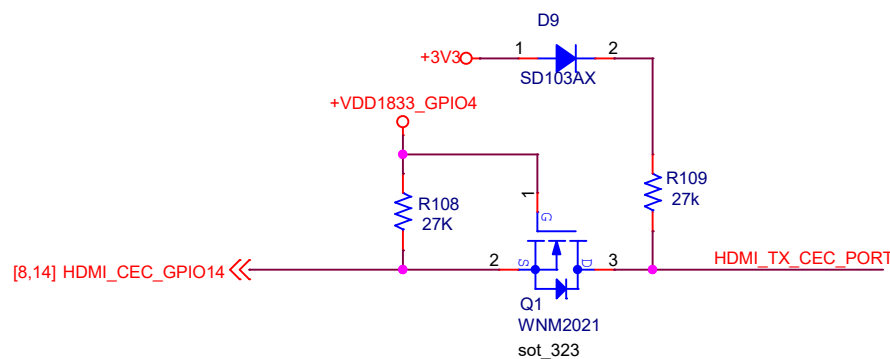
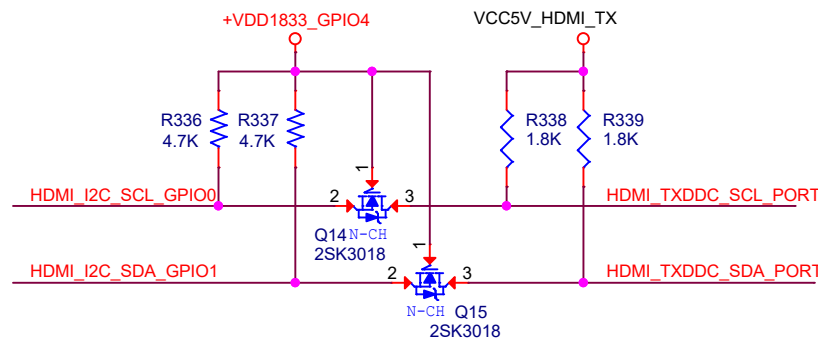
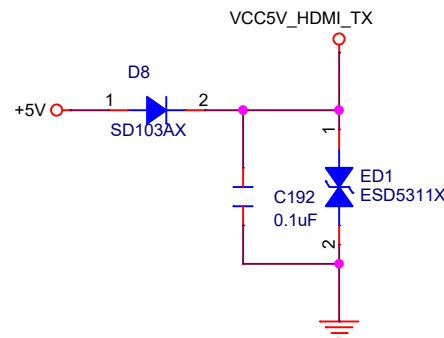


HDMI2.0 TX

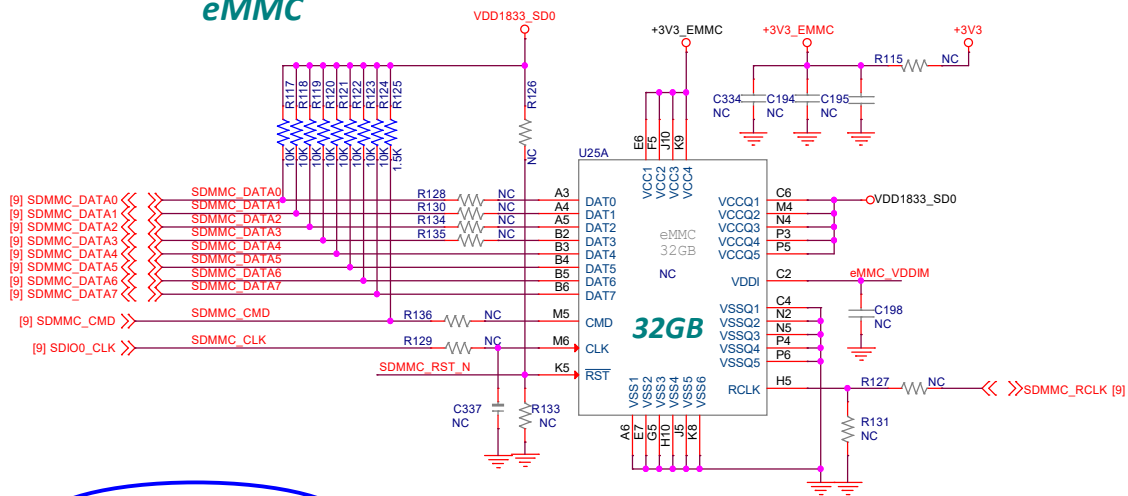
$$C_j \leq 0.4 \text{ pF}$$

[10] HDMI_TX2P_PORT
[10] HDMI_TX2N_PORT
[10] HDMI_TX1P_PORT
[10] HDMI_TX1N_PORT
[10] HDMI_TX0P_PORT
[10] HDMI_TX0N_PORT
[10] HDMI_TXCLKP_PORT
[10] HDMI_TXCLKN_PORT

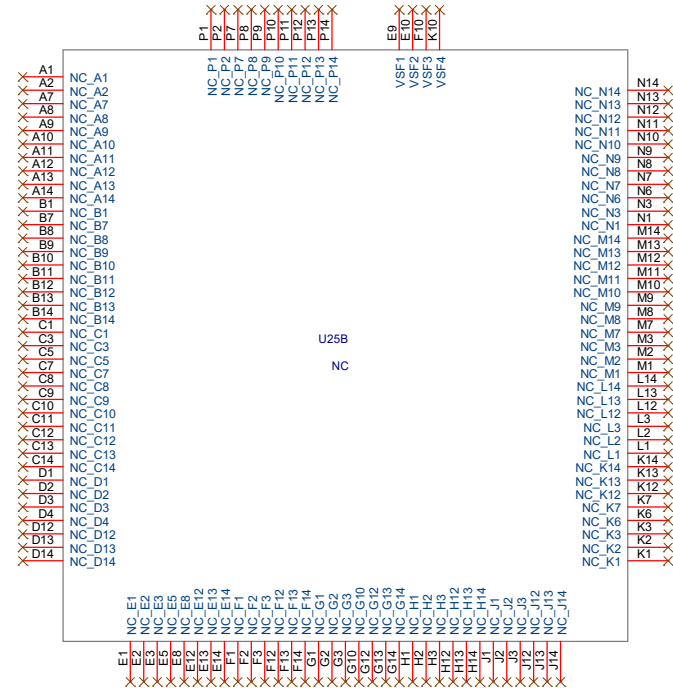
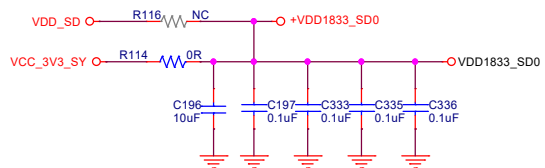
HDMI_I2C_SCL_GPIO0 [8]
HDMI_I2C_SDA_GPIO1 [8]
HDMI_CEC_GPIO14 [8,14]
HDMI_HPD_GPIO15 [8,14]



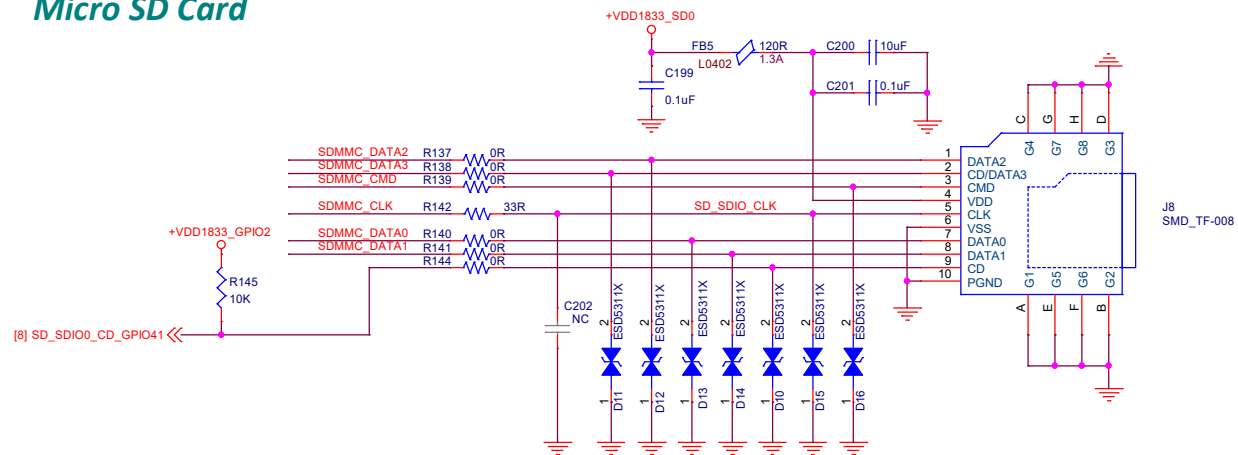
eMMC



NOTE:
Default : 3.3V Power Supply



Micro SD Card

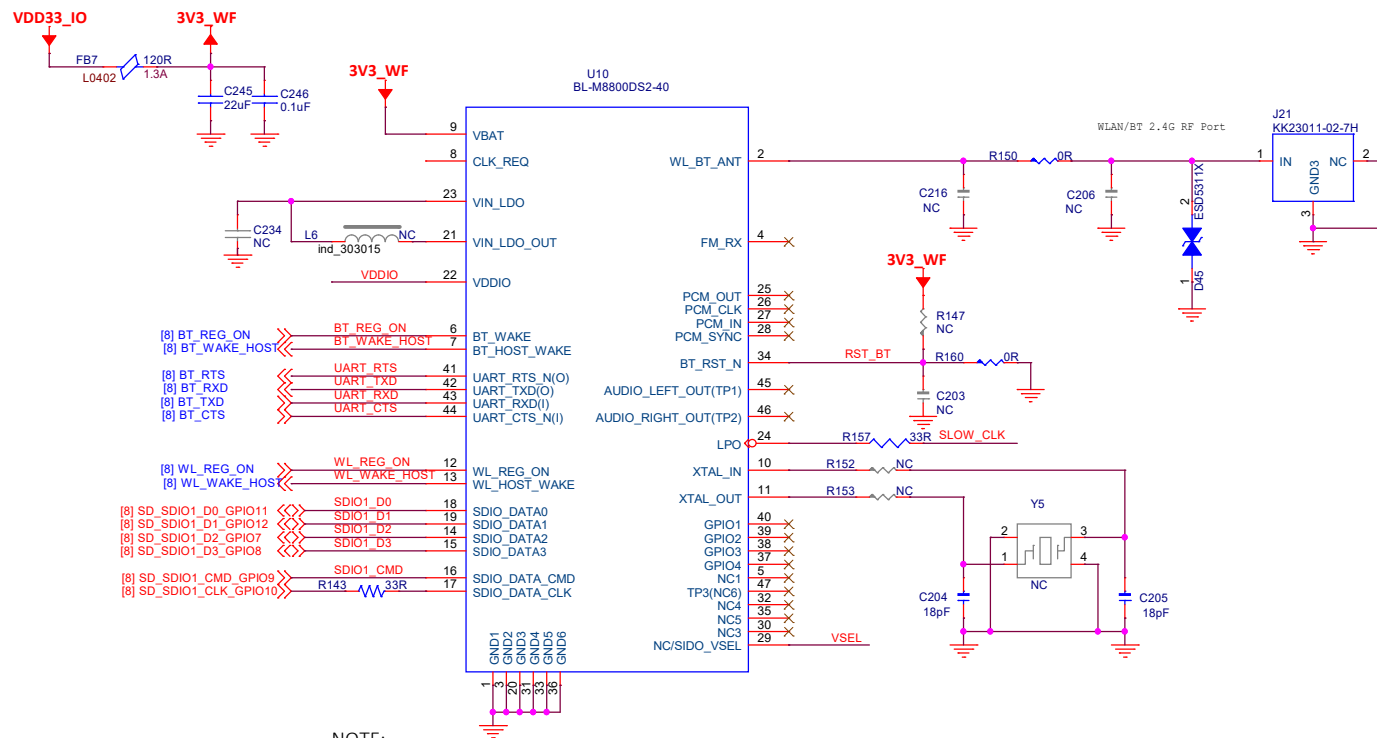


Title	VisionFive 2 Lite
-------	-------------------

Size	Document Number
A3	15_eMMC & SD

Date: Thursday, July 17, 2025 Sheet 15 of 22

Date: Thursday, July 17, 2025 Sheet 15 of 22

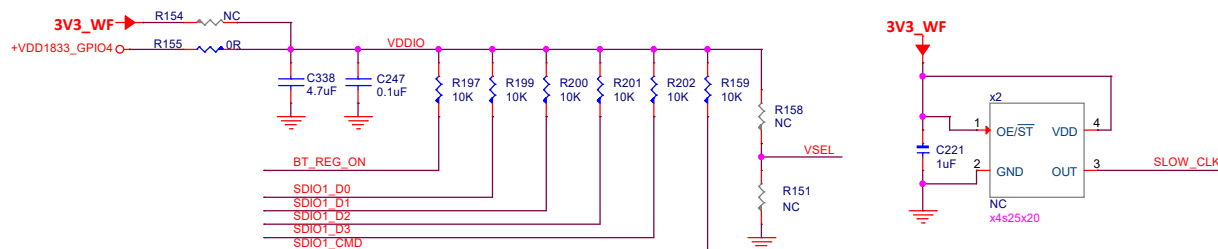


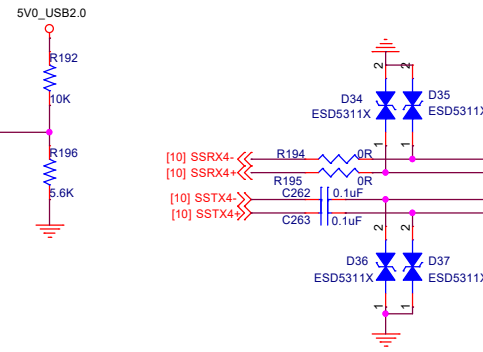
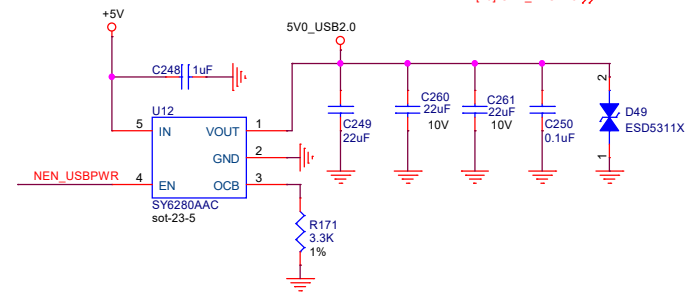
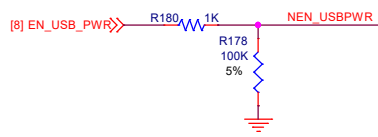
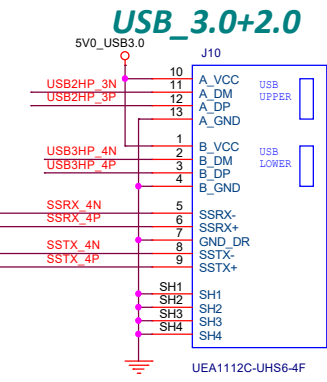
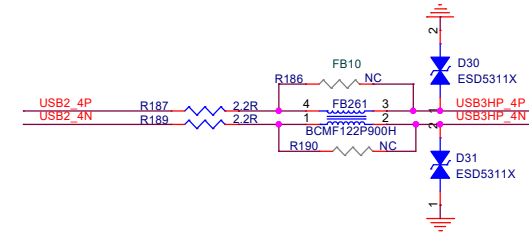
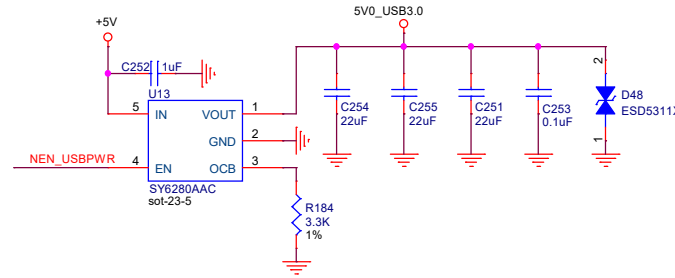
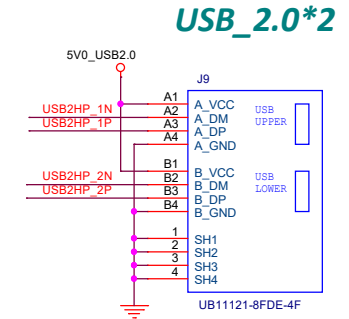
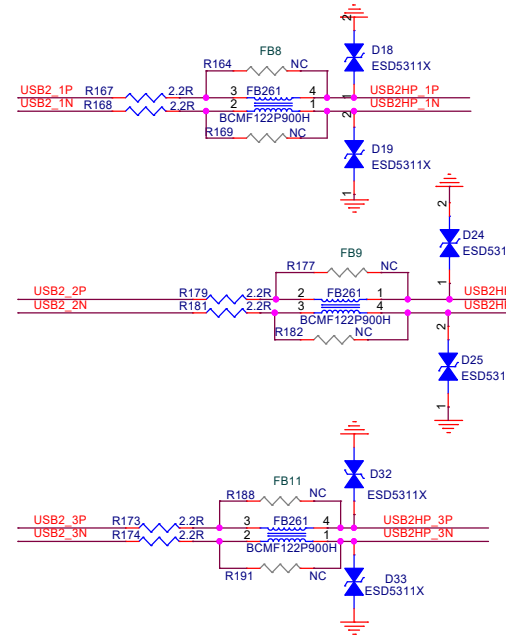
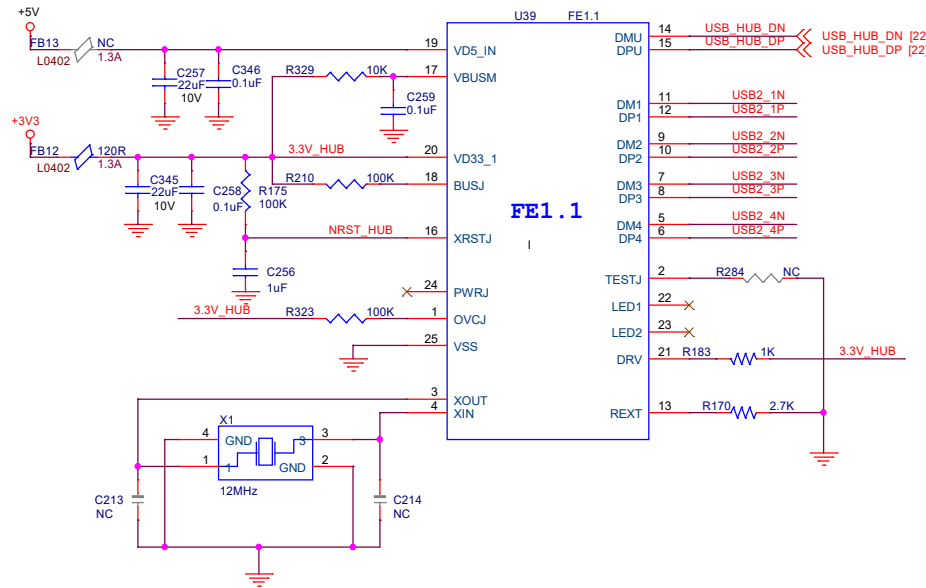
NOTE:

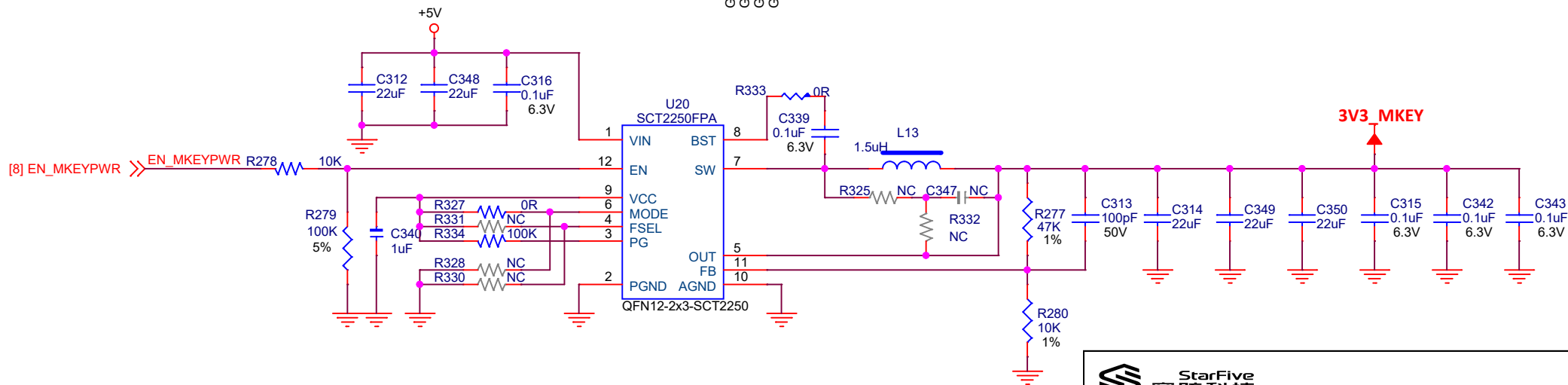
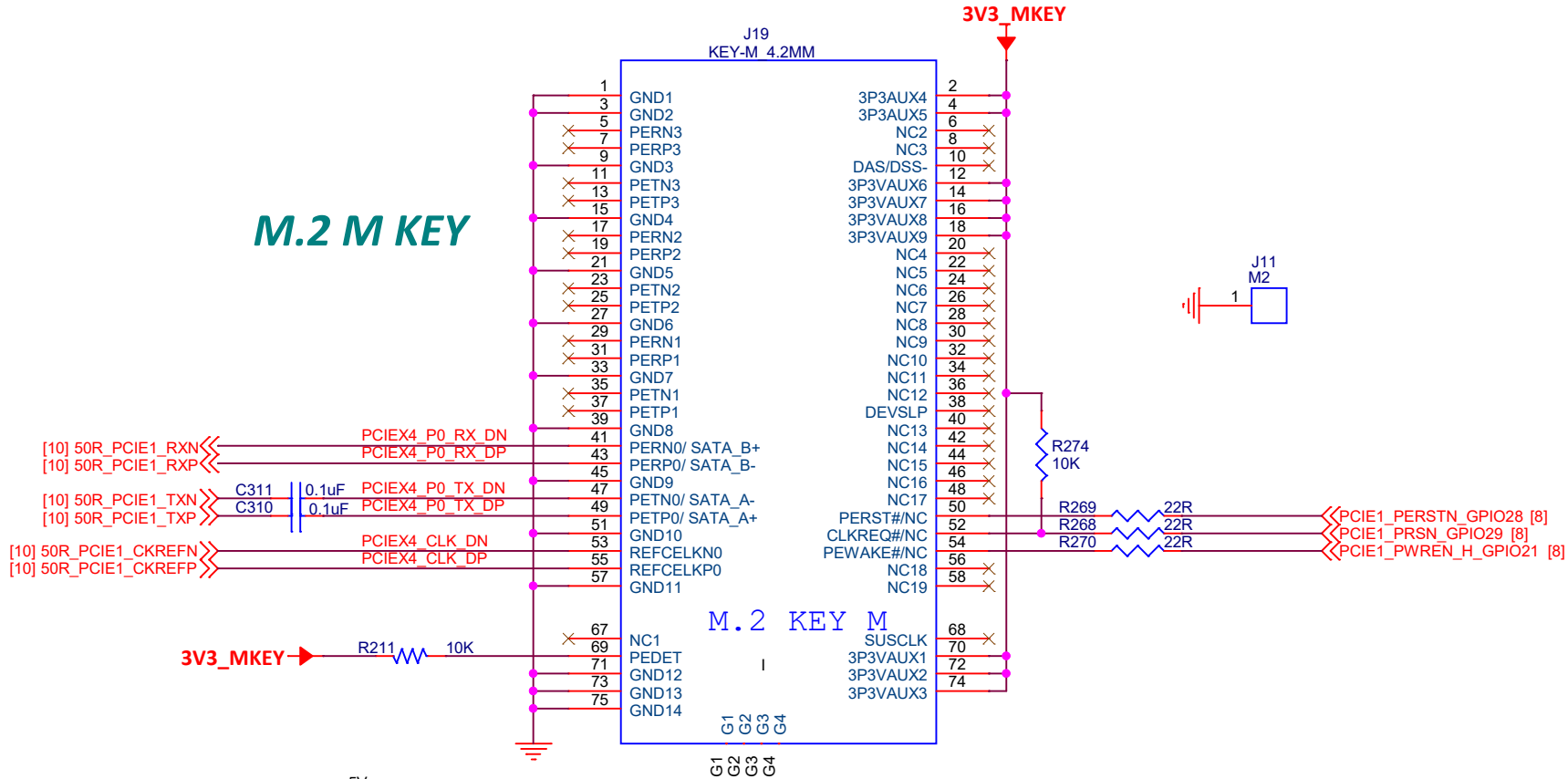
This component share PCB package

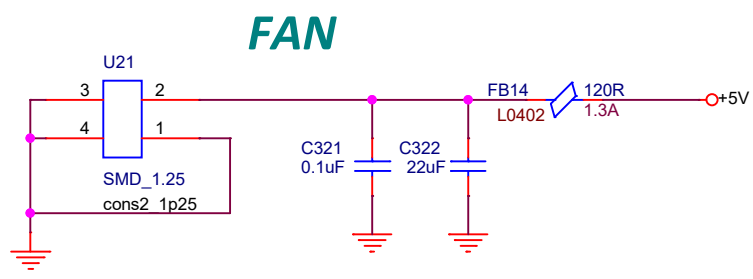
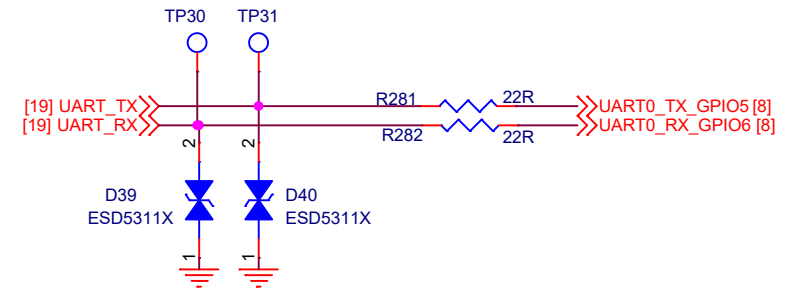
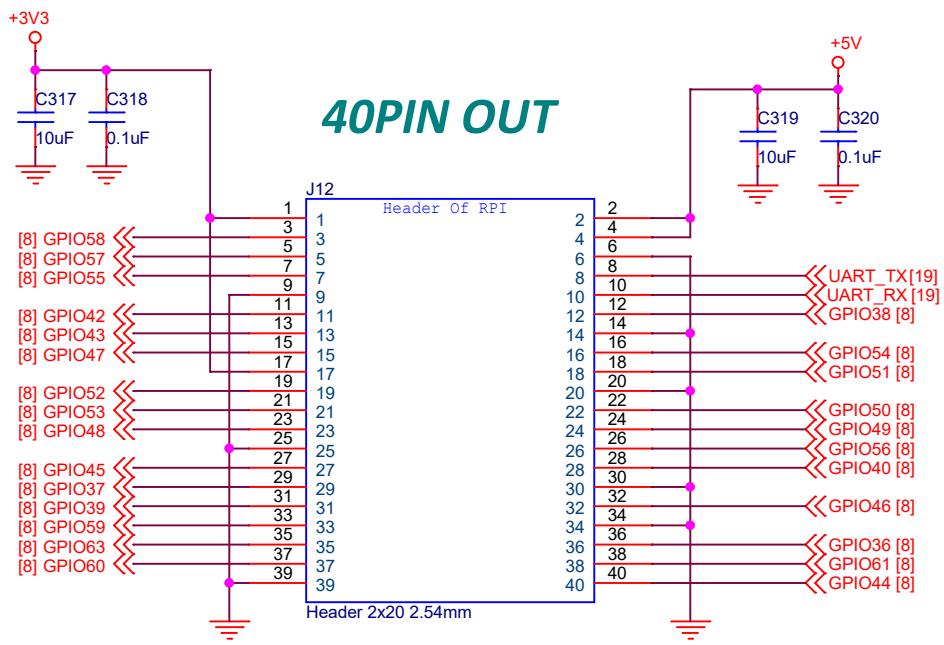
When use AP6256 DNP R160 Populate R147 R152 R153 C203 C234 L6 Y5 X2

When use BL-8800DS2-40 DNP R147 R152 R153 C203 C234 L6 Populate R160 Y5 X2

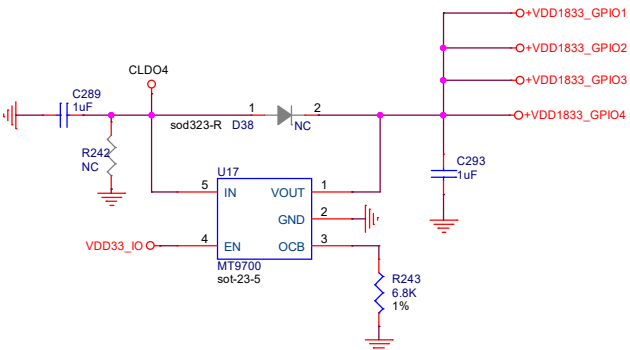
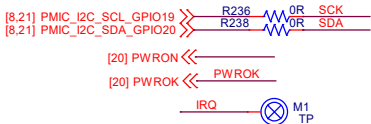




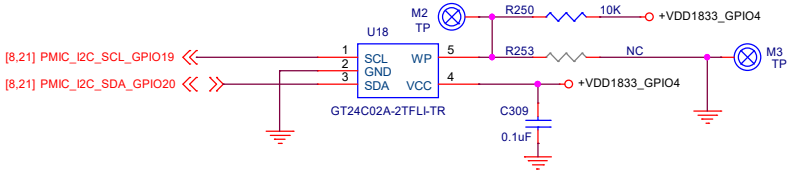
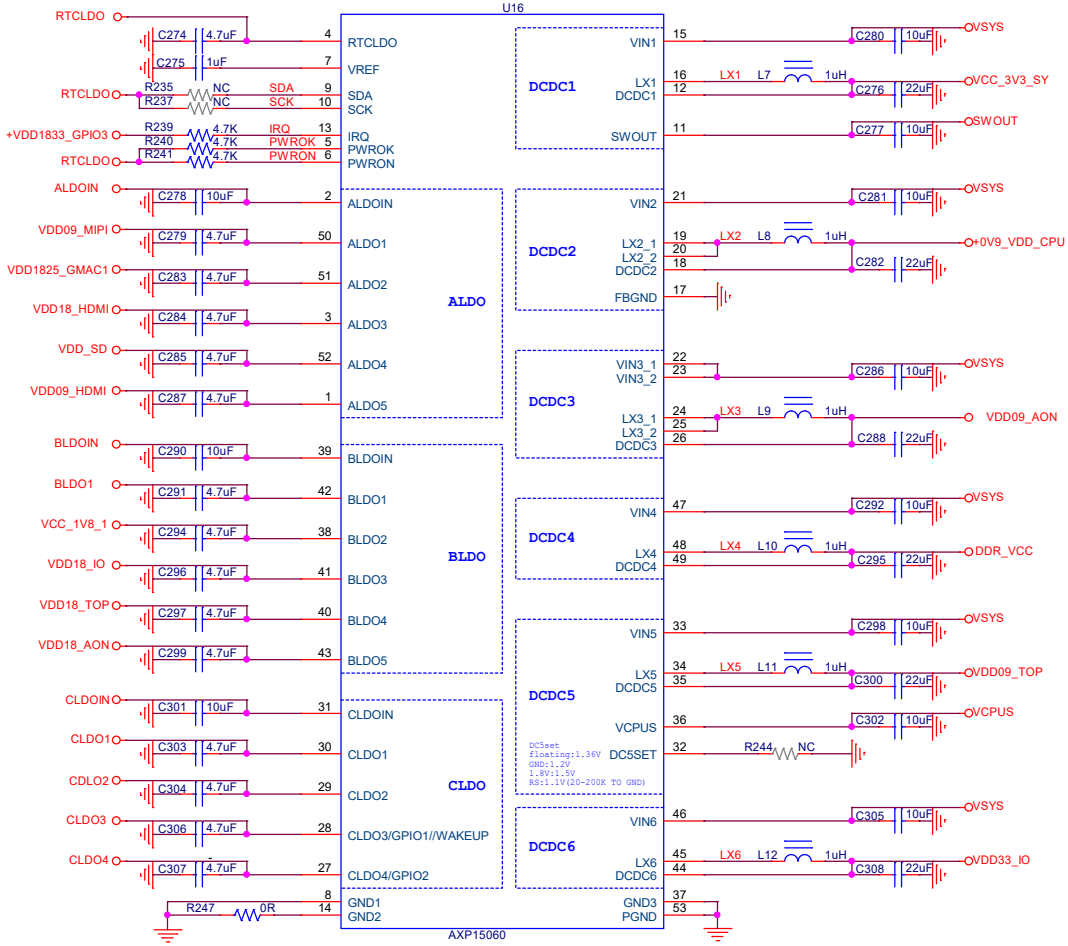
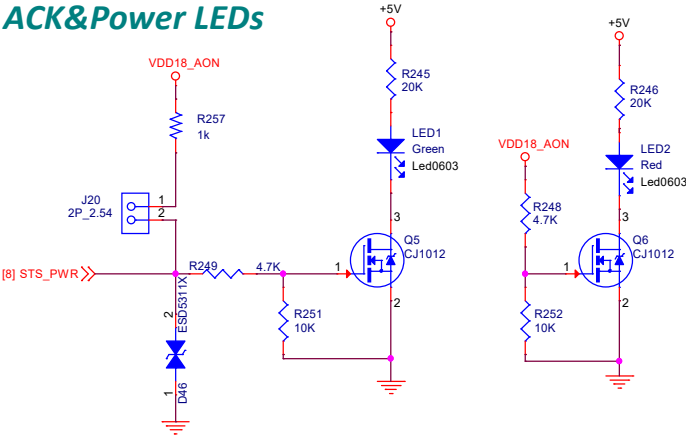




POWER_PMIC



ACK&Power LEDs



Type-C Power

