



VisionFive 2 Lite

Schematic

V1.10

Table of Content:

- 01_COVER
- 02_INDEX & History
- 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

History:

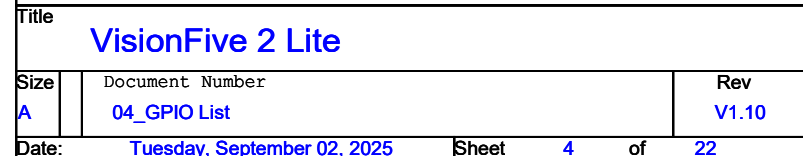
- V1.1:
- 1.Changed USB20 Swtich Selection from RGPIIO0 to GPIO62 on page21;

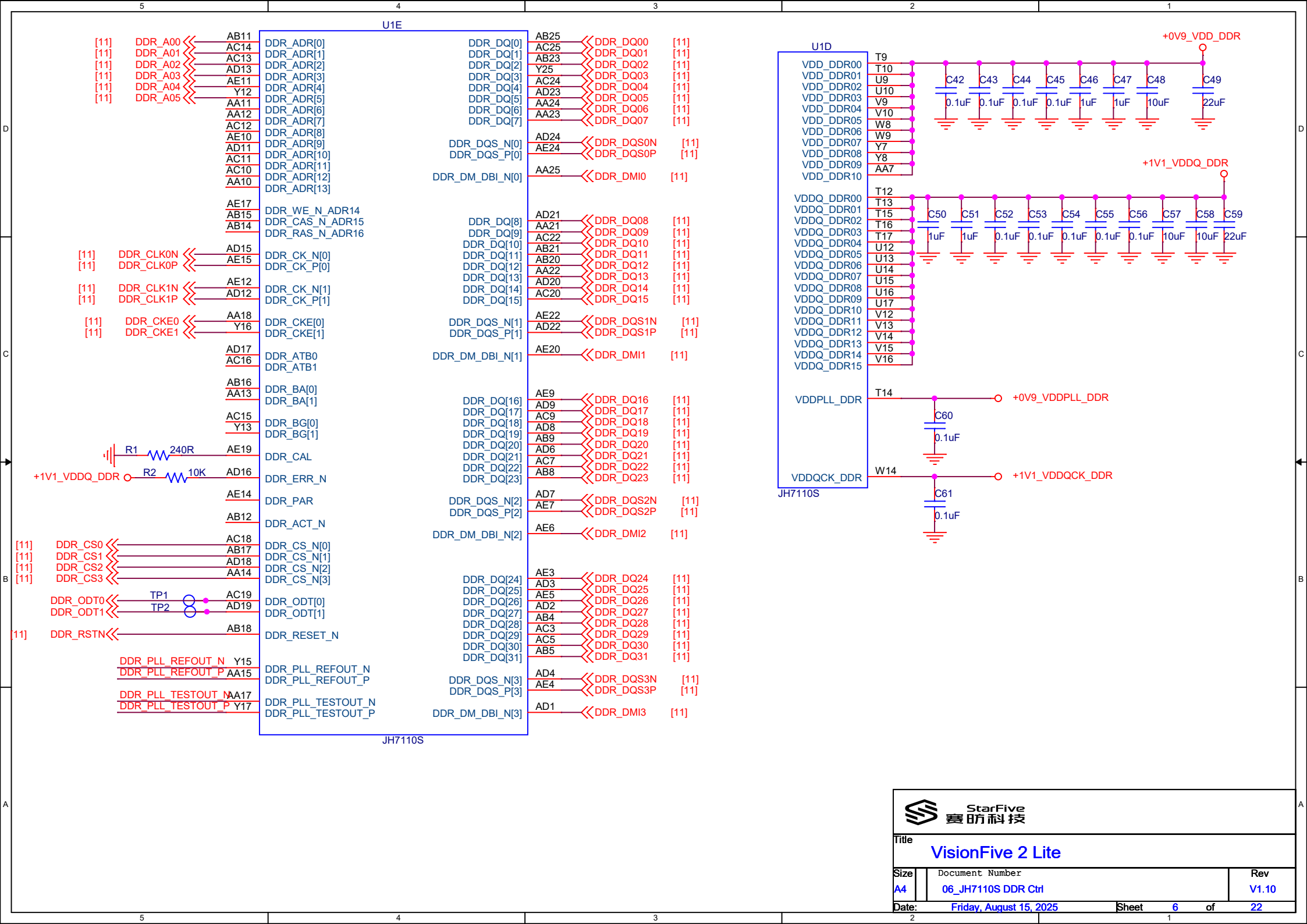
D

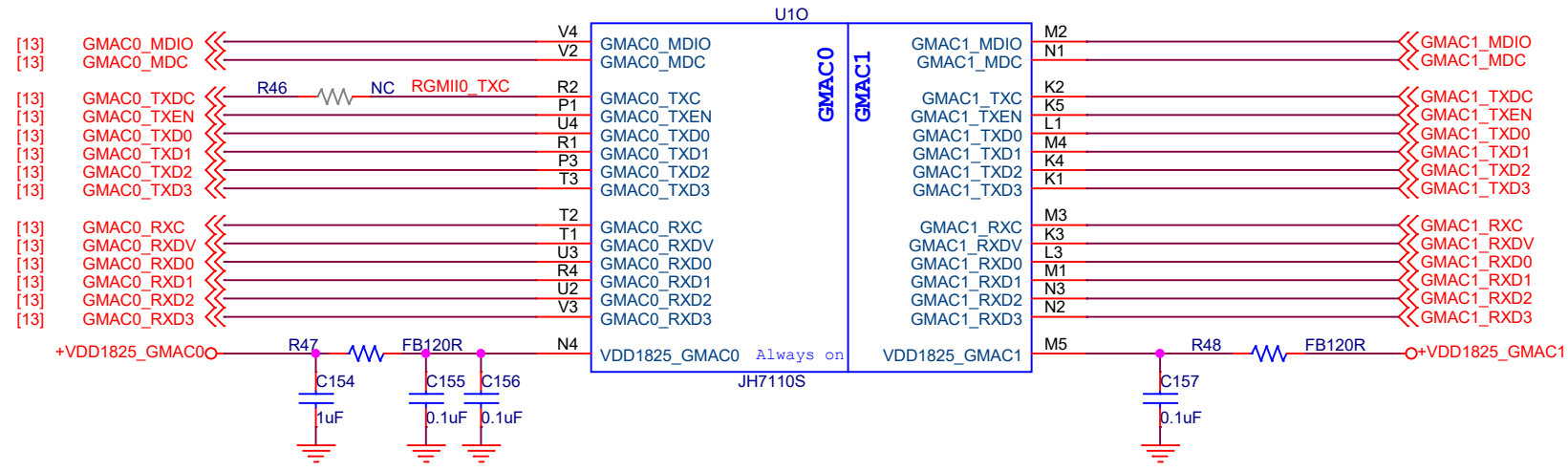
C

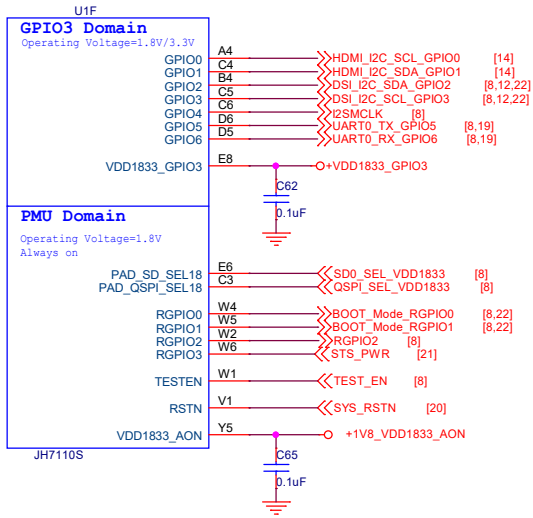
1

1



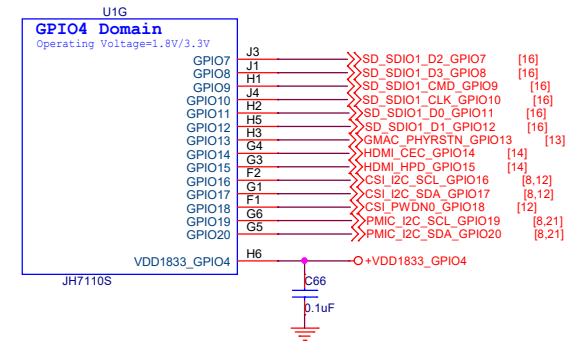
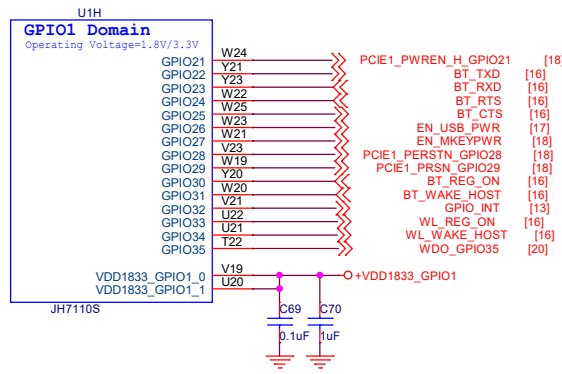
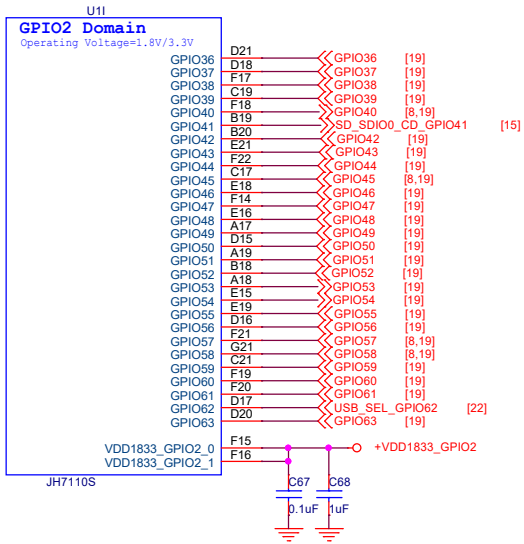
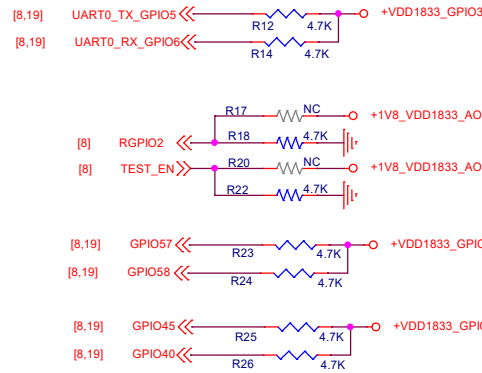
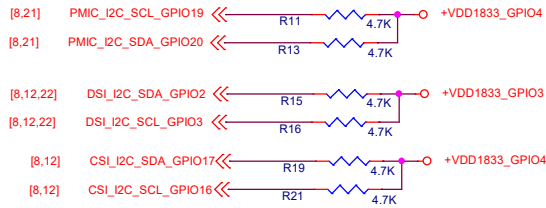
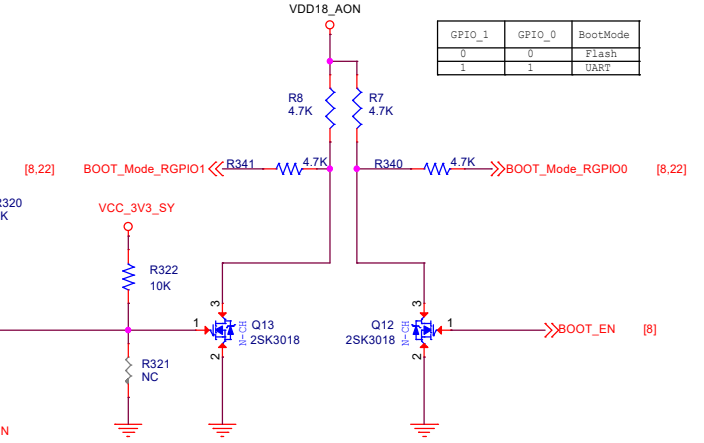
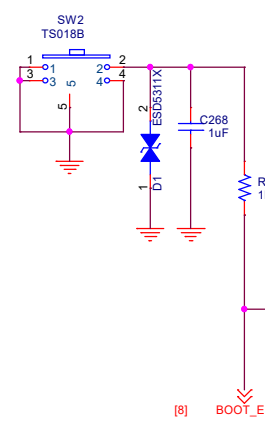
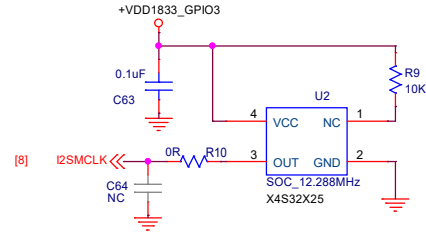






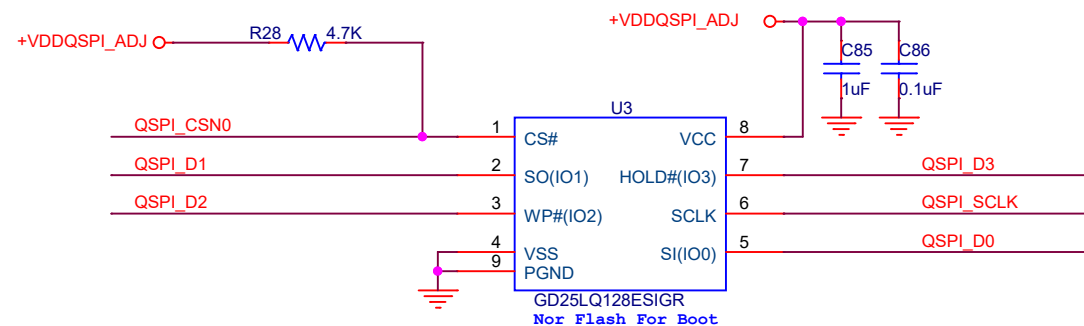
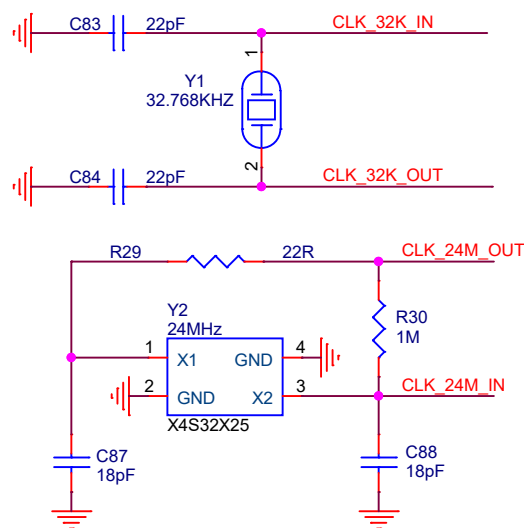
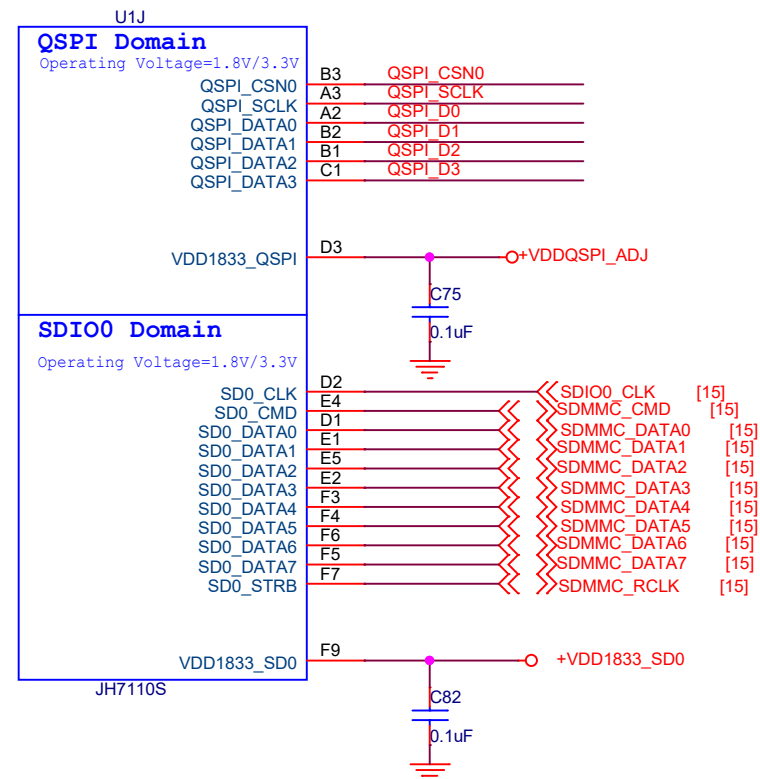
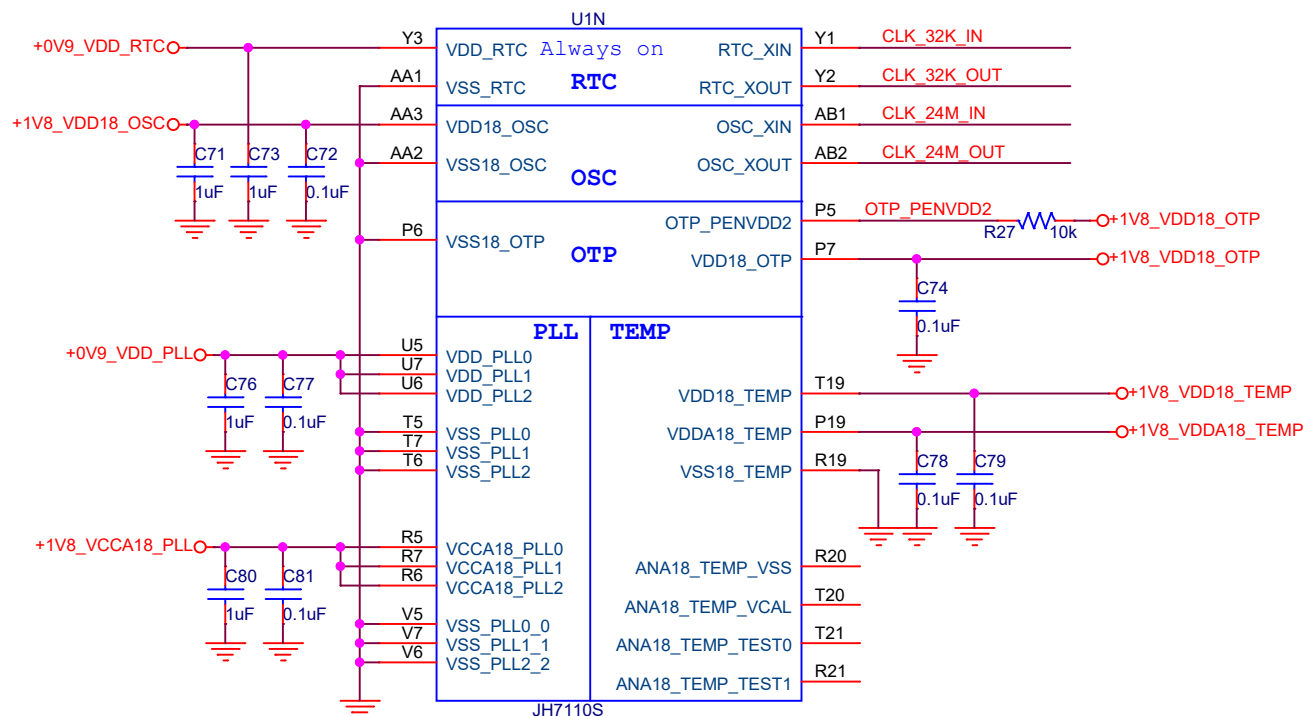
Note:

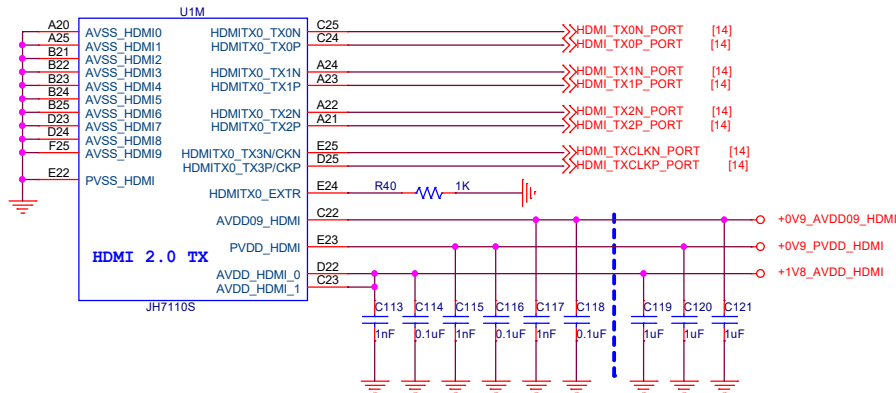
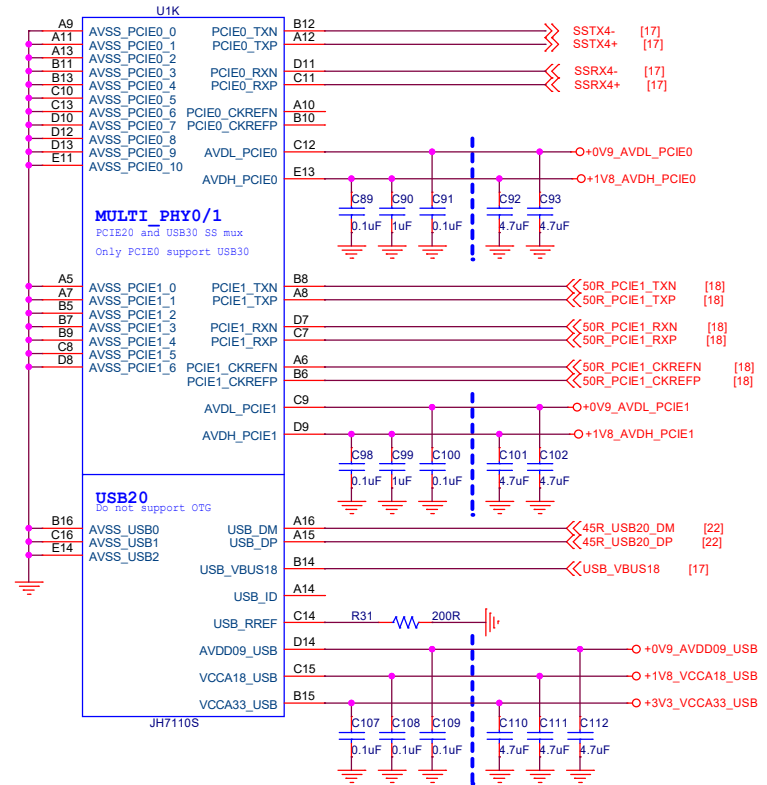
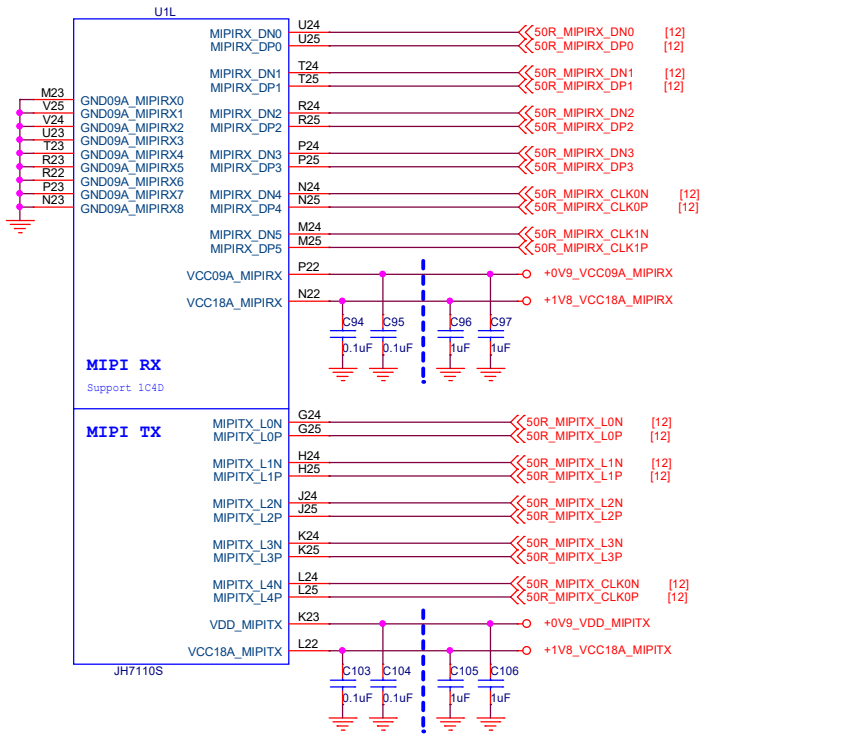
+VDD1833_SD0=1.8V, SD0_SEL=H.
+VDD1833_SD0=3.3V, SD0_SEL=L.
+VDDQSPI_ADJ=1.8V, QSPI_SEL=H.
+VDDQSPI_ADJ=3.3V, QSPI_SEL=L.

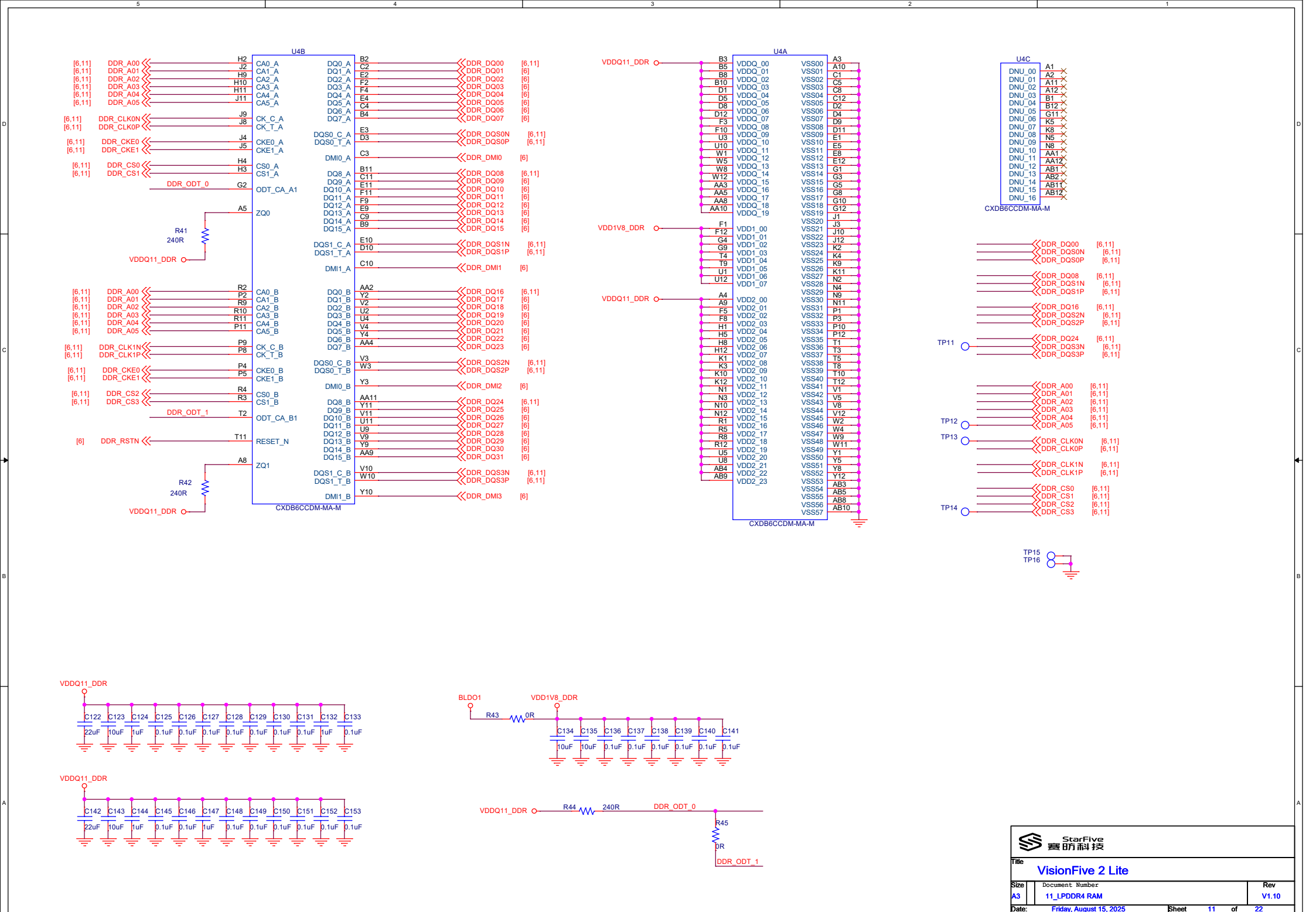


VisionFive 2 Lite

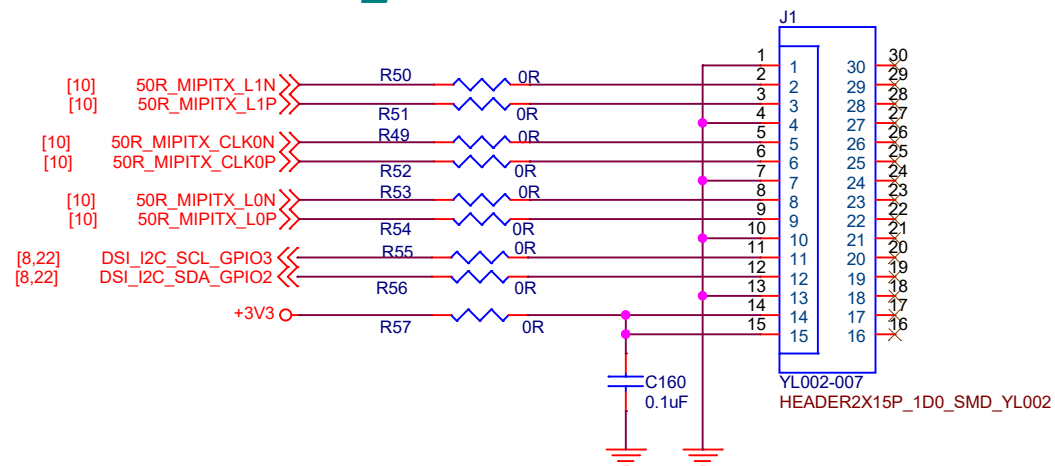
Size	Document Number	Rev
A3	08_JH7110S GPIOs	V1.10
Date:	Wednesday, August 20, 2025	Sheet 8 of 22



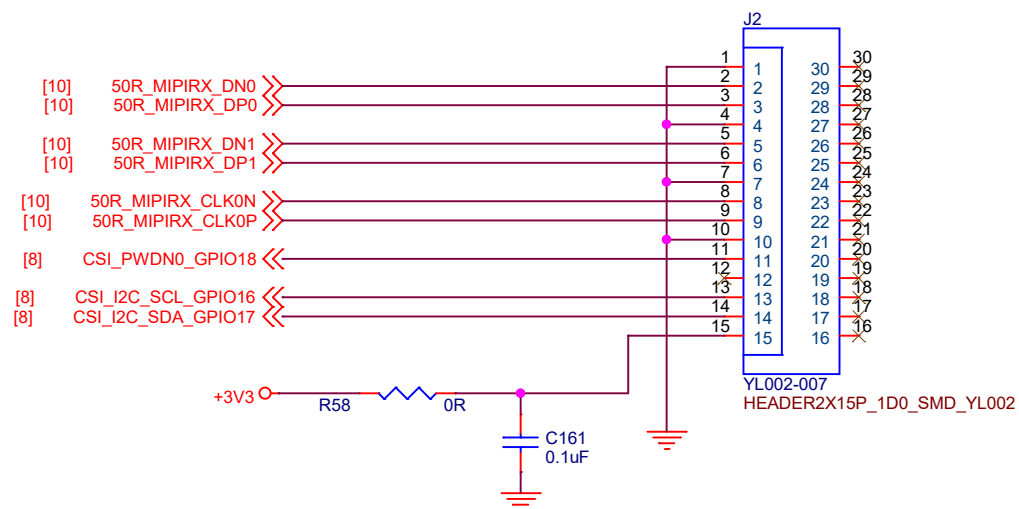




MIPI_TX



MIPI_RX0



Title
VisionFive 2 Lite

Size
A4

Document Number
12_MIPI_TX/RX

Rev
V1.10

Date: **Wednesday, August 20, 2025**

Sheet **12** of **22**

Giga PHY0

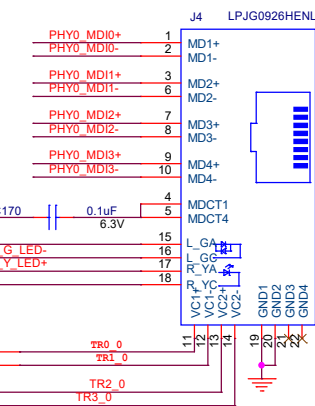
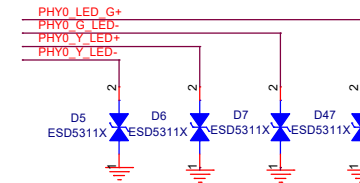
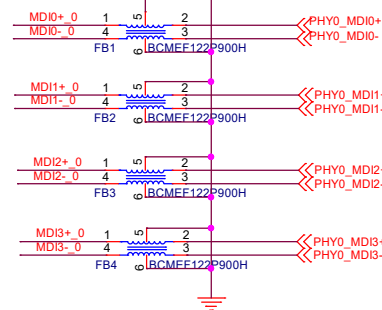
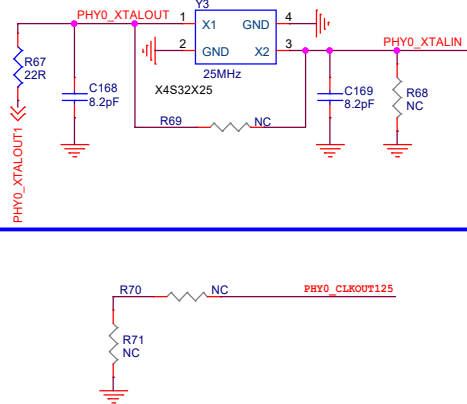
GMAC0_TXD0 [7]
GMAC0_TXD1 [7]
GMAC0_TXD2 [7]
GMAC0_TXD3 [7]
GMAC0_TXEN [7]

GMAC0_TXDC [7,13]
GMAC0_RXD0 [7,13]
GMAC0_RXD1 [7,13]
GMAC0_RXD2 [7,13]
GMAC0_RXD3 [7,13]
GMAC0_RXDV [7,13]

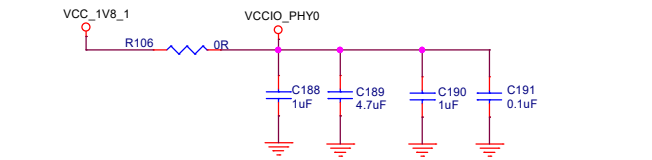
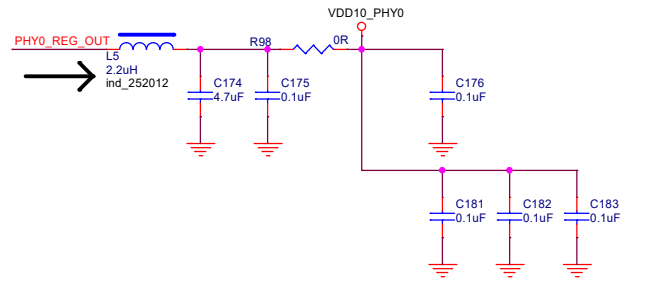
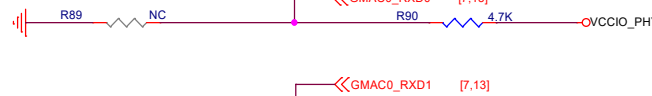
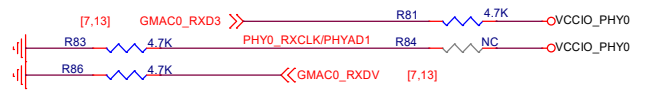
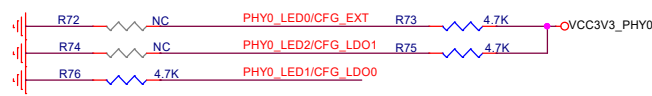
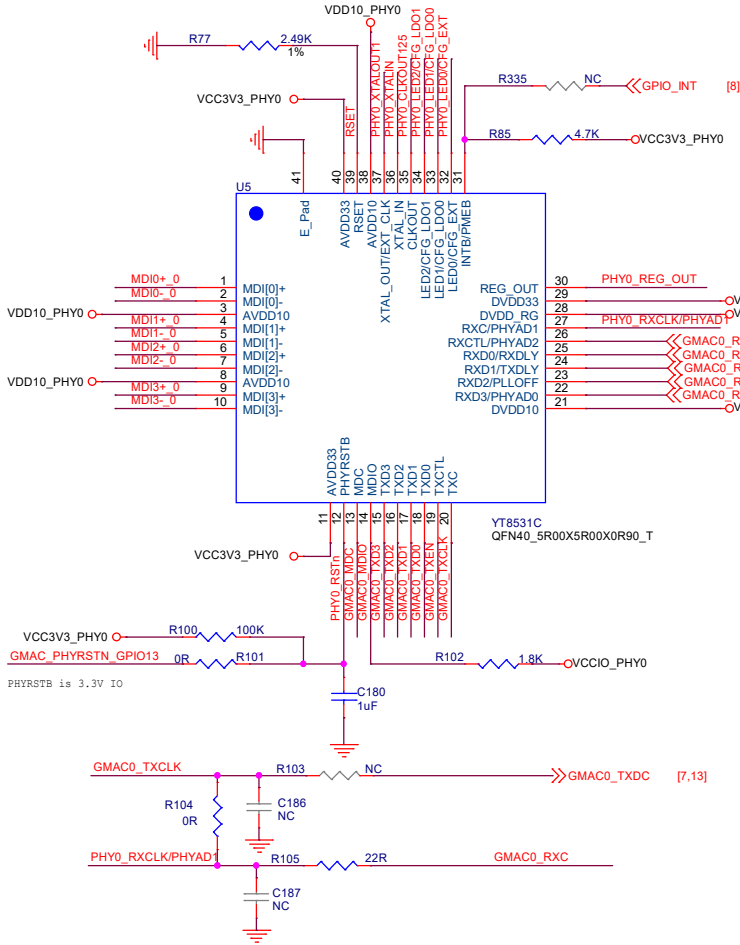
GMAC0_RXC [7]

GMAC0_MDC [7]
GMAC0_MDIO [7]

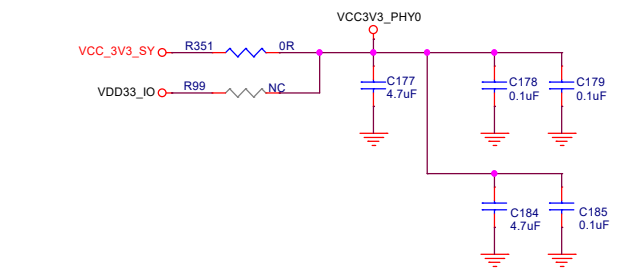
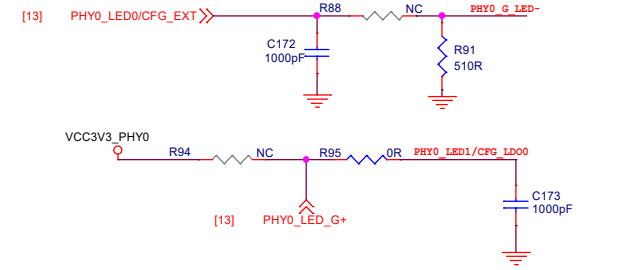
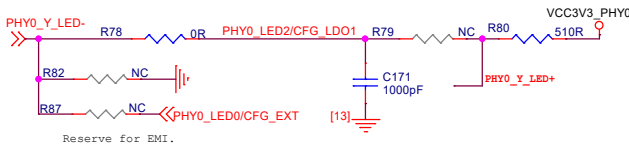
GMAC_PHYRSTN_GPIO13 [8]



[13] PHY0_LED_G+>>
[13] PHY0_LED_Y+>>

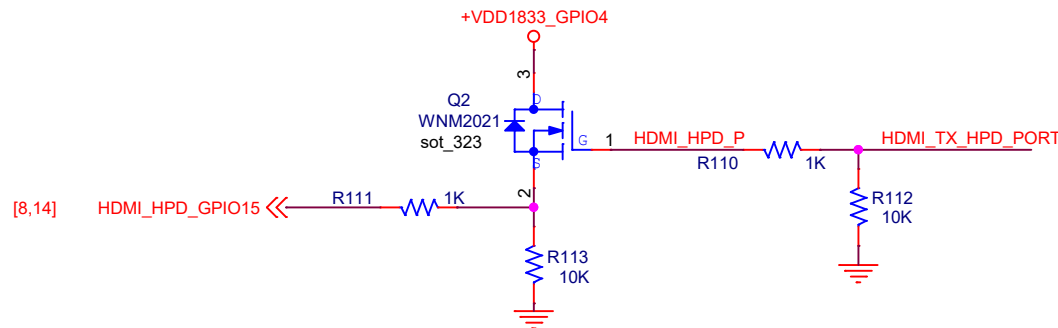
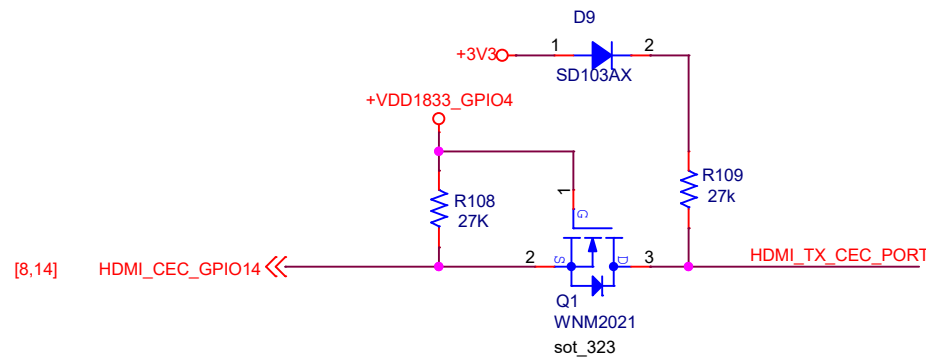
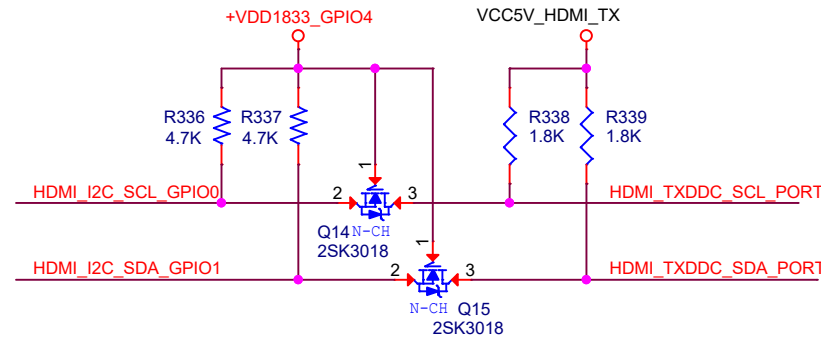
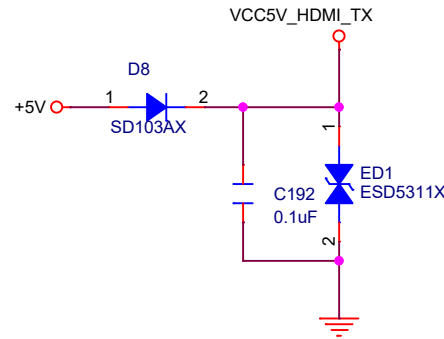


RGMI Power Source	CFG_EXT	CFG_LDO[1:0]	
External 3.3V	1'b1	2'b00	
External 1.8V (default)	1'b1	2'b10	
Internal 1.8V	1'b0	2'b10	



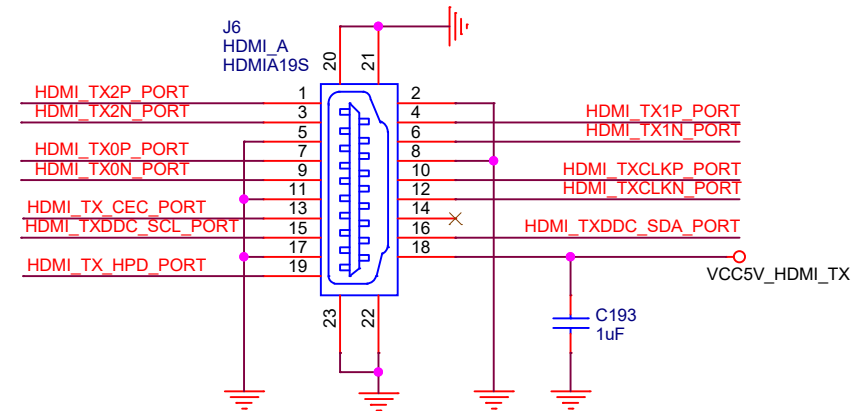
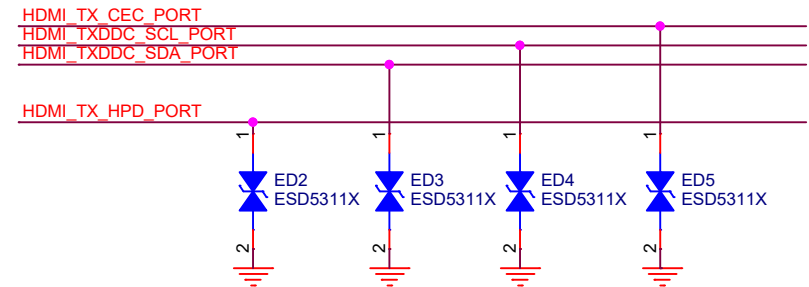
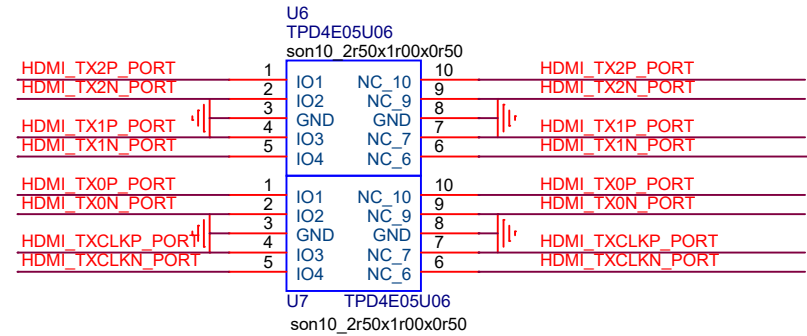
[10] HDMI_TX2P_PORT
[10] HDMI_TX2N_PORT
[10] HDMI_TX1P_PORT
[10] HDMI_TX1N_PORT
[10] HDMI_TX0P_PORT
[10] HDMI_TX0N_PORT
[10] HDMI_TXCLKP_PORT
[10] HDMI_TXCLKN_PORT

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

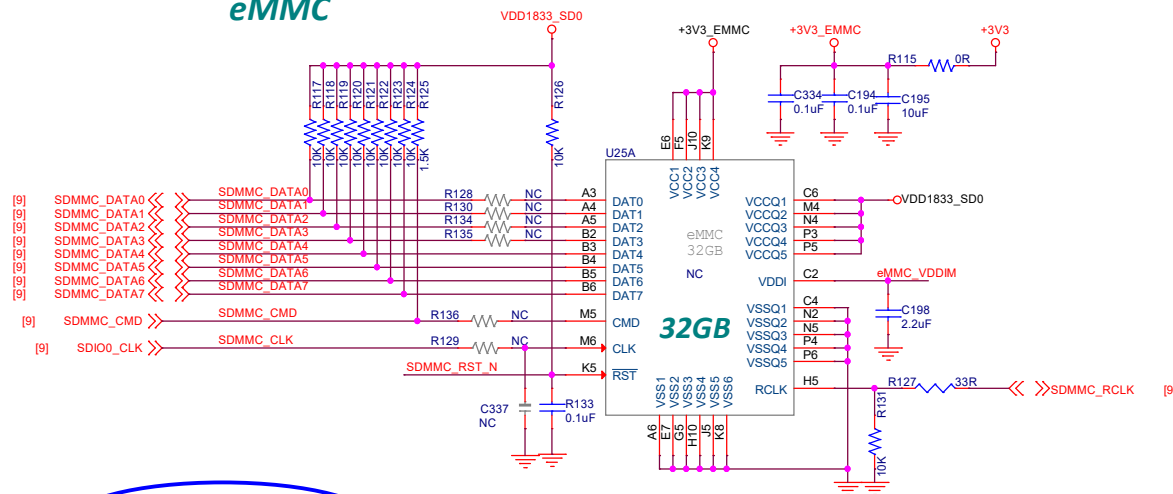


HDMI2.0 TX

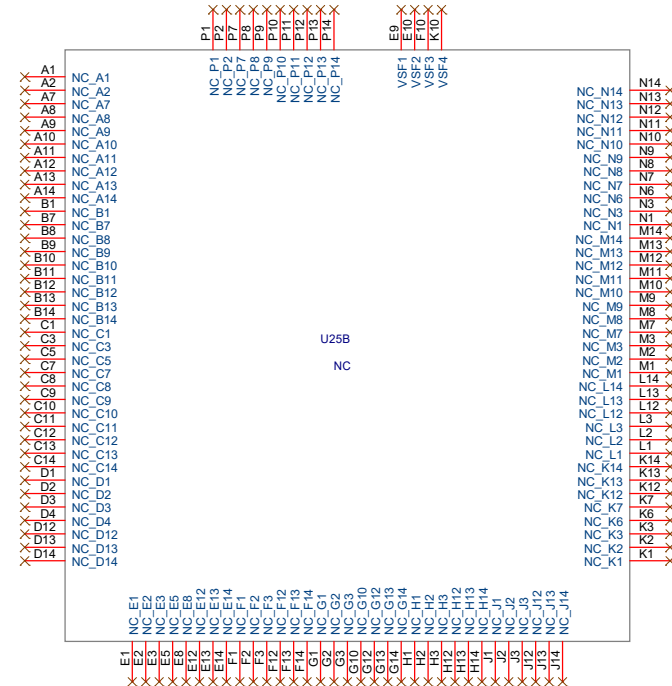
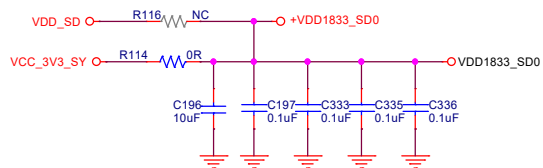
$C_j \leq 0.4 \text{ pF}$



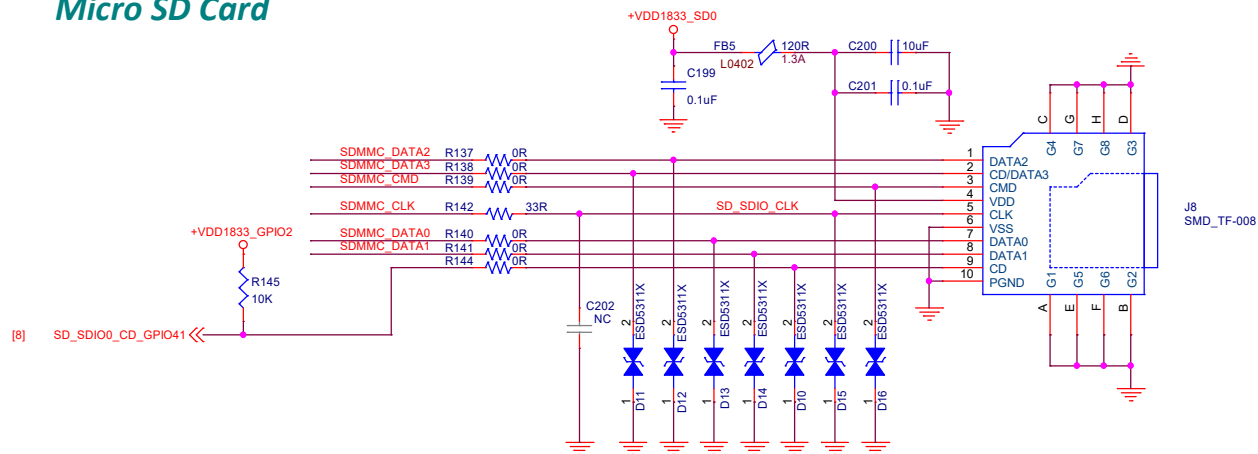
eMMC



NOTE:
Default : 3.3V Power Supply



Micro SD Card



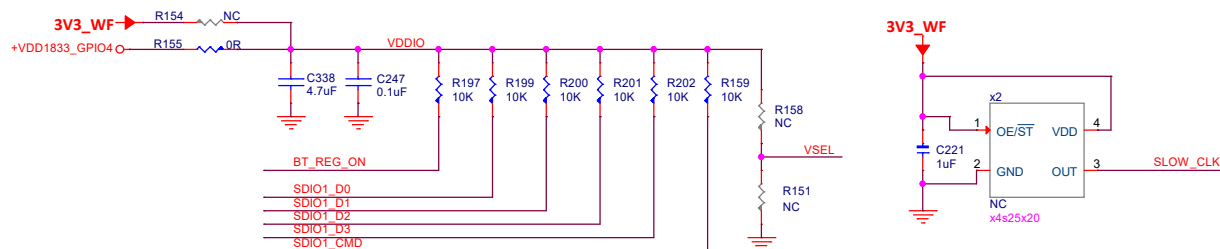
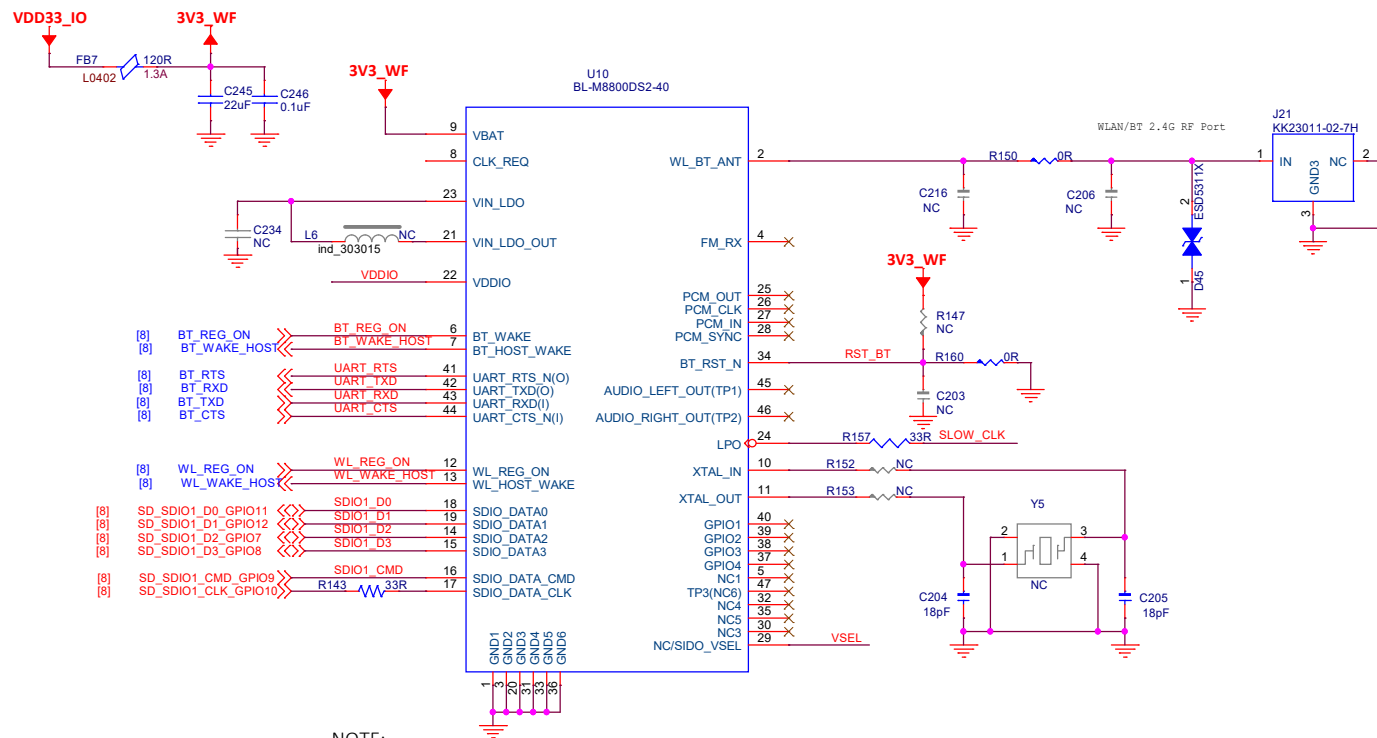
Title
VisionFive 2 Lite

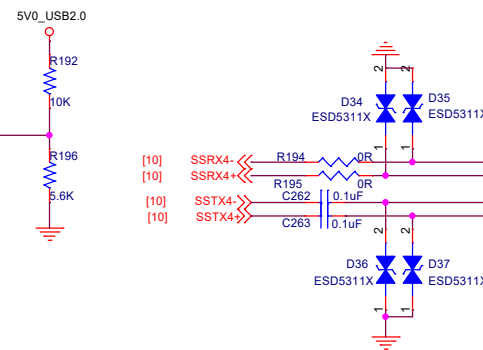
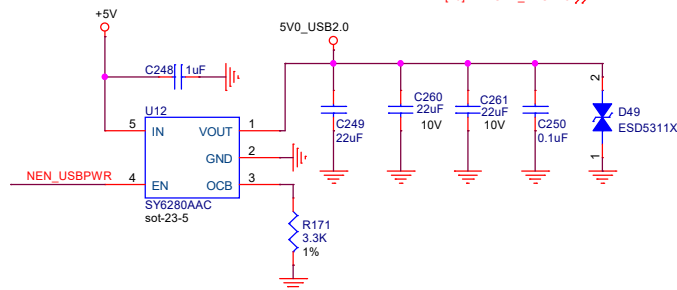
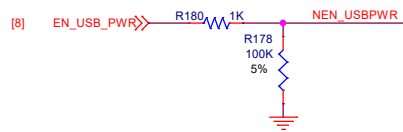
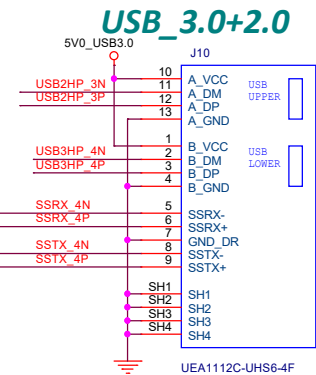
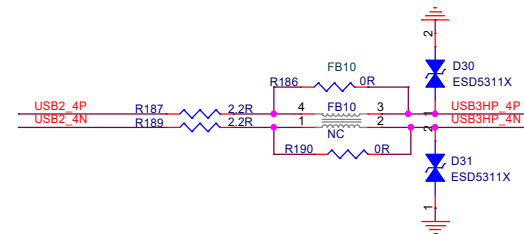
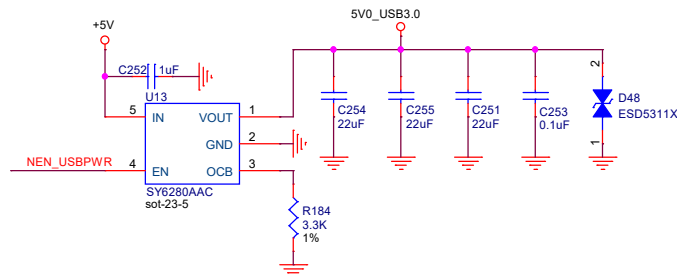
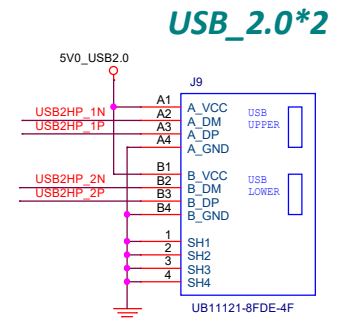
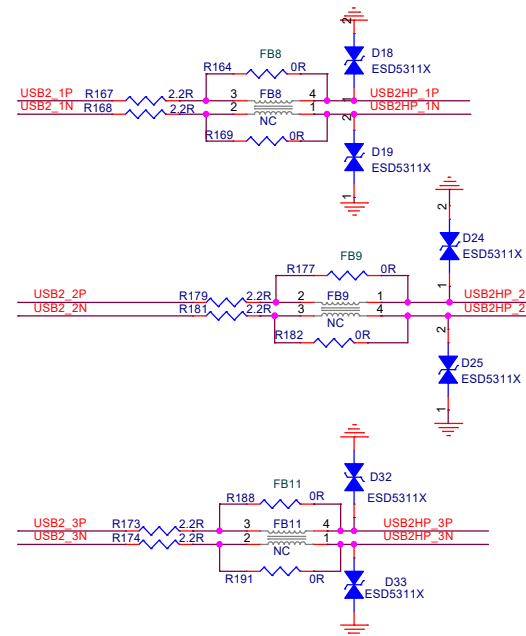
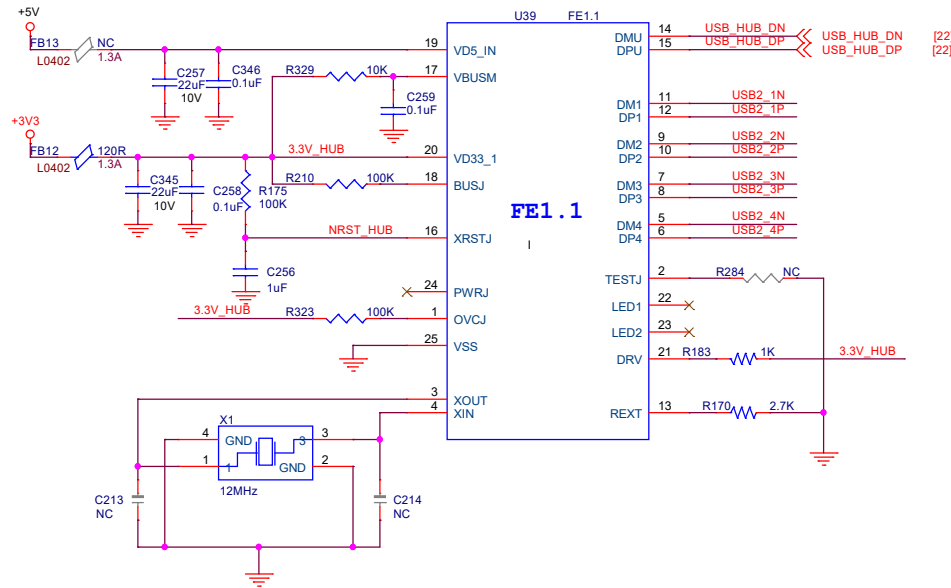
Size
A3 Document Number
15_eMMC & SD

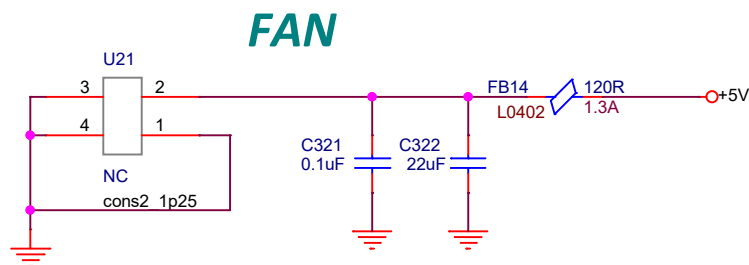
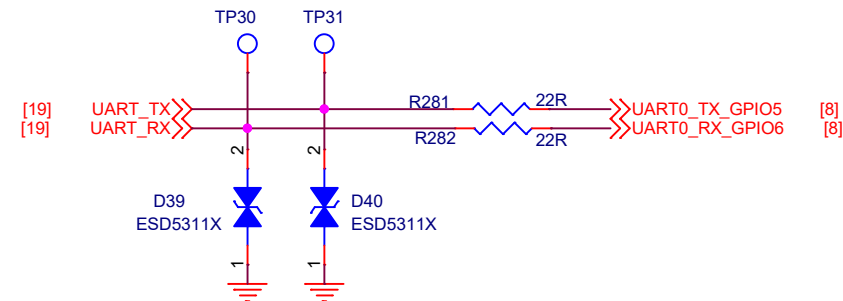
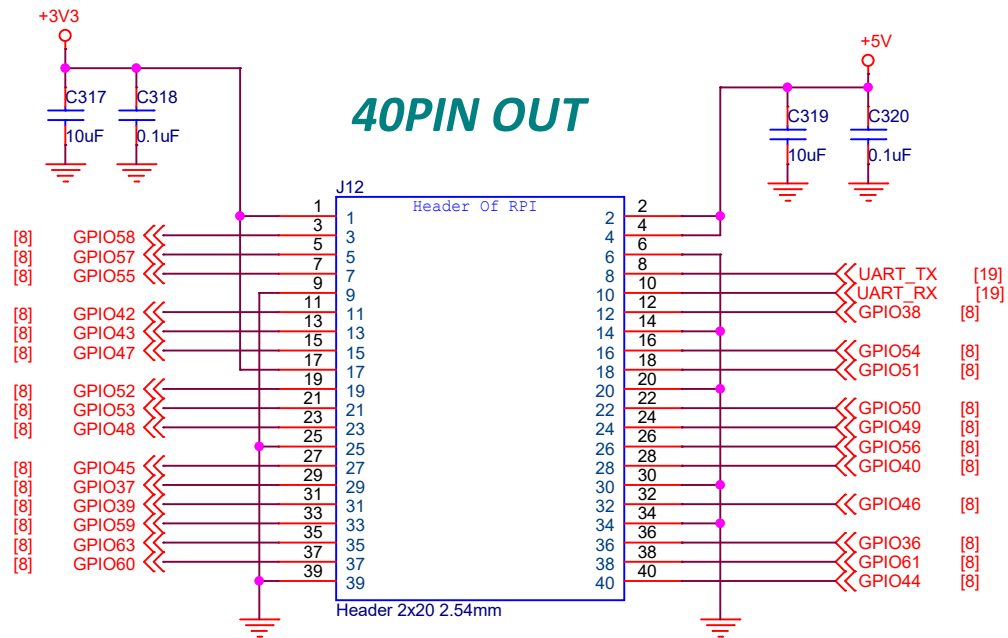
Date: Friday, August 15, 2025

Sheet 15 of 22

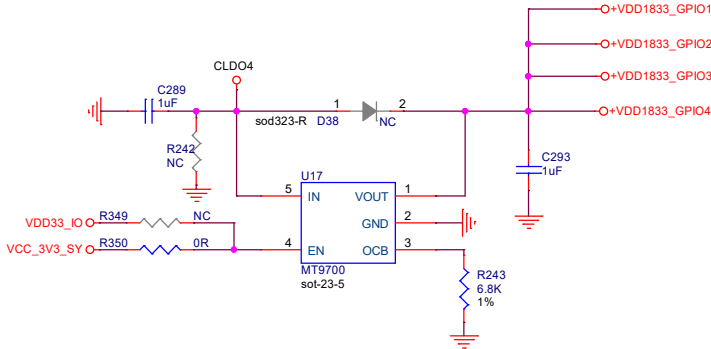
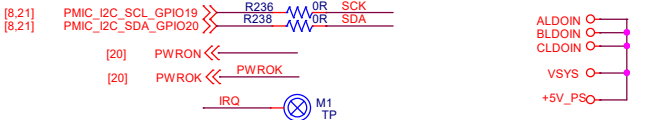
Rev
V1.10



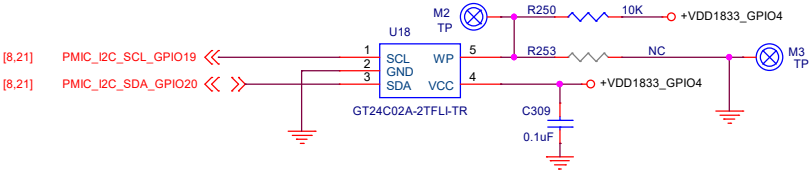
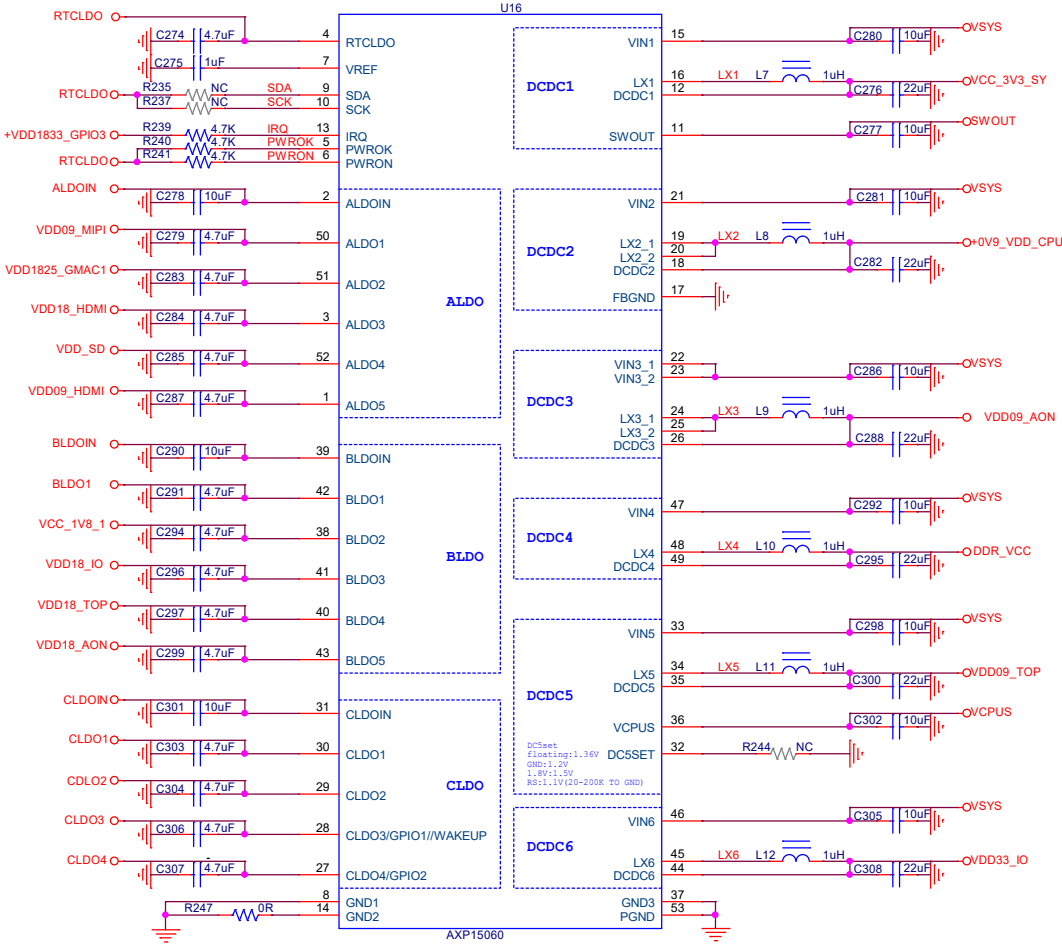
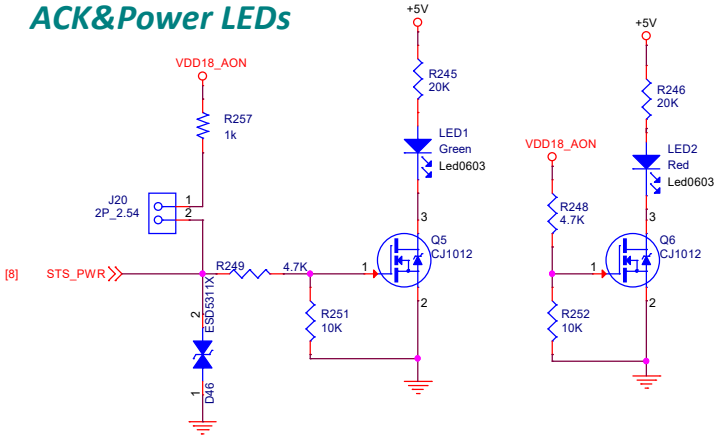




POWER_PMIC



ACK&Power LEDs



Type-C Power

