Milk-V Mars CM(TF) schematic

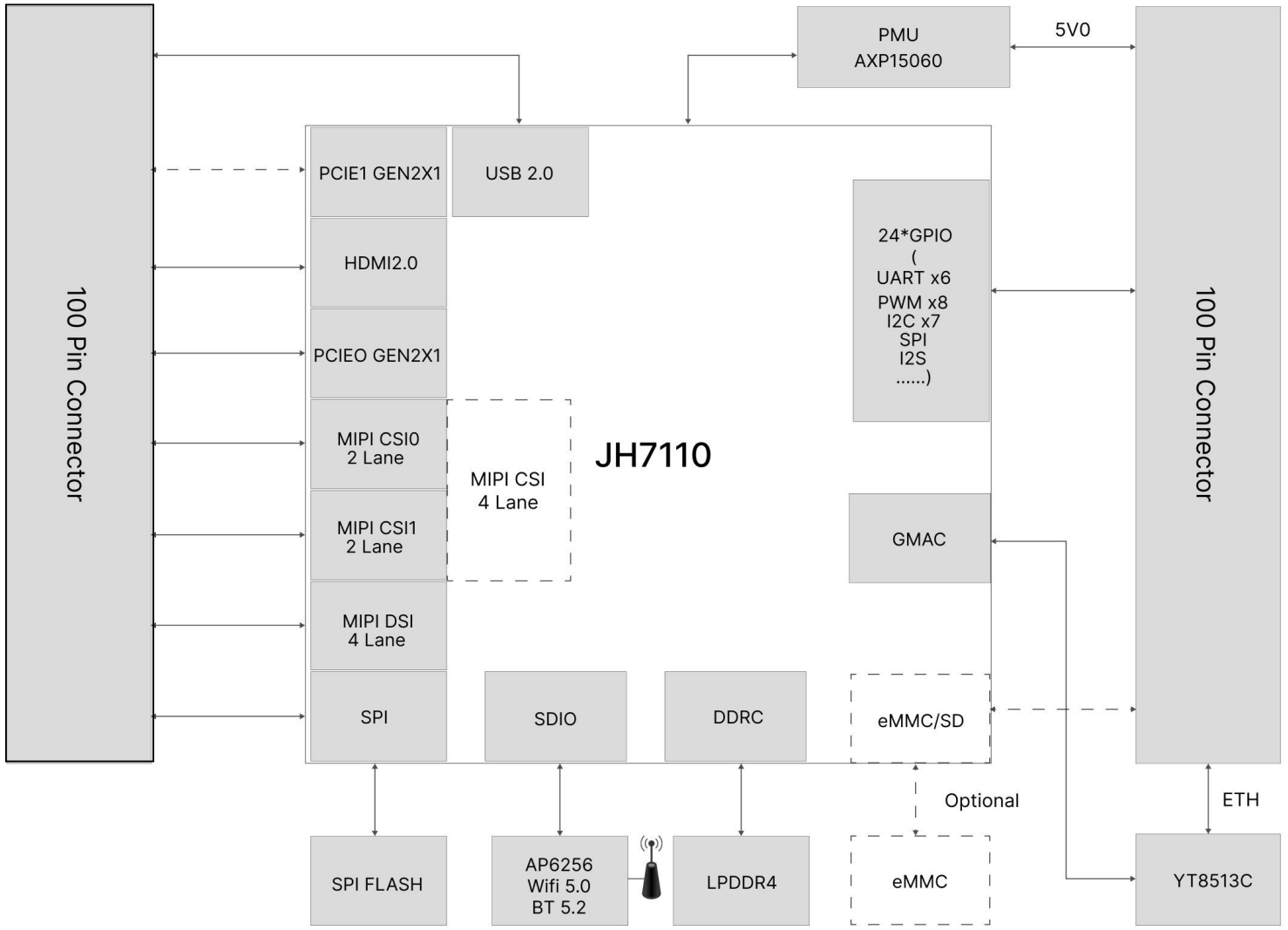
V1.01

Index

Page 1	01 Cover
Page 2	02 Index
Page 3	03 Block
Page 4	04 JH7110 Power
Page 5	05 JH7110 DDR Ctrl
Page 6	06 JH7110 GMACO & 1
Page 7	07 JH7110 GPIOS
Page 8	08 JH7110 0SC&SPI&SDIO&TF
Page 9	09 JH7110 HDMI PCIE MIPI USB
Page 10	10 LPDDR4 RAM
Page 11	11 eMMC
Page 12	12 AON PWR & HDMI
Page 13	13 PMIC-AXP15060
Page 14	14 GPIO & VCC Connector15 High
Page 15	15 Speed Serial_Connector
Page 16	16 WIFI/BT-SDIO
Page 17	17 Ethernet_0

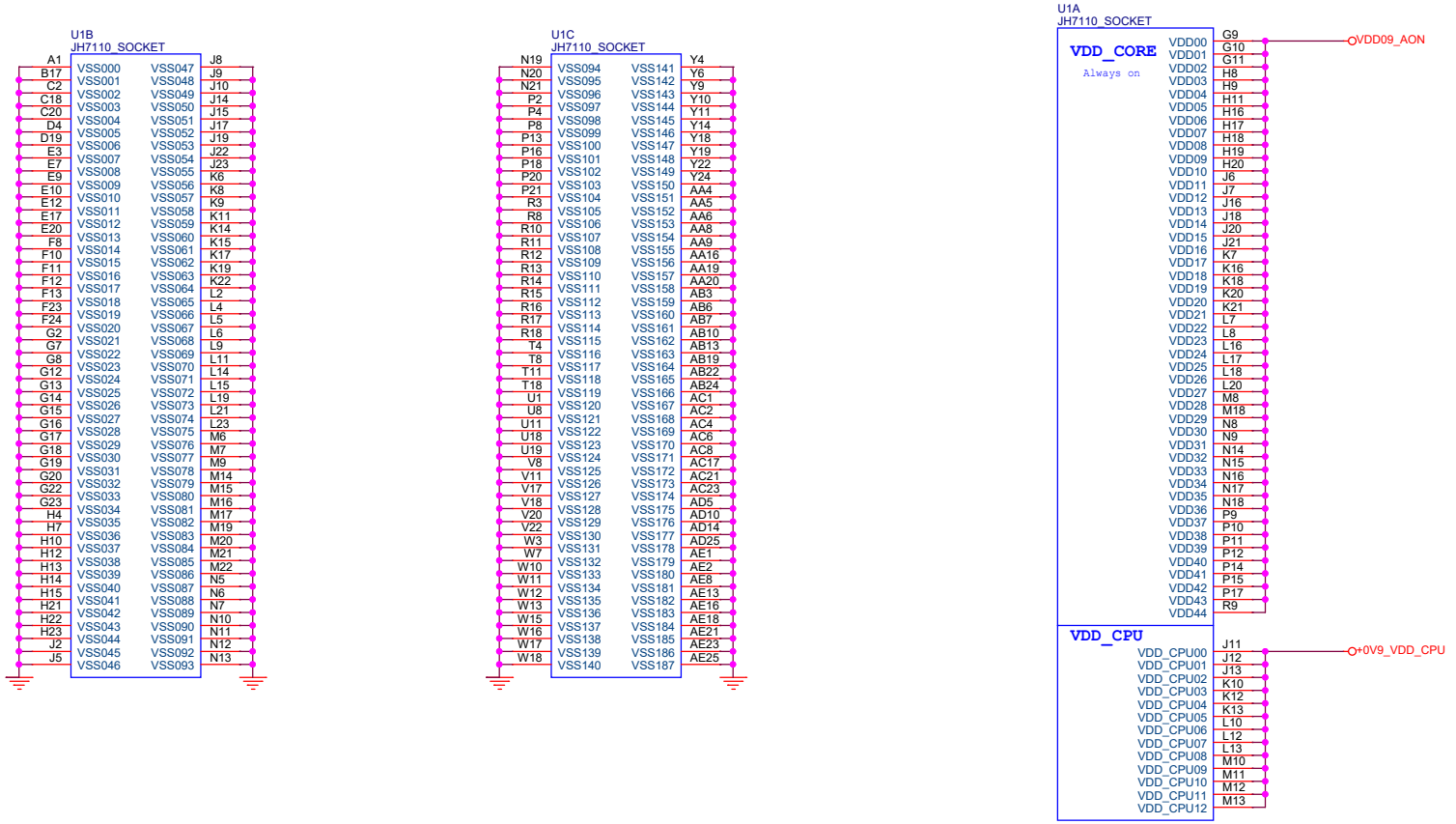
Project:	Milk-V Mars CM(TF)		
File:	02 Index		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	2 of 17

Block



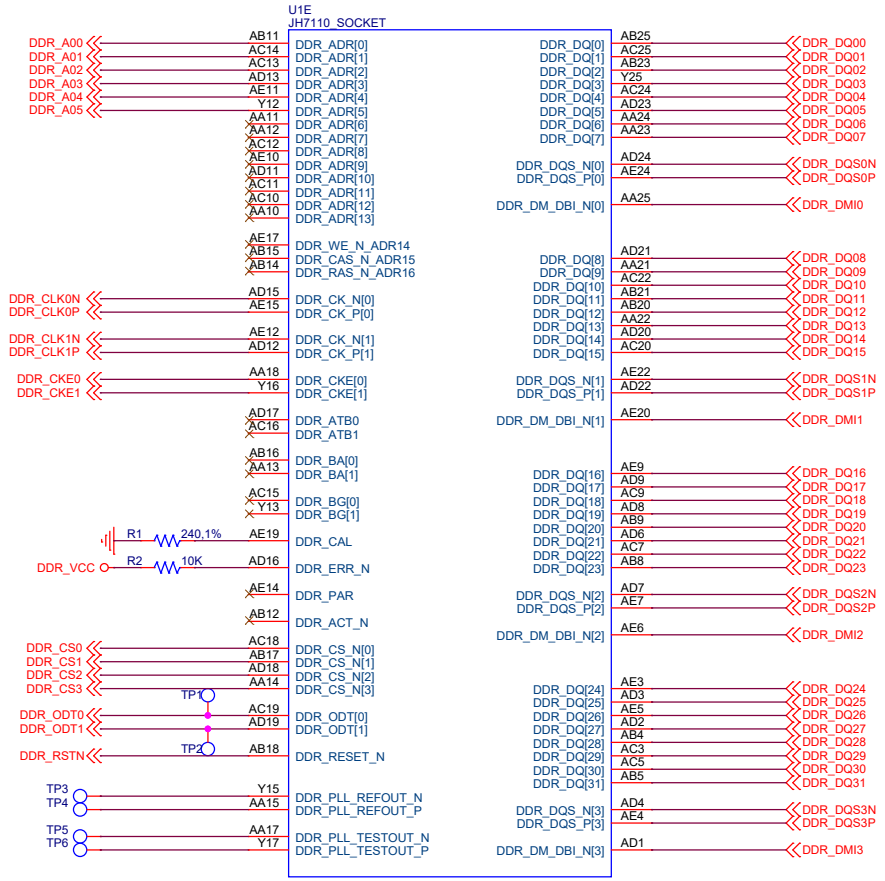
Project:	Milk-V Mars CM(TF)		
File:	03 Block		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	3 of 17

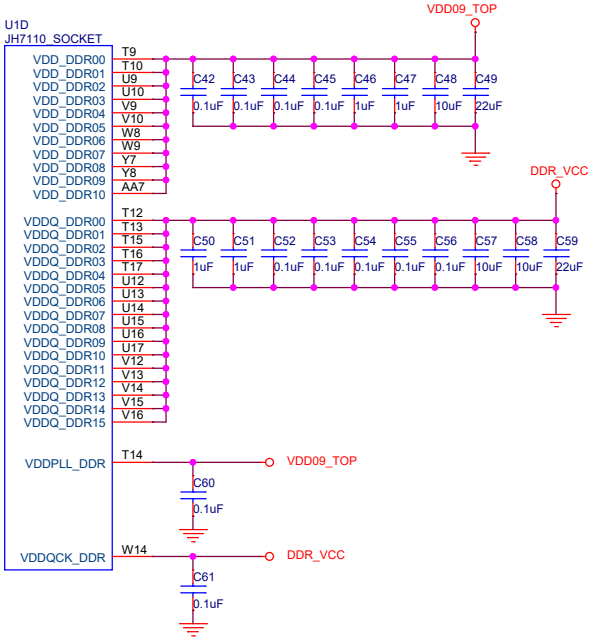
04 JH7110 Power



Project:	Milk-V Mars CM(TF)
File:	04 JH7110 Power
Date:	Thursday, April 25, 2024
Rev:	V1.01
Designed by:	<designer>
Sheet:	4 of 17

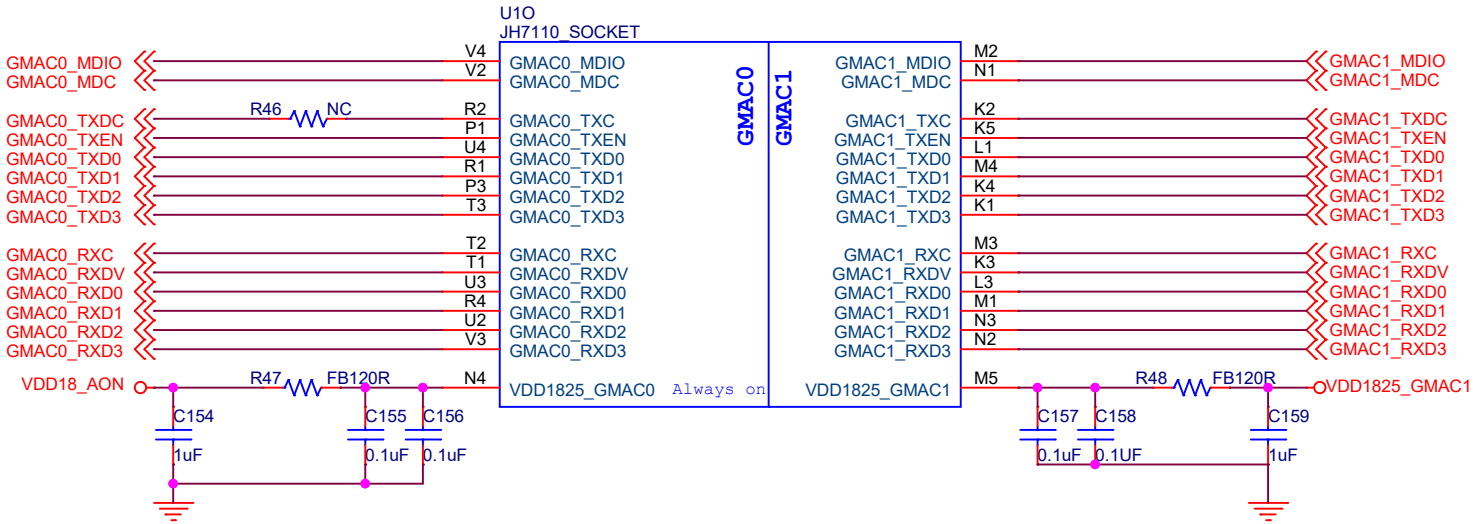
05 JH7110 DDR Ctrl





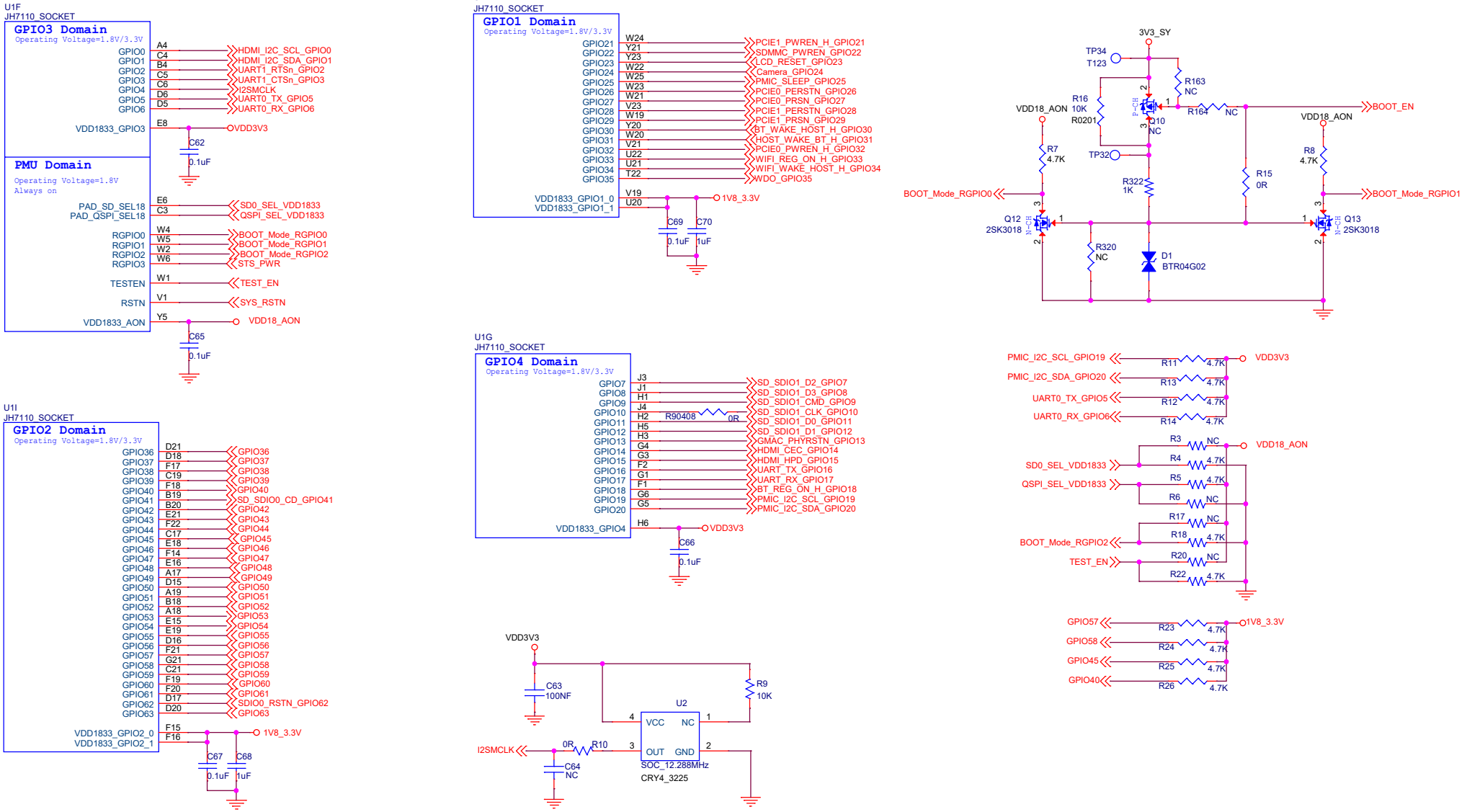
Project:	Milk-V Mars CM(TF)		
File:	05 JH7110 DDR Ctrl		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	5 of 17

06 JH7110 GMACO & 1



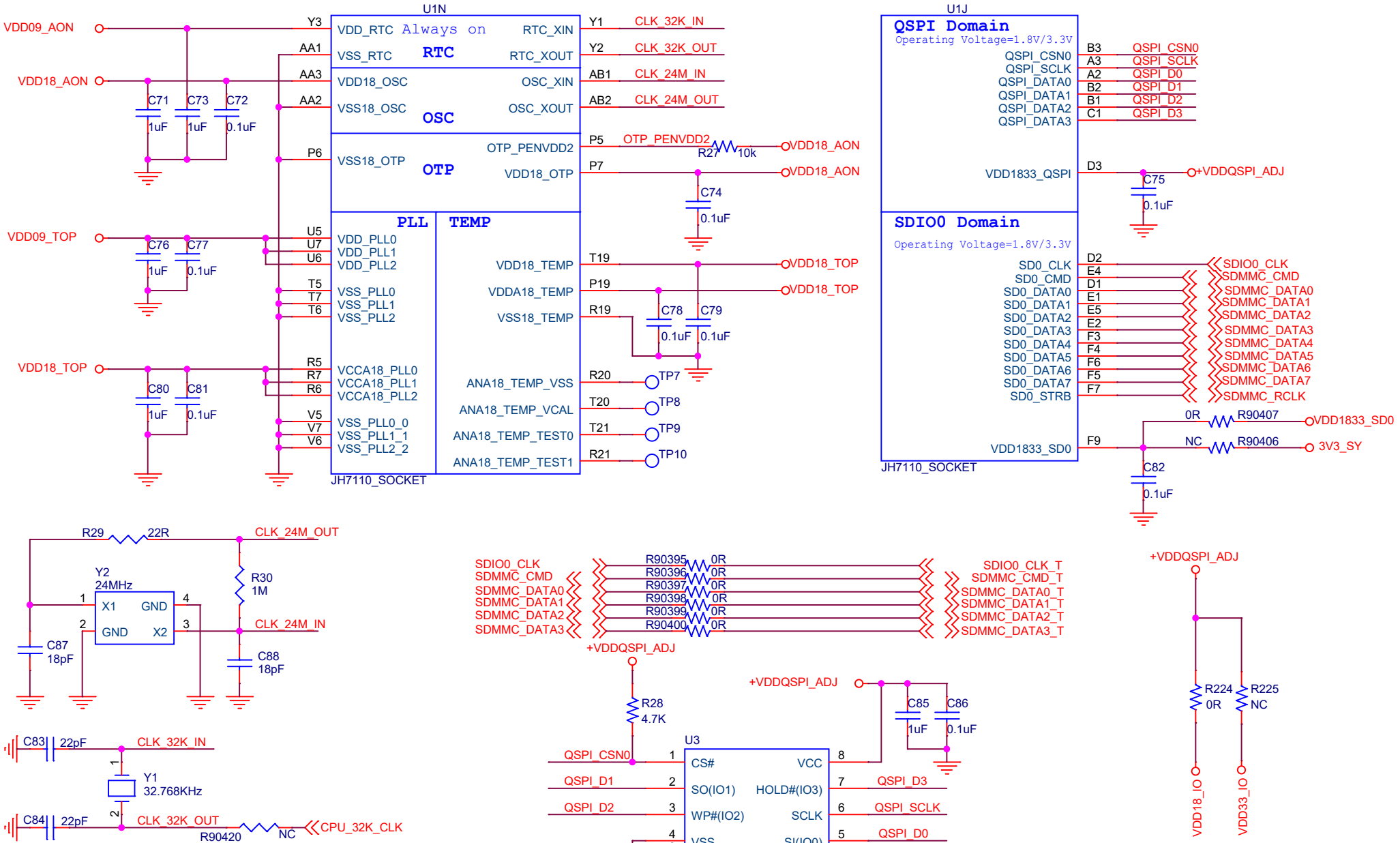
Project:	Milk-V Mars CM(TF)
File:	06 JH7110 GMAC0 & 1
Date:	Thursday, April 25, 2024
Rev:	V1.01
Designed by:	<designer>
Sheet:	6 of 17

07 JH7110 GPIOS



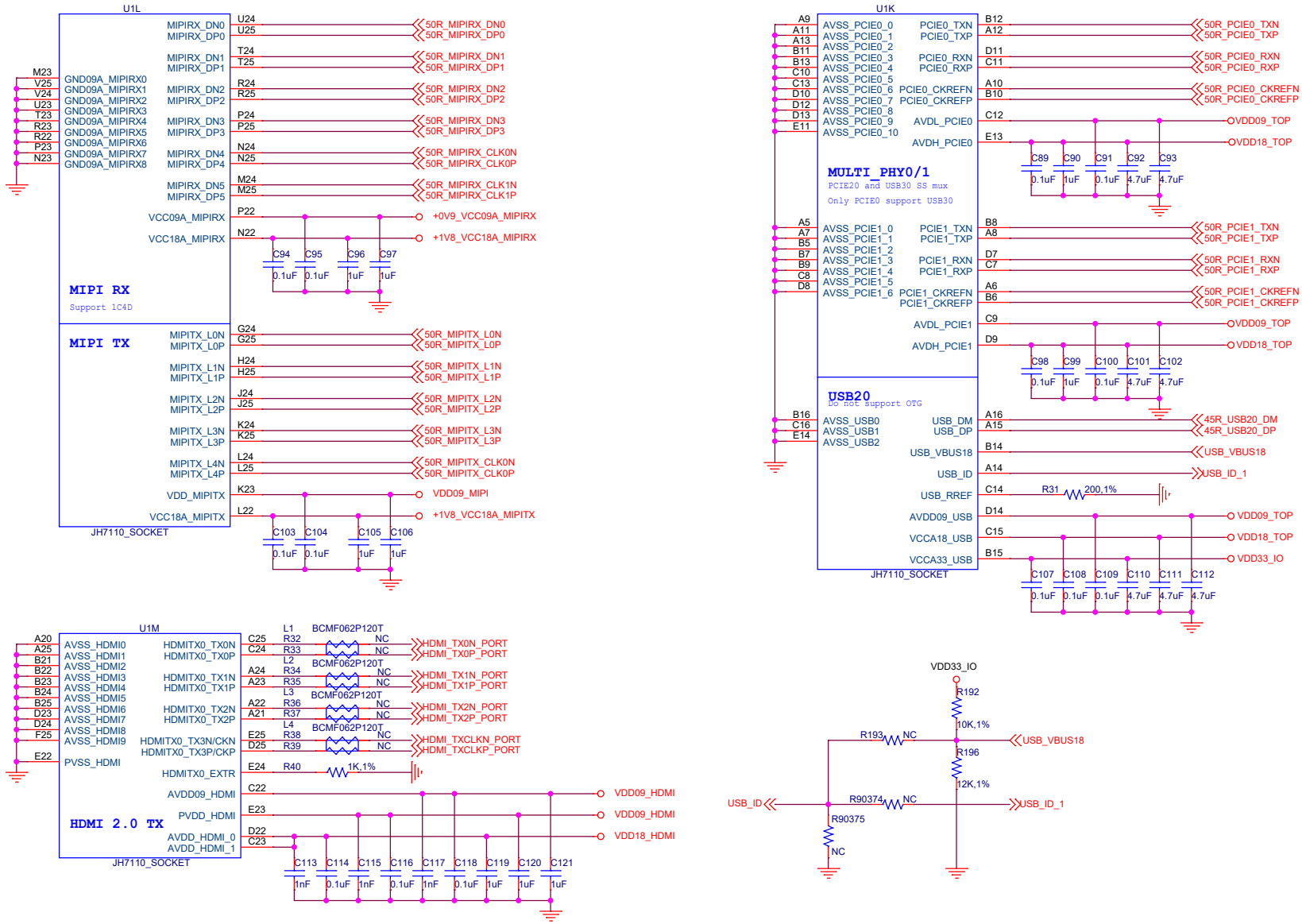
Project:	Milk-V Mars CM(TF)		
File:	07 JH7110 GPIOS		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	7 of 17

08 JH7110 0SC&SPI&SDIO&TF



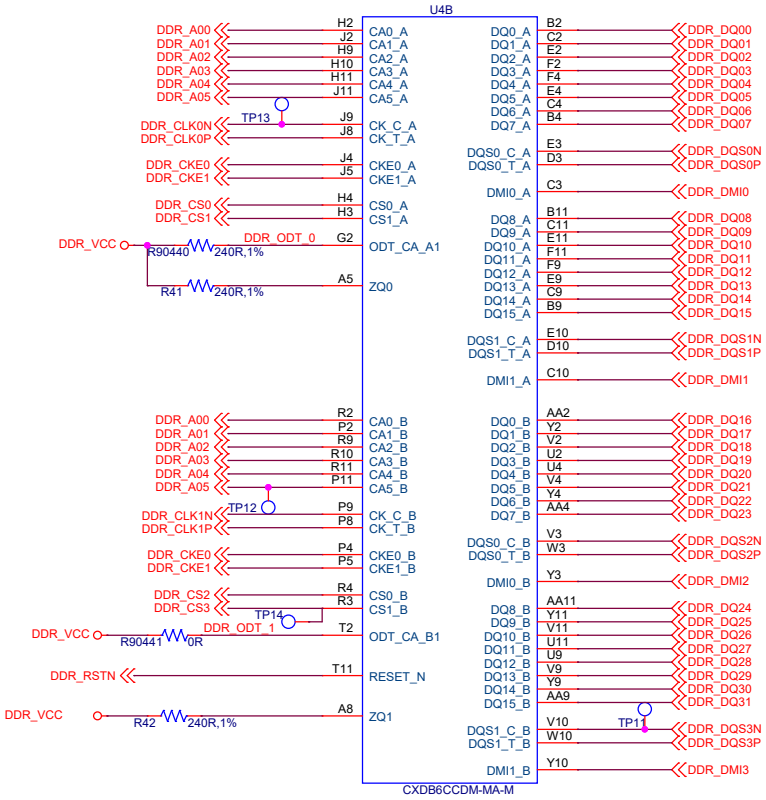
Project:	Milk-V Mars CM(TF)
File:	08 JH7110 0SC&SPI&SDIO&TF
Date:	Thursday, April 25, 2024
Rev:	V1.01
Designed by:	<designer>
Sheet:	8 of 17

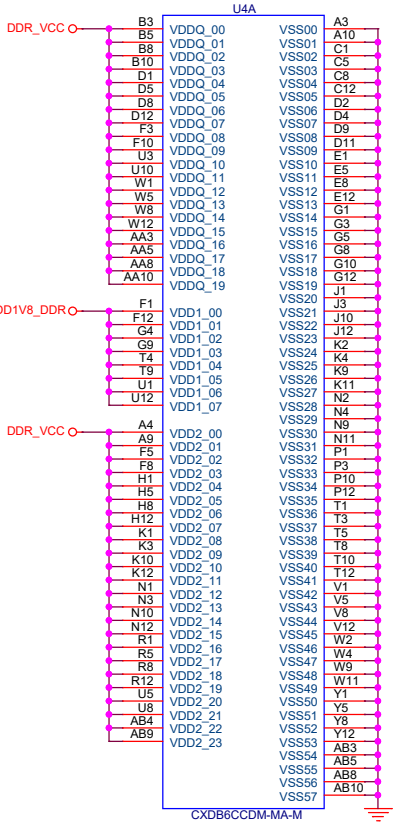
09 JH7110 HDMI PCIE MIPI USB

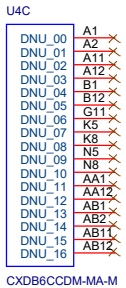


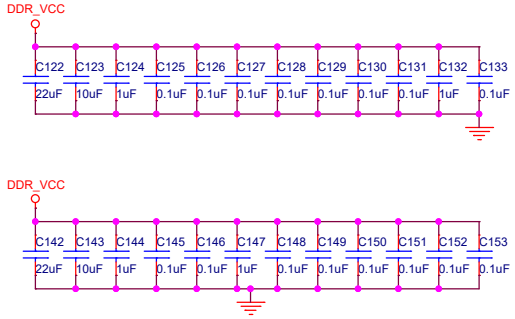
Project:	Milk-V Mars CM(TF)
File:	09 JH7110_HDMI_PCIE_MIPI_USB
Date:	Thursday, April 25, 2024
Rev:	V1.01
Designed by:	<designer>
Sheet:	9 of 17

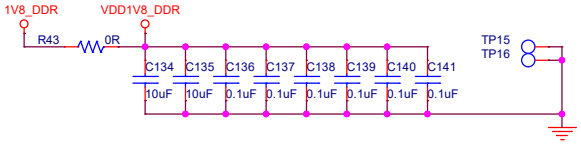
10 LPDDR4 RAM





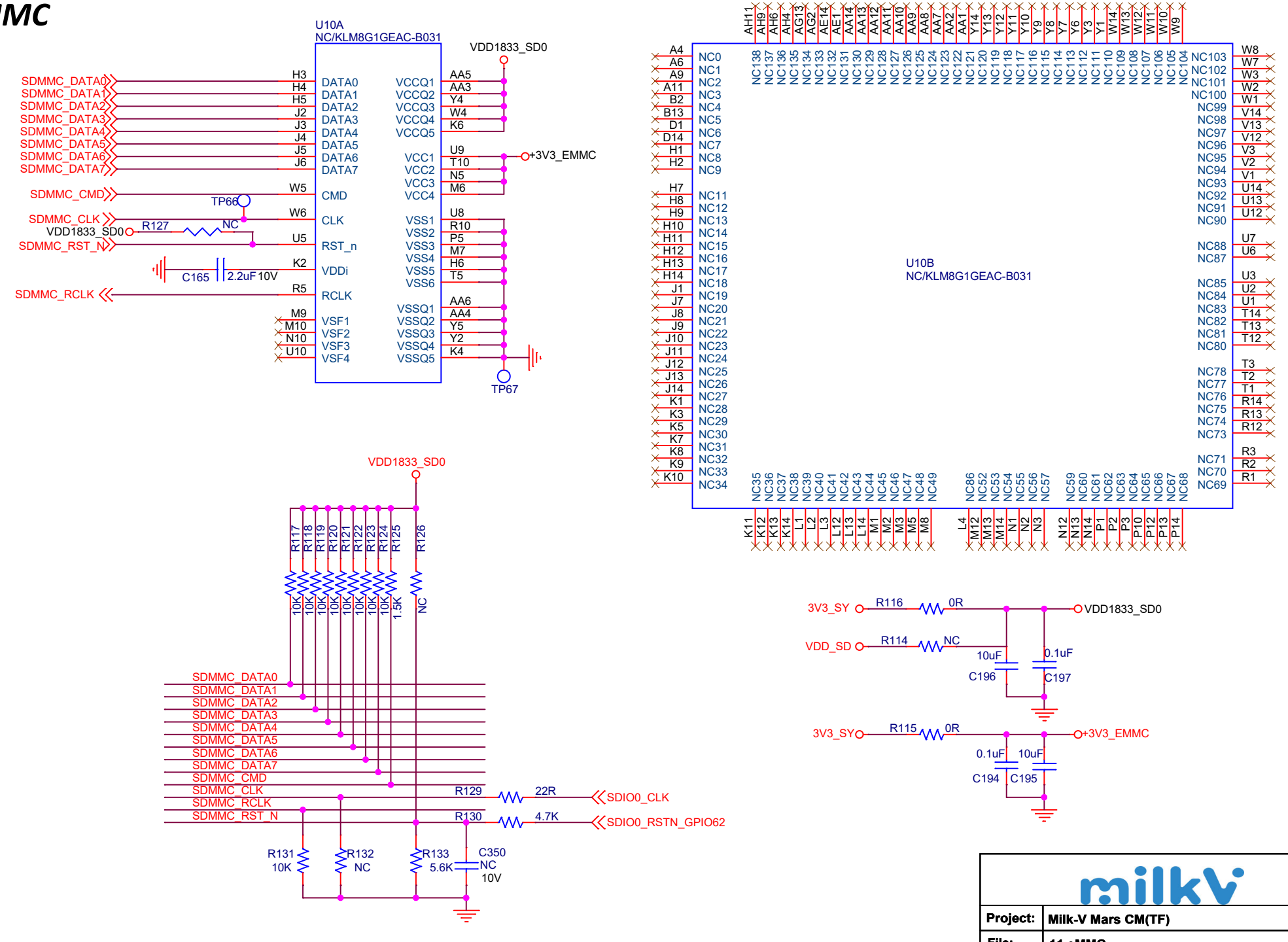






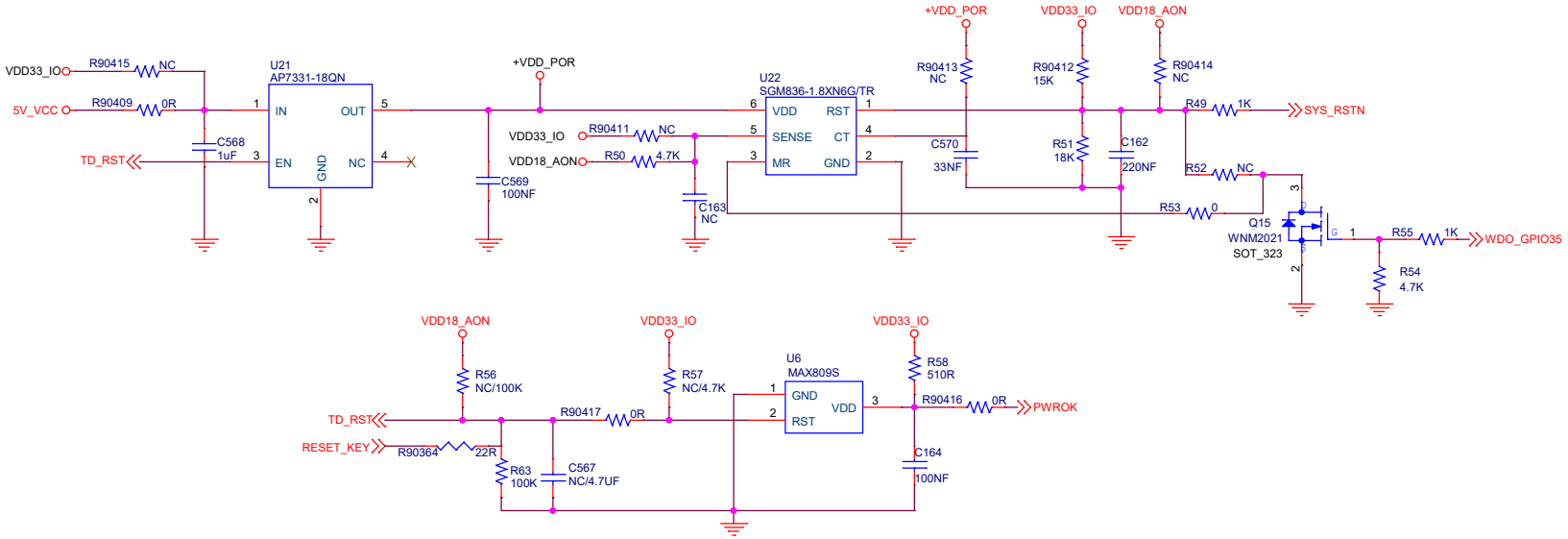
Project:	Milk-V Mars CM(TF)		
File:	10 LPDDR4 RAM		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	10 of 17

11 eMMC

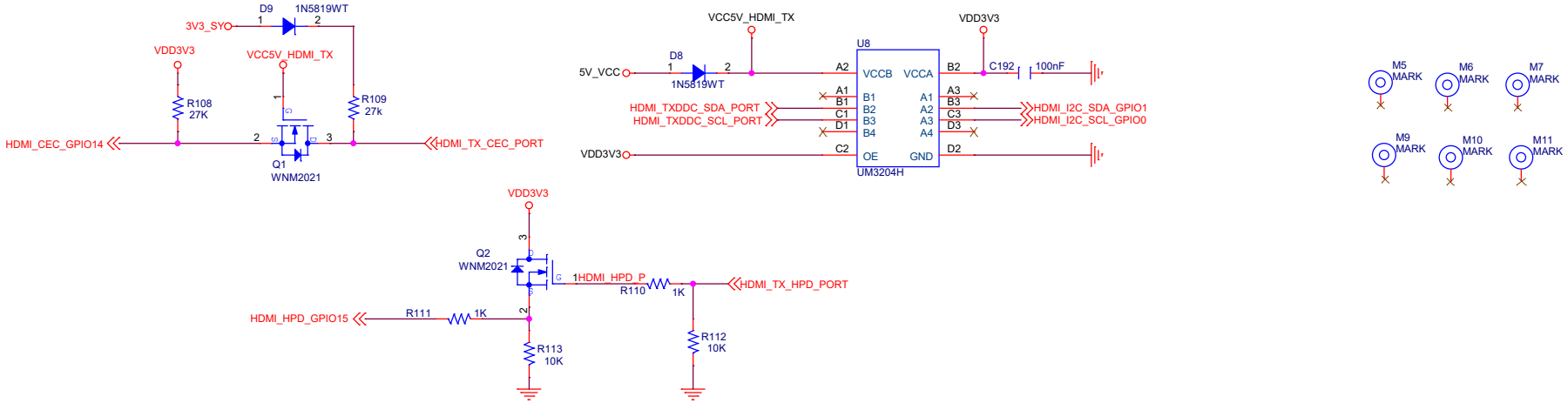


Project:	Milk-V Mars CM(TF)
File:	11 eMMC
Date:	Thursday, April 25, 2024
Rev:	V1.01
Designed by:	<designer>
Sheet:	11 of 17

12 AON PWR & HDMI

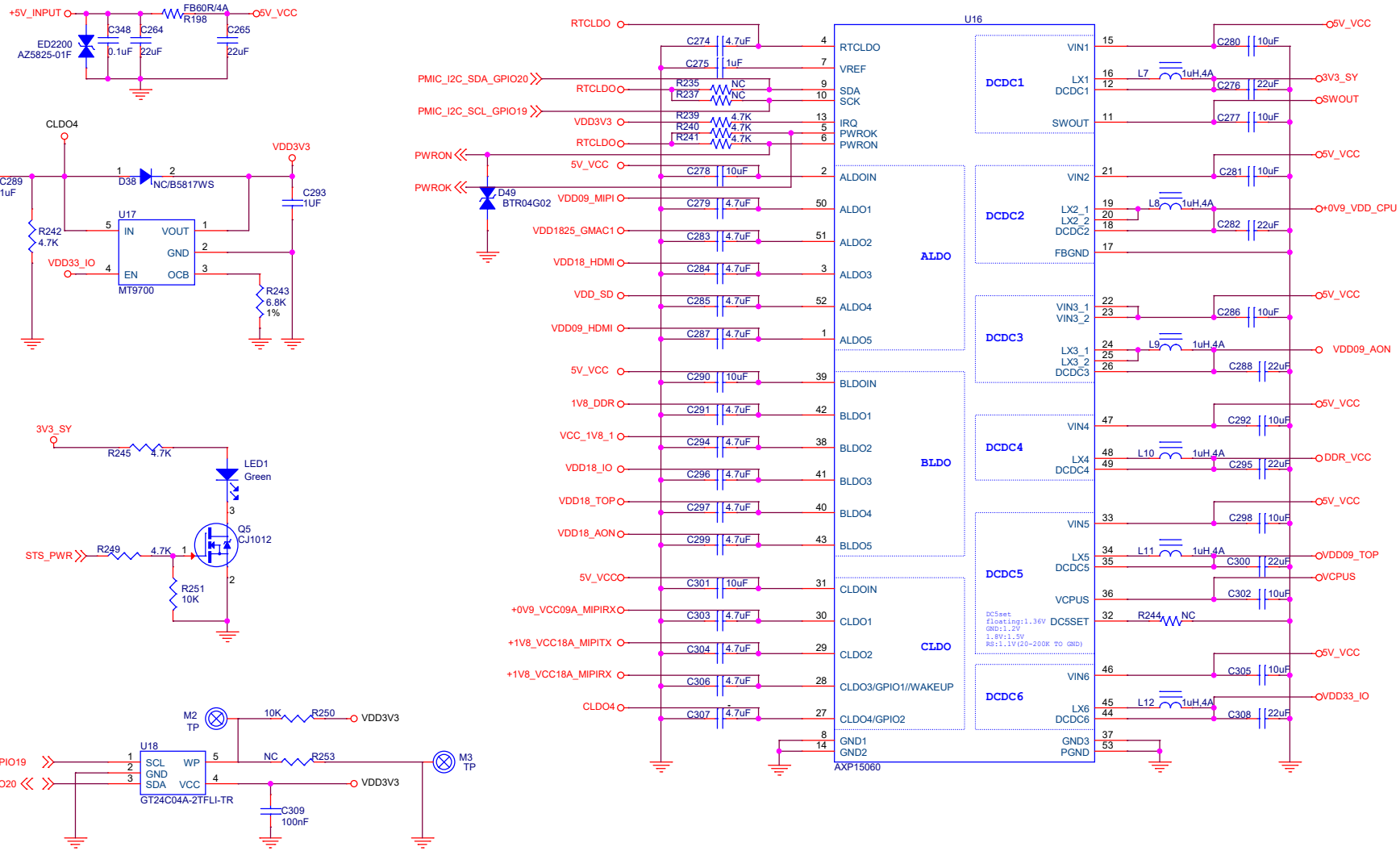


HDMI2.0 TX



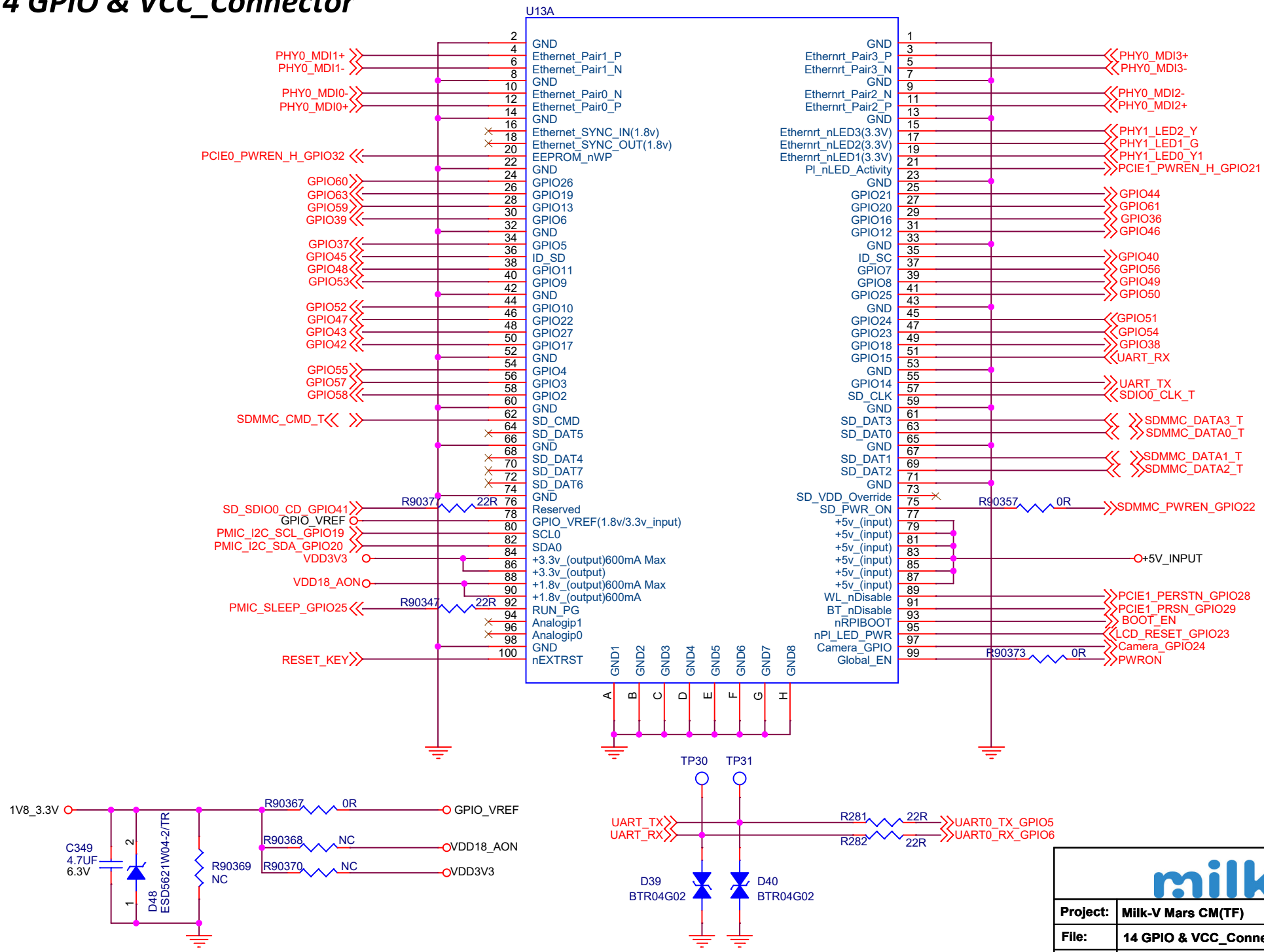
Project:	Milk-V Mars CM(TF)		
File:	12 AON PWR & HDMI		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	12 of 17

13 PMIC-AXP15060



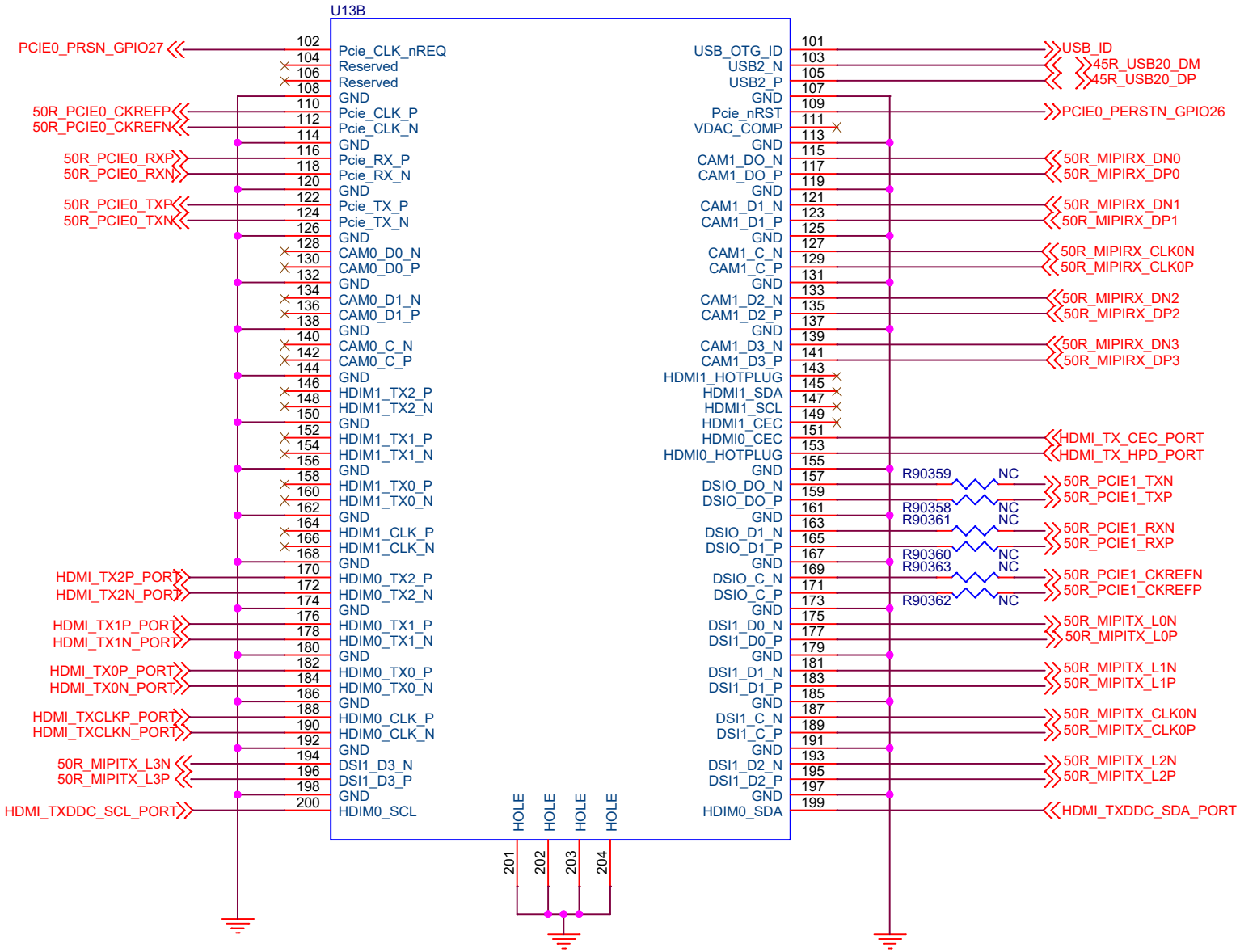
Project:	Milk-V Mars CM(TF)		
File:	13 PMIC-AXP15060		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	13 of 17

14 GPIO & VCC_Connector



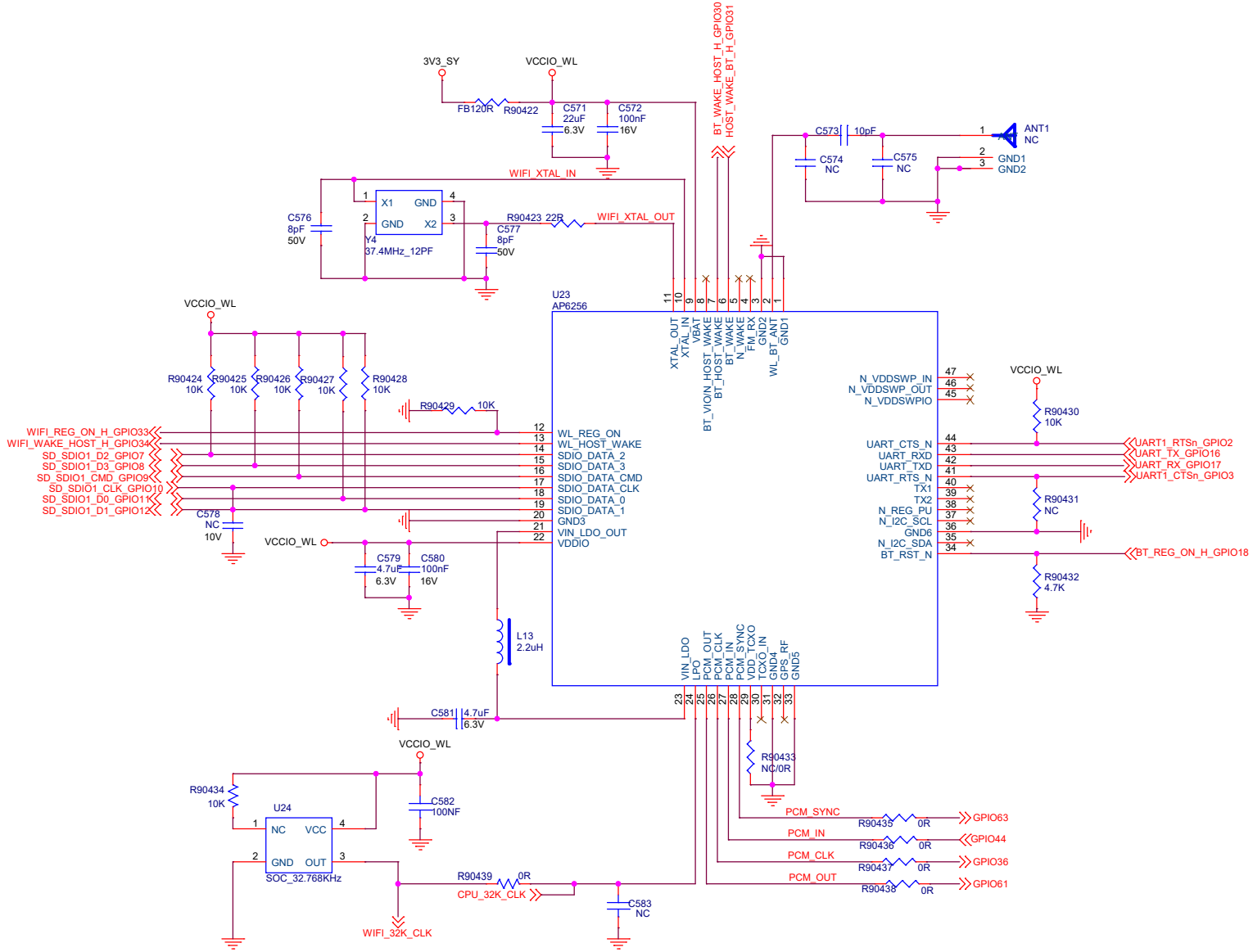
Project:	Milk-V Mars CM(TF)		
File:	14 GPIO & VCC_Connector		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	14 of 17

15 High Speed Serial_Connector



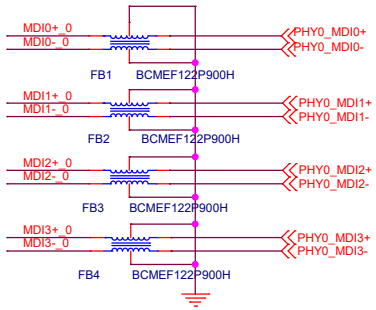
Project:	Milk-V Mars CM(TF)		
File:	15 High Speed Serial_Connector		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	15 of 17

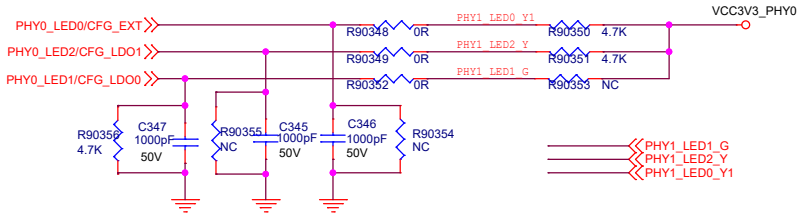
16 WIFI/BT-SDIO

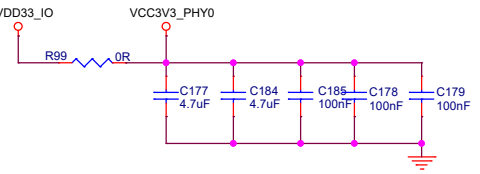


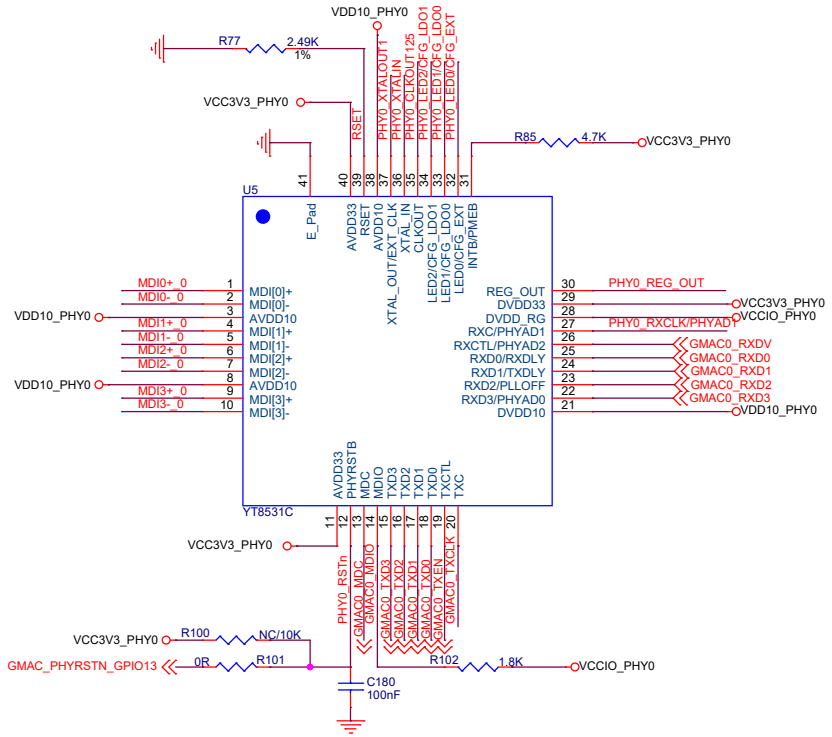
Project:	Milk-V Mars CM(TF)		
File:	16 WIFI/BT-SDIO		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	16 of 17

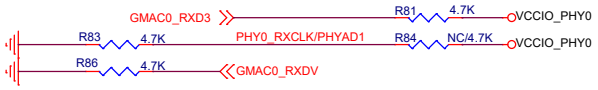
17 Ethernet_0

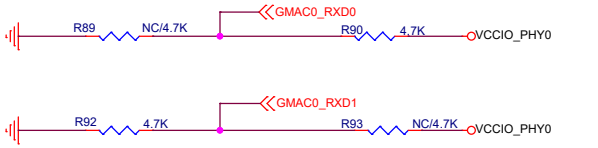


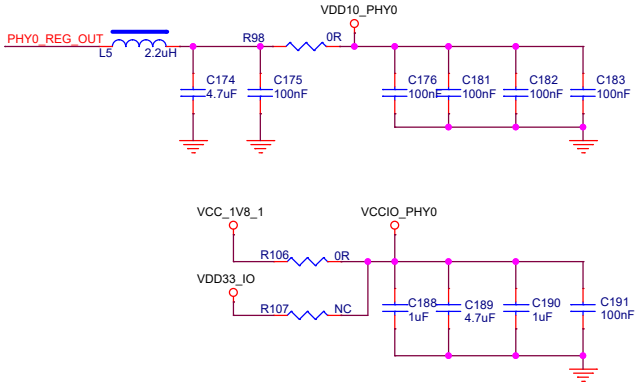


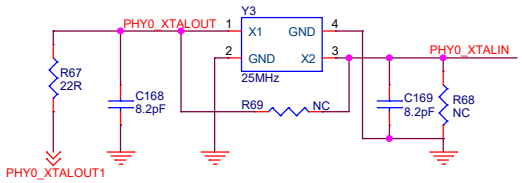












Project:	Milk-V Mars CM(TF)		
File:	17 Ethernet_0		
Date:	Thursday, April 25, 2024	Rev:	V1.01
Designed by:	<designer>	Sheet:	17 of 17