AM62x SKEVM WITH FULTON PMIC

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TEXAS INSTRUMENTS

MISTRAL

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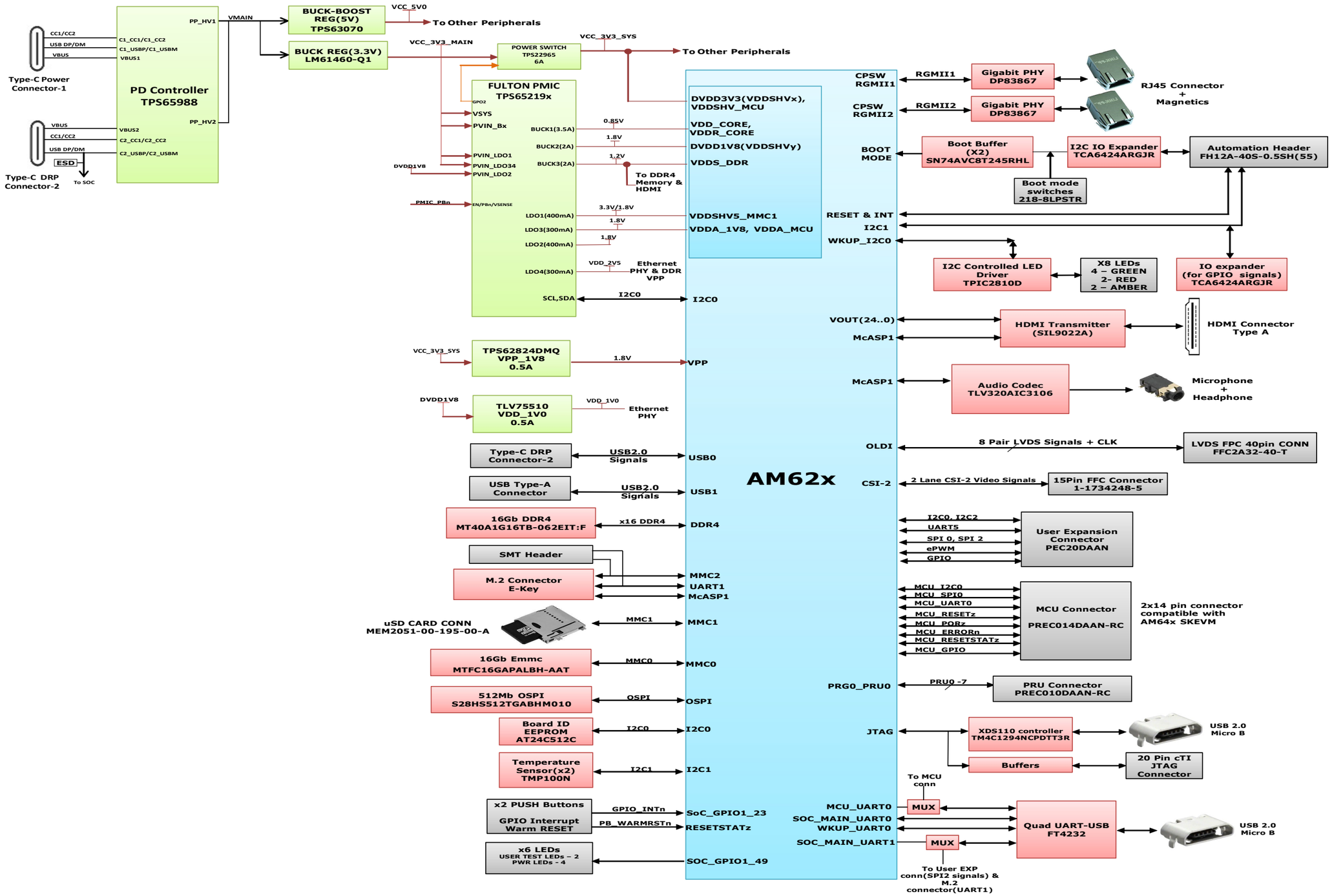
REVISION HISTORY

VER #	DATE	DESCRIPTION OF CHANGES	AUTHOR	REVIEWED BY	APPROVED BY
0.01	29 AUG 2022	Drafted from PROC142E1 Schematics. R651 value changed to 1K. DNI'd R618 and R676.Changed the I2C buffer parts to TCA9517DR. Changed the part SN74AVC4T245RSVR to SN74AVC4T245DGVR	Mistral Design Team		
0.02	08 SEP 2022	Added the second GPIO Expander U110 Part# TCA6408ARGTR	Mistral Design Team		
0.03	21 SEP 2022	Changed the Current monitors Res Filter values from 10E to 0E to the Sense pins.	Mistral Design Team		
0.04	19 OCT 2022	Added Testpoint to TEMP_DIODE_P pin of SoC. Changed the GPIO_OLDI_RSTn net name to GPIO_TS_RSTn.	Mistral Design Team		
0.05	24 OCT 2022	Changed the Fulton PMIC part from TPS6521903RHBR to TPS6521904RHBR. Mounted R699 and DNI'd R123. DNI'd the current monitor section of U36	Mistral Design Team		
0.06	3 Nov 2022	Changed the DDR4 part from MT40A1G16KD-062E IT:E to MT40A1G16TB-062E IT:F. Changed the eMMC part from MTFC16GAPALBH-IT to MTFC32GAZAQHD-IT.	Mistral Design Team		
0.07	15 Nov 2022	Removed the PMIC_STBY connection from SOC to PMIC.	Mistral Design Team		
0.08	22 Nov 2022	Added 2x 47uF on VCC_5V0. DNI'd C432, C433(10uF) and changed C415 to 4.7uF. Added 22pF CAP across R108	Mistral Design Team		
0.09	1 Dec 2022	Removed MMC2 connector section (J18) and associated resistors	Mistral Design Team		
0.10	11 APR 2023	Changed the HDMI external swing resistance to 7.5K. Added Standoff,Screw & Washer for M.2 connector. DNI'd R650 on SoC_USB1_DRVVBUS	Mistral Design Team		
0.11	16 MAY 2023	Depopulated Pull up of SOC_WLAN_IRQ_1V8 (R6)	Mistral Design Team		

BLOCK DIAGRAM



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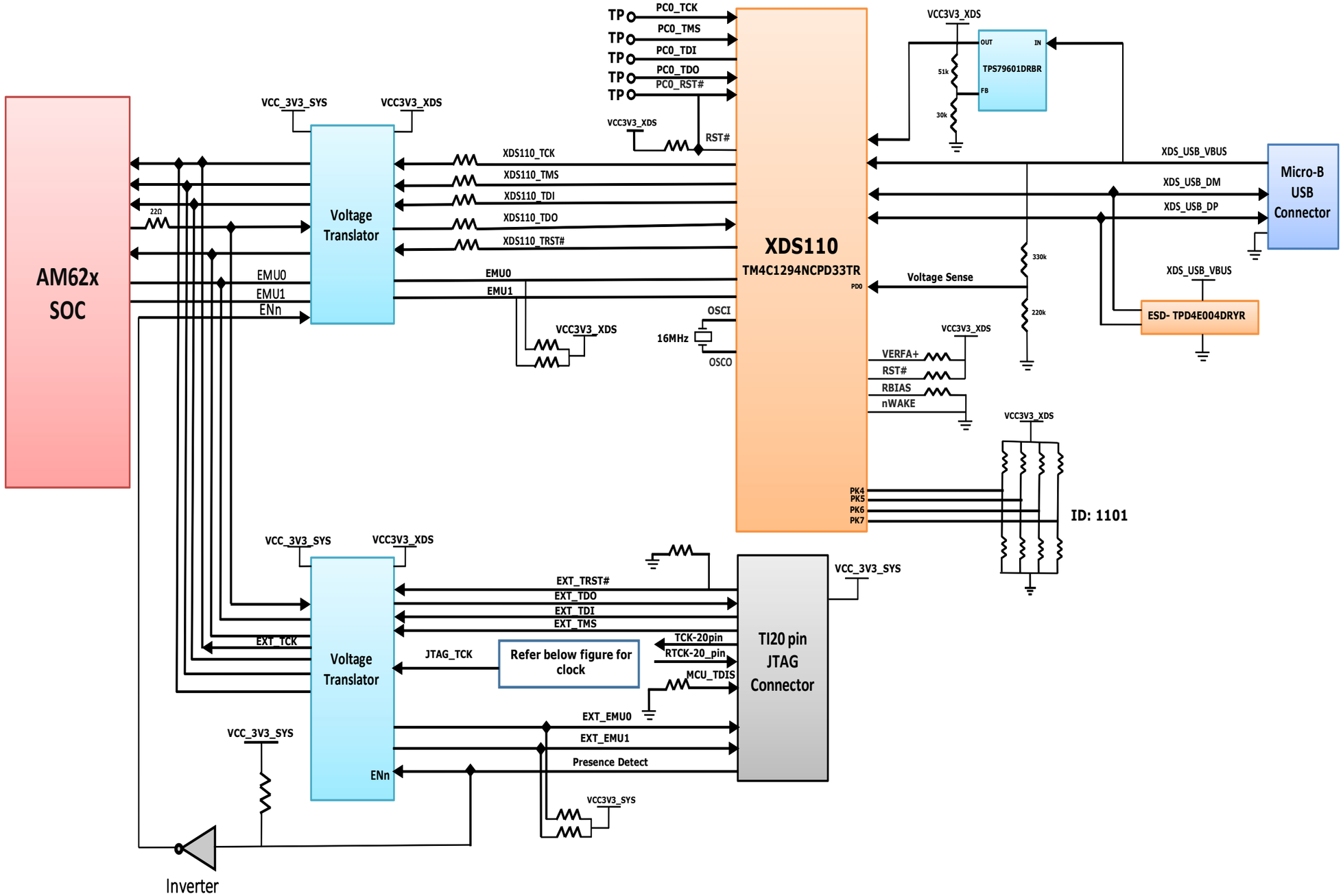
BLOCK DIAGRAM_XDS110



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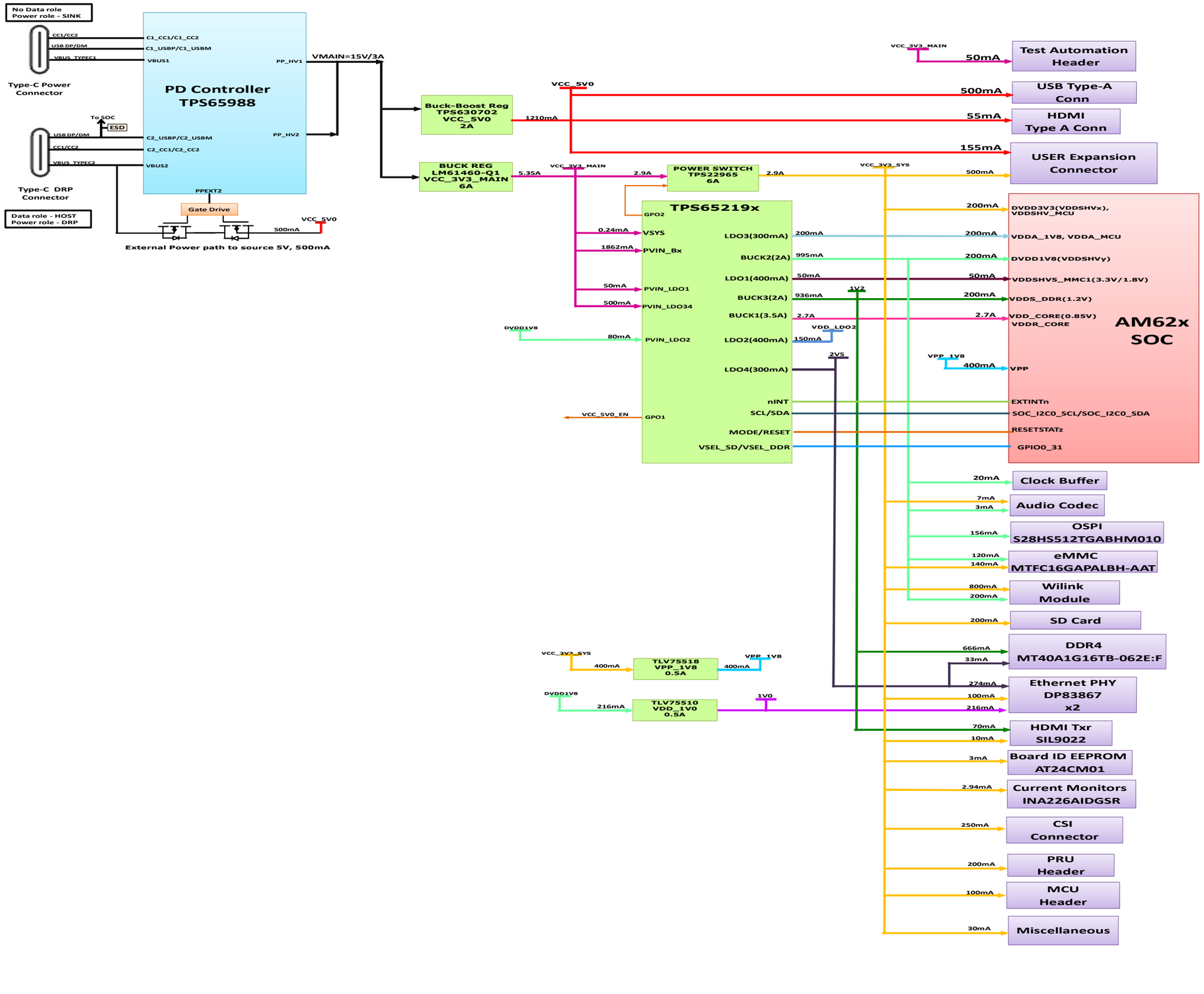
POWER BLOCK DIAGRAM



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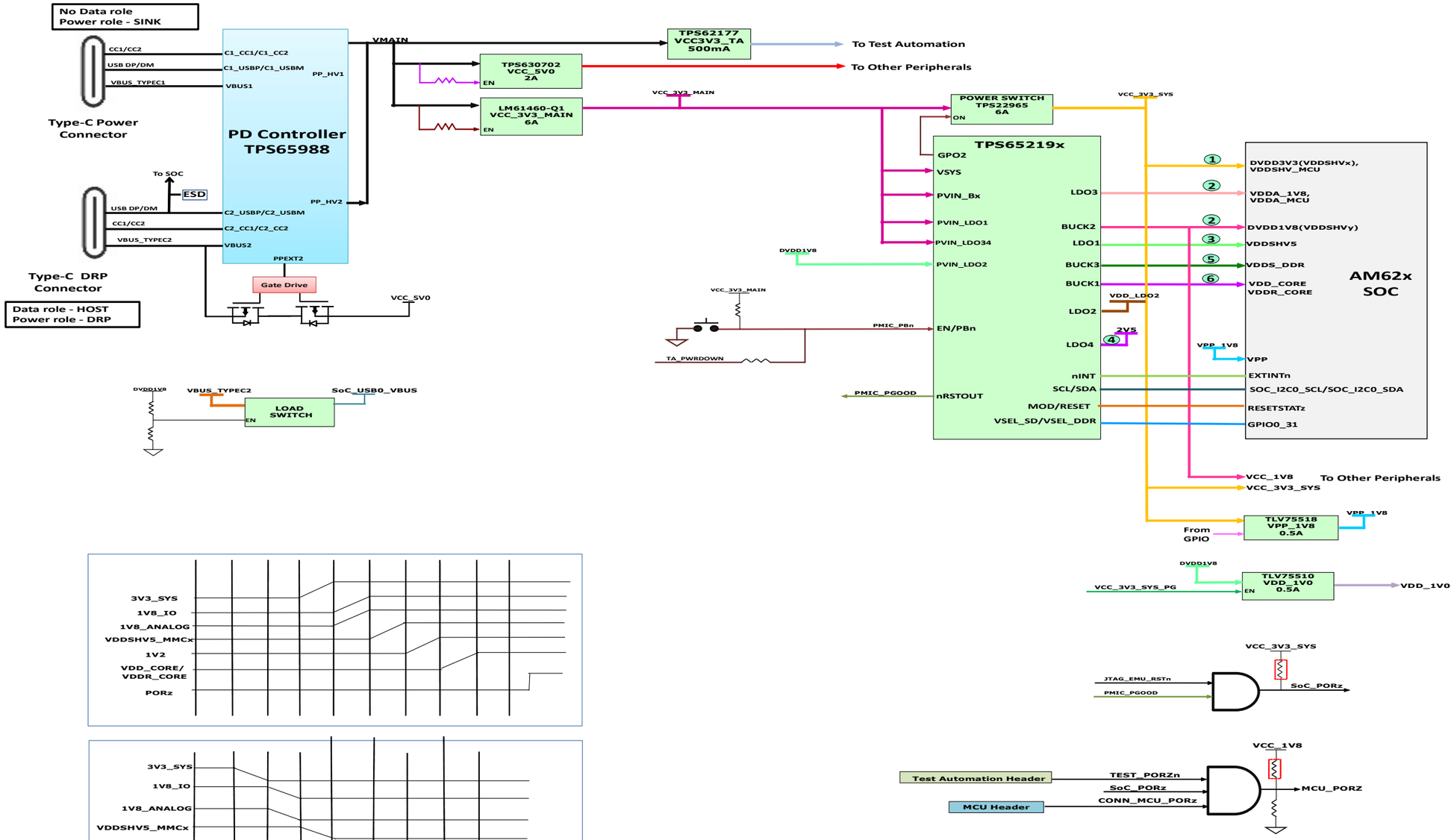
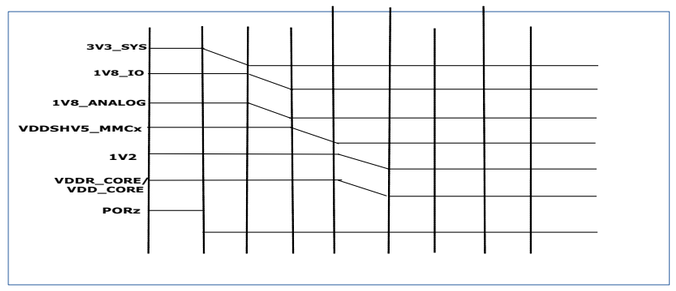
POWER SEQUENCE





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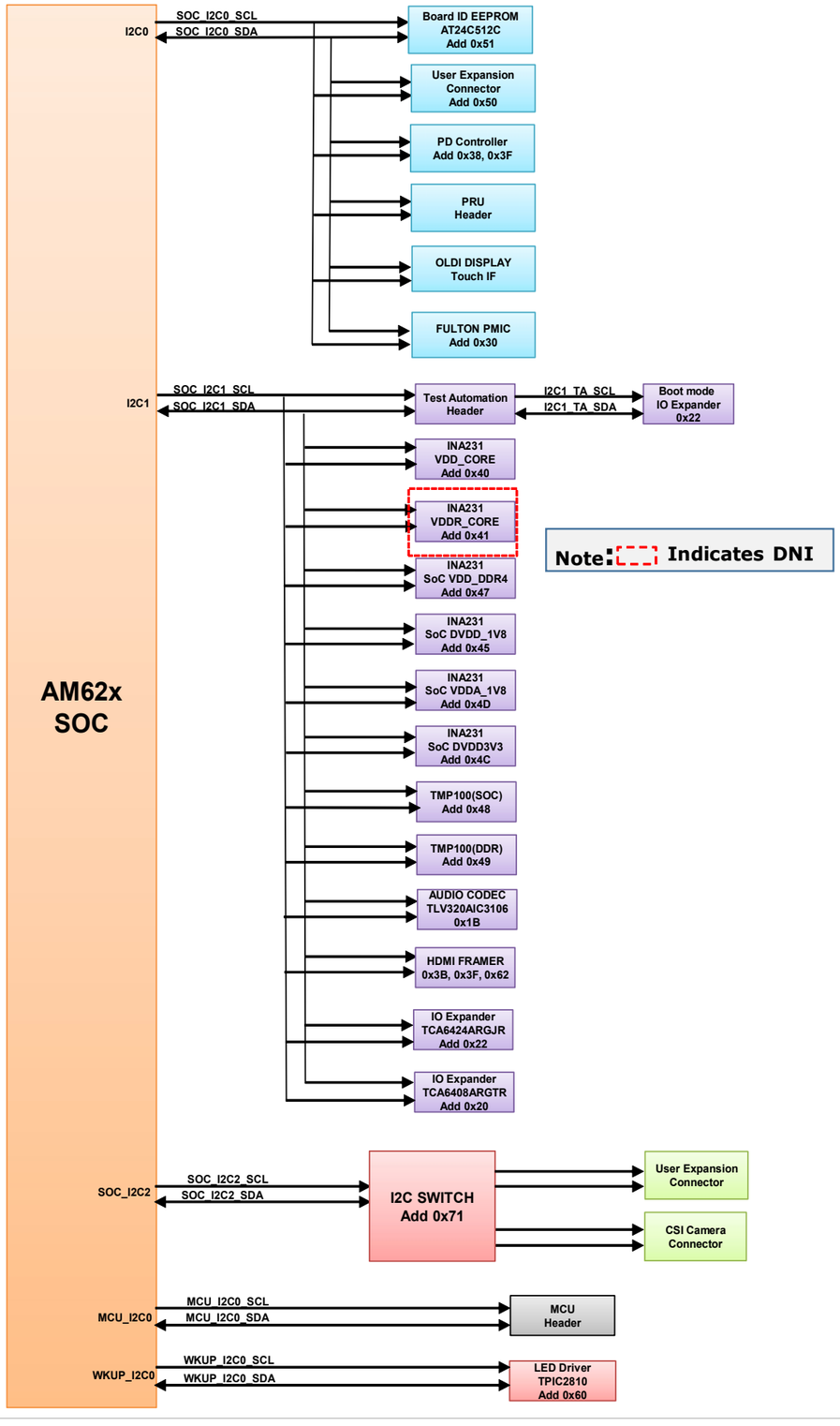
I2C TREE



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GPIO MAPPING TABLE

SL NO.	GPIO DESCRIPTION	GPIO NETNAME	Functionality	GPIO USED	SOC MUXED SIGNAL NAME	DIRECTION WITH RESPECT TO CONTROL	DEFAULT STATE	ACTIVE STATE	VOLTAGE DOMAIN ON SOC SIDE	VOLTAGE CONNECTED ON SKEVM
1	Enable for WLAN Interface	SoC_WLAN_EN_1V8	ENABLE	GPIO0_71	MMC2_SDCD	OUTPUT	LOW	HIGH	VDDSHV6	SoC_DVDD1V8
2	WLAN Interrupt	SoC_WLAN_IRQ_1V8	INTERRUPT	GPIO0_72	MMC2_SDWP	INPUT	HIGH	LOW	VDDSHV6	SoC_DVDD1V8
3	Enable for BT Interface	BT_EN_SOC_3V3	ENABLE	MCU_GPIO0_1	MCU_SPI0_CS0	OUTPUT	HIGH	LOW	VDDSHV_MCU	SoC_DVDD3V3
4	CPSW Ethernet PHY Interrupt PRU Connector Interrupt PMIC_INTn	CPSW_RGMII_INTn/PRU_INTn	INTERRUPT	GPIO1_31	EXTINTn	INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
5	OSPI Reset Control GPIO	GPIO_OSPI_RSTn	RESET	GPIO0_12	OSPI0_CSn1	OUTPUT	HIGH	LOW	VDDSHV1	SoC_DVDD1V8
6	OSPI Interrupt	OSPI_INTn	INTERRUPT	GPIO0_13	OSPI0_CSn2	INPUT	HIGH	LOW	VDDSHV1	SoC_DVDD1V8
7	SD Card IO Voltage Select	VSEL_SD	ENABLE	GPIO0_31	GPMC0_CLK	OUTPUT	LOW	HIGH	VDDSHV3	SoC_DVDD3V3
8	IO Expander Interrupt	MCU_GPIO0_15	INTERRUPT	MCU_GPIO0_15	MCU_MCAN1_TX	INPUT	HIGH	LOW	VDDSHV_CANUART	SoC_DVDD3V3
9	TEST GPIO1 from Test Automation Connector/ User Interrupt Push Button									
10	User Test LED 1	SOC_GPIO1_49	GPIO	GPIO1_49	MMC1_SDWP	OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
	IO EXPANDER - 01									
1	CPSW Ethernet PHY-2 Reset Control GPIO	GPIO_CPSW2_RST	RESET	IO EXPANDER - P01		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
2	CPSW Ethernet PHY-1 Reset Control GPIO	GPIO_CPSW1_RST	RESET	IO EXPANDER - P01		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
3	PRU Board Detection	PRU_DETECT	DETECTION	IO EXPANDER - P02		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
4	SD Card Load Switch Enable	MMC1_SD_EN	ENABLE	IO EXPANDER -P03		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
5	SOC eFuse Voltage(VPP=1.8V) Regulator Enable	VPP_LDO_EN	ENABLE	IO EXPANDER - P04		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
6	EXP CONN 3.3V Power Switch Enable	EXP_PS_3V3_EN	ENABLE	IO EXPANDER - P05		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
7	EXP CONN 5V Power Switch Enable	EXP_PS_5V0_EN	ENABLE	IO EXPANDER - P06		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
8	EXP CONN HAT Board Detection	RPI_HAT_DETECT	DETECTION	IO EXPANDER - P07		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
9	M.2 Connector Alert	WLAN_ALERT_3V3	ALERT	IO EXPANDER – P10		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
10	M.2 Connector WAKEUP	BT_UART_WAKE_SOC_3V3	WAKEUP	IO EXPANDER – P11		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
11	SOC UART1 Mux Select	UART1_MUX_SEL	SELECT	IO EXPANDER - P12		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
12	Enable for Wilink Level Translators	WL_LT_EN	ENABLE	IO EXPANDER - P13		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
13	HDMI Transmitter Reset Control GPIO	GPIO_HDMI_RSTn	RESET	IO EXPANDER - P14		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
14	Raspberry Pi Camera CSI0 GPIO1	CSI_GPIO1	INPUT/OUTPUT	IO EXPANDER - P15		NA	NA	NA	VDDSHV0	SoC_DVDD3V3
15	Raspberry Pi Camera CSI0 GPIO2	CSI_GPIO2	INPUT/OUTPUT	IO EXPANDER - P16		NA	NA	NA	VDDSHV0	SoC_DVDD3V3
16	PRU Power Switch Enable	PRU_3V3_EN	ENABLE	IO EXPANDER - P17		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
17	HDMI Interrupt	HDMI_INTn	INTERRUPT	IO EXPANDER - P20		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
18	TEST GPIO2 from Test Automation Connector	TEST_GPIO2	GPIO for communications with AM62x	IO EXPANDER - P21		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
19	MCASP2 Enable and Direction Control	AUD_BUF_EN	ENABLE	IO EXPANDER - P22		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
20		WL_BUF_EN	ENABLE	IO EXPANDER - P23		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
21		AUD_BUF_CLK_DIR	DIRECTION CONTROL	IO EXPANDER - P24		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
22		WL_BUF_CLK_DIR	DIRECTION CONTROL	IO EXPANDER - P25		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
23	OLDI Display Touch Interrupt	TS_INT#	INTERRUPT	IO EXPANDER - P26		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
24	User Test LED 2	IO_EXP_TEST_LED	GPIO	IO EXPANDER - P27		OUTPUT	LOW	HIGH	VDDSHV0	SoC_DVDD3V3
	IO EXPANDER - 02									
1	M.2 Connector SDIO Reset Control GPIO	WLAN_SDIO_RST_3V3	RESET	IO EXPANDER – P0		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
2	OLDI Display Reset control	GPIO_TS_RSTn	RESET	IO EXPANDER – P1		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
3	Audio Codec Reset Control GPIO	GPIO_AUD_RSTn	DETECTION	IO EXPANDER – P2		INPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3
4	eMMC Reset control GPIO	GPIO_eMMC_RSTn	RESET	IO EXPANDER – P3		OUTPUT	HIGH	LOW	VDDSHV0	SoC_DVDD3V3

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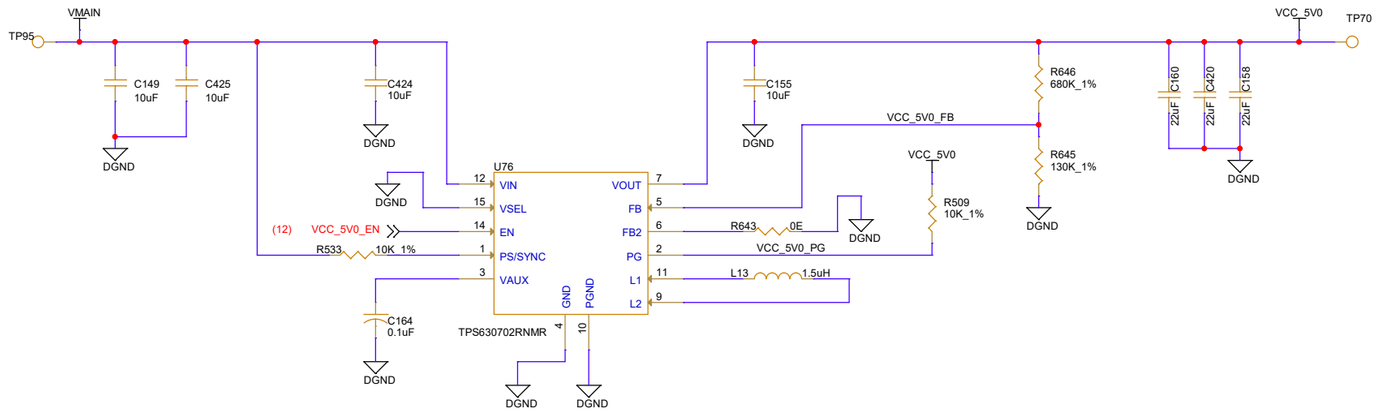
PERIPHERAL POWER SUPPLY-1



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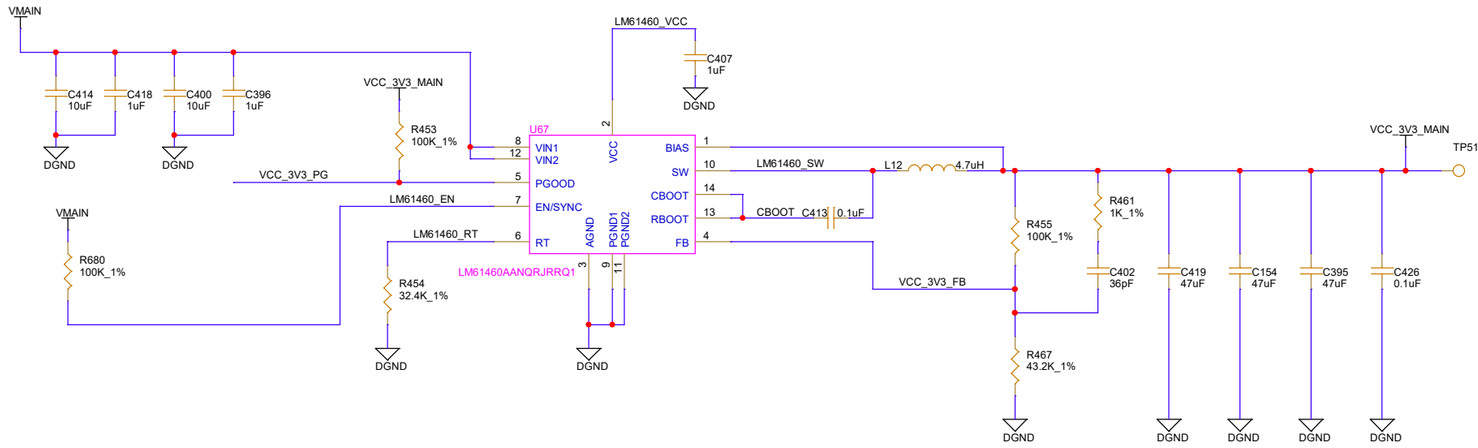
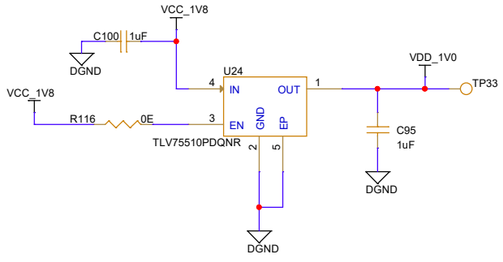
PERIPHERAL POWER SUPPLY-2

3.3V, 6.0AMPS SUPPLY

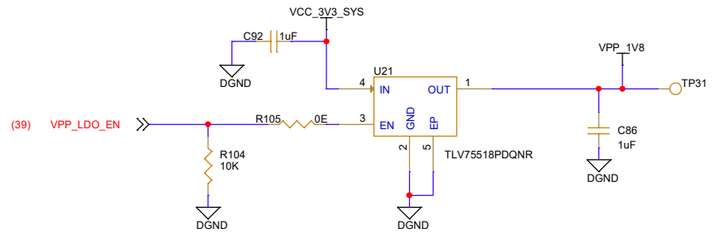
VinMin = 4.5V
VinMax = 24V
Vout = 3.3V @ 6A



1.0V, 0.5AMPS SUPPLY (ETHERNET)



1.8V VPP, 0.5AMPS SUPPLY



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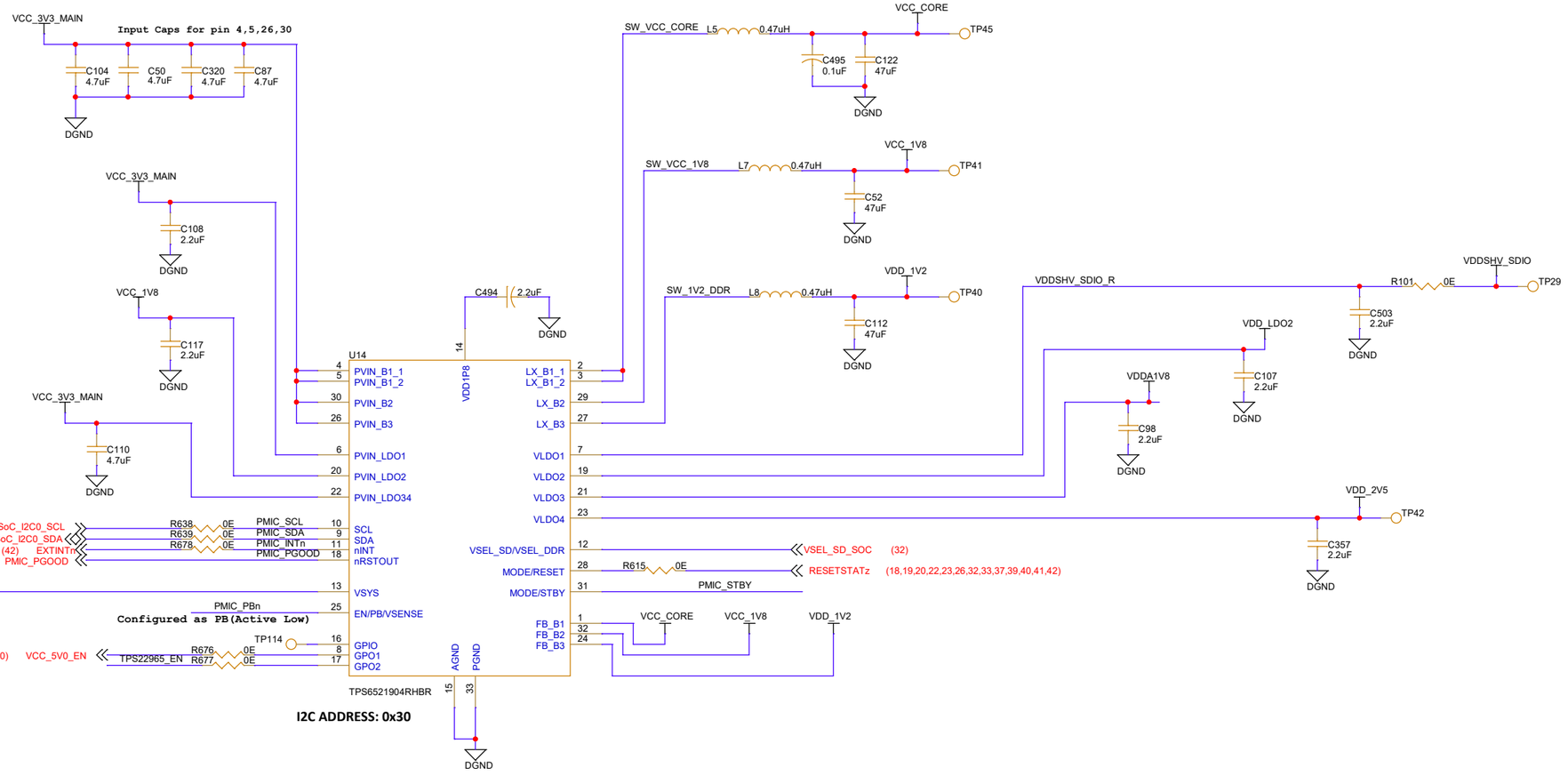
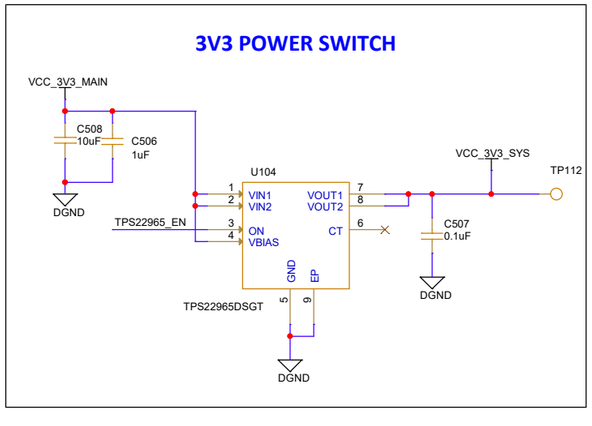
FULTON PMIC

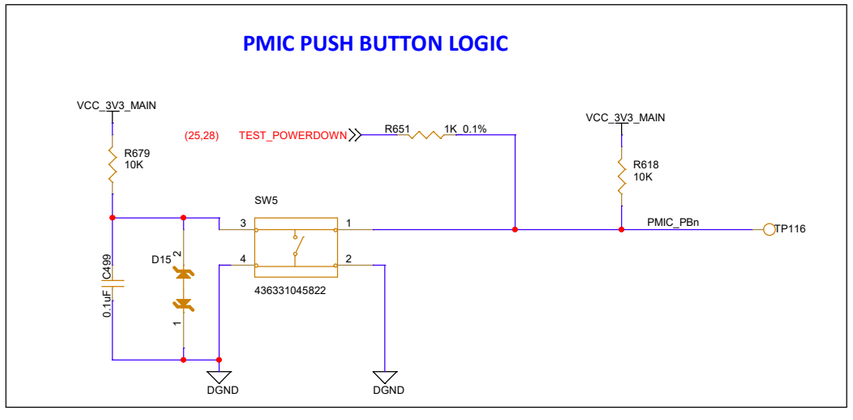
PMIC REGULATORS	VOLTAGE RAIL	CURRENT(mA)
BUCK 1	VCC_CORE(0.85V)	2700
BUCK 2	VCC_1V8	995
BUCK 3	VDD_1V2	936
LDO 1	VDDSHV_SDIO	50
LDO 2	VDD_LDO2	150
LDO 3	VDDA1V8	200
LDO 4	VDD_2V5	300



3V3 POWER SWITCH



PMIC PUSH BUTTON LOGIC



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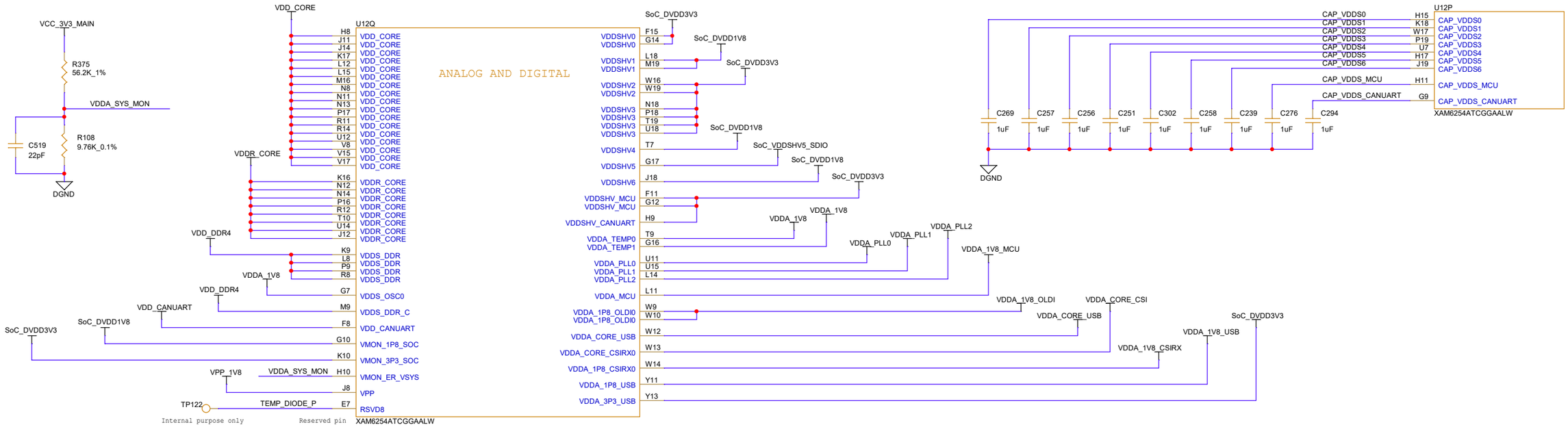
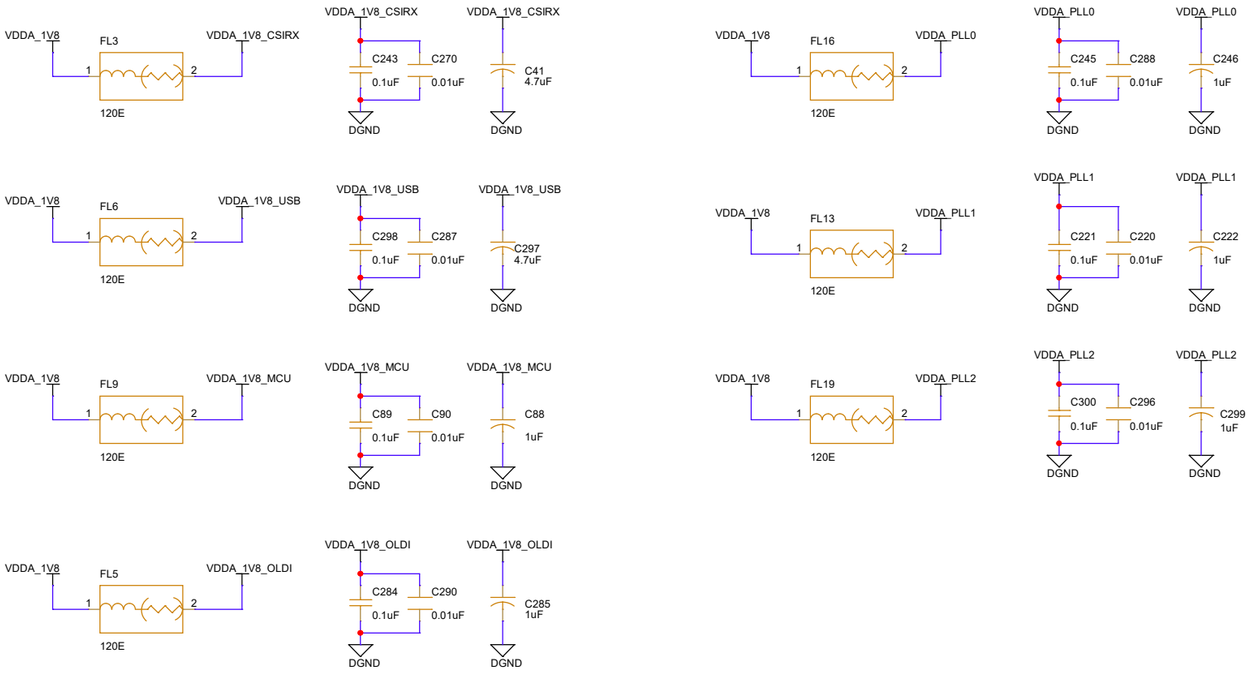
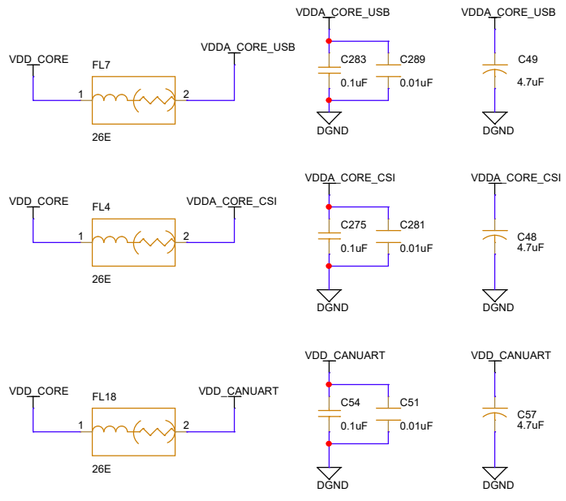
SOC POWER



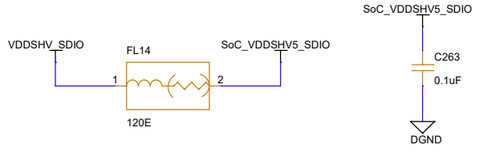
1.8V Analog SUPPLY



CORE SUPPLY



3.3V/1.8V MMC1 SUPPLY



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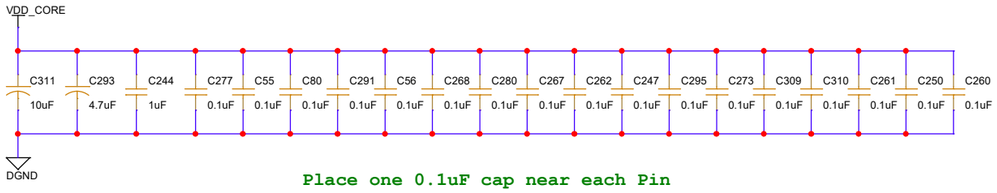
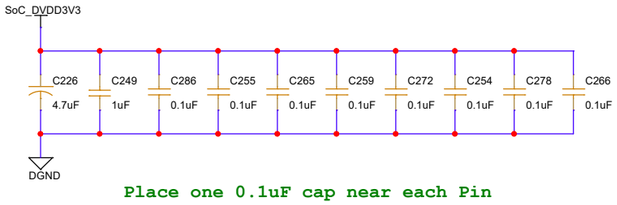
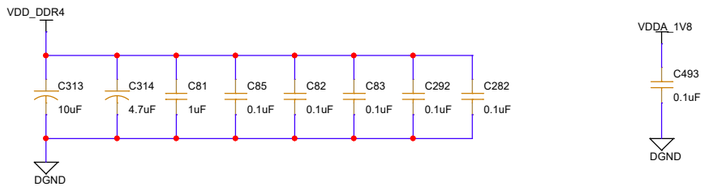
SOC POWER DECAPS



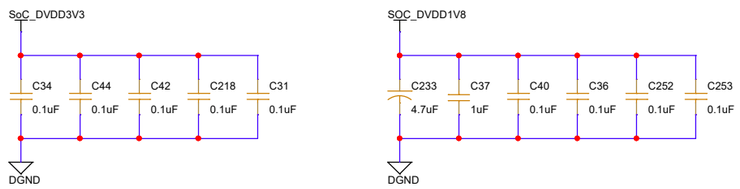
Place one 0.1uF cap near each Pin



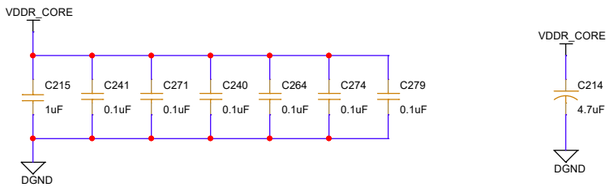
Place one 0.1uF cap near each Pin



Place one 0.1uF cap near each Pin

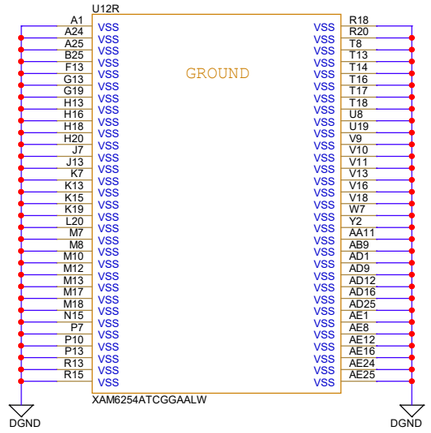


Place one 0.1uF cap near each Pin



Place one 0.1uF cap near each Pin

SOC VSS



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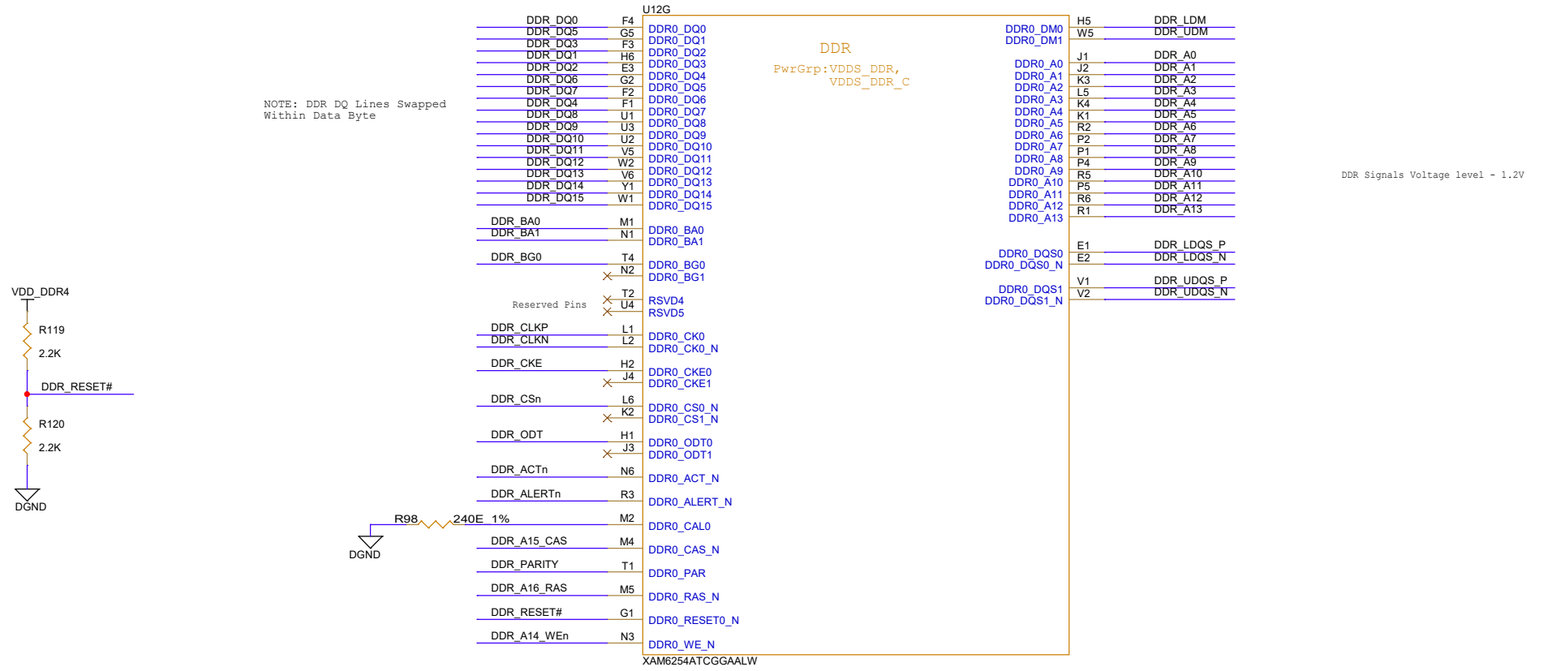
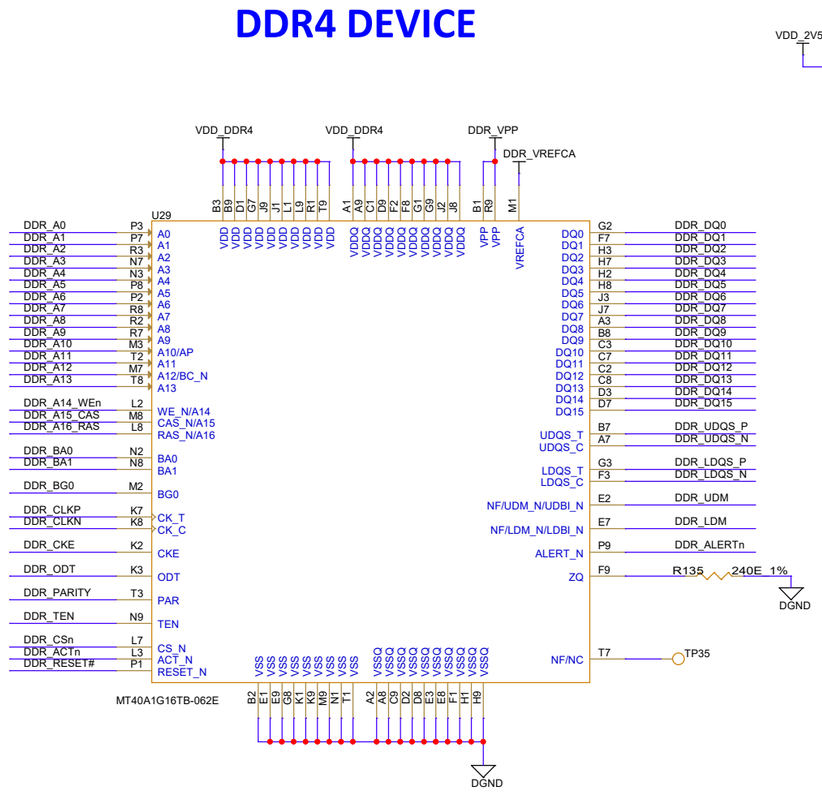
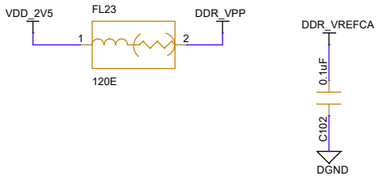
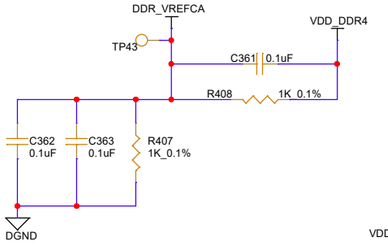
SOC DDR INTERFACE

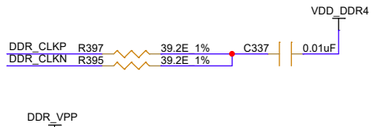


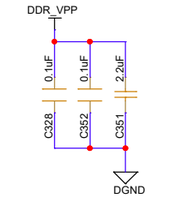
DDR4 DEVICE

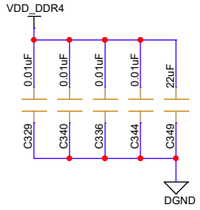


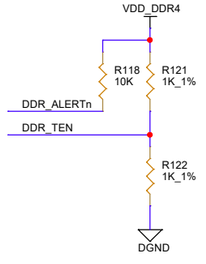


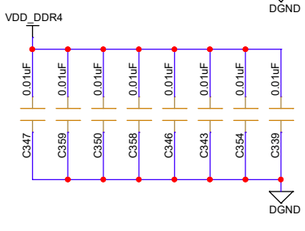


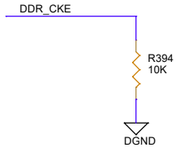








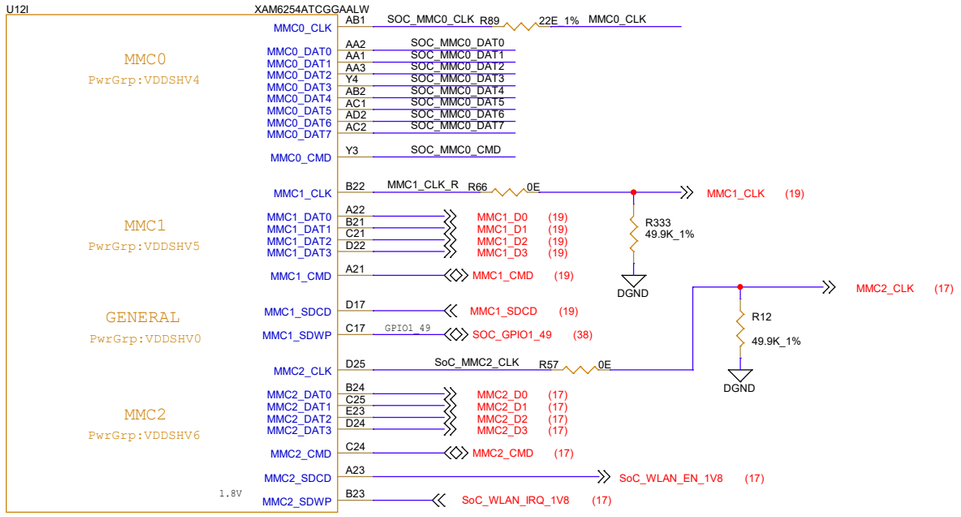




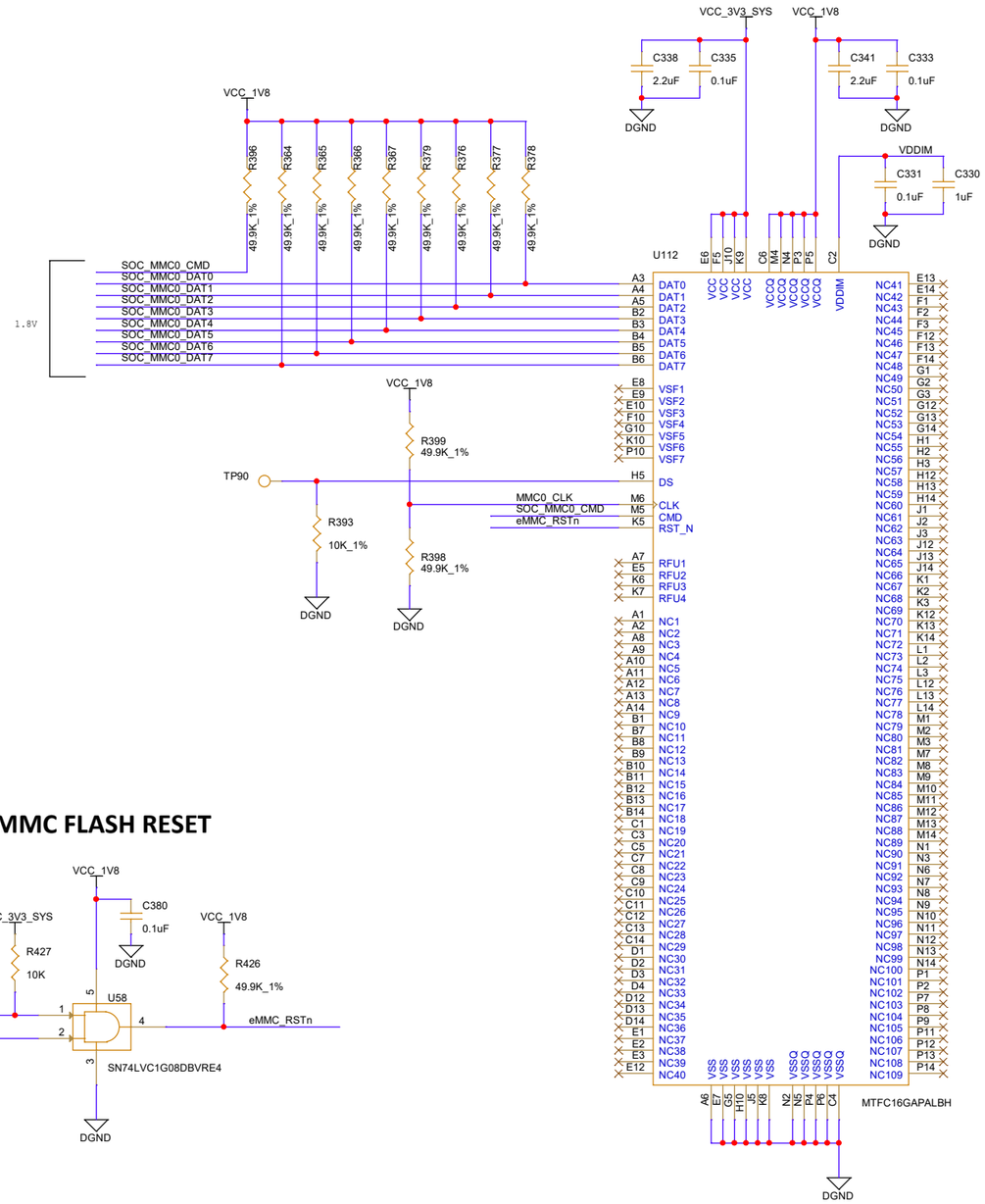
Designed for TI by Mistral Solutions Pvt Ltd

Title	DDR4 Interface	
Size C	Variant Name = PROC142A1	Rev A1
Date: Sunday, April 13, 2025	Sheet 16 of 44	

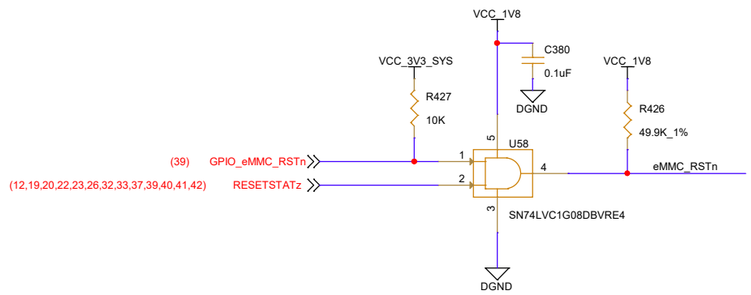
SOC - MMC Interface



eMMC FLASH



eMMC FLASH RESET



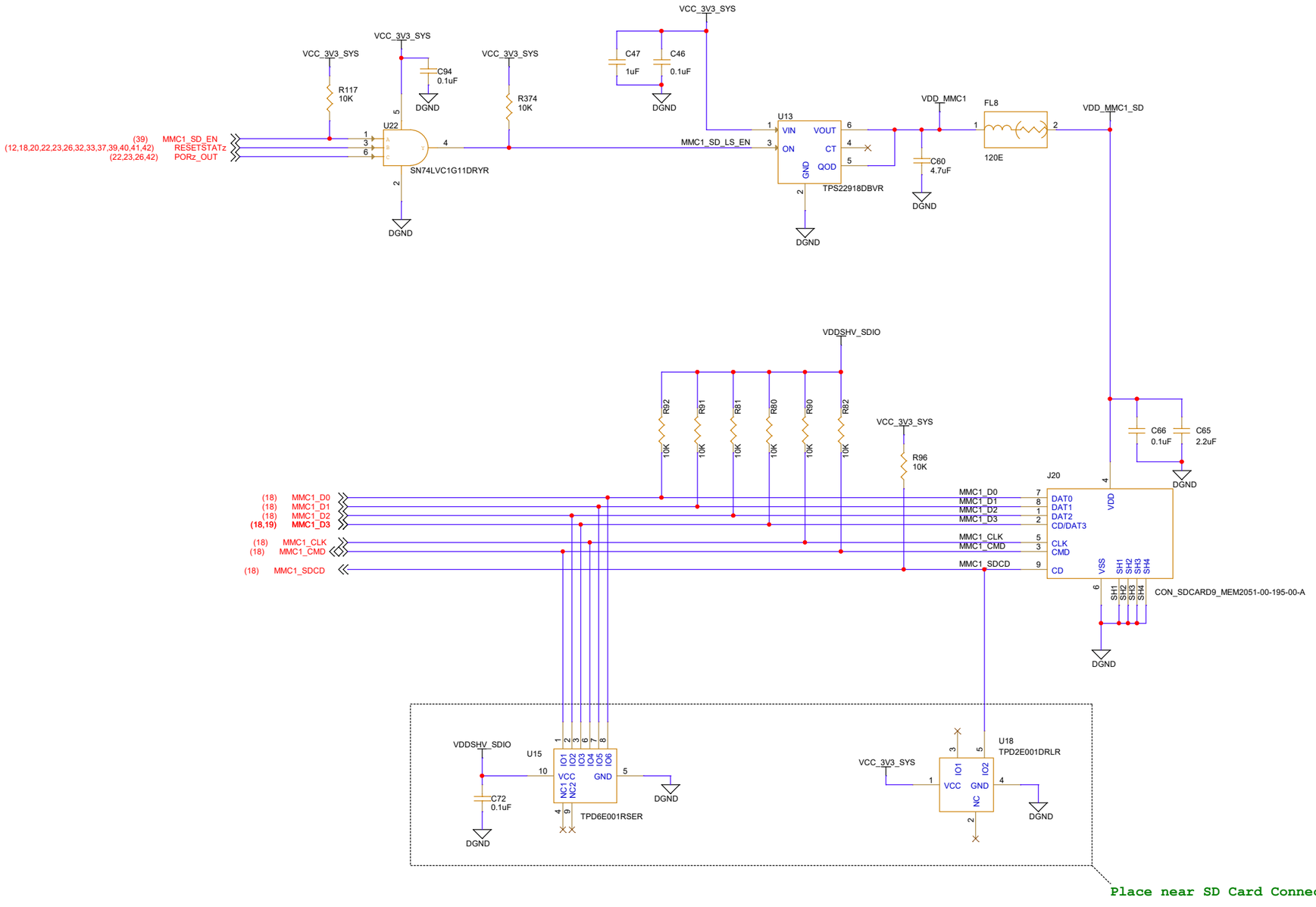
Designed for TI by Mistral Solutions Pvt Ltd

Title	eMMC FLASH INTERFACE	
Size: C	PROC142A1	Rev: A1
Date: Monday, February 24, 2025	Sheet 18 of 44	

SD CARD INTERFACE

SD CARD RESET

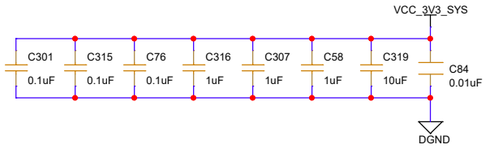
LOAD SWITCH

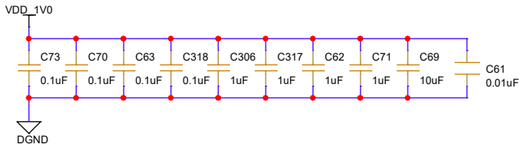


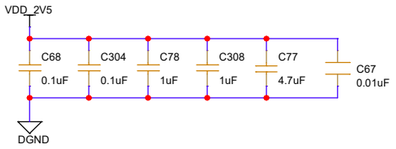
Designed for TI by Mistral Solutions Pvt Ltd

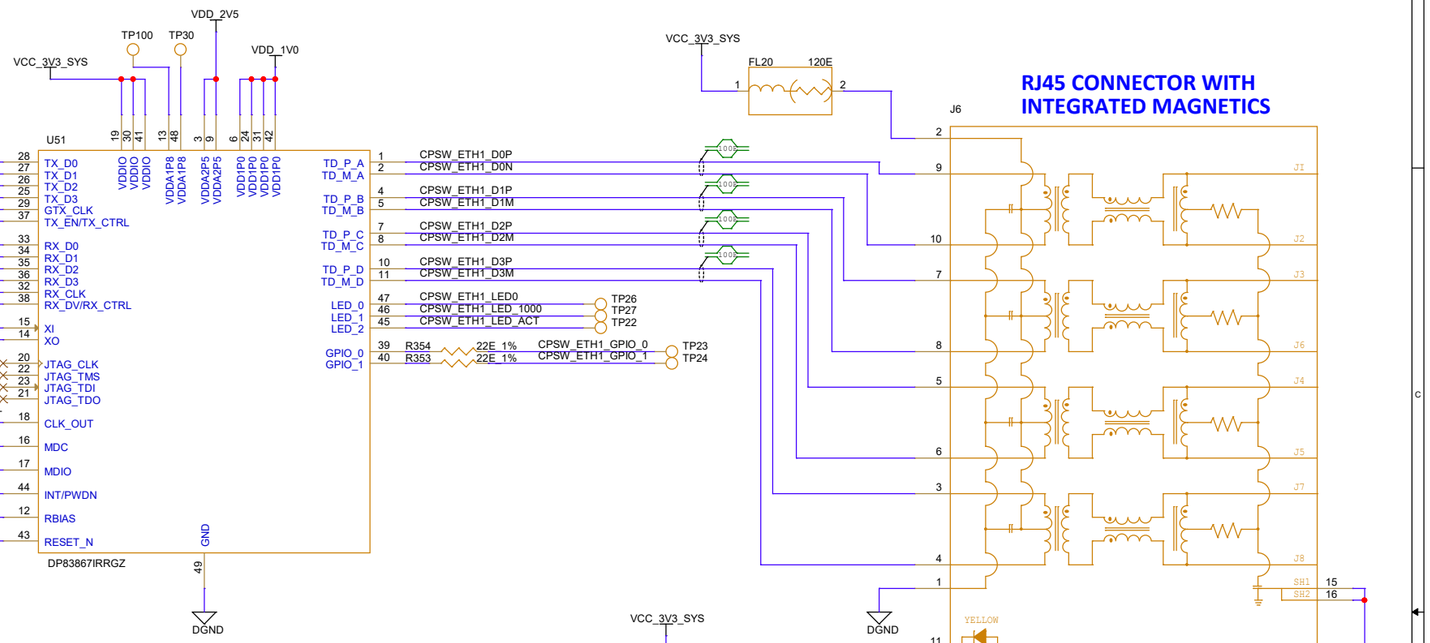
Title	SD CARD INTERFACE		
Size	PROC142A1		Rev
C			A1
Date:	Sunday, April 13, 2025	Sheet 19 of 44	

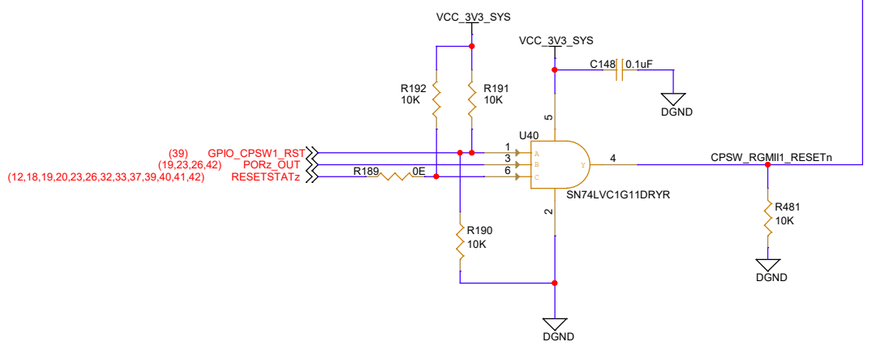
CPSW RGMII 1 - PHY

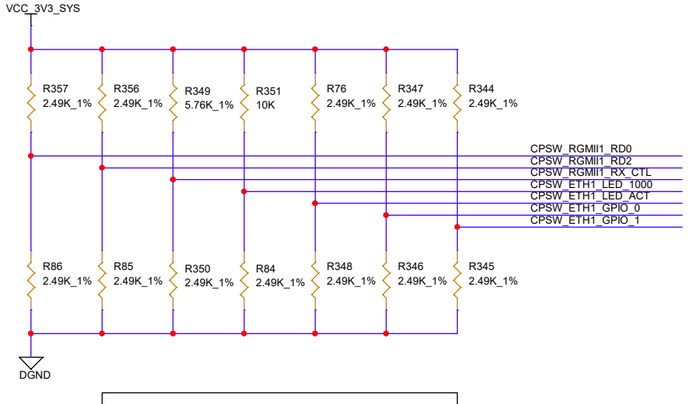


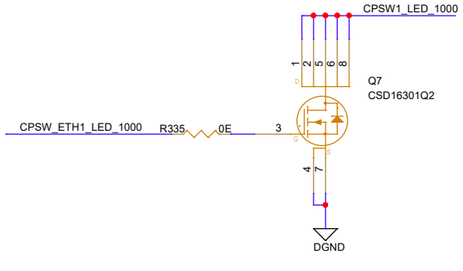


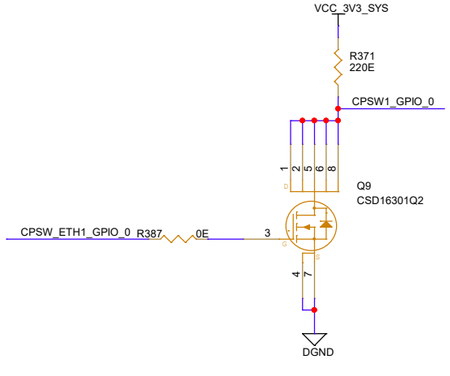


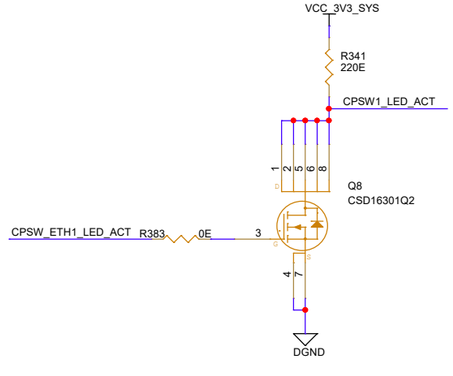












Silk: CPSW PHY-1

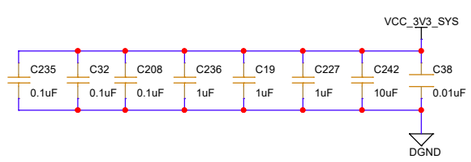
```
PHY ADDRESS = 00000
Auto-negotiation Enabled
10/100/1000 advertised, Auto-MDI-X
Tx Clock Skew = 0ns
Rx Clock Skew = 2ns
```

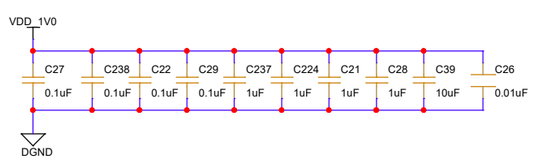
Designed for TI by Mistral Solutions Pvt Ltd

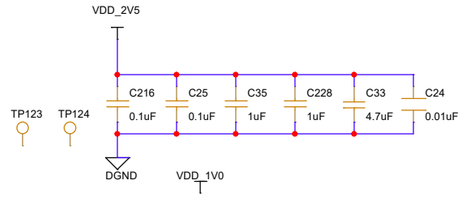
Title	CPSW RGMII_1 ETHERNET PHY	
Size C	PROC142A1	Rev A1
Date: Sunday, April 13, 2025	Sheet 22 of 44	

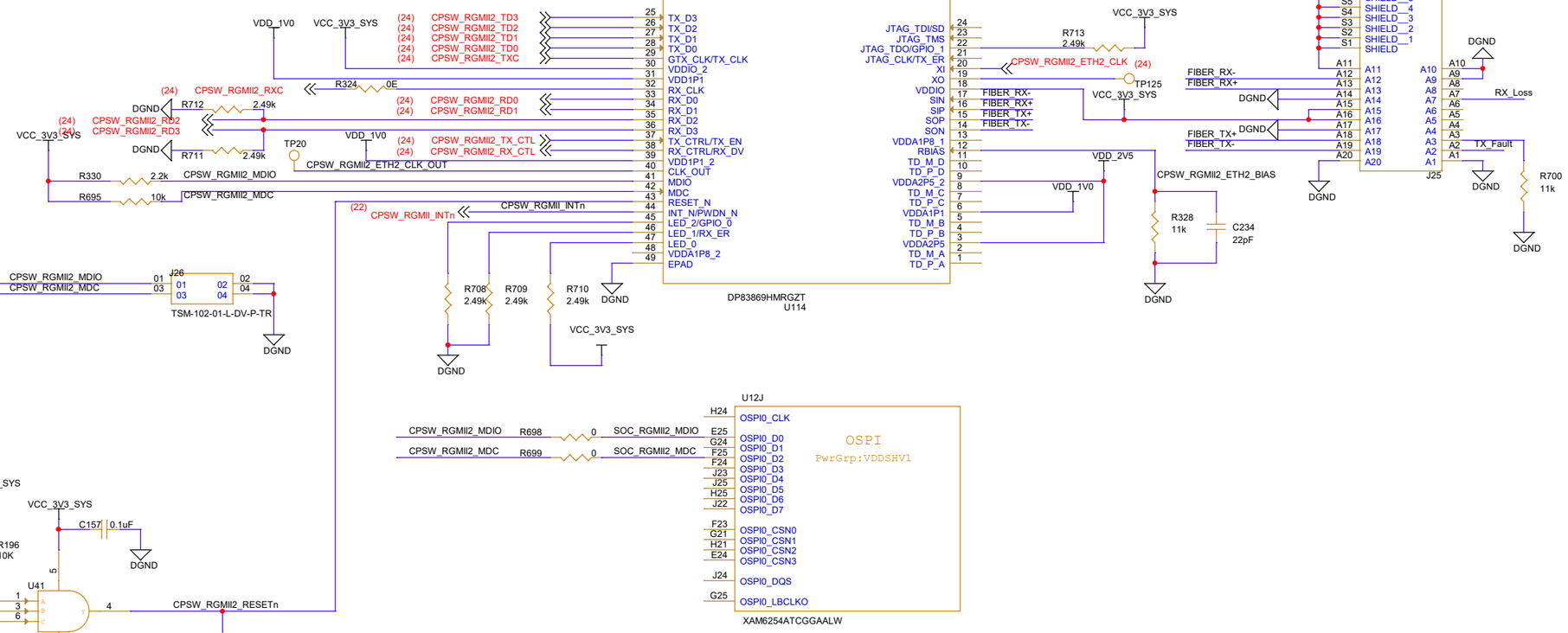
CPSW RGMII 2 - PHY

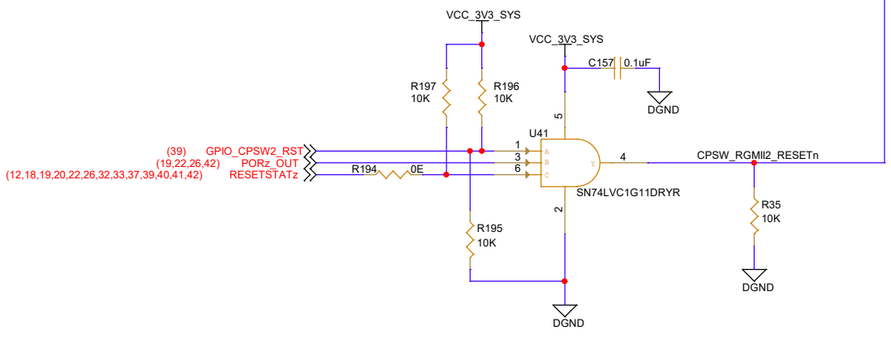
RJ45 CONNECTOR WITH INTEGRATED MAGNETICS

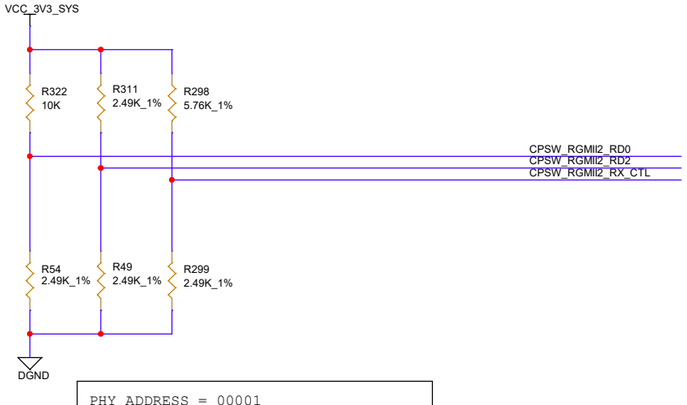


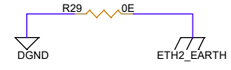












PHY ADDRESS = 00001
Auto-negotiation Enabled
10/100/1000 advertised, Auto-MDI-X
Tx Clock Skew = 0ns
Rx Clock Skew = 2ns

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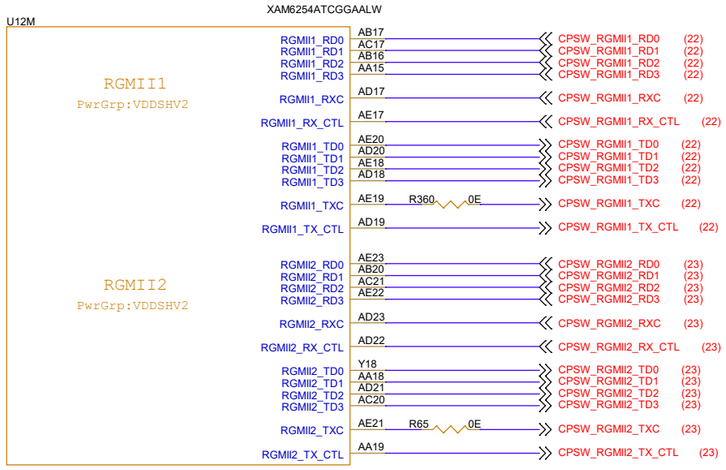
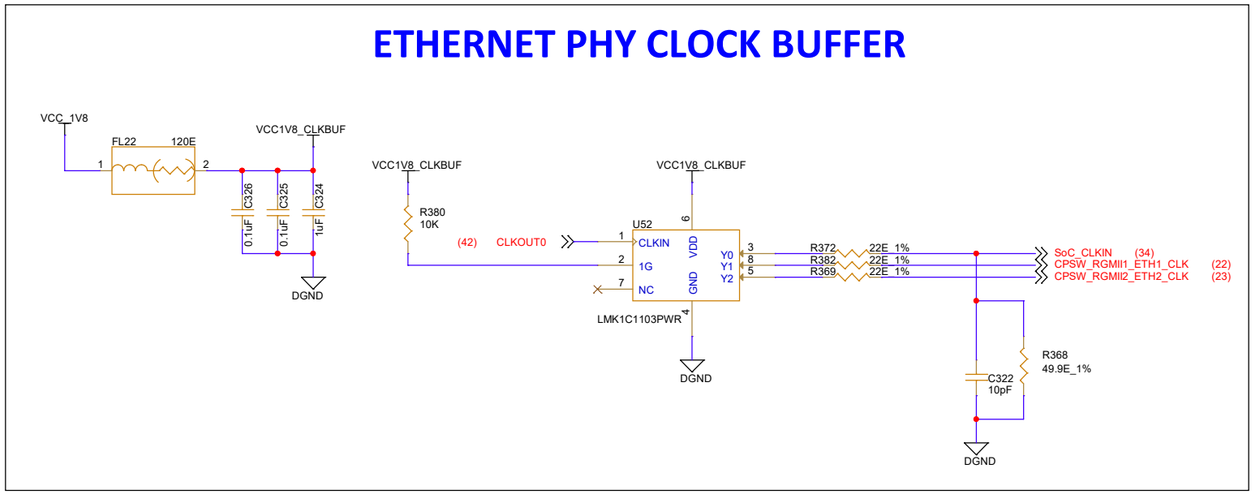
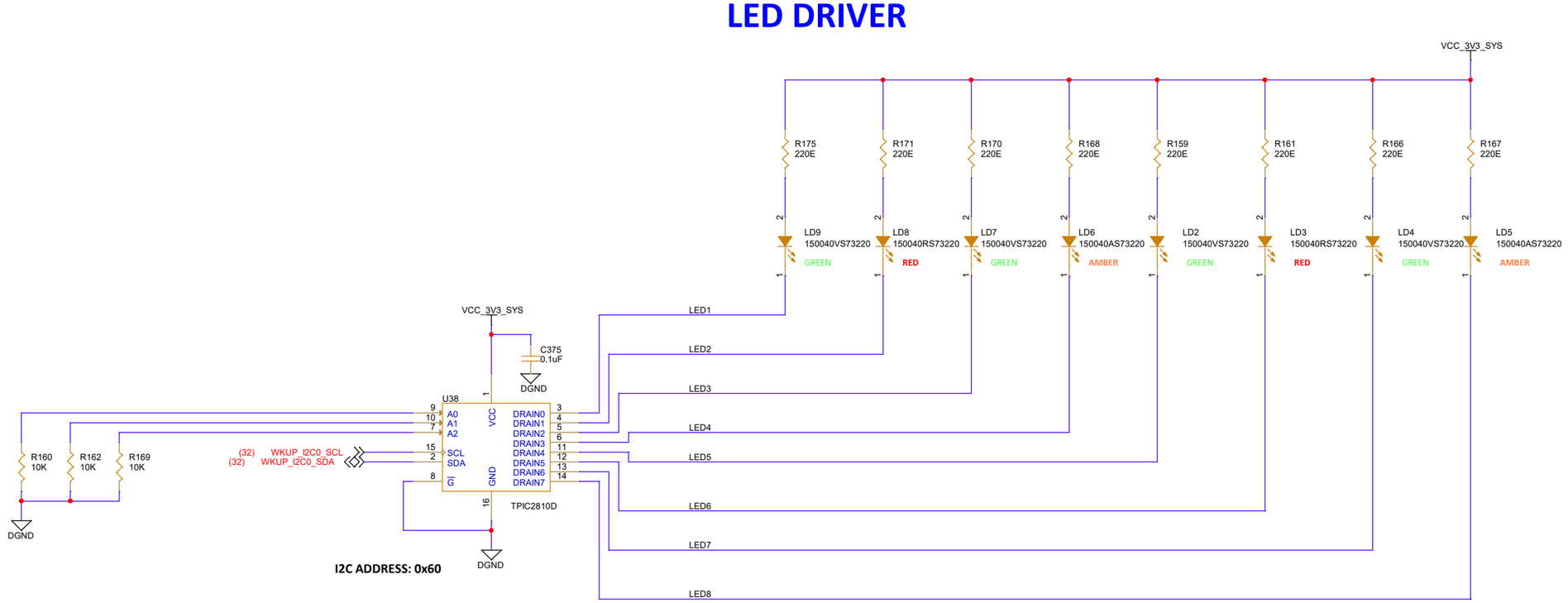
Title	CPSW RGMII_2 ETHERNET PHY		
Size	PROC142A1		Rev
C			A1
Date:	Sunday, April 13, 2025	Sheet 23 of 44	



ETHERNET PHY CLOCK BUFFER



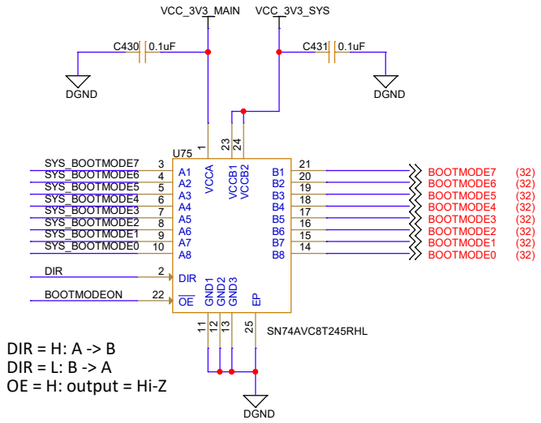
LED DRIVER

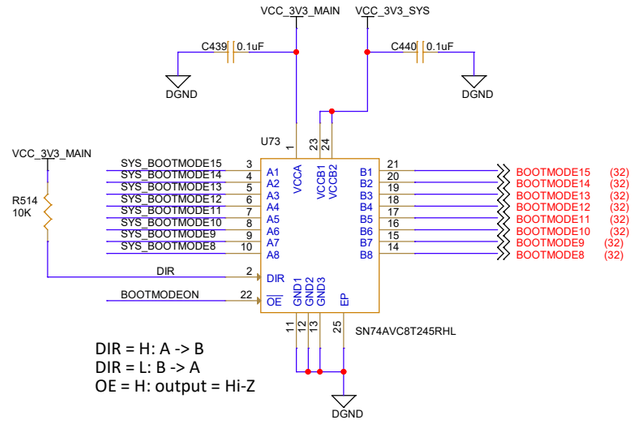


Designed for TI by Mistral Solutions Pvt Ltd

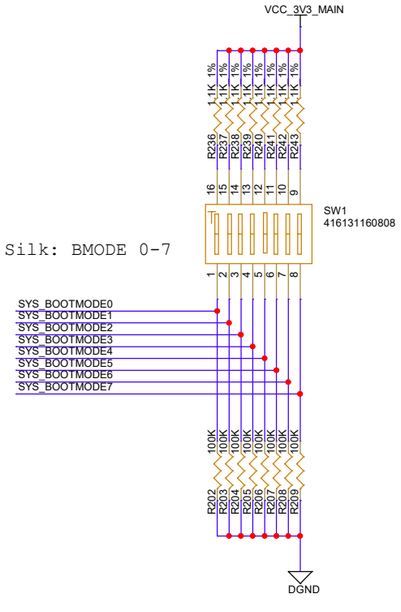
Title	ETHERNET PHY CLOCK BUFFER & LED DRIVER	
Size C	PROC142A1	Rev A1
Date: Sunday, April 13, 2025	Sheet 24 of 44	

BOOT MODE BUFFERS

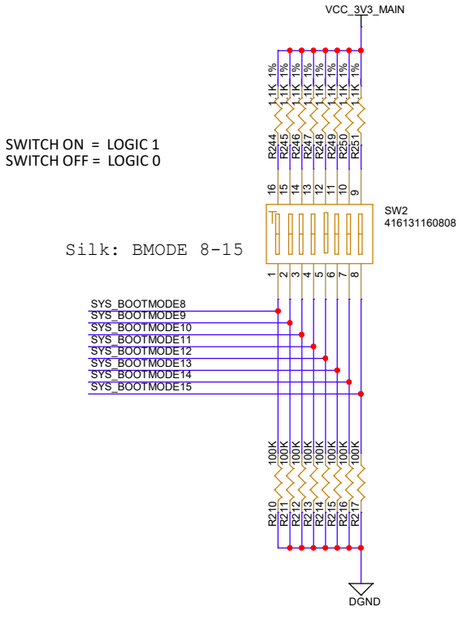




BOOT MODE SWITCHES



SWITCH ON = LOGIC 1
SWITCH OFF = LOGIC 0



BOOT MODES SUPPORTED

1. OSPI
2. MMC1 - SD CARD
3. UART
4. eMMC
5. BACKUP BOOT OPTION

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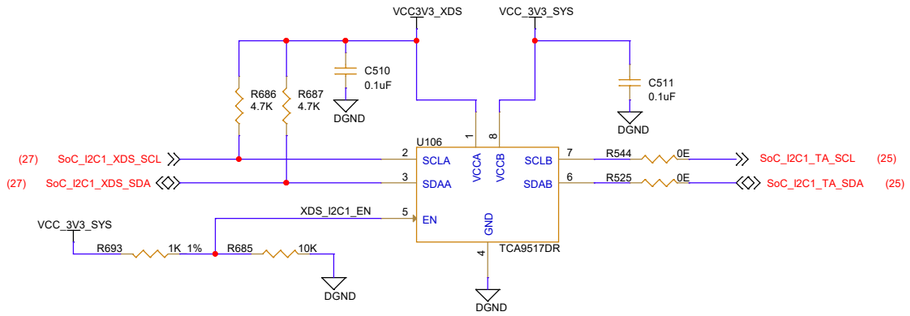
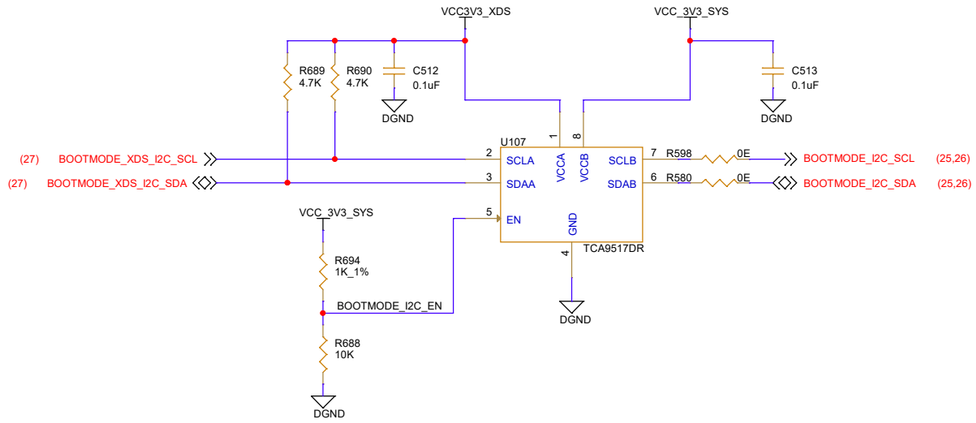
Title	BOOT MODE BUFFER & SWITCHES		
Size C	PROC142A1		Rev A1
Date: Thursday, April 03, 2025		Sheet 26 of 44	

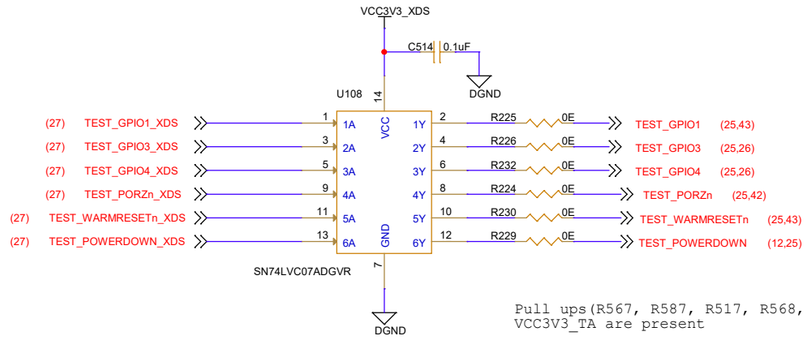
I2C_TA BUS BUFFER



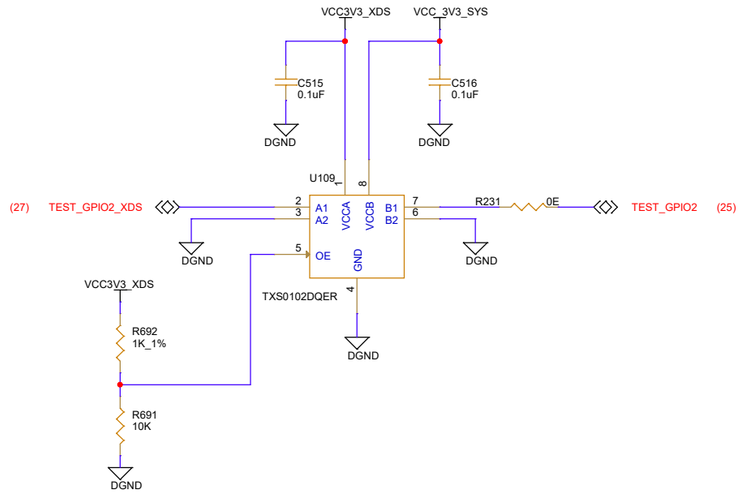
BOOTMODE_I2C_TA BUFFER



ISOLATION BUFFERS FOR TA SIGNALS



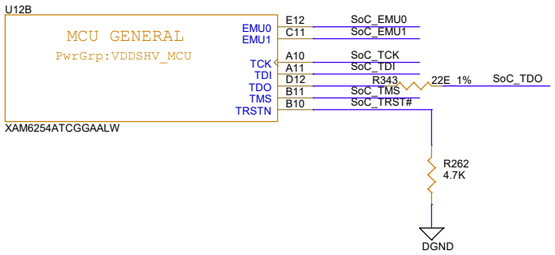
Pull ups(R567, R587, R517, R568, R585, R586 & R566) to VCC3V3_TA are present



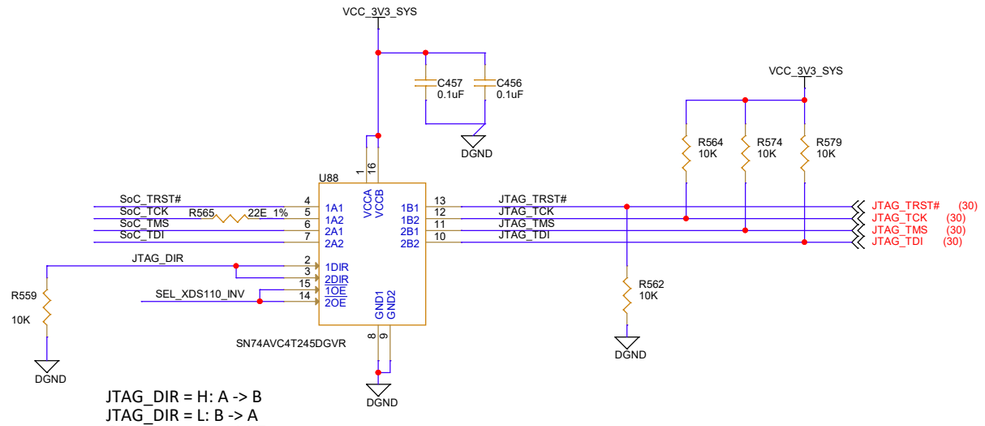
Designed for TI by Mistral Solutions Pvt Ltd

Title	AUTOMATION SIGNALS BUFFER		
Size	PROC142A1		Rev
C			A1
Date:	Friday, April 04, 2025	Sheet 28 of 44	

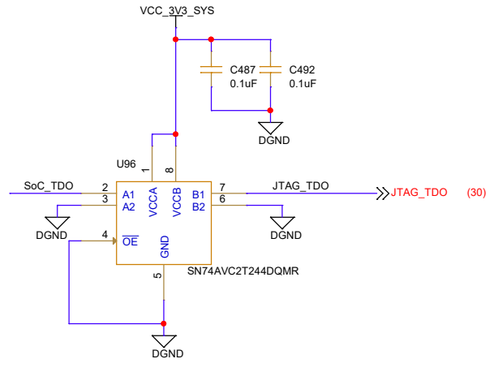
JTAG SOC SECTION



cTI20 JTAG BUFFERS



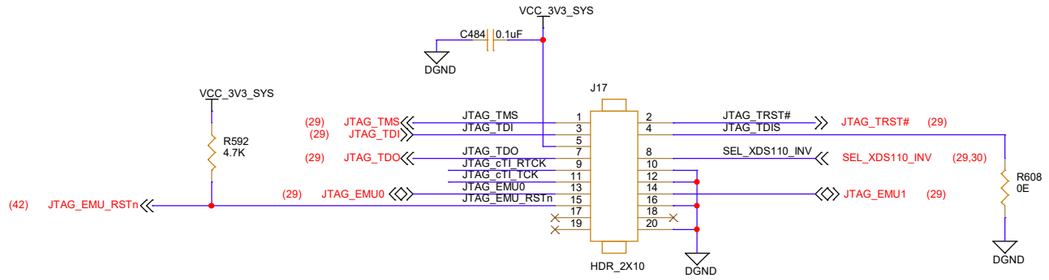
JTAG_DIR = H: A -> B
JTAG_DIR = L: B -> A
OE = H: output = Hi-Z



Designed for TI by Mistral Solutions Pvt Ltd

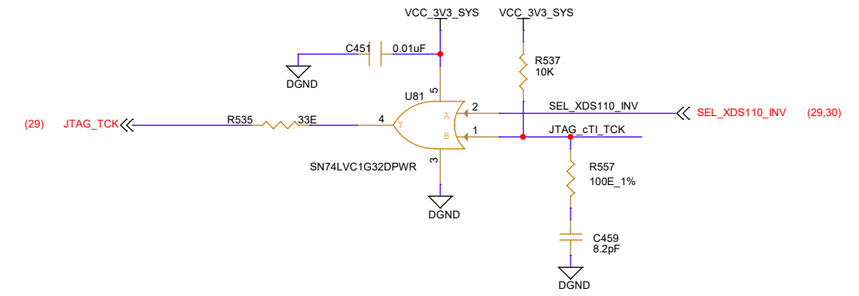
Title	JTAG BUFFER		
Size C	PROC142A1		Rev A1
Date:	Wednesday, March 19, 2025	Sheet 29 of 44	

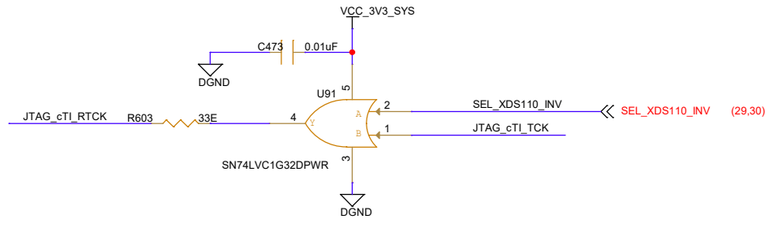
JTAG 20 PIN cTI CONNECTOR



Silk: cTI

JTAG CLOCK BUFFER

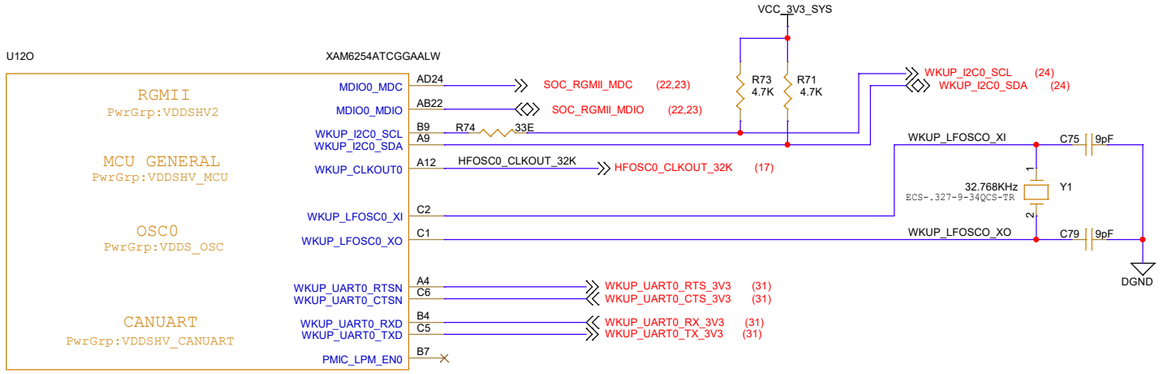




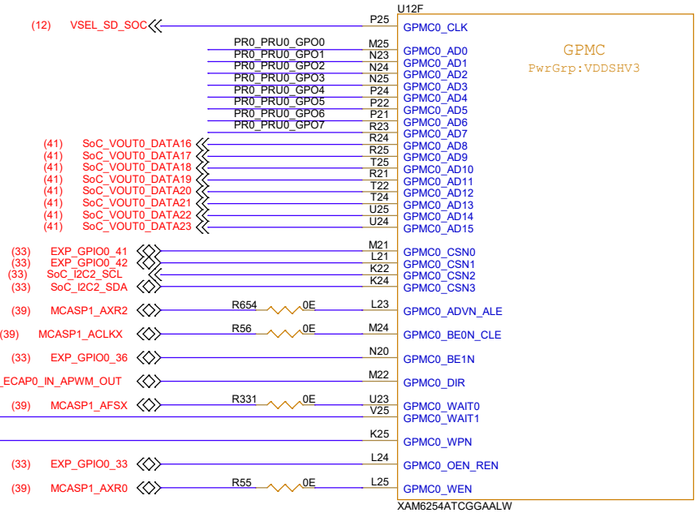
Designed for TI by Mistral Solutions Pvt Ltd

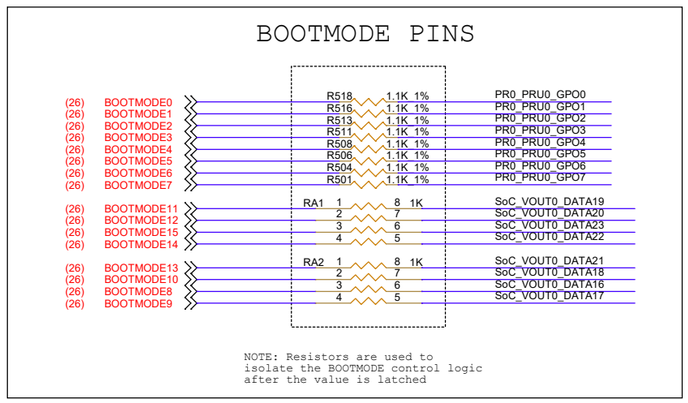
Title	JTAG 20 PIN cTI CONNECTOR	
Size: C	PROC142A1	Rev: A1
Date: Sunday, April 13, 2025	Sheet 30 of 44	

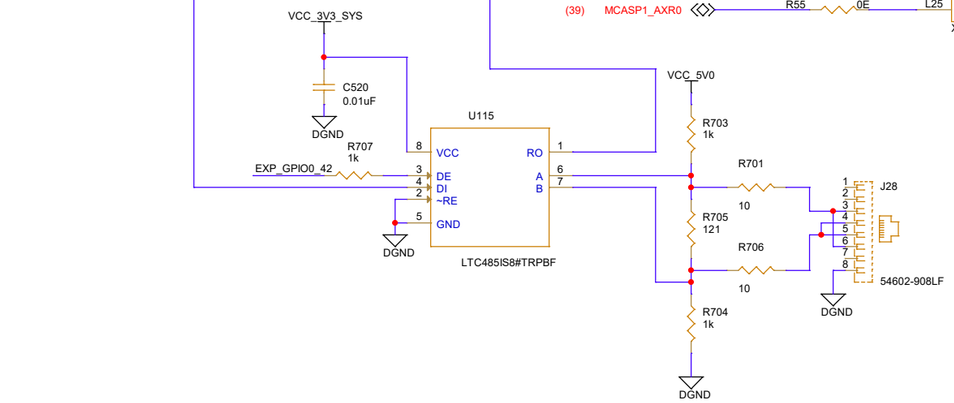
SOC WKUP DOMAIN



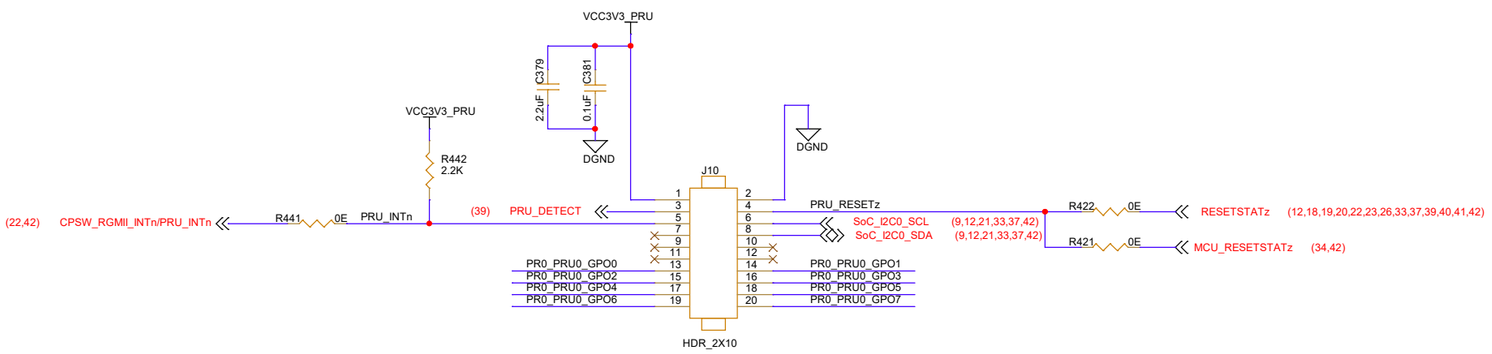
SOC GPMC







PRU HEADER



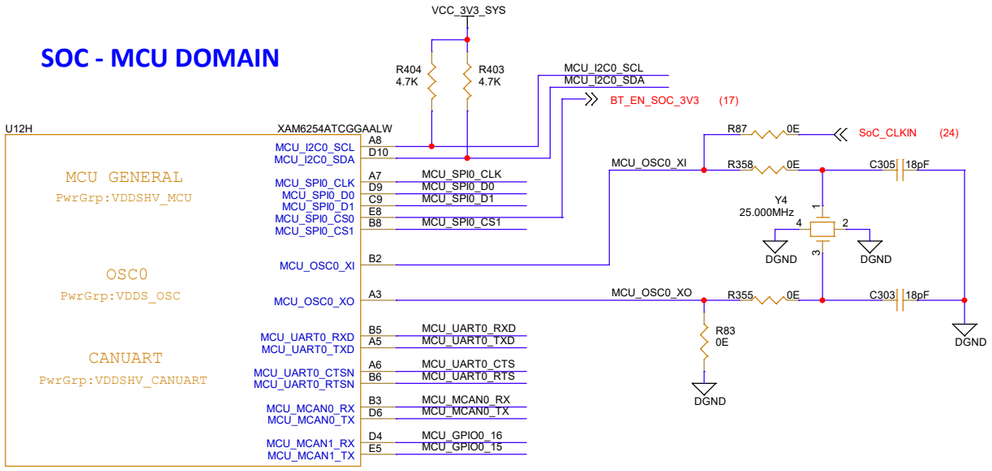
Silk: PRU HDR

NOTE: PRU Header I/O are not fail-safe and shall not be driven when AM62x Starter Kit is not powered.

Designed for TI by Mistral Solutions Pvt Ltd

Title	PRU HEADER		
Size	PROC142A1		Rev
C			A1
Date:	Sunday, April 13, 2025	Sheet 32 of 44	

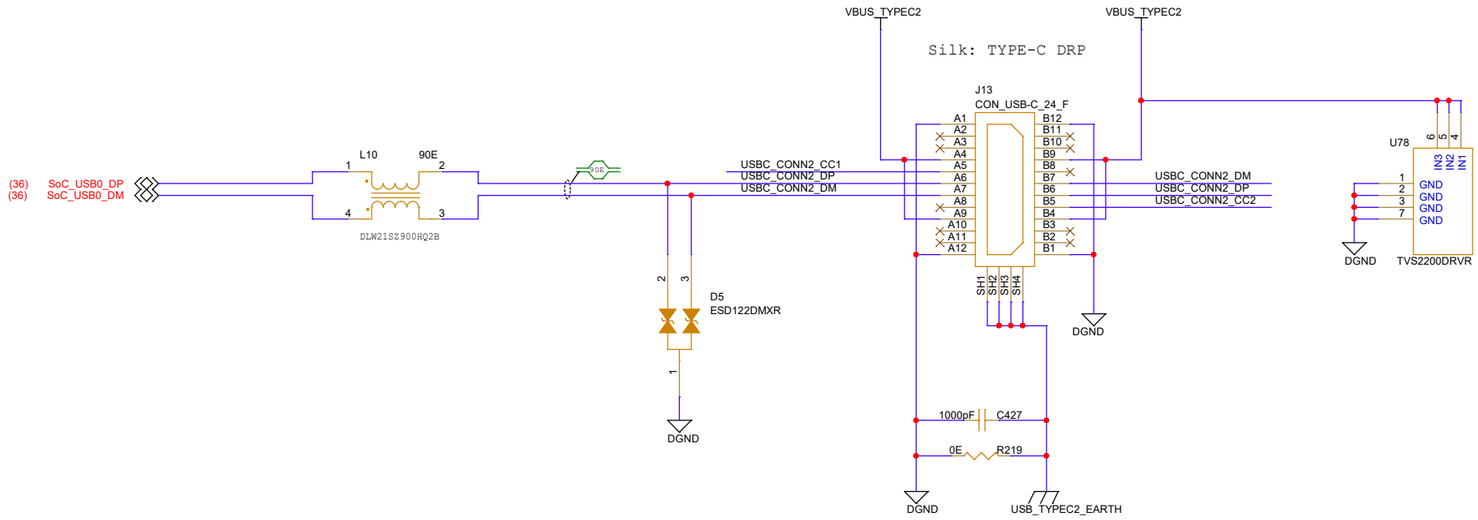
SOC - MCU DOMAIN

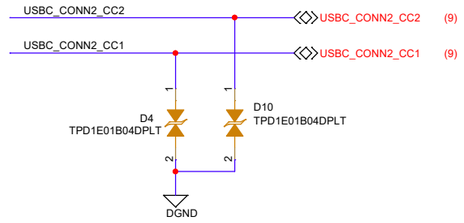


Designed for TI by Mistral Solutions Pvt Ltd

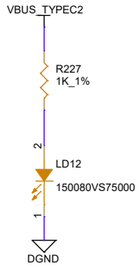
Title	MCU HEADER		
Size C	PROC142A1		Rev A1
Date: Sunday, April 13, 2025		Sheet 34 of 44	

USB0 TYPE-C DRP

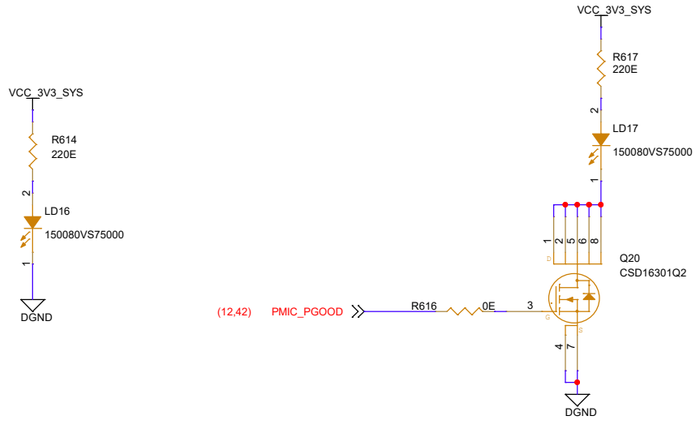




POWER INDICATION LED: VBUS_TYPEC2



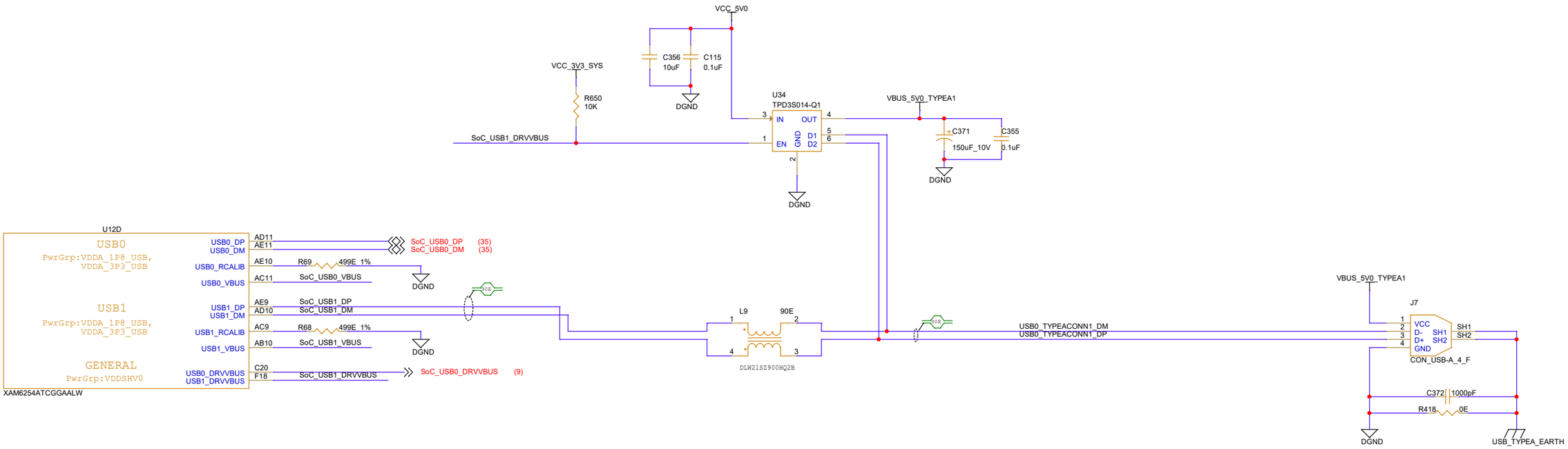
POWER RAIL LEDS



Designed for TI by Mistral Solutions Pvt Ltd

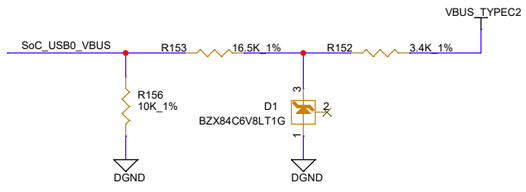
Title	USB0 TYPE-C DRP		
Size C	PROC142A1		Rev A1
Date: Sunday, April 13, 2025		Sheet 35 of 44	

USB1 TYPE-A

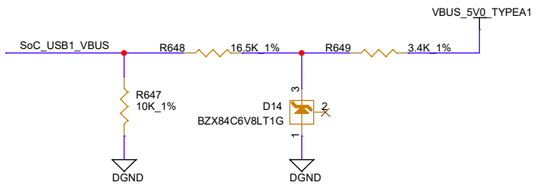


Silk: TYPE-A

Note: Recommended VBUS circuit for USB connector. Supports 5V-30V VBUS



Note: Recommended VBUS circuit for SoC_USB1_VBUS



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Title	USB1 TYPE-A		
Size C	PROC142A1		Rev A1
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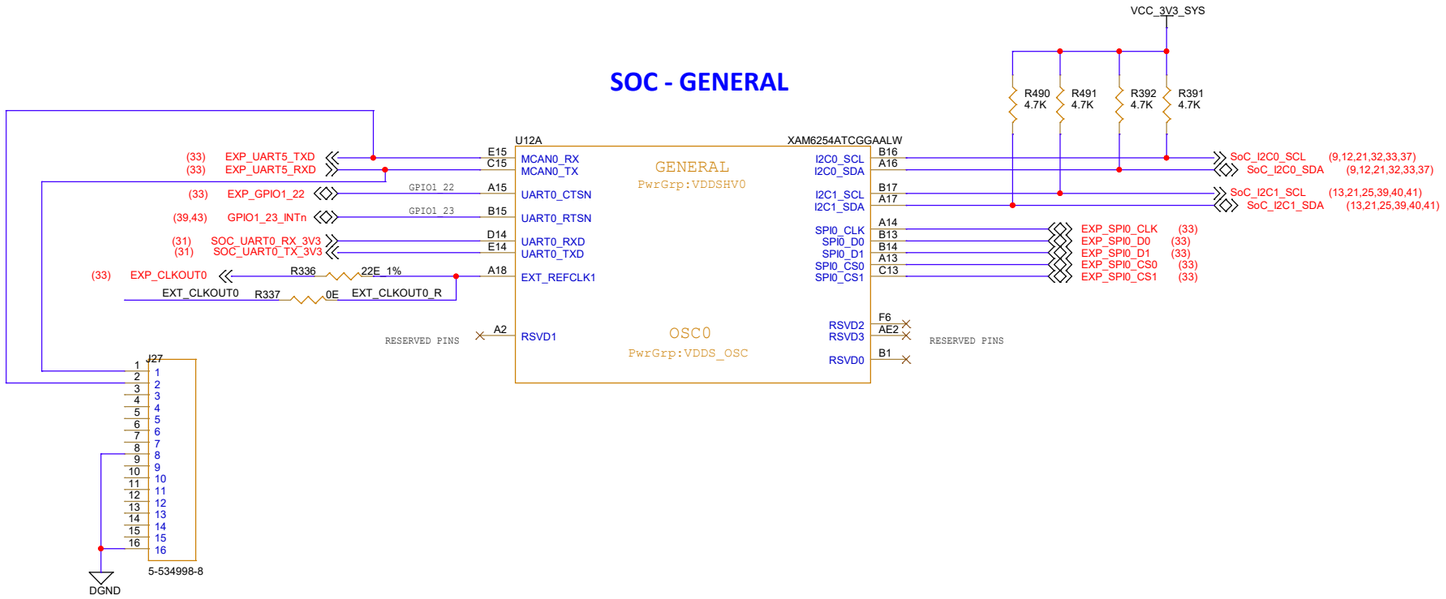
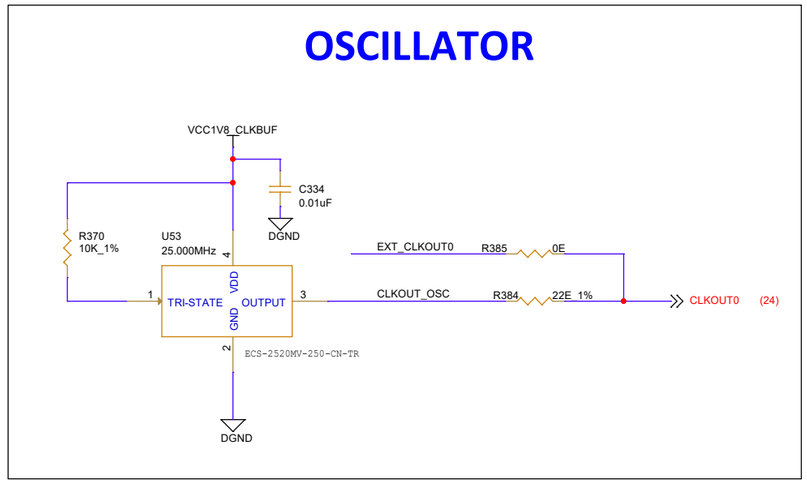
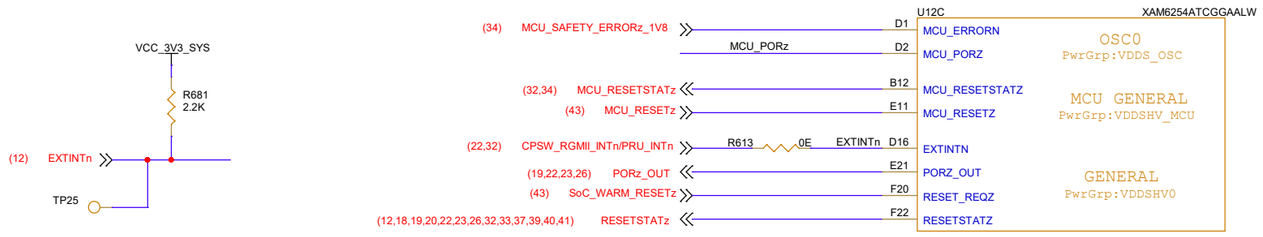
SOC - GENERAL

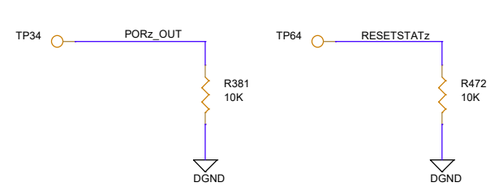


OSCILLATOR

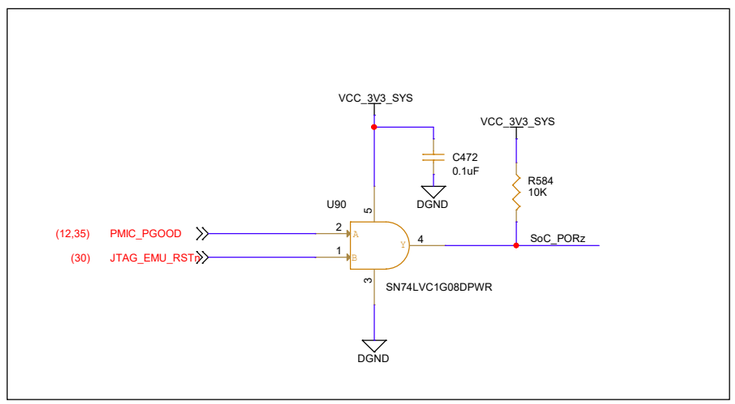


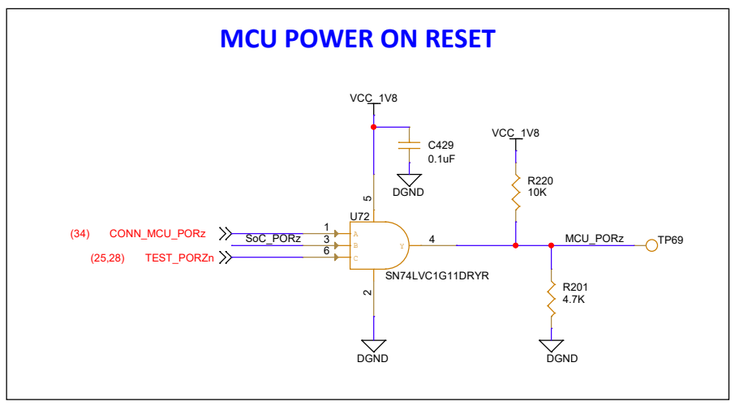
SOC - RESET





Pull-down resistor on PORz_OUT is provided to keep the signal low until the processor is released from reset during the power-up seqence





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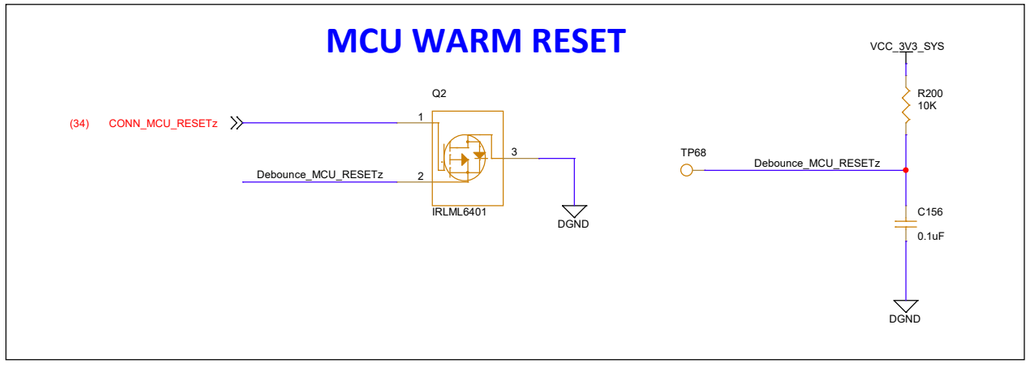
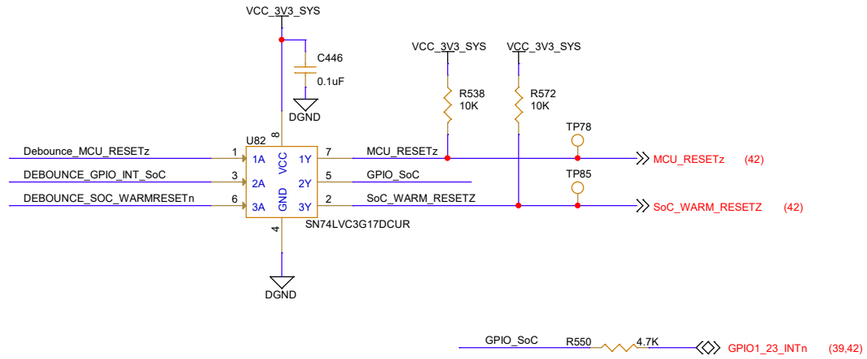
Title	OSCILLATOR		
Size	PROC142A1		Rev
C			A1
Date:	Sunday, April 13, 2025	Sheet 42 of 44	

RESET

MCU WARM RESET

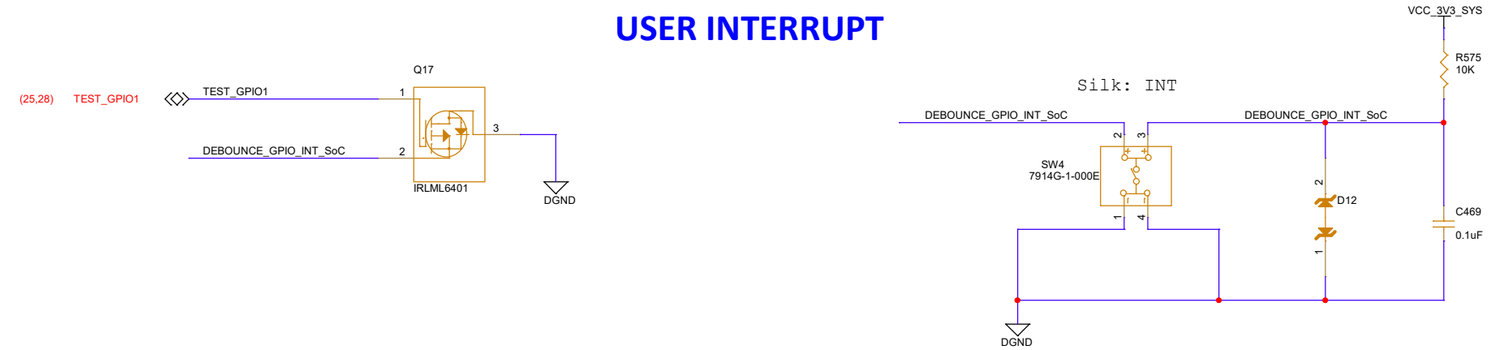


DEBOUNCE CIRCUIT



SOC WARM RESET

USER INTERRUPT



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Title	RESET	
Size: C	PROC142A1	Rev: A1
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HARDWARE SCHEMATICS

ASSEMBLY NOTES

1. All MSL components should be baked as per JEDEC standard.

2. PCB should be baked at 120 degree for 8 hours.

3. Board assembly must comply with workmanship standards. IPC-A-610 Class 2, unless otherwise specified.

4. These assemblies are ESD sensitive, ESD precautions shall be observed.

5. These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

6. Provide serial numbers to the assembled boards for identification.

7. The assembled board are wrapped in ESD Covers(individual) and
packed securely before shipment.

BARE PCB

PROC142E1

PROC142E1

LOGOs

PCB LOGO
Texas Intruments
Texas Intruments

PCB LOGO
For Evaluation only; not FCC approved for resale
For Evaluation only; not FCC approved for resale

PCB LOGO
WEEE Mark
WEEE Mark

PCB LOGO
CE Mark
CE Mark

LABELS

Board Serial No.

LBL1

PCB LABEL

THT-103-423-10

Assembly Revision

LBL2

PCB LABEL

THT-103-423-10

STANDOFF,SCREW & WASHER FOR PCIe M.2

ACC1

9774015243R

MH1

FLAT WASHER_M2
3356

MH2

PAN HEAD_M2 X 5
MPMS 002 0005 PH

FIDUCIALS

FID1
FID_40X80

FID2
FID_40X80

FID3
FID_40X80

FID4
FID_40X80

FID5
FID_40X80

FID6
FID_40X80

ORDERABLE PART NO

LBL3

PCB LABEL

THT-103-423-10

Oderable Part Number	
Variant	**Label Text**
001	SK-AM62-P1
002	SK-AM62B-P1

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TEXAS INSTRUMENTS

MISTRAL

Title	HARDWARE SCHEMATICS		
Size	PROC142A1		Rev
C			A1
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