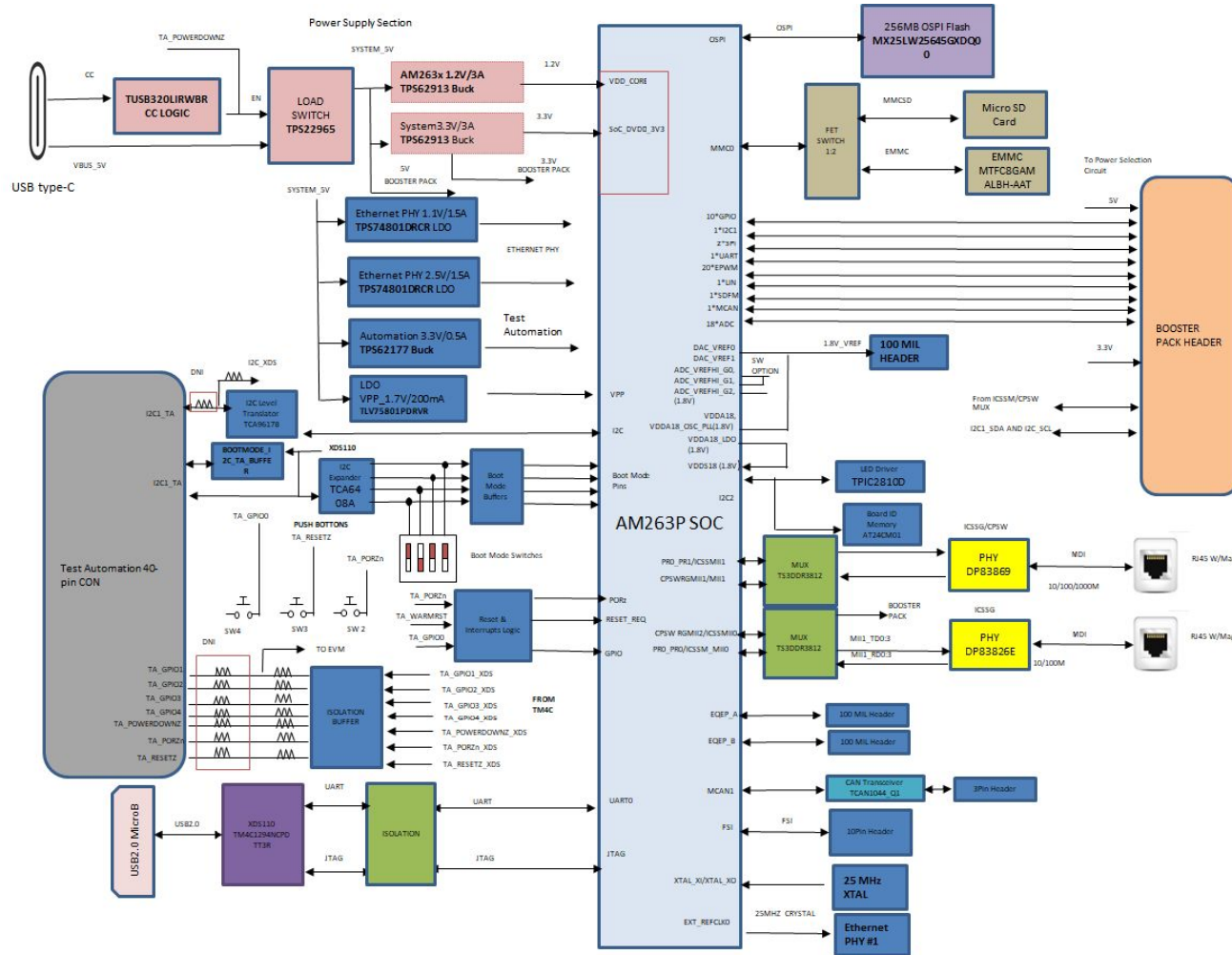


### System Block Diagram



## Feature List

- AM263P MCU+
- Dual R5F ARM Safety Cores
- 5Mbyte SRAM
- 256Mbyte OSPI Flash Memory
- 1Mbyte I2C EEPROM Memory (Board ID)
- 8GB EMMC Interface


- 20x ADC input channels
- 1x DAC output Channels

- 10x EPWM
- 2x EQEP encoder input channels
- 2x SFDM Resolver input channels
- 4x FSI Channels

- 2x UART
- 2x SPI
- 2x I2C

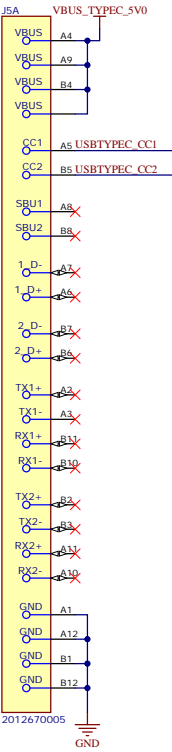
- 2x PRU(Programming Real-time Units)
- 2x MCAN
- 2x LIN
- 2x RGMII/RMII Industrial Ethernet

- Isolated, Embedded XDS110 JTAG/UART
- TIVA Support

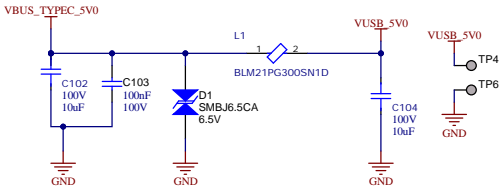
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Number: N/A	Project Title: AM263P Launchpad			
Version: PROC171	Rev: E2A			
SVN 1	Not in version control	Assembly Variant: 001		Sheet 1 of 26
Drawn By: a021760	File: PROC171_CoverSheet_SchDoc	Size: B		<a href="http://www.ti.com">http://www.ti.com</a> © Texas Instruments
Engineer: ShrinivasRakesh	Contact:			

TPS62913 Datasheet  
TPS22965 Datasheet  
TPS62913 Datasheet

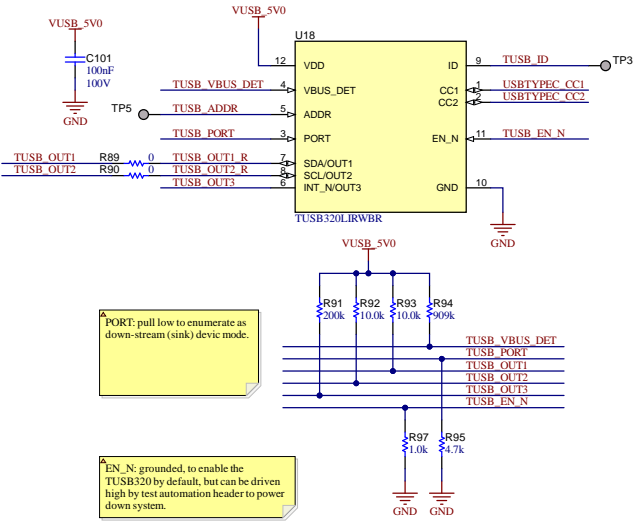
USB Type-C Power Input: 5.0V, 3.1A



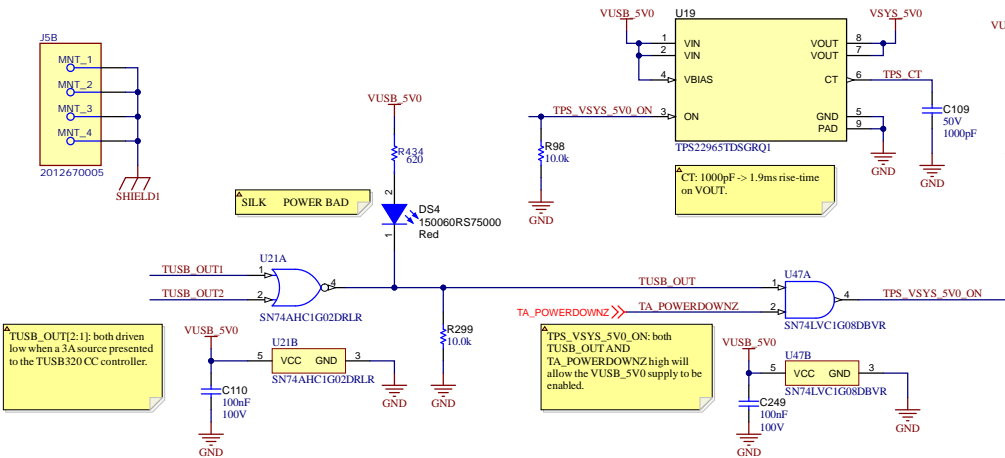
USB 5.0V Input Power Filtering



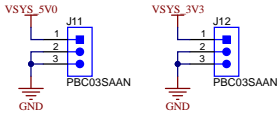
USB Type-C CC Logic Controller



USB 5.0V Input Power Load Switch (4A max)



Boosterpack Extended Power



USB Type-C DFP CC Emulation

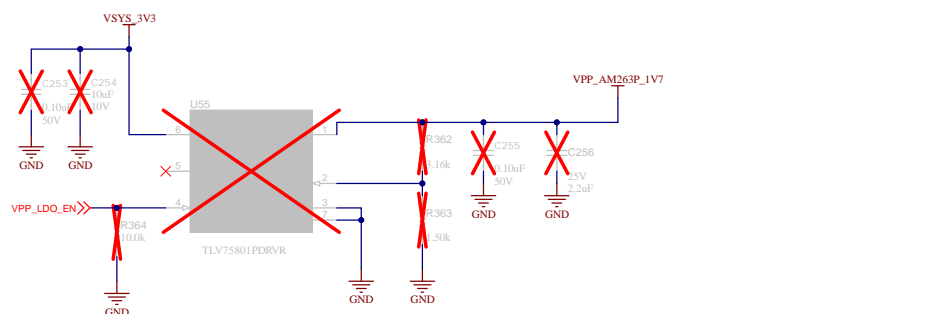
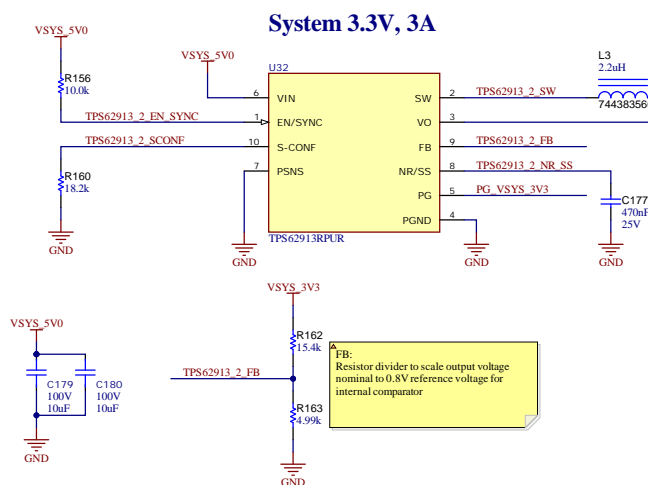
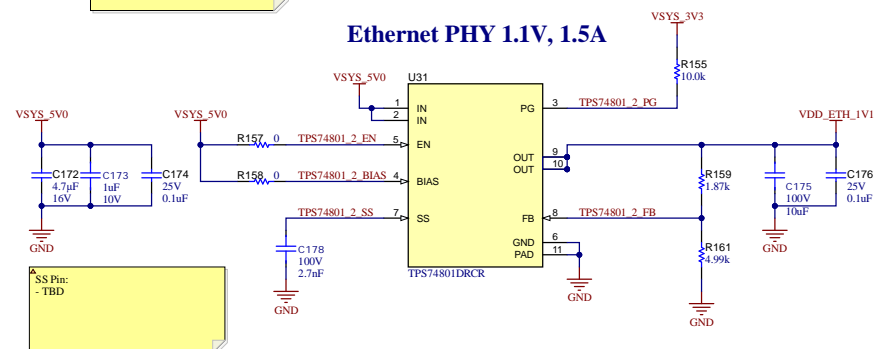
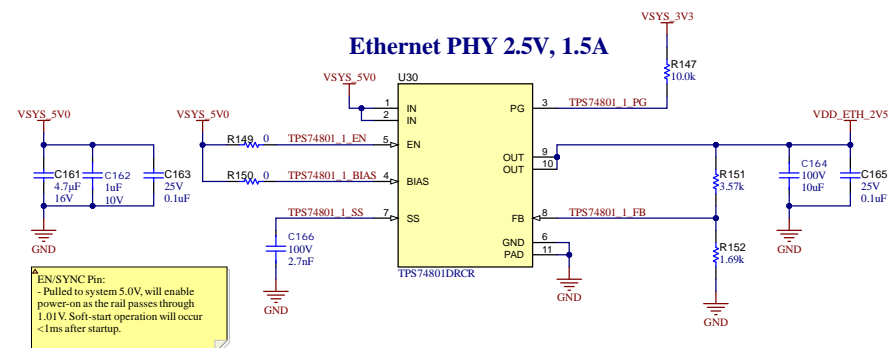
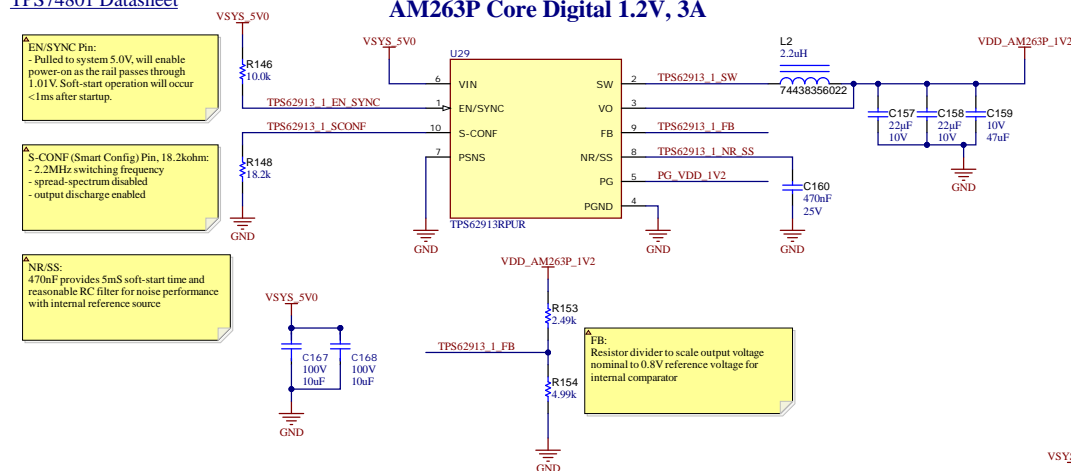


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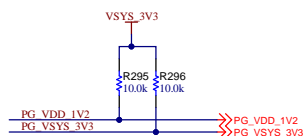
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TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 26
Drawn By: a0271760	File: PROC171_System_Power_1.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	




[TPS62913 Datasheet](#)  
[TPS74801 Datasheet](#)

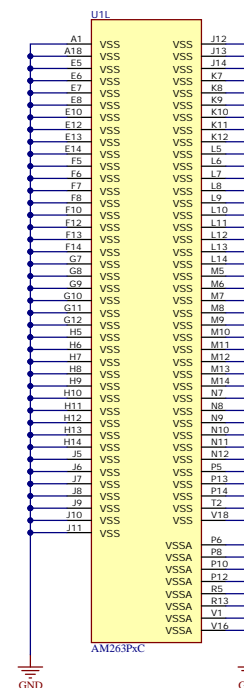
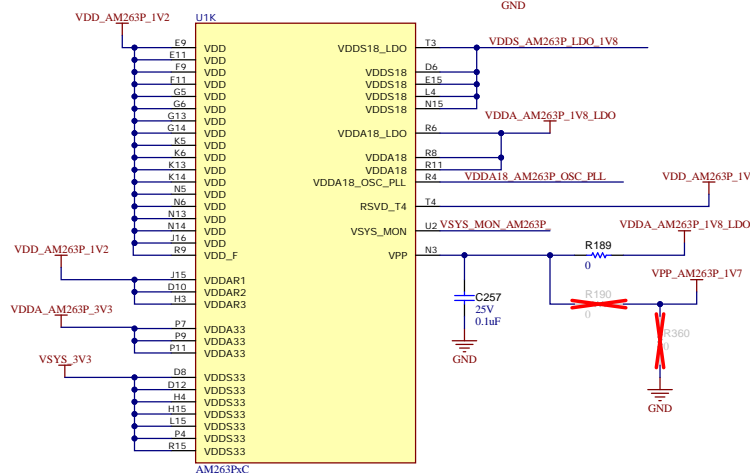
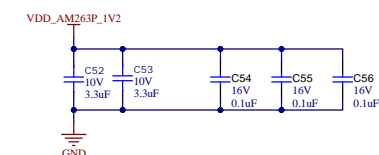
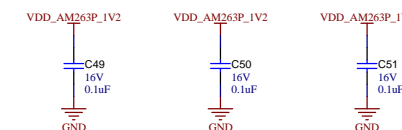
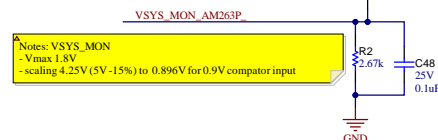
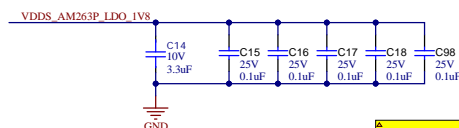
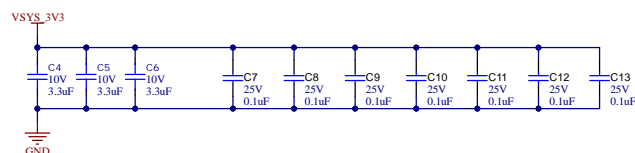
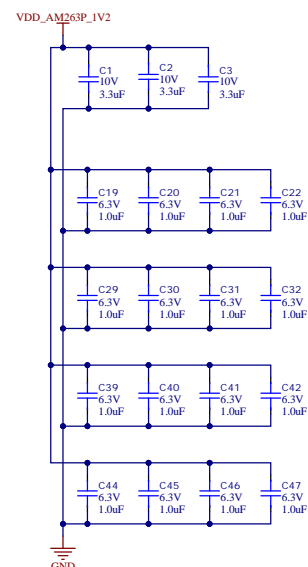


### 1.2V, 3.3V Power-Good



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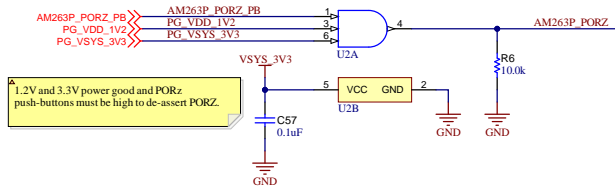
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TID No: <b>00000000</b>		Project Title: <b>AM263P Launchpad</b>		
Rev: <b>E2A</b>		Sheet Title: <b></b>		
S/N: Rev: <b>Not in version control</b>		Assembly Variant: <b>001</b>   Sheet: <b>3</b> of <b>26</b>		
Drawn By: <b>a0271760</b>		File: <b>PROC171 System Power 2.SchDoc</b>   Size: <b>B</b>		<a href="http://www.ti.com">http://www.ti.com</a>
Engineer: <b>Shrinivas/Rakesh</b>		Contact: <b></b>		© Texas Instruments



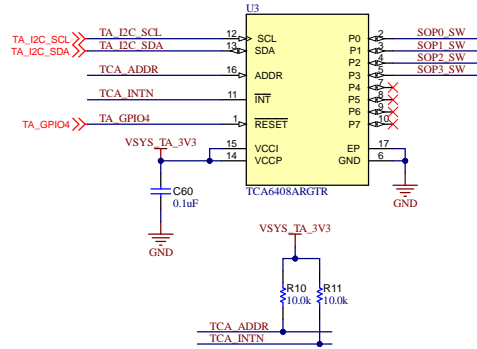


# AM263P Clock, Reset, Boot, JTAG

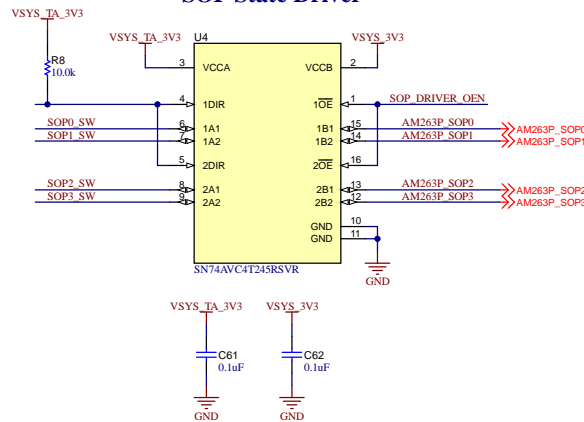
## POR Generation



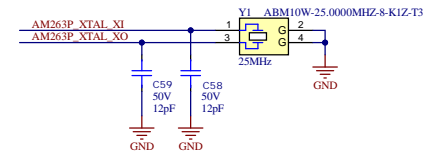
## Test Automation SOP Select



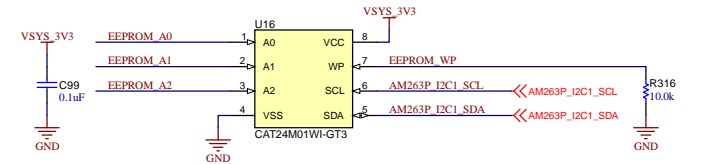
## SOP State Driver



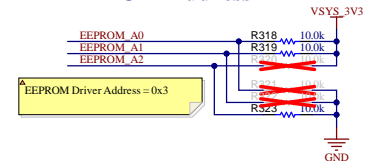
## 25 MHz Crystal



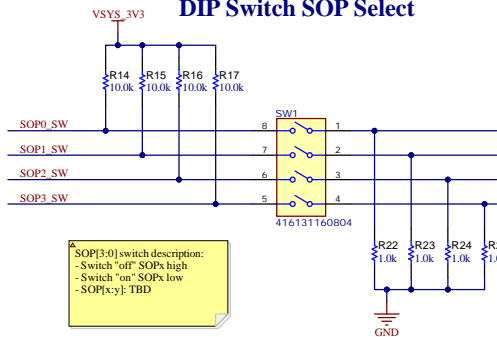
## Board ID EEPROM



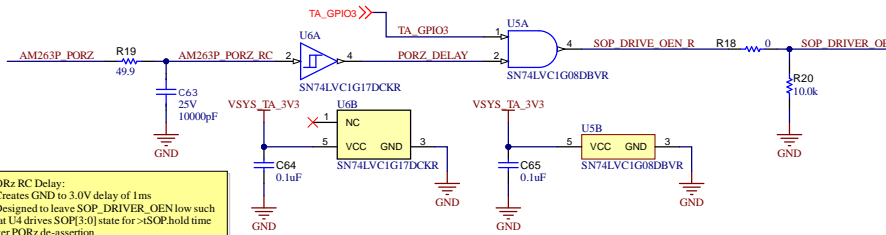
## EEPROM Address



## DIP Switch SOP Select



## PORZ SOP Driver RC Delay



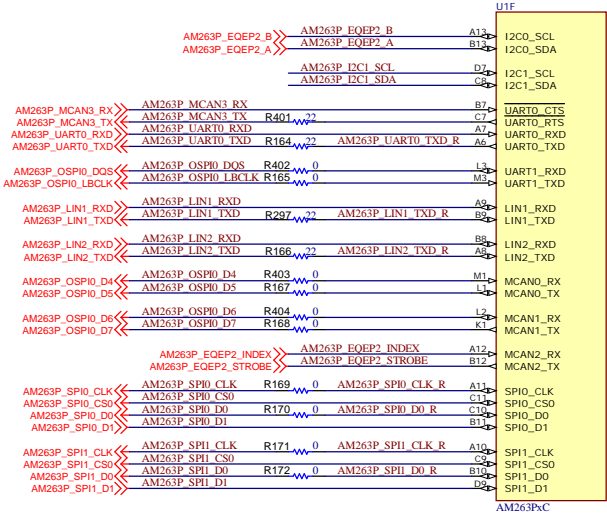
PORz RC Delay:  
- Creates GND to 3.0V delay of 1ms  
- Designed to leave SOP\_DRIVER\_OEN low such that U4 drives SOP[3:0] state for >SOP hold time after PORz de-assertion

PORz	TA_GPIO3	BOARD ID EEPROM
100k	10V	Enabled
100k	10V	Disabled

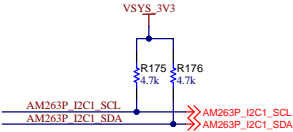
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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 5 of 26
Drawn By: a0271760	File: PROC171_AM263P_2_Clock_Reset_Boot_JTAG_Schematic	
Engineer: Shrinivas/Rakesh	Contact:	

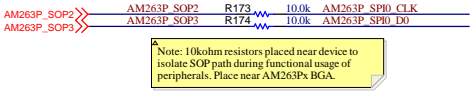
AM263P Serial Connectivity



I2C1 Pull-Up




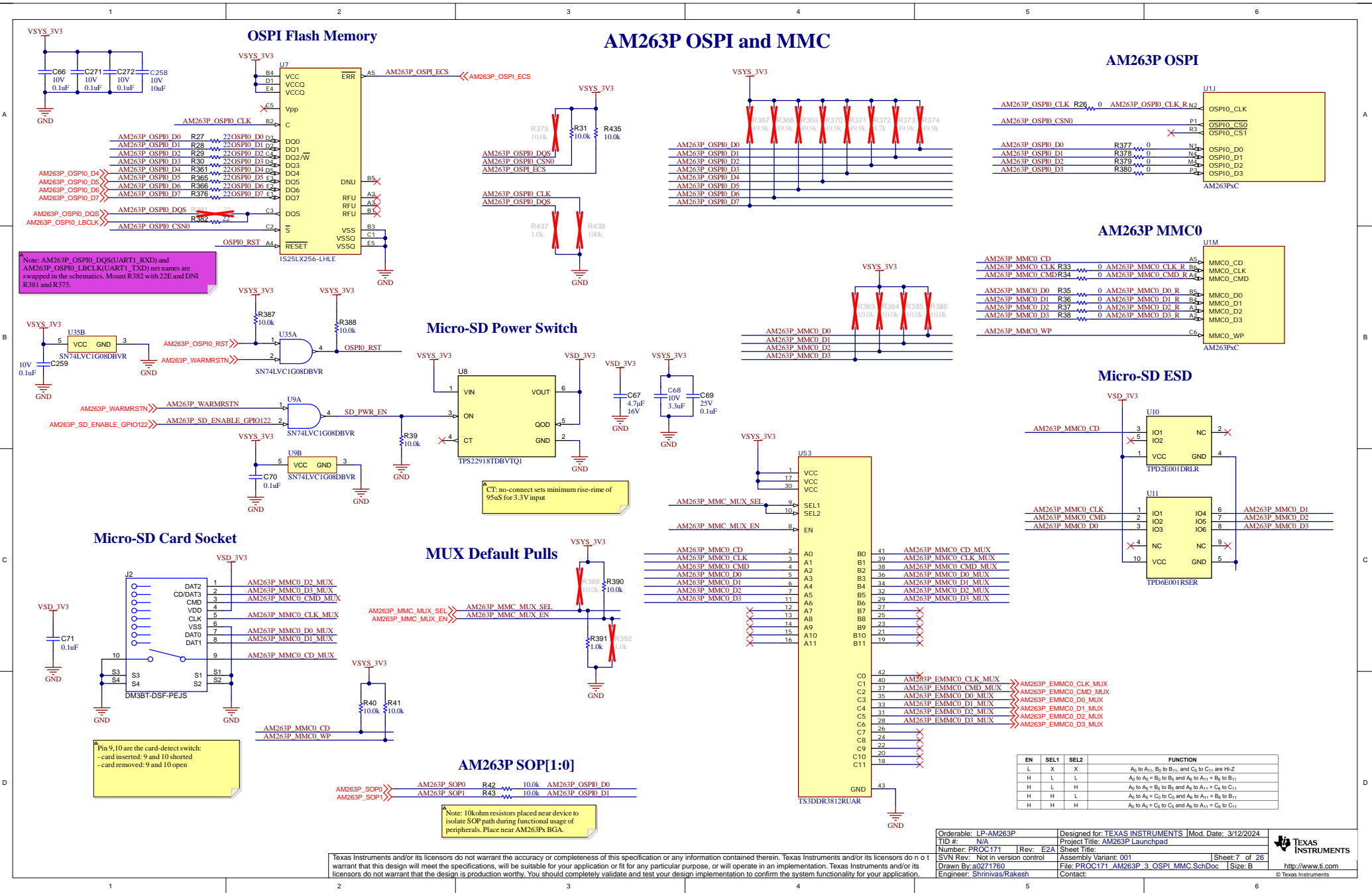
AM263P SOP[3:2]



Note: 10kohm resistors placed near device to isolate SOP path during functional usage of peripherals. Place near AM263Px BGA.

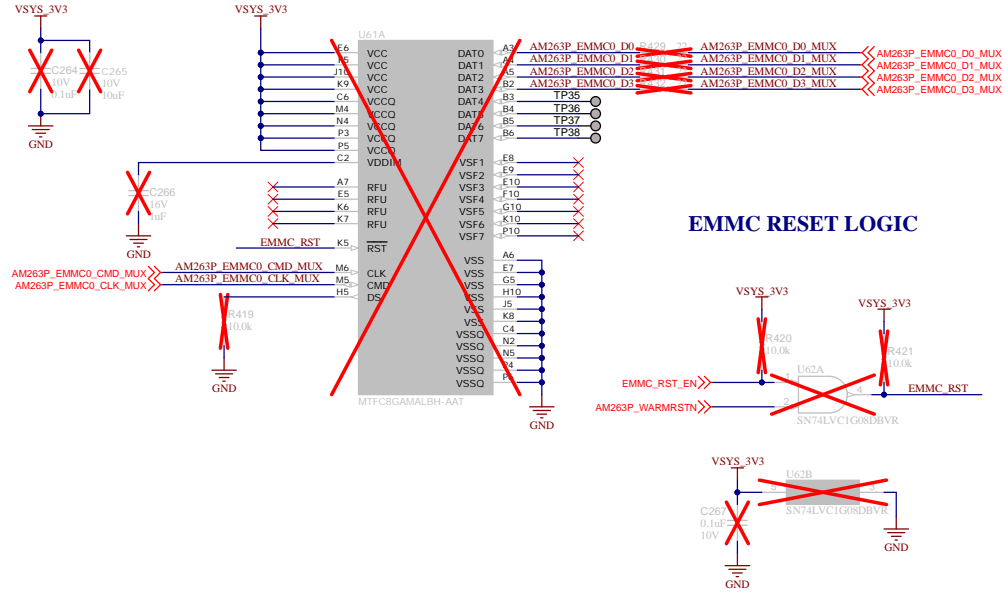
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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024	 TEXAS INSTRUMENTS
TID #: N/A	Project Title: AM263P Launchpad		
Number: PROC171	Rev: E2A	Sheet Title: XDS110 JTAG/USB-to-UART Bridge	
SVN Rev: Not in version control	Assembly Variant: 001		
Drawn By: a0271760	File: PROC171_AM263P_Serial_Connectivity_SchD4		
Engineer: Shrinivas/Rakesh	Contact:	Size: B	http://www.ti.com
			© Texas Instruments



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AM263P EMMC



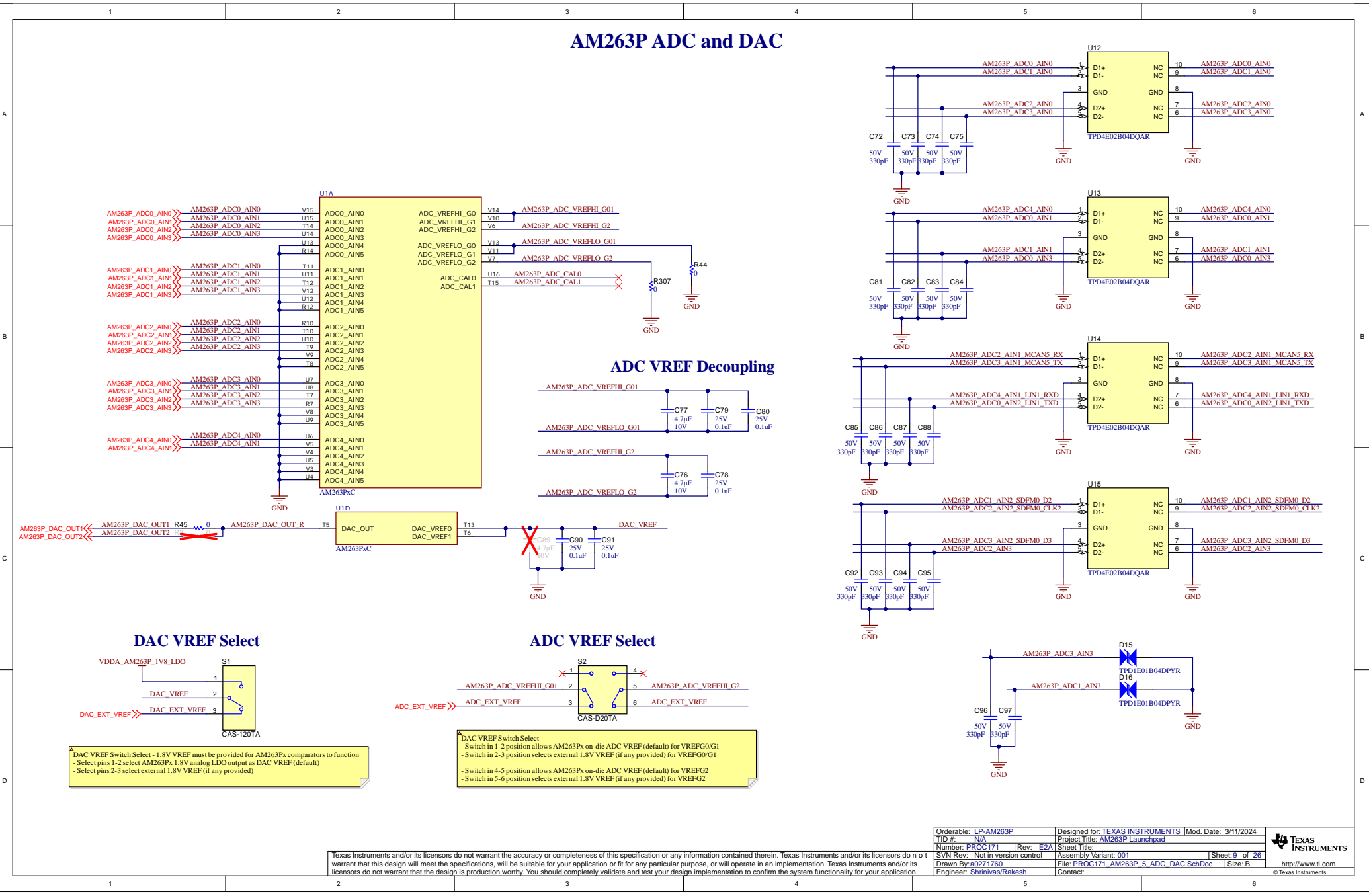
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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title: -
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 8 of 26
Drawn By: a0271760	File: PROC171_AM263P_4_EMMC_SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	http://www.ti.com

# AM263P ADC and DAC

A  
B  
C  
D

A  
B  
C  
D



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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 9 of 26
Drawn By: a0271760	File: PROC171_AM263P_5_ADC_DAC_SchDoc	Size: B
Engineer: ShrinivasRakesh	Contact:	



1 2 3 4 5 6

AM263P ePWM, eQEP, FSI

A

B

C

D

U1E

AM263P\_EPWM0\_A << AM263P\_EPWM0\_A R46 << AM263P\_EPWM0\_A R B2 EPWM0\_A

AM263P\_EPWM0\_B << AM263P\_EPWM0\_B R47 << AM263P\_EPWM0\_B R B1 EPWM0\_B

AM263P\_EPWM1\_A << AM263P\_EPWM1\_A R48 << AM263P\_EPWM1\_A R D3 EPWM1\_A

AM263P\_EPWM1\_B << AM263P\_EPWM1\_B R49 << AM263P\_EPWM1\_B R D2 EPWM1\_B

AM263P\_EPWM2\_A << AM263P\_EPWM2\_A R50 << AM263P\_EPWM2\_A R C2 EPWM2\_A

AM263P\_EPWM2\_B << AM263P\_EPWM2\_B R51 << AM263P\_EPWM2\_B R C1 EPWM2\_B

AM263P\_EPWM3\_A << AM263P\_EPWM3\_A R52 << AM263P\_EPWM3\_A R E2 EPWM3\_A

AM263P\_EPWM3\_B << AM263P\_EPWM3\_B R53 << AM263P\_EPWM3\_B R E3 EPWM3\_B

AM263P\_EPWM4\_A << AM263P\_EPWM4\_A R433 << AM263P\_EPWM4\_A R D1 EPWM4\_A

AM263P\_FSITX1\_CLK << AM263P\_FSITX1\_CLK R54 << AM263P\_FSITX1\_CLK R E4 EPWM4\_B

AM263P\_FSITX1\_DATA0 << AM263P\_FSITX1\_DATA0 R57 << AM263P\_FSITX1\_DATA0 R F2 EPWM5\_A

AM263P\_FSITX1\_DATA1 << AM263P\_FSITX1\_DATA1 R58 << AM263P\_FSITX1\_DATA1 R G2 EPWM5\_B

AM263P\_FSIRX1\_CLK << AM263P\_FSIRX1\_CLK F3 EPWM6\_A

AM263P\_FSIRX1\_DATA0 << AM263P\_FSIRX1\_DATA0 F3 EPWM6\_B

AM263P\_FSIRX1\_DATA1 << AM263P\_FSIRX1\_DATA1 F4 EPWM7\_A

AM263P\_EPWM7\_B << AM263P\_EPWM7\_B R436 << AM263P\_EPWM7\_B R F1 EPWM7\_B

AM263P\_I2C3\_SDA << AM263P\_I2C3\_SDA G3 EPWM8\_A

AM263P\_I2C3\_SCL << AM263P\_I2C3\_SCL H2 EPWM8\_B

AM263P\_EPWM9\_A << AM263P\_EPWM9\_A R9 << AM263P\_EPWM9\_A R G1 EPWM9\_A

AM263P\_EPWM9\_B << AM263P\_EPWM9\_B R12 << AM263P\_EPWM9\_B R J2 EPWM9\_B

AM263P\_MCAN5\_RX << R393 << EPWM10\_A

AM263P\_MCAN5\_TX << R393 << EPWM10\_B

AM263P\_OSP1\_ECS << AM263P\_OSP1\_ECS R13 << AM263P\_OSP1\_ECS R H1 EPWM11\_A

AM263P\_OSP10\_RST << AM263P\_OSP10\_RST R99 << AM263P\_OSP10\_RST R J1 EPWM11\_B

AM263P\_EPWM12\_A << AM263P\_EPWM12\_A R280 << AM263P\_EPWM12\_A R K2 EPWM12\_A

AM263P\_EPWM12\_B << AM263P\_EPWM12\_B R281 << AM263P\_EPWM12\_B R J4 EPWM12\_B

AM263P\_EPWM13\_A << AM263P\_EPWM13\_A R59 << AM263P\_EPWM13\_A R K4 EPWM13\_A

AM263P\_EPWM13\_B << AM263P\_EPWM13\_B R60 << AM263P\_EPWM13\_B R K3 EPWM13\_B

AM263P\_EPWM14\_A << AM263P\_EPWM14\_A R282 << AM263P\_EPWM14\_A R V17 EPWM14\_A

AM263P\_EPWM14\_B << AM263P\_EPWM14\_B R283 << AM263P\_EPWM14\_B R T16 EPWM14\_B

AM263P\_EPWM15\_A << AM263P\_EPWM15\_A R284 << AM263P\_EPWM15\_A R P15 EPWM15\_A

AM263P\_EPWM15\_B << AM263P\_EPWM15\_B R285 << AM263P\_EPWM15\_B R T16 EPWM15\_B

AM263P\_EQEP0\_A << AM263P\_EQEP0\_A B14 EQEP0\_A

AM263P\_EQEP0\_B << AM263P\_EQEP0\_B A14 EQEP0\_B

AM263P\_EQEP0\_INDEX << AM263P\_EQEP0\_INDEX D11 EQEP0\_J

AM263P\_EQEP0\_STROBE << AM263P\_EQEP0\_STROBE C12 EQEP0\_S

AM263PxC

I2C3 Pull-Up

VSYS\_3V3

R55 4.7k

R56 4.7k

AM263P\_I2C3\_SCL

AM263P\_I2C3\_SDA

BOOSTER\_PACK\_MUX

VSYS\_3V3

C260 10V

C261 10uF

0.1uF

GND

VSYS\_3V3

U54

VCC

16

1B1

1B2

2

AM263P\_EPWM15\_A

4

1A

AM263P\_EPWM15\_B

7

2A

2B1

5

AM263P\_UART5\_TXD

AM263P\_EPWM15\_A\_BP

AM263P\_UART5\_RXD

AM263P\_EPWM15\_B\_BP

8

3A

3B1

11

3B2

10

4B1

14

4B2

13

GND

8

SN74CBQ3257PWR

UART/EPWM\_MUX\_SEL

UART/EPWM\_MUX\_EN

R394

0

GND

INPUTS		INPUT/OUTPUT	FUNCTION
OE	S	A	
L	L	B1	A port = B1 port
L	H	B2	A port = B2 port
H	X	Z	Disconnect

VSYS\_3V3

VSYS\_3V3

R395 10.0k

R396 10.0k

R397 1.0k

R398 1.0k

GND

GND

UART/EPWM\_MUX\_SEL >> UART/EPWM\_MUX\_SEL

UART/EPWM\_MUX\_EN >> UART/EPWM\_MUX\_EN

Orderable: LP-AM263P

Designed for: TEXAS INSTRUMENTS | Mod. Date: 3/11/2024

TID #: N/A

Project Title: AM263P Launchpad

Number: PROC171

Rev: E2A

Sheet Title:

SVN Rev: Not in version control

Assembly Variant: 001

Sheet: 10 of 26

Drawn By: a0271760

File: PROC171\_AM263P\_6\_ePWM\_eQEP\_FSI\_Sch

Size: B

Engineer: Shrinivas/Rakesh

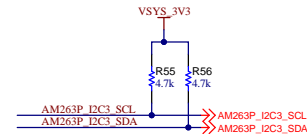
Contact:

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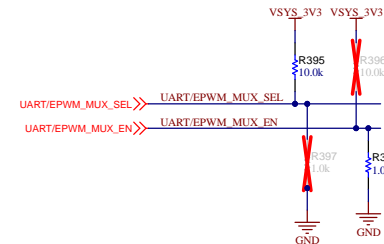
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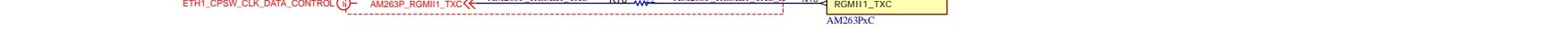
1 2 3 4 5 6

[illegible]

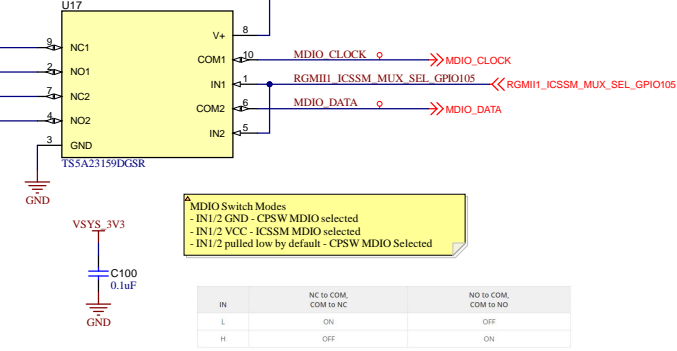
INPUTS		INPUT/OUTPUT A	FUNCTION
OE	S		
L	L	B1	A port = B1 port
L	H	B2	A port = B2 port
H	X	Z	Disconnect



1	2	3	4	5	6
---	---	---	---	---	---



## VSYS\_3V

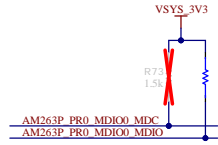


IN	NC to COM, COM to NC	NO to COM, COM to NO
L	ON	OFF
H	OFF	ON



# AM263P PR0 PRU0 and PRU1

## ICSSM MDIO Pull-Up

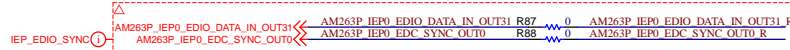


ETH2\_ICSSM\_CLK\_DATA\_CONTROL

ETH1\_ICSSM\_CLK\_DATA\_CONTROL

ETH1\_CLK\_DATA\_CONTROL

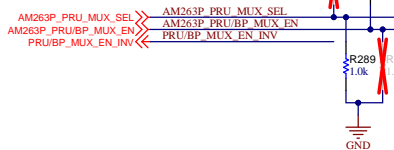
ETH1\_ICSSM\_CLK\_DATA\_CONTROL



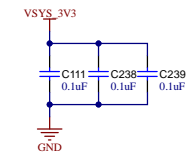
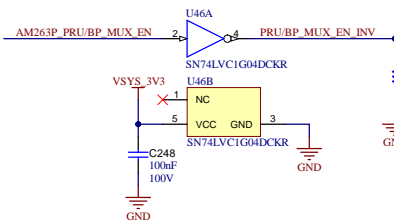
RGMII1\_ICSSM\_MUX\_SEL\_GPIO105

EN	SEL1	SEL2	FUNCTION
L	X	X	A <sub>0</sub> to A <sub>11</sub> , B <sub>0</sub> to B <sub>11</sub> , and C <sub>0</sub> to C <sub>11</sub> are Hi-Z
H	L	L	A <sub>0</sub> to A <sub>7</sub> = B <sub>0</sub> to B <sub>7</sub> and A <sub>8</sub> to A <sub>11</sub> = B <sub>8</sub> to B <sub>11</sub>
H	L	H	A <sub>0</sub> to A <sub>7</sub> = B <sub>0</sub> to B <sub>7</sub> and A <sub>8</sub> to A <sub>11</sub> = C <sub>8</sub> to C <sub>11</sub>
H	H	L	A <sub>0</sub> to A <sub>7</sub> = C <sub>0</sub> to C <sub>7</sub> and A <sub>8</sub> to A <sub>11</sub> = B <sub>8</sub> to B <sub>11</sub>
H	H	H	A <sub>0</sub> to A <sub>7</sub> = C <sub>0</sub> to C <sub>7</sub> and A <sub>8</sub> to A <sub>11</sub> = C <sub>8</sub> to C <sub>11</sub>

## MUX Default Pulls

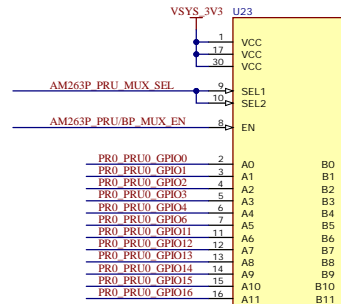


## MUX Decoupling



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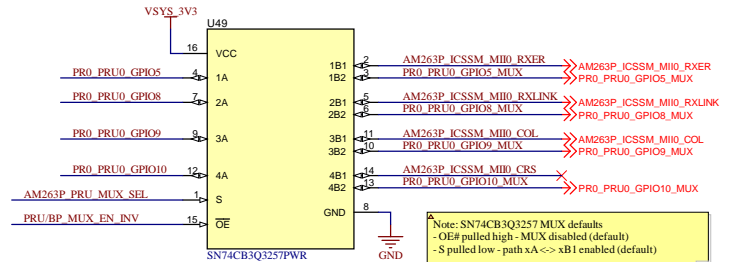
## PR0\_PRU0 PHY #2 / Boosterpack MUX



Note: TS3DDR MUX defaults  
-EN# pulled high - MUX disabled (default)  
-SEL pulled low - path A <-> B enabled (default)



## MUX Decoupling



Note: SN74CB3Q3257PWR defaults  
-OE# pulled high - MUX disabled (default)  
-S pulled low - path xA <-> xB1 enabled (default)

INPUTS	OE	S	INPUT/OUTPUT	A	FUNCTION
L	L	L	B1	A port = B1 port	
L	H	L	B2	A port = B2 port	
H	X	X	Z	Disconnect	

Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mid Date: 3/11/2024	
TID #: N/A	Project Title: AM263P Launchpad		
Number: PROC171	Rev: E2A	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 12 of 26	
Drawn By: a0271760	File: PROC171_AM263P_8_PRU_SchDoc	Size: B	

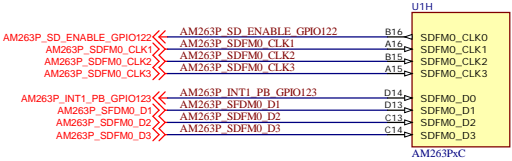
Engineer: Shrinivas/Rakesh

Contact:

http://www.ti.com

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AM263P SDFM



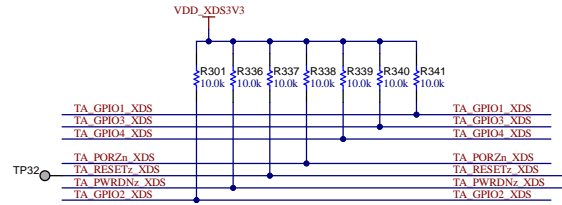
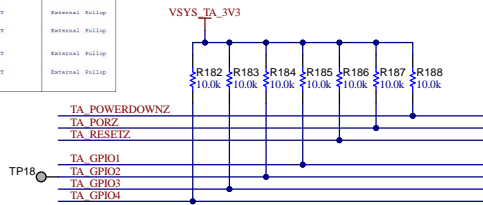
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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 13 of 26
Drawn By: a0271760	File: PROC171_AM263P_9_SDFM.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	http://www.ti.com

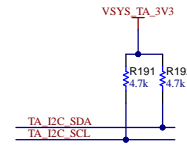
© Texas Instruments

PCBLOC NAME	DESCRIPTION	WMT CODE	Internal/External
TA_POWERDOWN	Used to Power down the system	000007	External Pullup
TA_PORZn	Used to Reset the POC POC	000007	External Pullup
TA_PORZn	POC Measurement	000007	External Pullup
TA_WDn	Interrupt to SOC	000007	External Pullup
TA_WDn	Used to Enable or Disable I2C Regulator	000007	External Pullup
TA_WDn	Used to Enable the M000000 Buffer	000007	External Pullup
TA_WDn	Used to Reset M000000 10 Exp	000007	External Pullup

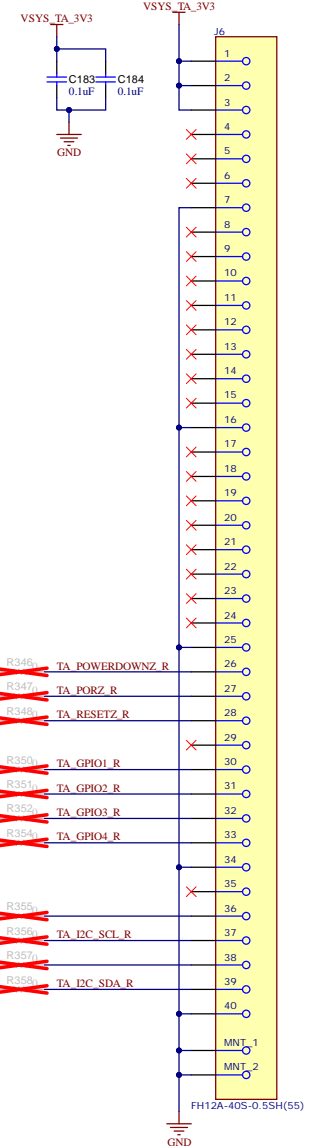
## Test Automation Section



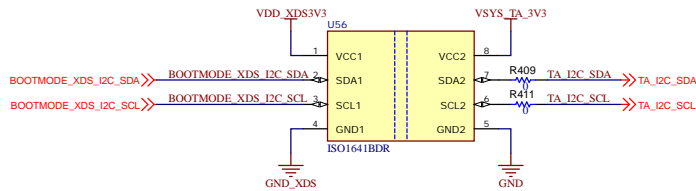
## TA\_I2C Pull-Up



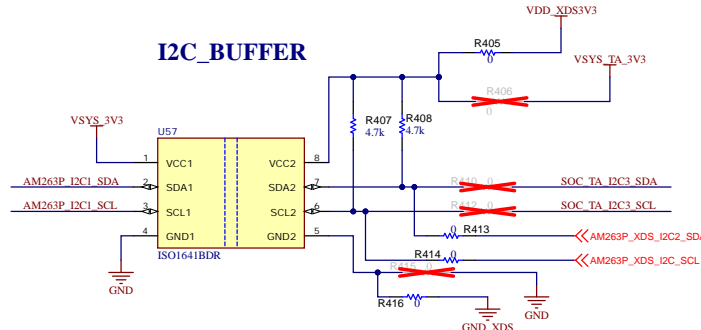
## Test Automation Header



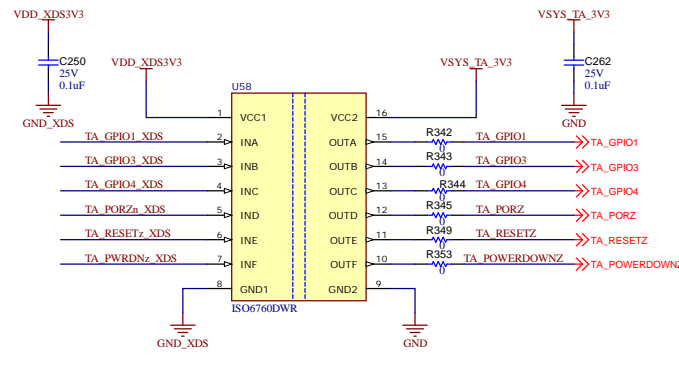
## BOOTMODE\_I2C\_TA BUFFER



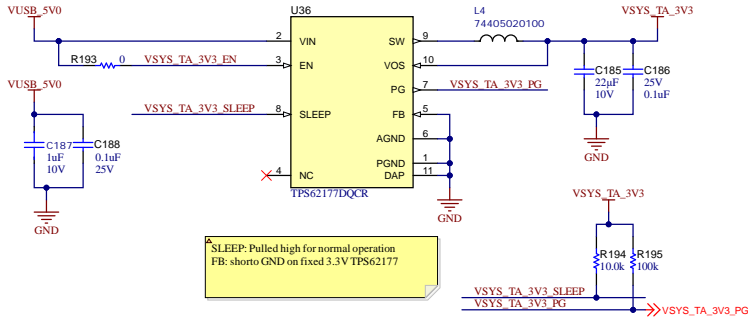
## I2C\_BUFFER



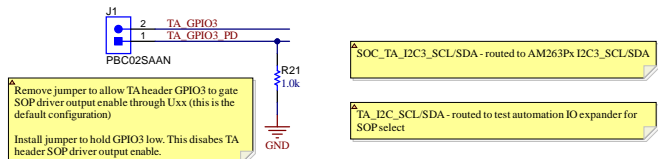
## ISOLATION BUFFERS FOR TA SIGNALS



## Test Automation 3.3V, 500mA Supply



## Test-Automation PORz Override



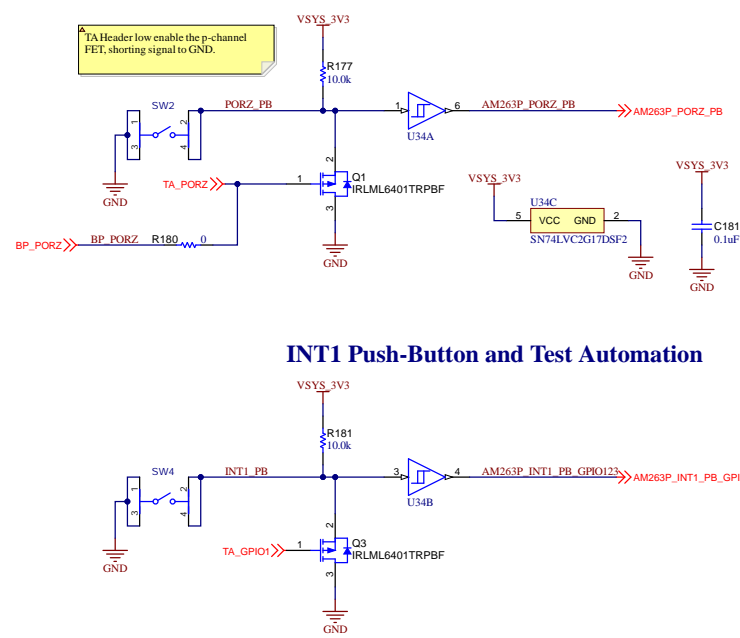
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TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 14 of 26
Drawn By: a0271760	File: PROC171_Test_Automation.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

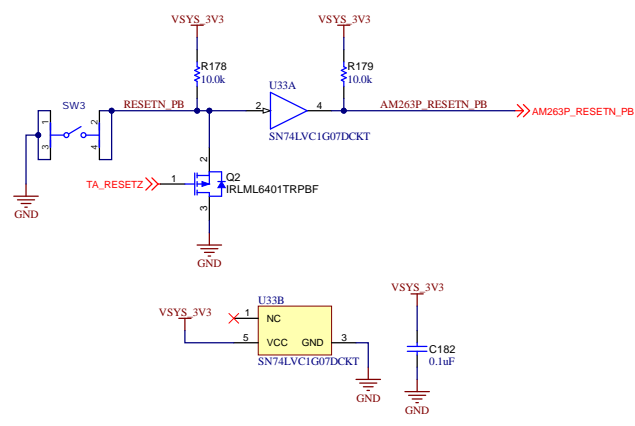


Push-Buttons

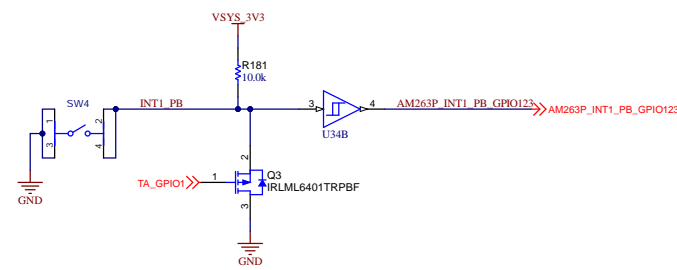
PORZ Push-Button and Test Automation



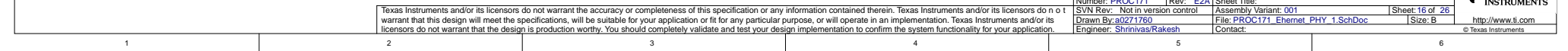
RESETZ Push-Button and Test Automation



INT1 Push-Button and Test Automation



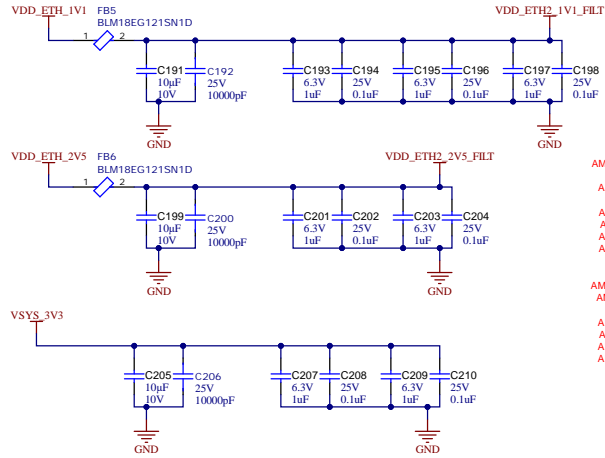
## RGMII/MII PHY



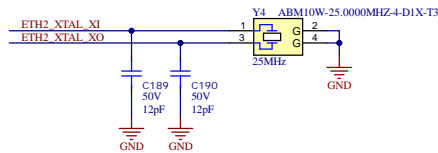
## AM263P Ethernet PHY #2 - CPSW RGMII2/ICSSM\_MII0

Note: CPSW / ICSSM Pinmux On AM263Ps  
- selects between the CPSW RGMII2/MII2 interfaces and the PRU1 ICSSM MII0 interfaces

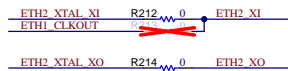
### PHY Decoupling



### 25 MHz Crystal

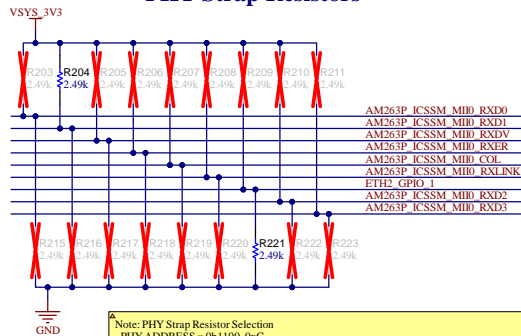


### Oscillator Input Selection



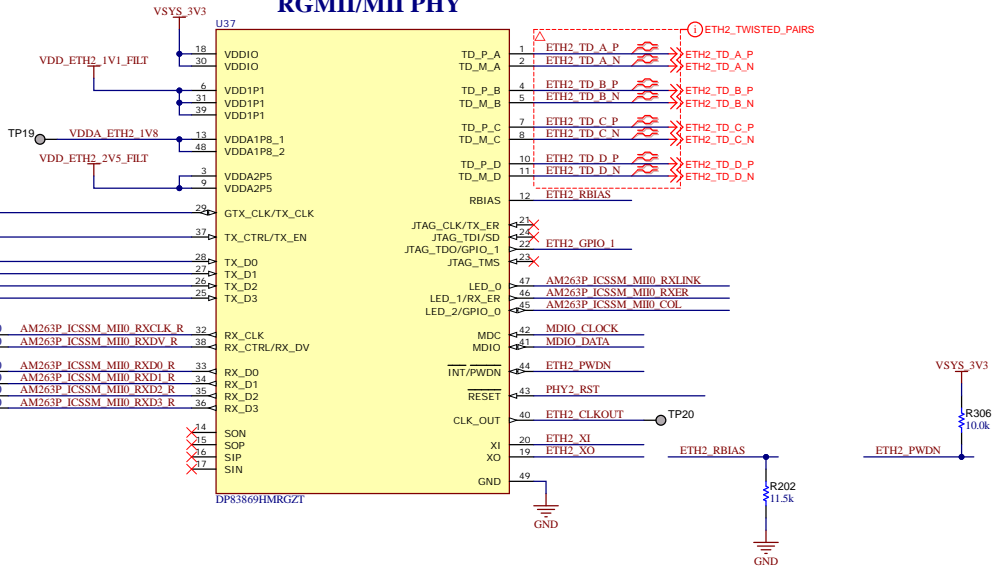
Note: PHY Oscillator Input Selection  
- (default) select 25 MHz XTAL input to ETH2\_XI/SO  
- optional select to disable 25 MHz XTAL and input CLK\_OUT from PHY1

### PHY Strap Resistors

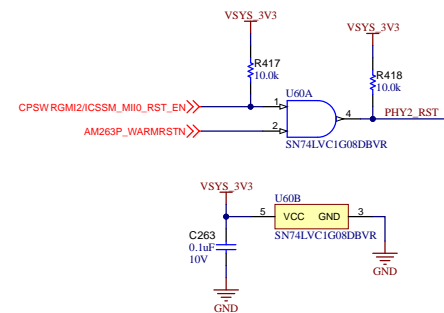


Note: PHY Strap Resistor Selection  
- PHY ADDRESS = 0b1100, 0xC  
- Auto-negotiation, 10/100/1000 advertised, Auto-MDIX  
- RGMII to Copper (1000Base-T/100Base-TX/10Base-T)

### RGMII/MII PHY



### PHY\_RST\_LOGIC

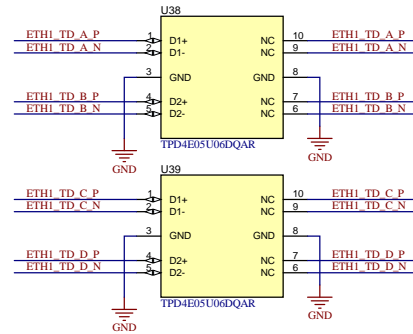


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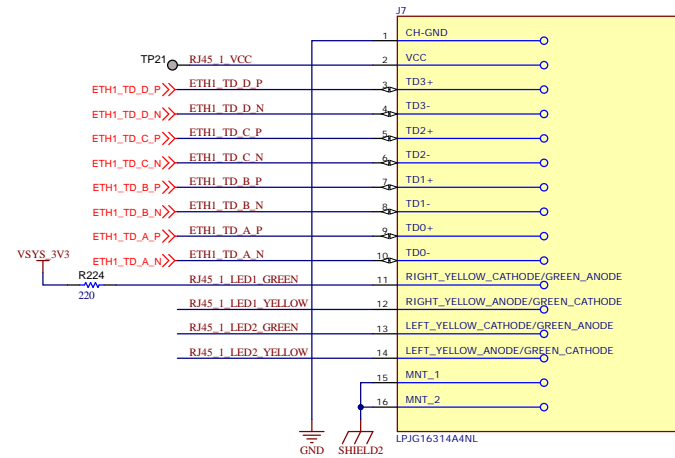
Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	[Rev: E2A]	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 17 of 26
Drawn By: a0271760	File: PROC171_Ethernet_PHY_2_SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

## AM263P Ethernet PHY #1 - RJ-45 Jack

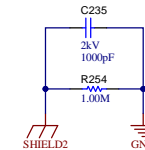
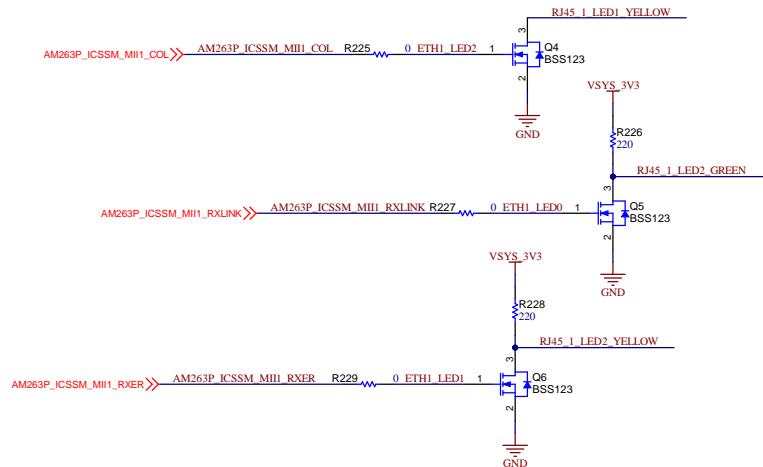
### RJ-45 ESD Protection



### RJ-45 Jack #1



### RJ-45 LED Drivers



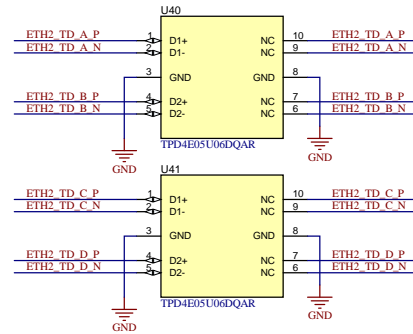
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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 18 of 26
Drawn By: a0271760	File: PROC171 Ethernet RJ45_1.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

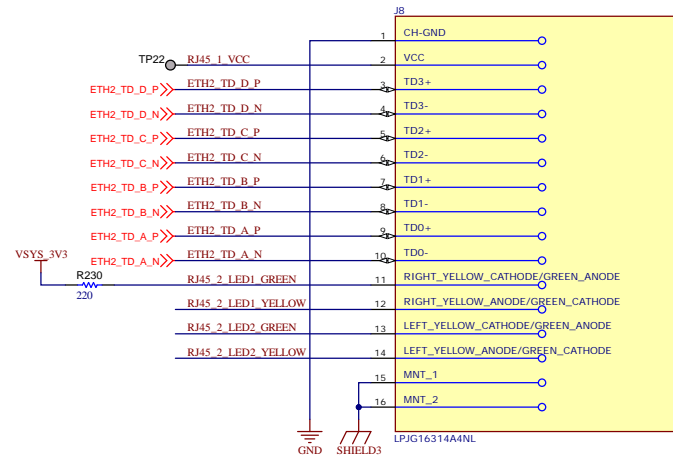


## AM263P Ethernet PHY #2 - RJ-45 Jack

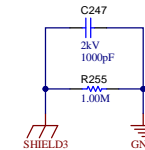
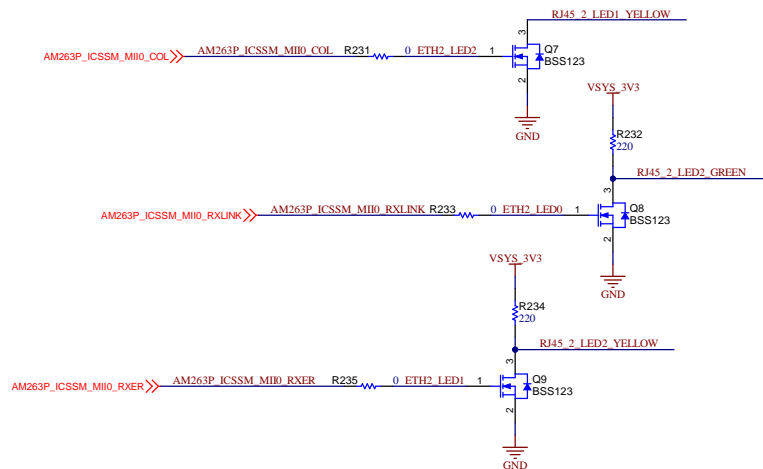
### RJ-45 ESD Protection



### RJ-45 Jack #2



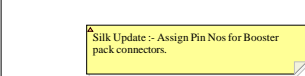
### RJ-45 LED Drivers



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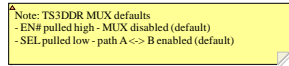
Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 19 of 26
Drawn By: a0271760	File: PROC171 Ethernet RJ45_2.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

## Boosterpack Site 1

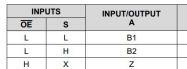


Note: SN74CB3Q3257 MUX defaults

- OE# pulled high - MUX disabled (default)
- S pulled low - path xA <-> xB1 enabled (default)

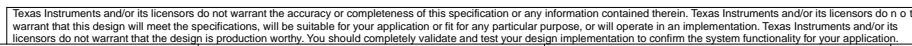


## MUX Decoupling



EN	SEL1	SEL2	FUNCTION
L	X	X	$A_9$ to $A_{11}$ , $B_9$ to $B_{11}$ , and $C_9$ to $C_{11}$ are Hi-Z
H	L	L	$A_9$ to $A_9$ , $B_9$ to $B_9$ and $A_{10}$ to $A_{11}$ = $B_9$ to $B_{11}$
H	L	H	$A_9$ to $A_9$ = $B_9$ to $B_9$ and $A_{10}$ to $A_{11}$ = $C_9$ to $C_{11}$
H	H	L	$A_{10}$ to $A_9$ = $C_9$ to $C_9$ and $A_9$ to $A_{11}$ = $B_9$ to $B_{11}$
H	H	H	$A_9$ to $A_9$ = $C_9$ to $C_9$ and $A_{10}$ to $A_{11}$ = $C_9$ to $C_{11}$

AM263P_IEP0_EDIO_DATA_IN_OUT31	AM263P_IEP0_EDIO_DATA_IN_OUT31
AM263P_IEP0_EDC_SYNC_OUT0	AM263P_IEP0_EDC_SYNC_OUT0



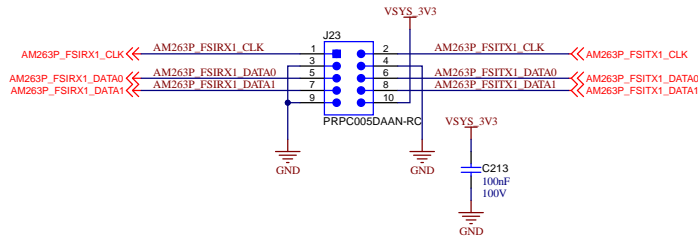
Orderable: <a href="#">LP-AM263P</a>	Designed for: <a href="#">TEXAS INSTRUMENTS</a>	Mod. Date: 3/11/2024
TID #: <a href="#">N/A</a>	Project Title: <a href="#">AM263P Launchpad</a>	
Number: <a href="#">PROC171</a>	Rev: <a href="#">E2A</a>	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: <a href="#">001</a>	Sheet: <a href="#">20</a> of <a href="#">26</a>
Drawn By: <a href="#">a0271760</a>	File: <a href="#">PROC171_Boosterpack_Headers.SchDoc</a>	Size: B
Engineer: <a href="#">Shrinivas/Rakesh</a>	Contact:	



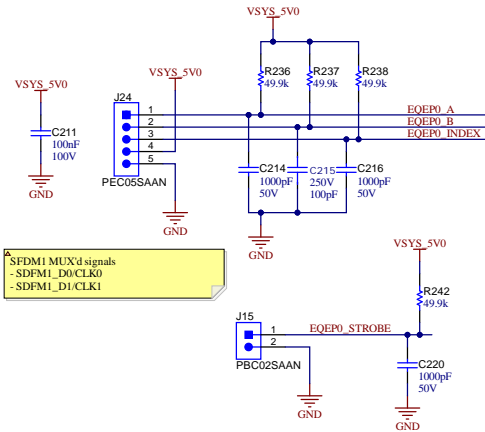
# Breakout Headers

## FSI Header

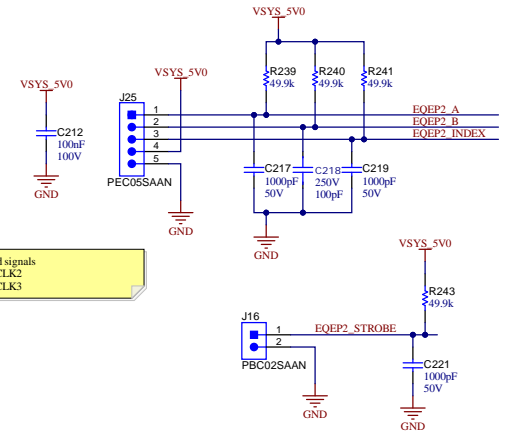
C2000 LP Style FSI Breakout



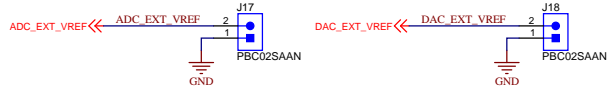
## eQEP0/SFDM1 Headers



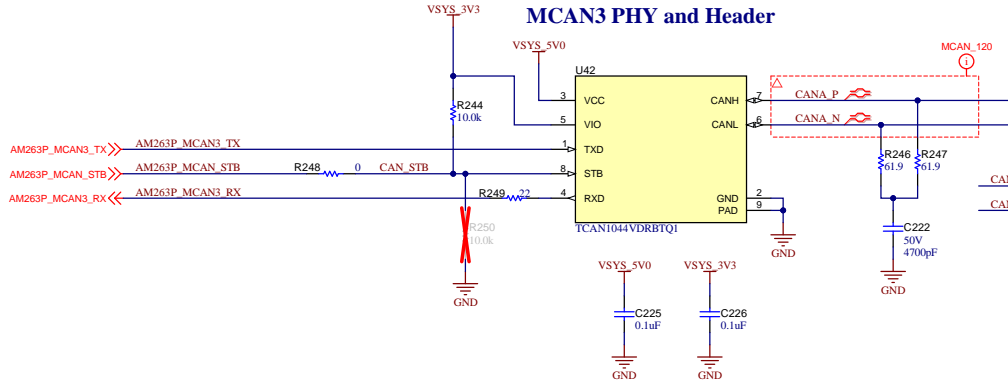
## eQEP2/SFDM2 Headers



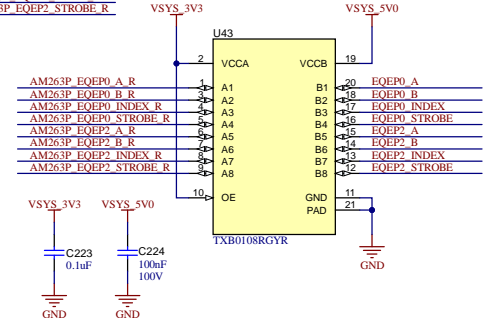
## ADC/DAC External VREF Header



## MCAN3 PHY and Header



## eQEP Bi-Directional Level Translator



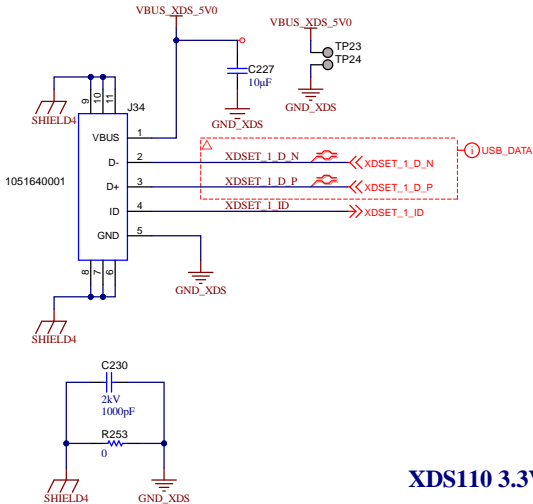
AM263P_EQEP0_A	AM263P_EQEP0_A	R328	33.2	AM263P_EQEP0_A_R
AM263P_EQEP0_B	AM263P_EQEP0_B	R329	33.2	AM263P_EQEP0_B_R
AM263P_EQEP0_INDEX	AM263P_EQEP0_INDEX	R330	33.2	AM263P_EQEP0_INDEX_R
AM263P_EQEP0_STROBE	AM263P_EQEP0_STROBE	R331	33.2	AM263P_EQEP0_STROBE_R
AM263P_EQEP2_A	AM263P_EQEP2_A	R332	33.2	AM263P_EQEP2_A_R
AM263P_EQEP2_B	AM263P_EQEP2_B	R333	33.2	AM263P_EQEP2_B_R
AM263P_EQEP2_INDEX	AM263P_EQEP2_INDEX	R334	33.2	AM263P_EQEP2_INDEX_R
AM263P_EQEP2_STROBE	AM263P_EQEP2_STROBE	R335	33.2	AM263P_EQEP2_STROBE_R

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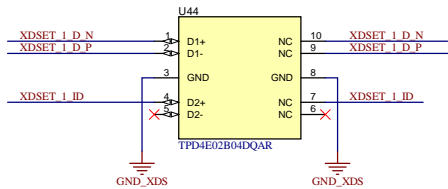
Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 21 of 26
Drawn By: a0271760	File: PROC171_Breakout_Headers.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

# XDS110 JTAG/USB-to-UART Bridge

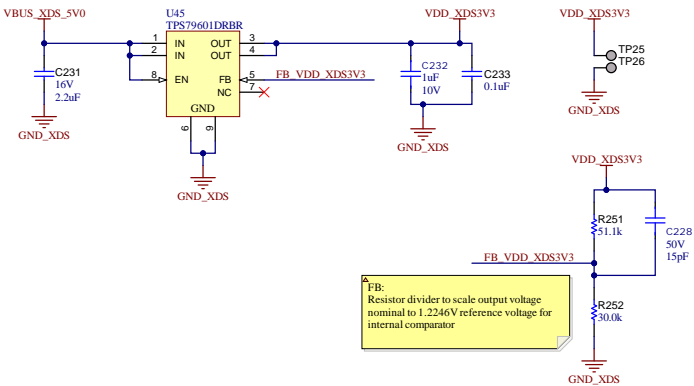
## XDS110 USB Micro-B PORT



## USB Mini-B ESD Protection



## XDS110 3.3V LDO

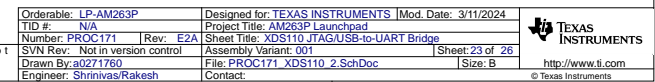


FB: Resistor divider to scale output voltage nominal to 1.2246V reference voltage for internal comparator

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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title: XDS110 JTAG/USB-to-UART Bridge
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 22 of 26
Drawn By: a0271760	File: PROC171_XDS110_1.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	

## XDS110 JTAG/USB-to-UART Bridge

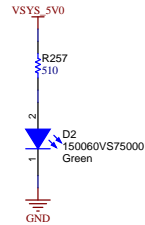


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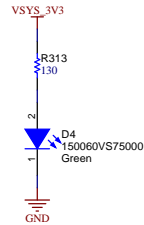
# System LED Indicators

PG_VSYS_3V3	PG_VSYS_3V3
PG_VDD_1V2	PG_VDD_1V2
VSYS_TA_3V3_PG	VSYS_TA_3V3_PG
AM263P_I2C1_SCL	AM263P_I2C1_SCL
AM263P_I2C1_SDA	AM263P_I2C1_SDA
AM263P_LED_DRIVER_EN	AM263P_LED_DRIVER_EN
AM263P_LED_EN	AM263P_LED_EN
AM263P_SAFETY_ERRORN	AM263P_SAFETY_ERRORN

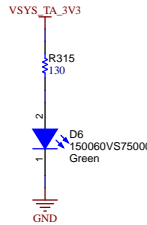
## System 5.0V



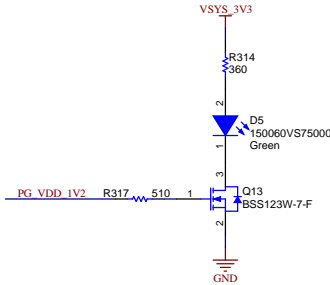
## System 3.3V



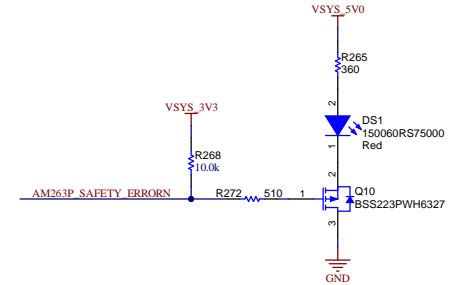
## Test Automation 3.3V



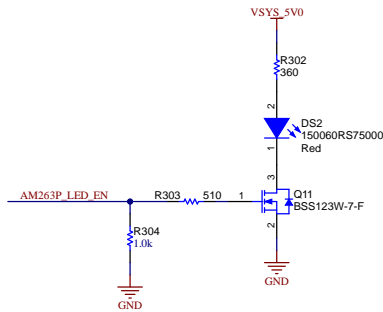
## AM263P 1.2V



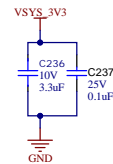
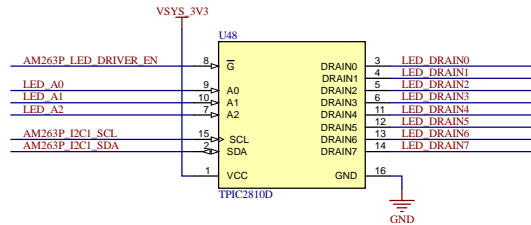
## AM263P Safety Error



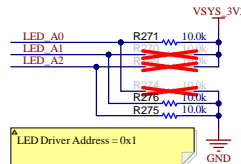
## AM263P GPIO LED



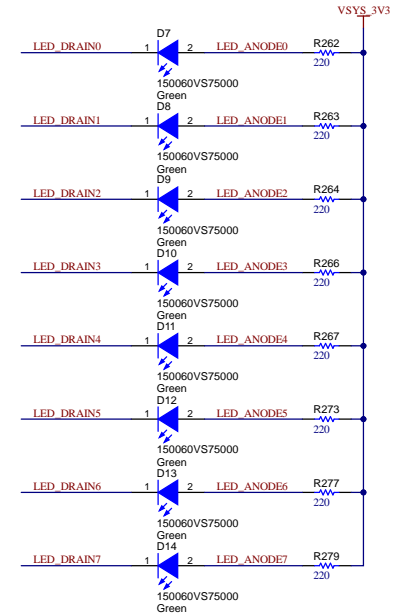
## Industrial LED Driver



## LED Driver Address



## LED Driver Enable

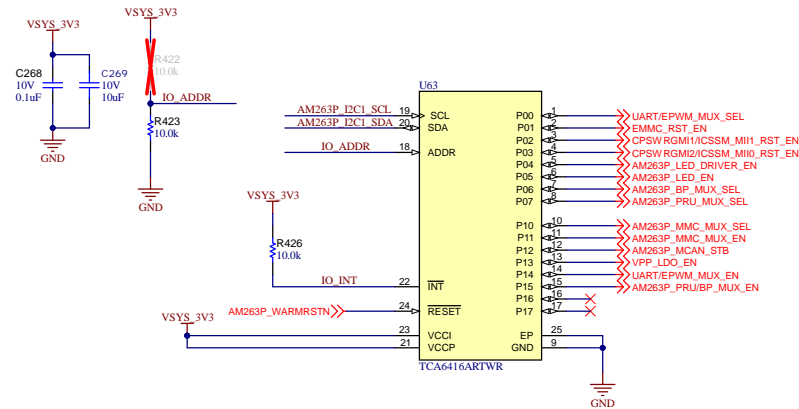


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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 24 of 26
Drawn By: a0271760	File: PROC171_LED.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	http://www.ti.com

## IO\_EXPANDER

AM263P\_I2C1\_SCL >> AM263P\_I2C1\_SCL  
AM263P\_I2C1\_SDA >> AM263P\_I2C1\_SDA



I2C ADDRESS  
0x20

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TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title: -
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 25 of 26
Drawn By: a0271760	File: PROC171_IO_EXPANDER_SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	http://www.ti.com



System Hardware, Notes, Labels



PCB Number: PROC171  
PCB Rev: E2

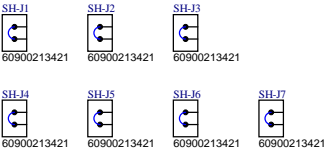
PCB  
LOGO  
Texas Instruments



PCB  
LOGO  
FCC disclaimer

PCB  
LOGO  
WEEE logo

Selection Jumpers



LBL1  
PCB Label  
THT-14-423-10  
Size: 0.65" x 0.20"

ZZ1  
Label Assembly Note  
This Assembly Note is for PCB labels only

ZZ2  
Assembly Note  
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3  
Assembly Note  
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4  
Assembly Note  
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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Orderable: LP-AM263P	Designed for: TEXAS INSTRUMENTS	Mod. Date: 3/11/2024
TID #: N/A	Project Title: AM263P Launchpad	
Number: PROC171	Rev: E2A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 26 of 26
Drawn By: a0271760	File: PROC171_Hardware.SchDoc	Size: B
Engineer: Shrinivas/Rakesh	Contact:	http://www.ti.com

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