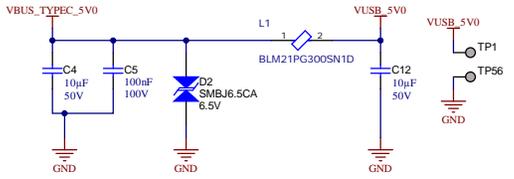
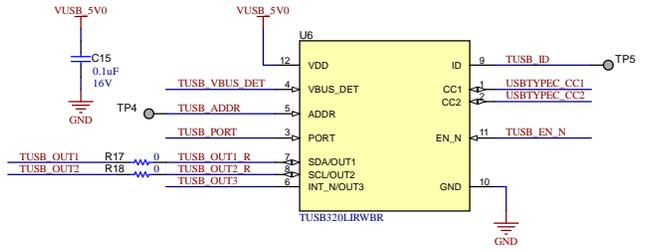


USB Type-C Power Input: 5.0V, 3.1A

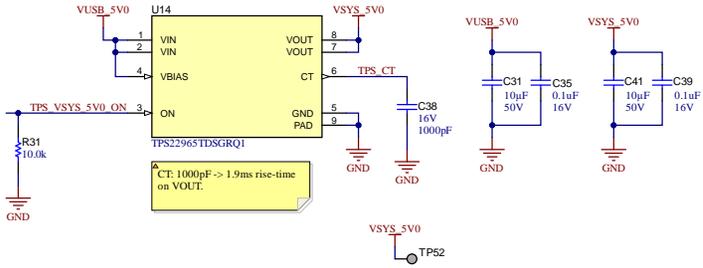
USB 5.0V Input Power Filtering



USB Type-C CC Logic Controller

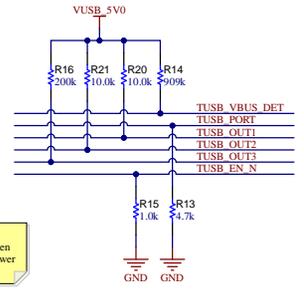


USB 5.0V Input Power Load Switch (4A max)

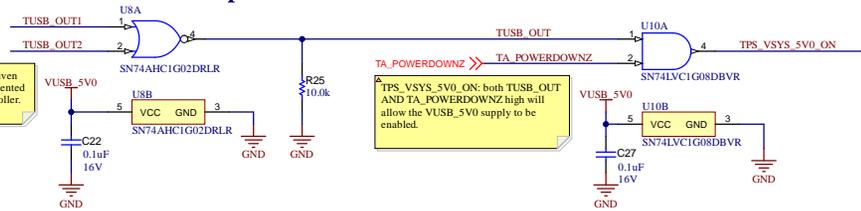


PORT: pull low to enumerate as down-stream (sink) device mode.

EN_N: grounded, to enable the TUSB320 by default, but can be driven high by test automation header to power down system.



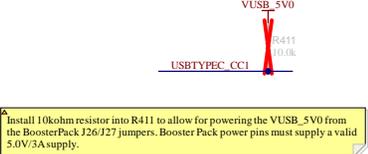
Input Power Load Switch Enable



TUSB_OUT[2:1]: both driven low when a 3A source presented to the TUSB320 CC controller.

TPS_VSYS_5V0_ON: both TUSB_OUT AND TA_POWERDOWNZ high will allow the VBUS_5V0 supply to be enabled.

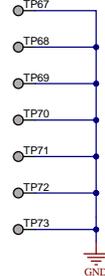
USB Type-C DFP CC Emulation



Install 10k resistor into R411 to allow for powering the VBUS_5V0 from the BoosterPack J26/J27 jumpers. Booster Pack power pins must supply a valid 5.0V/3A supply.

Note: Installing R411 will prevent the board from being powered through the J25 USB Type-C Connector when using a valid USB Type-C host port.

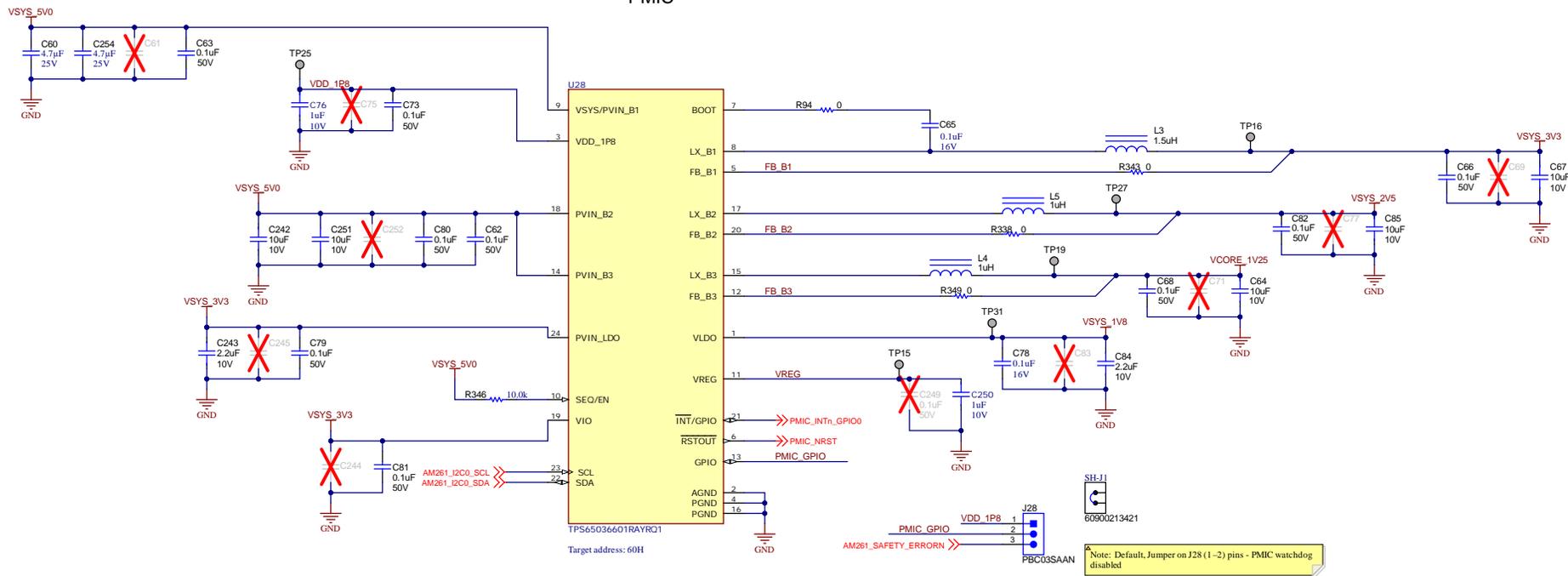
GND Test Points



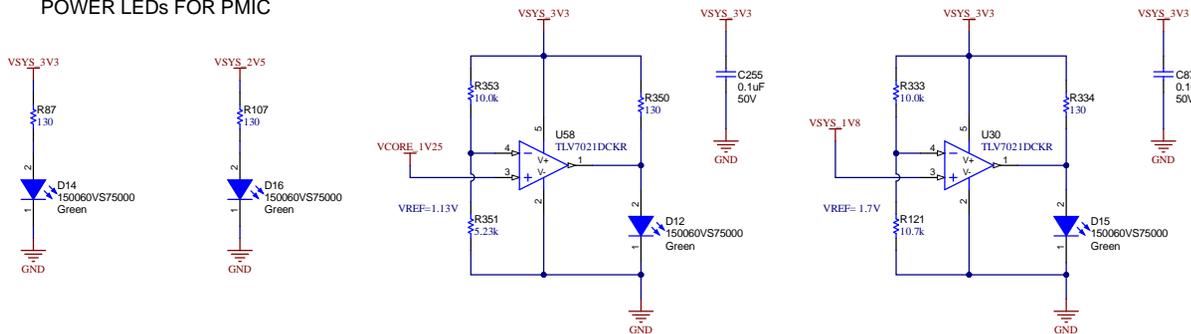
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Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 6/3/2025
TID #: N/A	Project Title: USB TYPEC INPUT PWR	
Number: PROC193	Rev: A	Sheet 2 of 26
SVN Rev: 473	Assembly Variant: 001	
Drawn By: Vijetha J. Kiran	File: PROC193A_02_USB_TYPEC_IN_PWR_SchDoc Size: B	http://www.ti.com
Engineer: Vijetha J. Kiran	Contact:	©Texas Instruments

PMIC

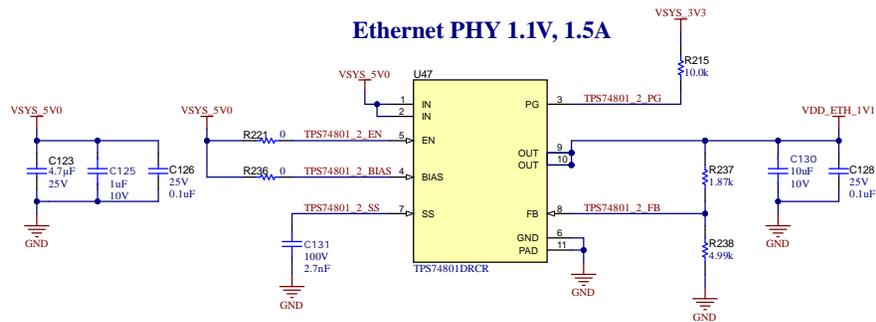
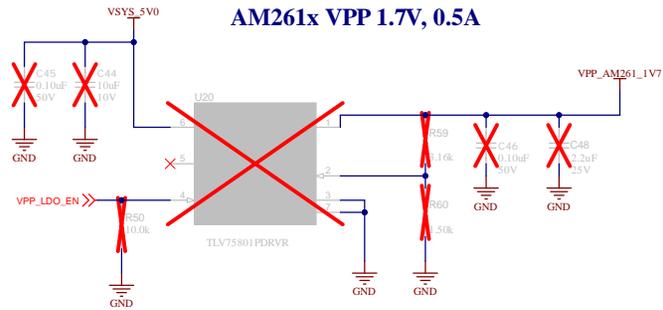


POWER LEDs FOR PMIC



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Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 6/24/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: PMIC
SVN Rev: N/A	Assembly Variant: 001	Sheet: 3 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_03_PMIC_PWR_SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	



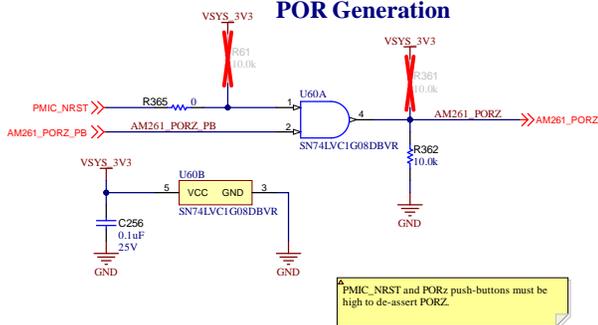
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Orderable: LP-AM261	Designed for:	Mod. Date: 6/3/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: VPP 1.7V LDO
SVN Rev: 473	Assembly Variant: 001	Sheet: 4 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_04_VPP1V7_PWR_SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	http://www.ti.com

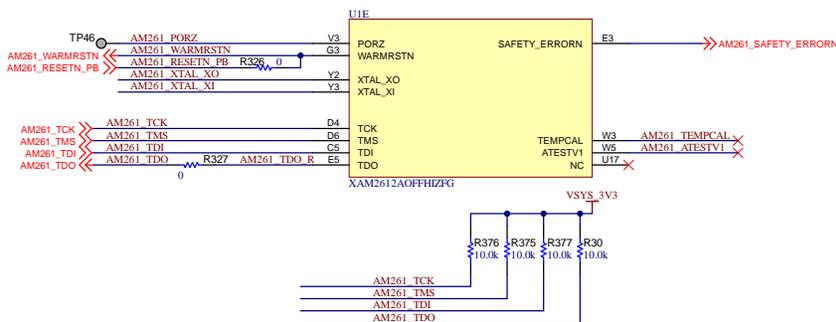
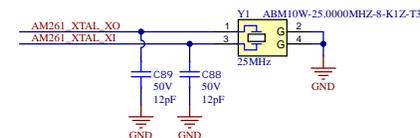
©Texas Instruments

AM261x Clock, Reset, Boot, JTAG

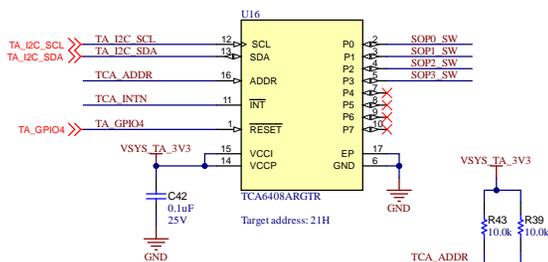
POR Generation



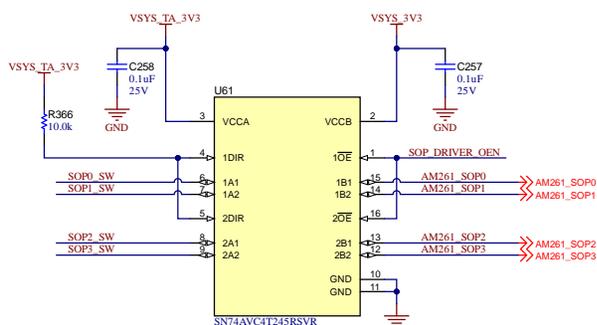
25 MHz Crystal



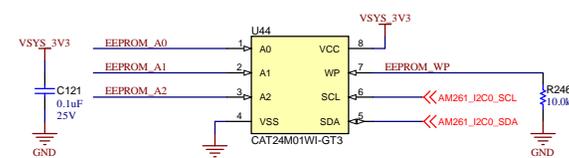
Test Automation SOP Select



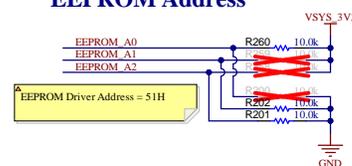
SOP State Driver



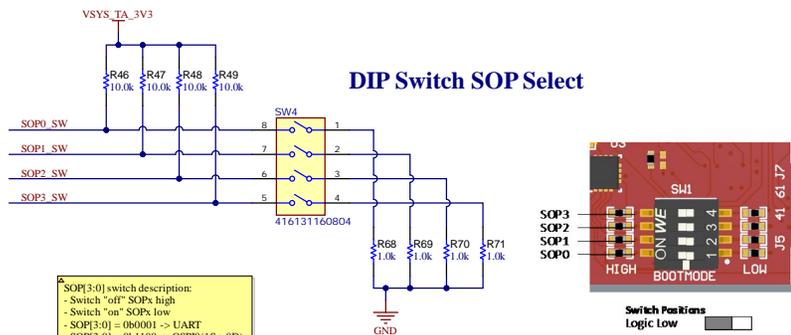
Board ID EEPROM



EEPROM Address



DIP Switch SOP Select

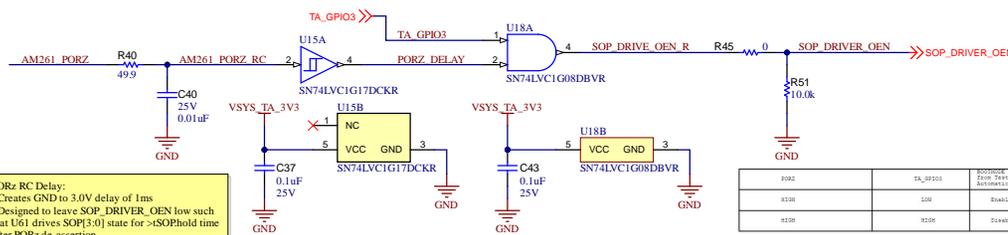


SOP[3:0] switch description:
 - Switch "off" SOPx high
 - Switch "on" SOPx low
 - SOP[3:0] = 0b0001 -> UART
 - SOP[3:0] = 0b1100 -> OSPIN(1S->8D)
 - SOP[3:0] = 0b0011 -> OSPIN(8S)-SDR
 - SOP[3:0] = 0b1011 -> DevBoot
 - SOP[3:0] = 0b1110 -> USB2.0 DFU

Switch Positions
 Logic Low
 Logic High

PORz RC Delay:
 - Creates GND to 3.0V delay of 1ms
 - Designed to leave SOP_DRIVER_OEN low such that U61 drives SOP[3:0] state for >SOPhold time after PORz-deassertion

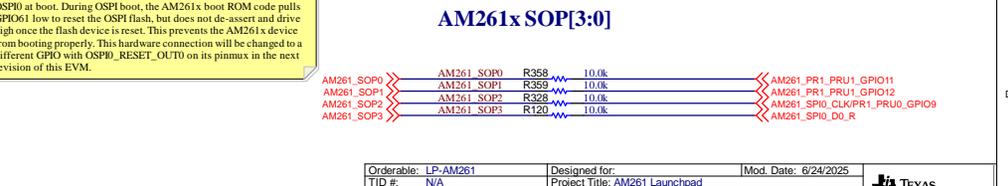
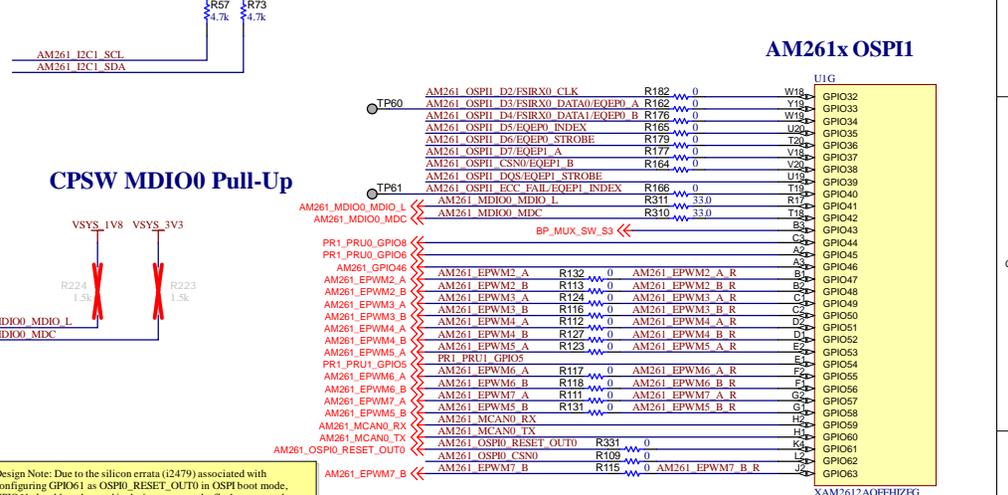
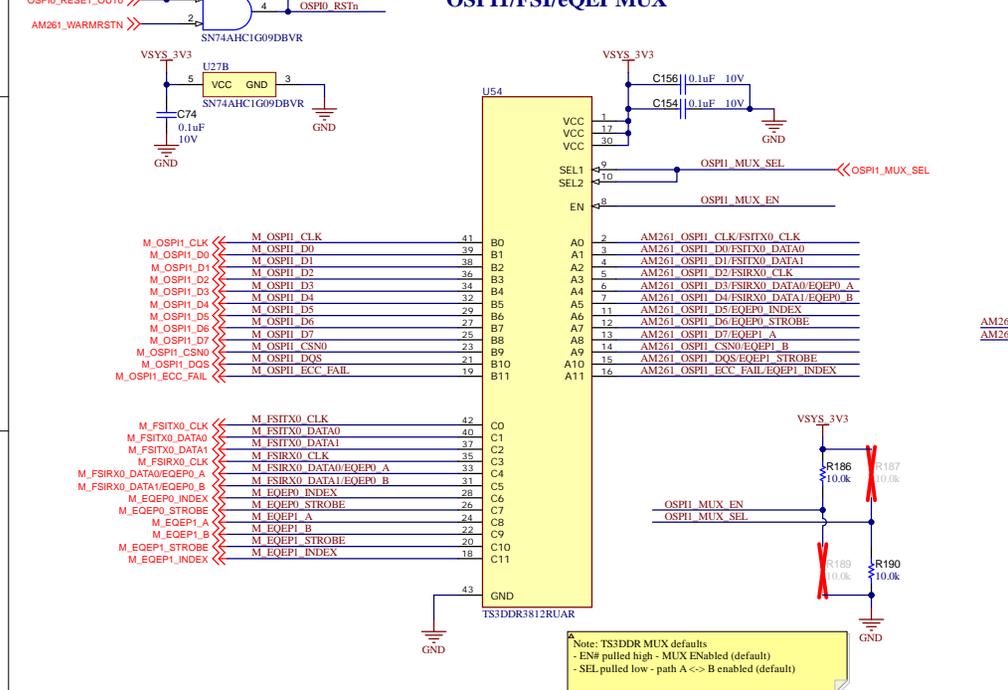
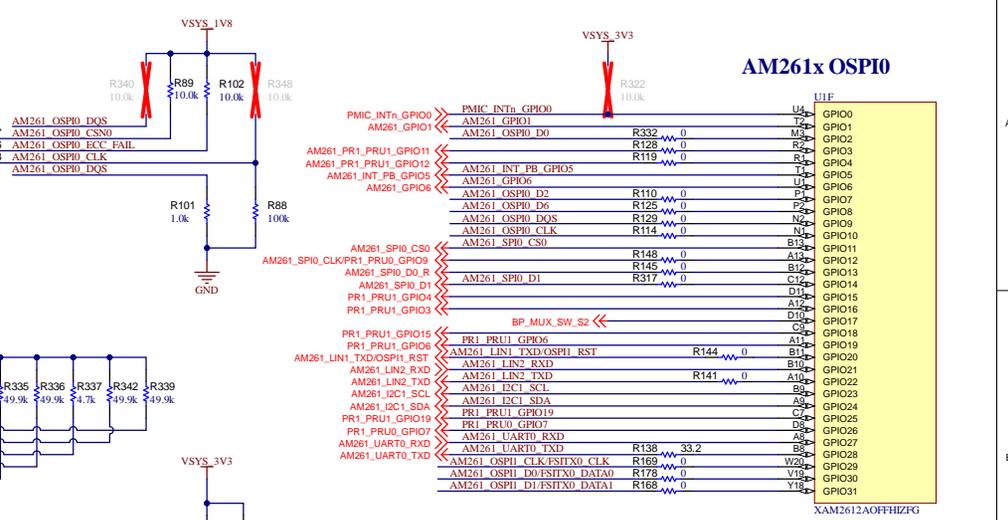
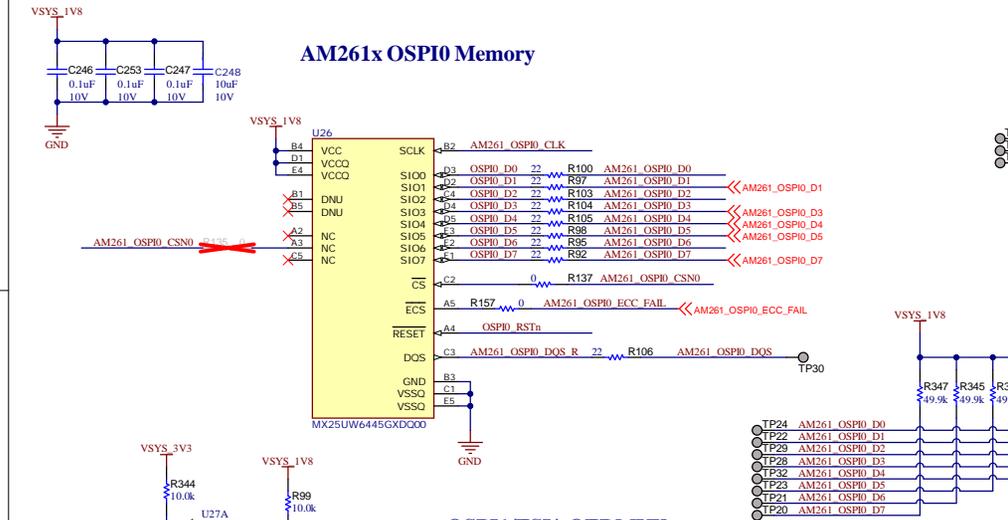
PORZ SOP Driver RC Delay



Pin	TA_SOP0	OSPIN(1S)-8D
100R	100R	100R
101R	101R	101R
102R	102R	102R

Orderable: LP-AM261	Designed for: Project Title: AM261 Launchpad	Mod. Date: 6/3/2025
TID #: N/A	Number: PROC193	Rev: A
SVN Rev: 473	Assembly Variant: 001	Sheet: 6 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_06_Clock_Reset_Boot_JTAG_Sch01	Size: B
Engineer: Vijetha J. Kiran	Contact:	

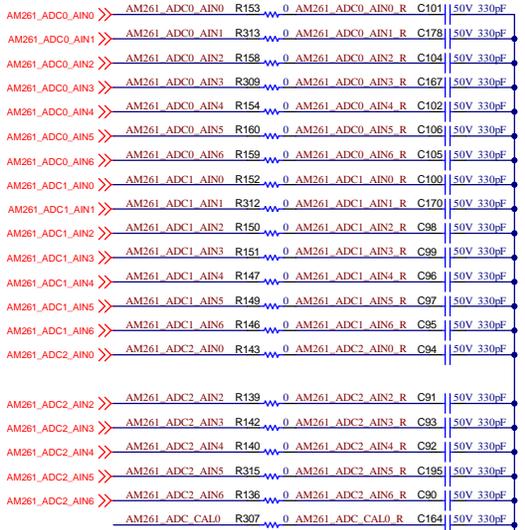
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Design Note: Due to the silicon errata (I2479) associated with configuring GPIO61 as OSPI0_RESET_OUT0 in OSPI boot mode, GPIO61 should not be used in designs to reset the flash connected to OSPI0 at boot. During OSPI boot, the AM261x boot ROM code pulls GPIO61 low to reset the OSPI flash, but does not de-assert and drive high once the flash device is reset. This prevents the AM261x device from booting properly. This hardware connection will be changed to a different GPIO with OSPI0_RESET_OUT0 on its pinmux in the next revision of this EVM.

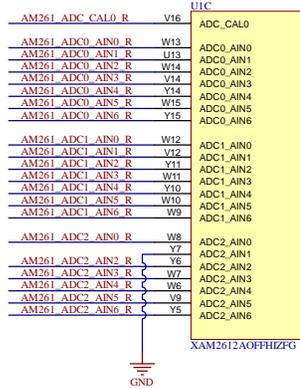
Note: TS3DDR MUX defaults
 -EN# pulled high - MUX Enabled (default)
 -SEL pulled low - path A <-> B enabled (default)

SAR ADC RC Filtering

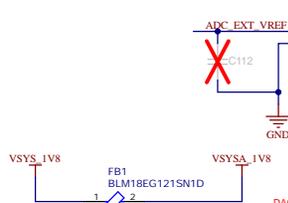


Layout Note: Place RC filters with minimal distance between components and close to MCU BGA.

AM261x ADC and DAC



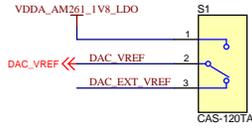
ADC External VREF Header



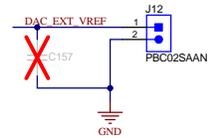
DAC Output



DAC VREF Select

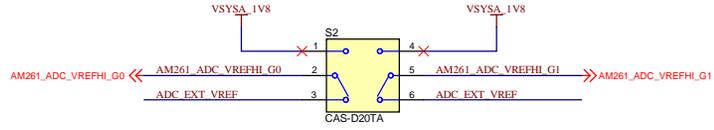


DAC External VREF Header



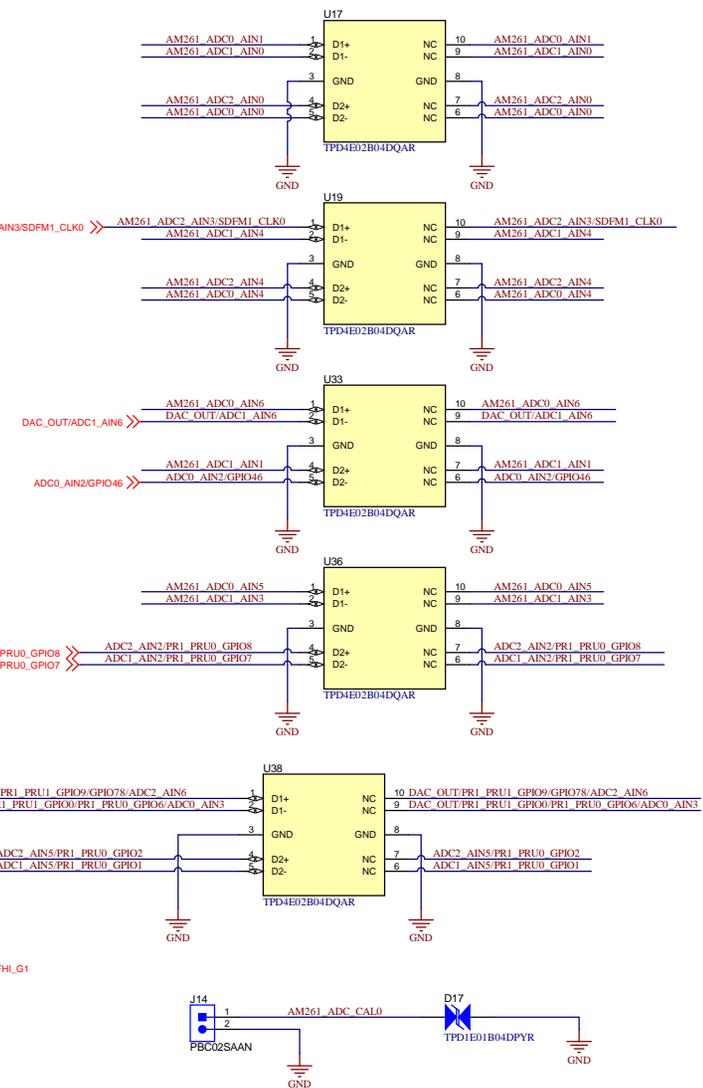
DAC VREF Switch Select - 1.8V VREF must be provided for AM261x comparators to function
 - Select pins 1-2 select AM261x 1.8V analog LDO output as DAC VREF (default)
 - Select pins 2-3 select external 1.8V VREF (if any provided)

ADC VREF Select



ADC VREF Switch Select
 - Switch in 1-2 position allows AM261x on-board 1.8 VREF (VSSYA_1V8) for VREFG0
 - Switch in 2-3 position allows on-die ADC_VREF (default) or external 1.8V VREF (if any provided) for VREFG0
 - Switch in 4-5 position allows AM261x on-board 1.8 VREF (VSSYA_1V8) for VREFG0/G1
 - Switch in 5-6 position allows on-die ADC_VREF (default) or external 1.8V VREF (if any provided) for VREFG1

Layout Note: Place external ESD near connectors



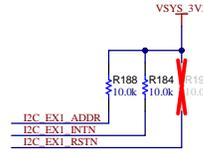
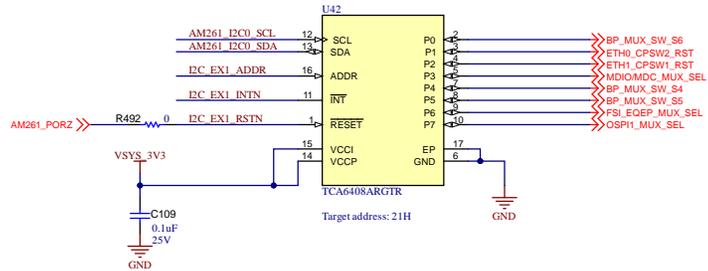
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Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 6/30/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: ADC_DAC
SVN Rev: 546	Assembly Variant: 001	Sheet: 9 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_09_ADC_DAC.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

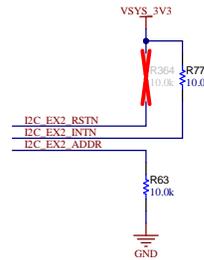
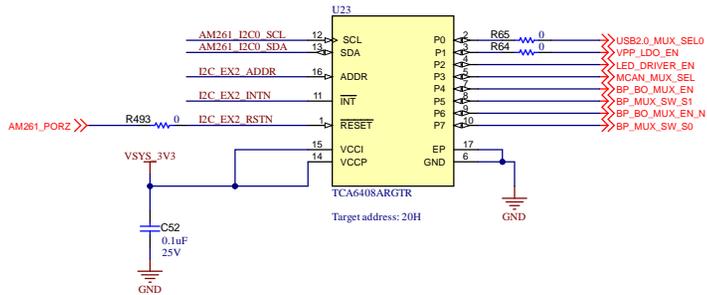
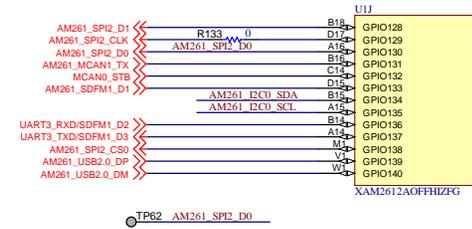


AM261x_USB2.0, I2C0 and IO expander

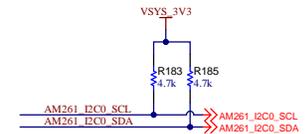
I2C IO Expanders



AM261x_USB2.0, I2C0



I2C0 Pull-Up

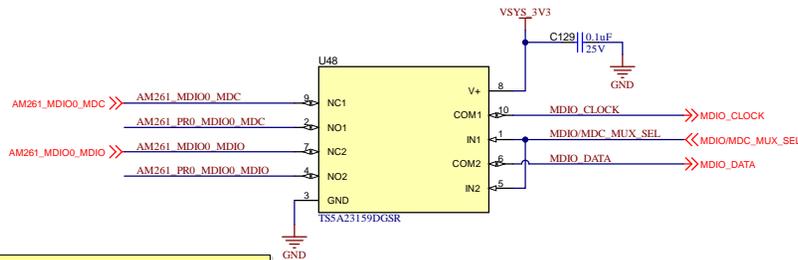


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Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 6/24/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: AM261x_USB2.0 and I2C
SVN Rev: 522	Assembly Variant: 001	Sheet: 10 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_10_USB_I2C_IOEXP_SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

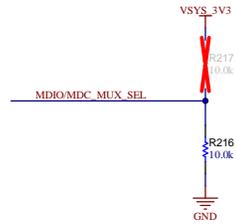
AM261x CPSW - RGMII and MDIO

CPSW/ICSSM MDIO Switch

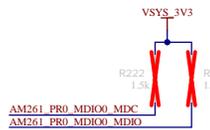


MDIO Switch Modes
 - IN1/2 pulled low -CPSW MDIO selected
 - IN1/2 pulled high -ICSSM MDIO selected
 - IN1/2 pulled low by default -CPSW_MDIO Selected

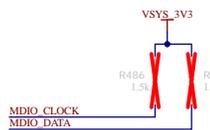
IN	NC to COM, COM to NC	NO to COM, COM to NO
L	ON	OFF
H	OFF	ON



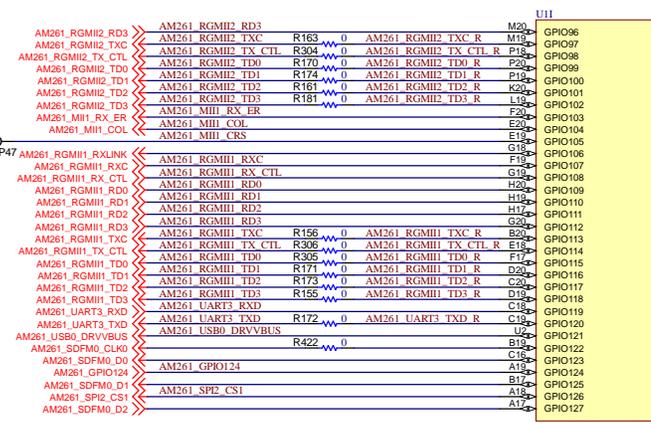
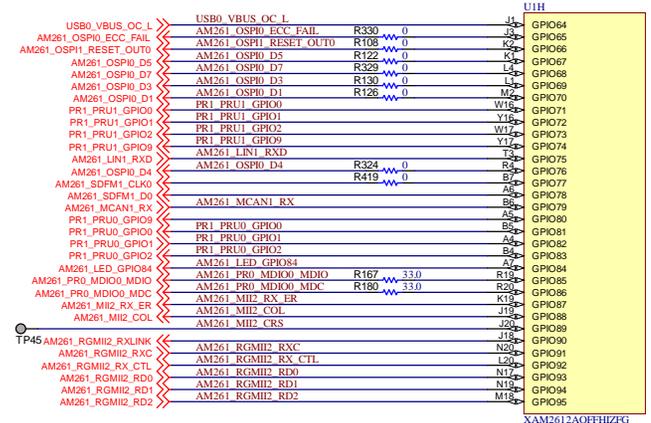
PR0 MDIO Pull-Up



MDIO Pull-Up

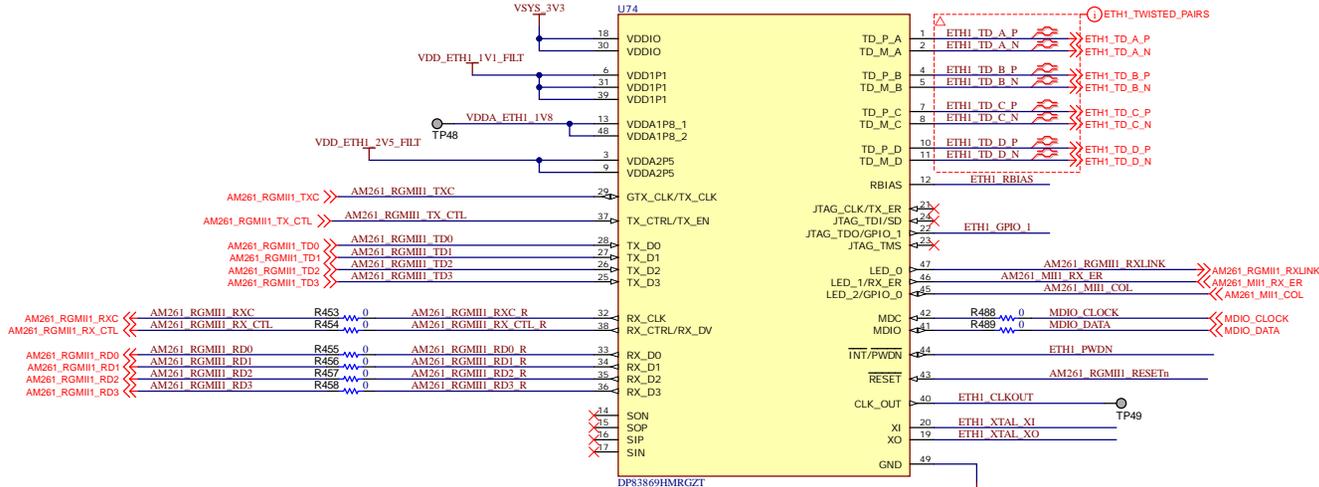


- TP63 AM261 MII2_COL
- TP64 AM261 UART3_RXD
- TP65 AM261 GPIO124
- TP66 AM261_SPE2_CS1

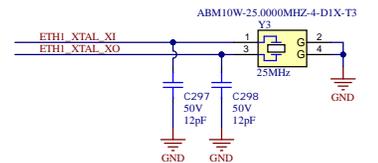


AM261x PR0 PRU1 /CPSW1

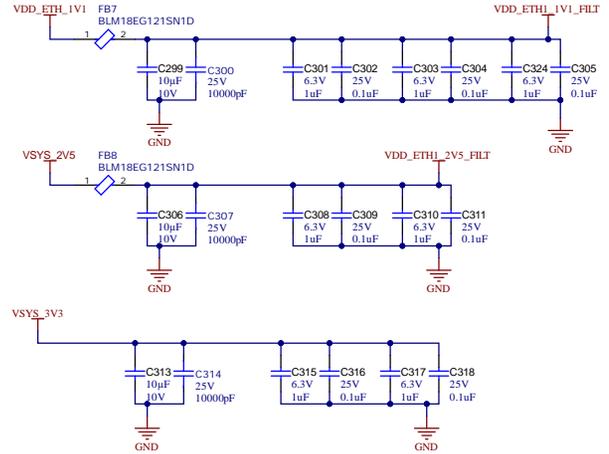
1 2 3 4 5 6



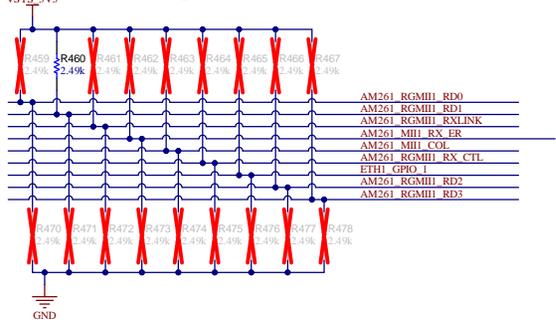
25 MHz Crystal



PHY Decoupling

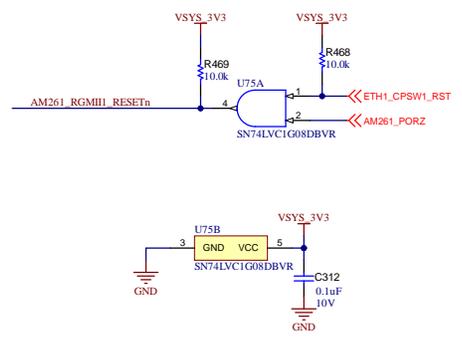


PHY Strap Resistors



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

PHY_RST_LOGIC



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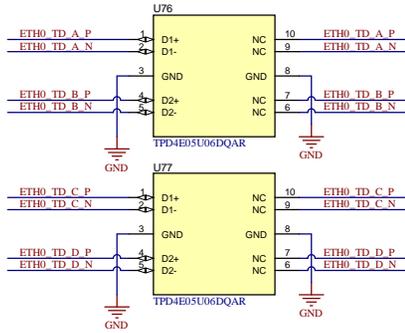
Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 7/1/2025
TID #: N/A	Project Title: Ethernet Port 1	
Number: PROC193	Rev: A	Sheet Title: Ethernet Port 1
SVN Rev: 558	Assembly Variant: 001	Sheet: 13 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_13_Ethernet_1_SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	



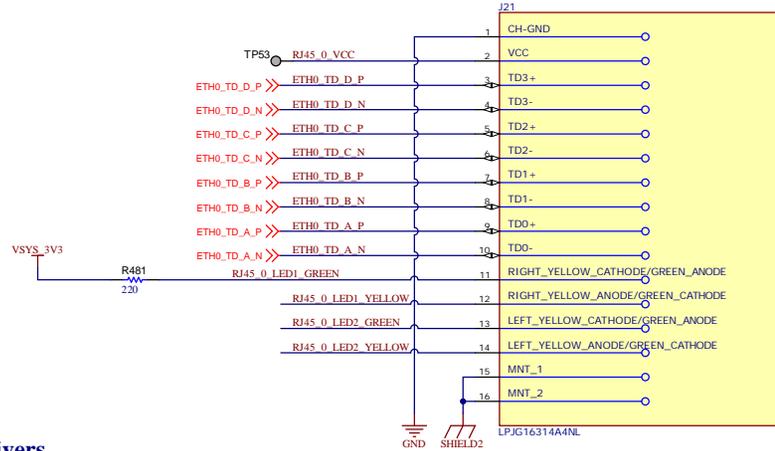
1 2 3 4 5 6

AM261x Ethernet PHY #0 - RJ-45 Jack

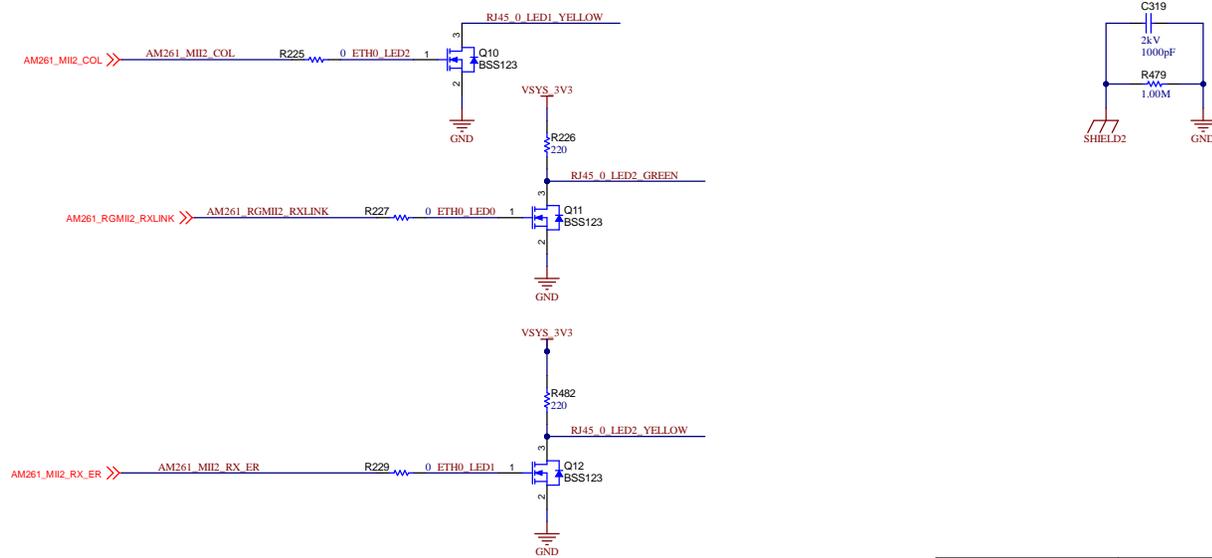
RJ-45 ESD Protection



RJ-45 Jack #0



RJ-45 LED Drivers

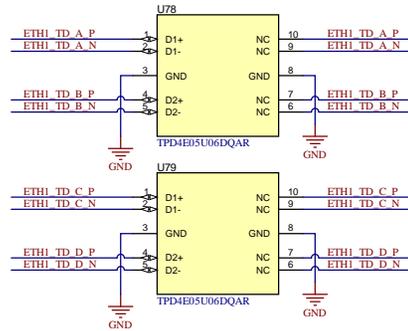


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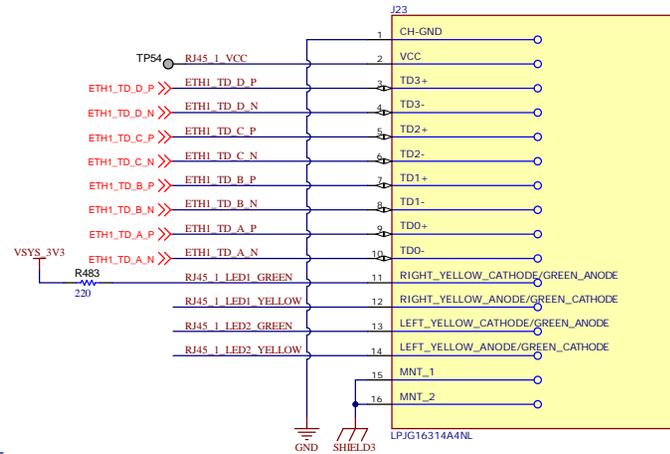
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TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title:
SVN Rev: 483	Assembly Variant: 001	Sheet: 14 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_14_Ethernet_RJ45_0.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

AM261x Ethernet PHY #1 - RJ-45 Jack

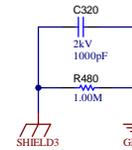
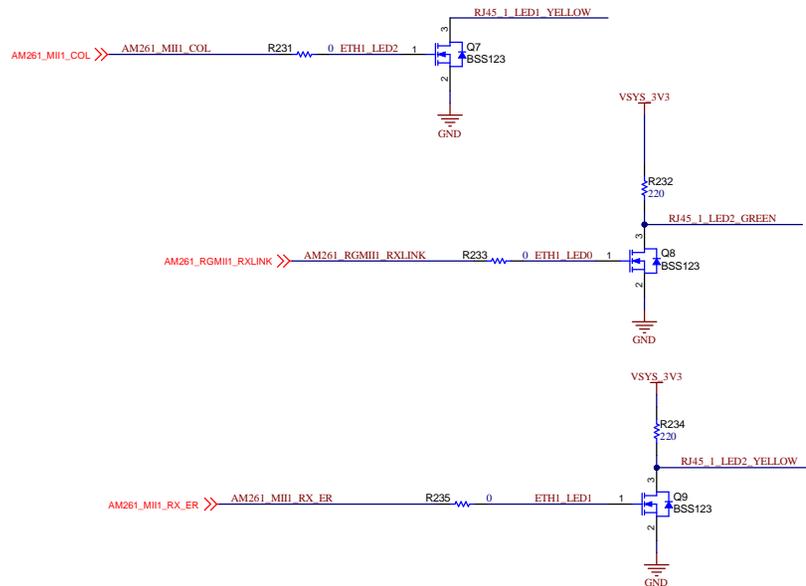
RJ-45 ESD Protection



RJ-45 Jack #1



RJ-45 LED Drivers

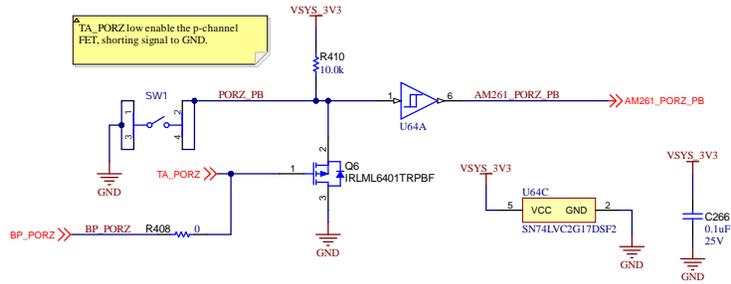


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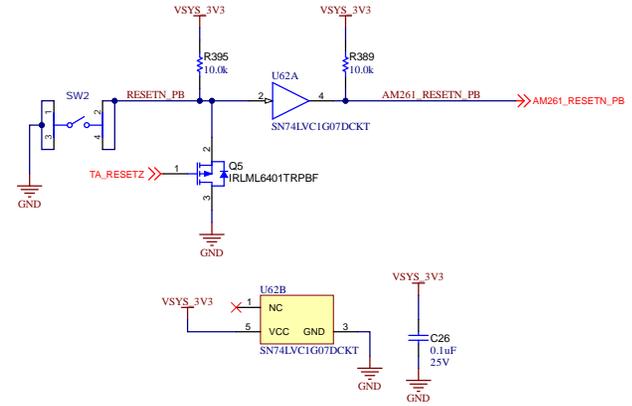
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Number: PROC193	Rev: A	Sheet Title:
SVN Rev: 483	Assembly Variant: 001	Sheet: 15 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_15_Ethernet_RJ45_1.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

Push-Buttons

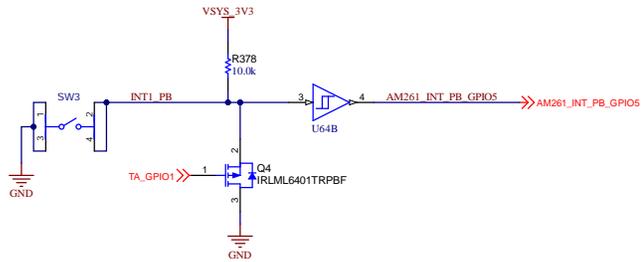
PORZ Push-Button and Test Automation



RESETZ Push-Button and Test Automation



INT1 Push-Button and Test Automation



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Number: PROC193	Rev: A	Sheet Title: Push Button
SVN Rev: 522	Assembly Variant: 001	Sheet: 16 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_16_Push Buttons.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

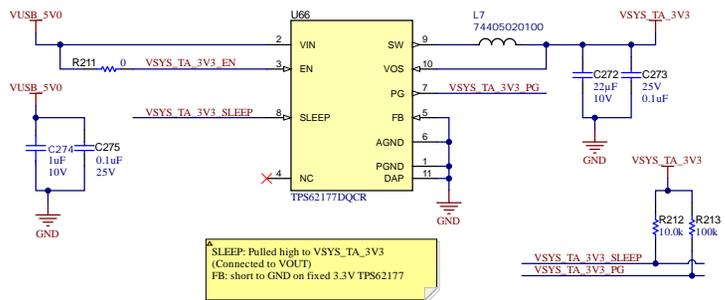


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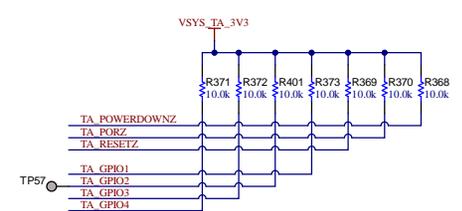
Test Automation Section

Test Automation 3.3V, 500mA Supply

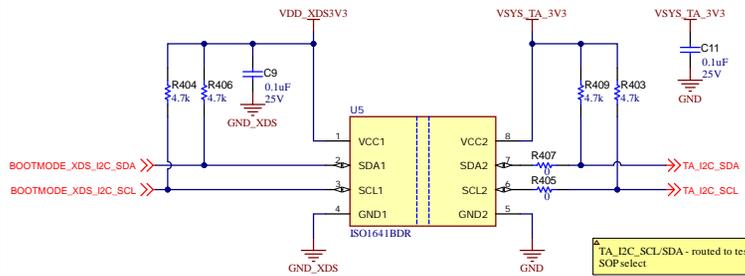
SIGNAL NAME	DESCRIPTION	Direction WRT CTRL	Internal/ External PULL States
TA_POWERDOWN	Used to Power down the system	OUTPUT	External Pullup
TA_PORzn	Used to Reset the SoC PORz	OUTPUT	External Pullup
TA_RESEZz	SoC Warmreset	OUTPUT	External Pullup
TA_GPI01	Interrupt to SoC	OUTPUT	External Pullup
TA_GPI02	Used to Enable or Disable 1.2V Regulator	OUTPUT	External Pullup
TA_GPI03	Used to Enable the BOOTMODE Buffer	OUTPUT	External Pullup
TA_GPI04	Used Reset Bootmode IO Exp	OUTPUT	External Pullup



This Pulls provides a defined logic state to the Test Automation signals before XDS110 firmware is loaded

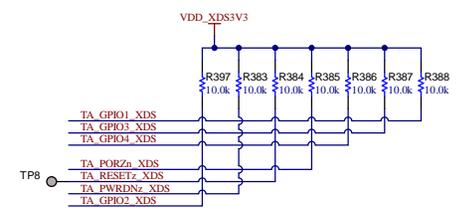
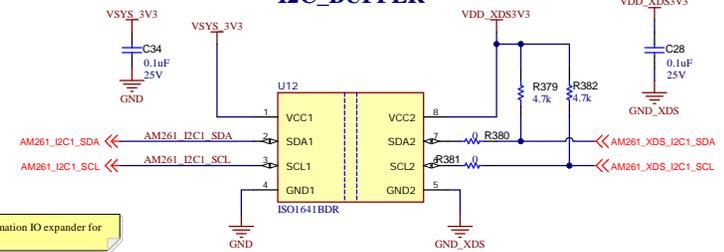


BOOTMODE_I2C_TA BUFFER

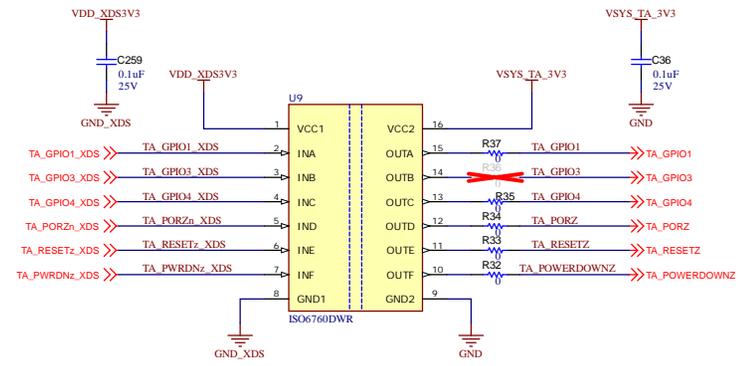
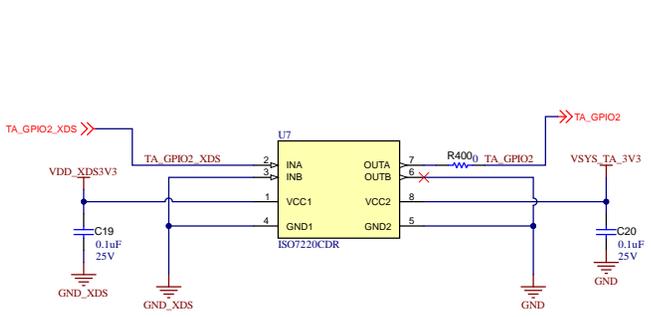


TA_I2C_SCL/SDA - routed to test automation IO expander for SOPselect

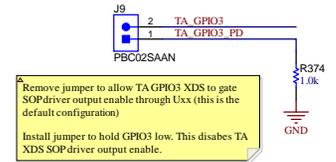
I2C_BUFFER



ISOLATION BUFFERS FOR TA SIGNALS



Test-Automation PORz Override



Remove jumper to allow TA GPIO3 XDS to gate SOP driver output enable through Uxx (this is the default configuration)
Install jumper to hold GPIO3 low. This disables TA XDS SOP driver output enable.

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Orderable: LP-AM261	Designed for: AM261 Launchpad	Mod. Date: 6/2/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: Test Automation
SVN Rev: 473	Assembly Variant: 001	Sheet: 17 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_17_Test_Automation.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	

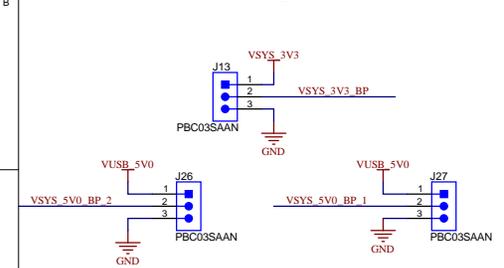


Boosterpack Headers

Boosterpack Site 1



Boosterpack Power

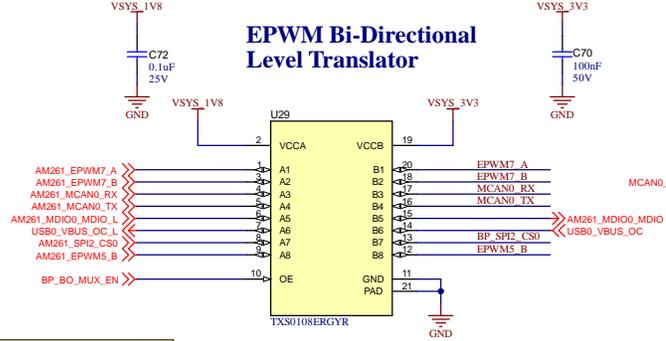


Note: Default Jumpers on pins 1-2 of J13, J26, and J27. The supplies at the boosterpacks enabled

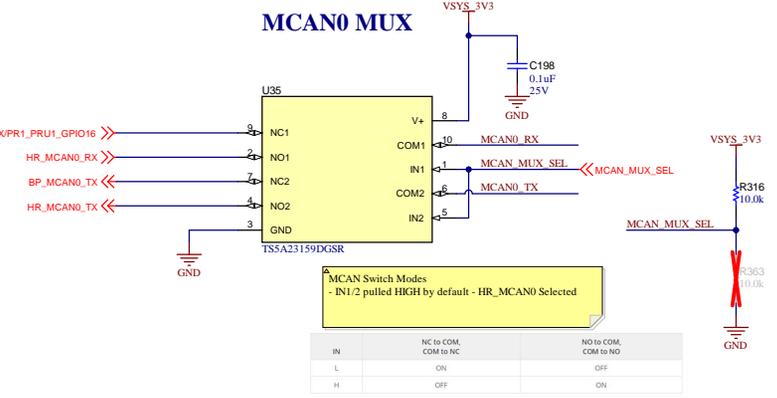


J26, J27 used to supply 5V on-board power/external power to attached BoosterPack or get the 5V power from Boosterpack header. J13 used to supply 3.3V on-board power/external power to attached BoosterPack.

EPWM Bi-Directional Level Translator



MCAN0 MUX



MCAN Switch Modes - IN1/2 pulled HIGH by default - HR_MCAN0 Selected

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

Boosterpack Site 2



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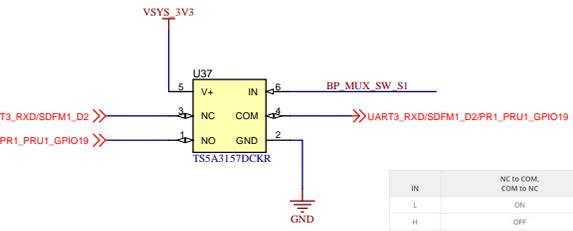
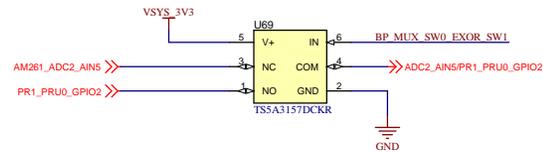
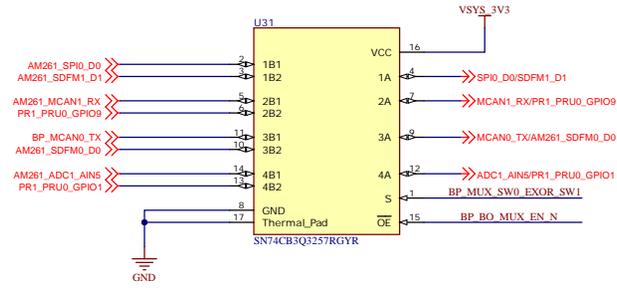
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TID #: N/A	Number: PROC193	Rev: A
SVN Rev: 522	Drawn By: Vijetha J. Kiran	File: PROC193A_18_Boosterpack_Headers_SchDoc Sheet: 18 of 26
Engineer: Vijetha J. Kiran	Contact:	http://www.ti.com



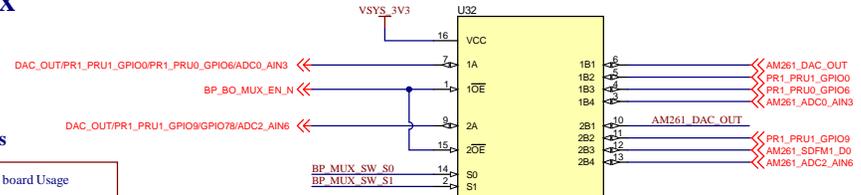
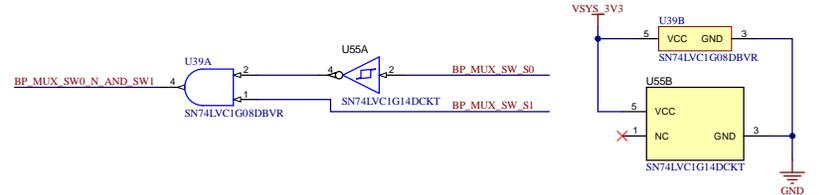
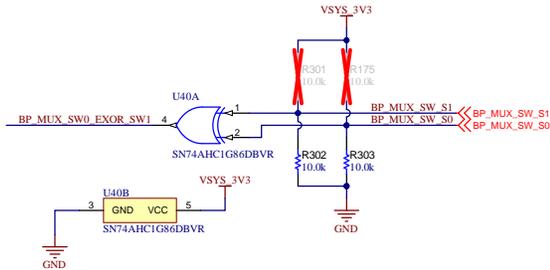
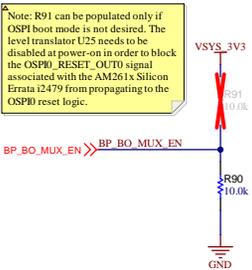
Alternate Boosterpack Function MUX

Boosterpack MUX modes

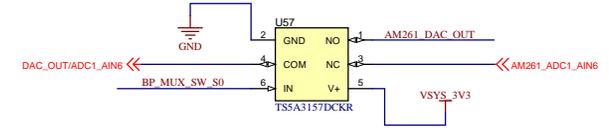
BP_MUX_SW_S1	BP_MUX_SW_S0	BP board Usage
LOW	LOW	Standard LP/BP
LOW	HIGH	BP-AM2BLDCSERVO
HIGH	LOW	IO-LINK
HIGH	HIGH	C2000 DRVx BP



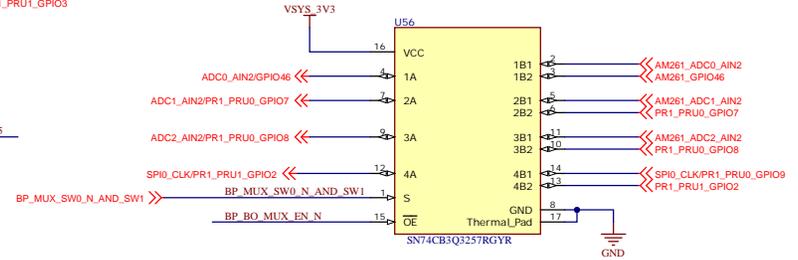
IN	NC to COM, COM to NC	NO to COM, COM to NO
L	ON	OFF
H	OFF	ON



Note: SN74CB3Q3257RGYR MUX defaults
 - OE pulled low - MUX Enabled (default)
 - SEL pulled low - path xA <-> xB1 enabled (default)

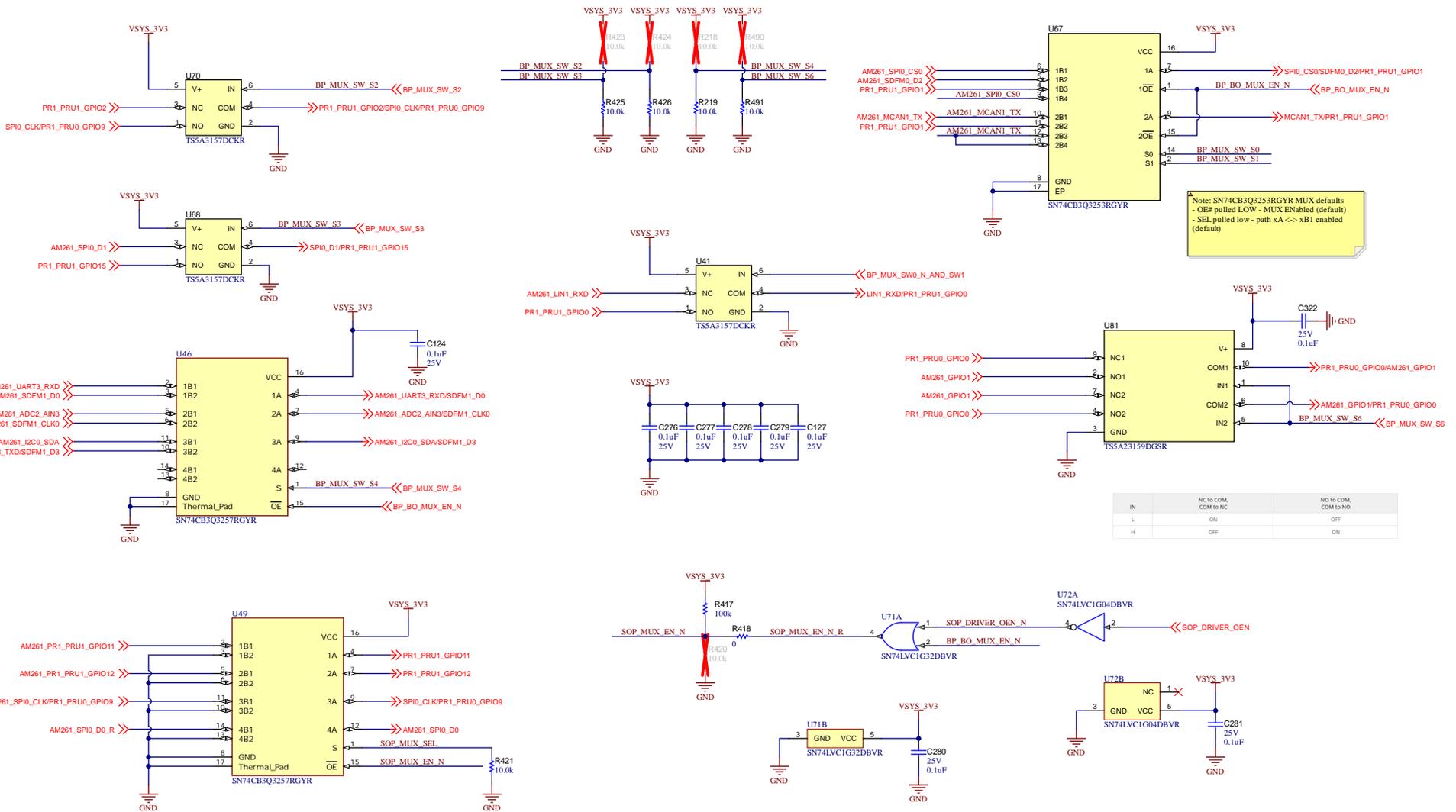


IN	NC to COM, COM to NC	NO to COM, COM to NO
L	ON	OFF
H	OFF	ON



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Alternate Boosterpack Function MUX

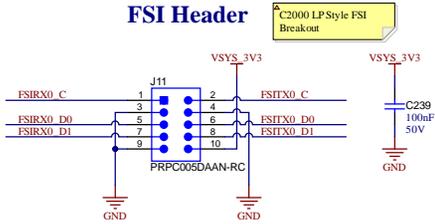


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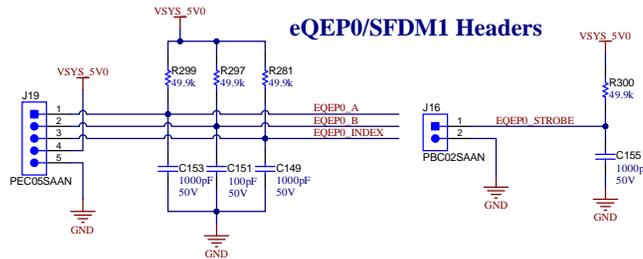
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Number: PROC193	Rev: A	Sheet Title: BP Muxes1
SVN Rev: 509	Assembly Variant: 001	Sheet: 20 of 26
Drawn By: Vijetha J, Kiran	File: PROC193A_20_BPMuxes1.SchDoc	Size: B
Engineer: Vijetha J, Kiran	Contact:	

Breakout Headers

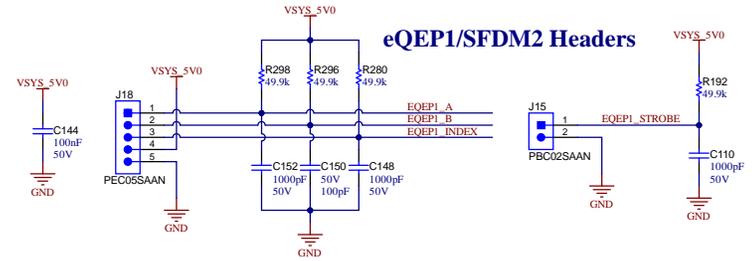
FSI Header



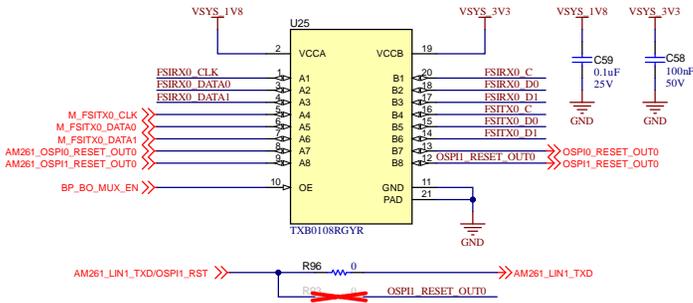
eQEP0/SFDM1 Headers



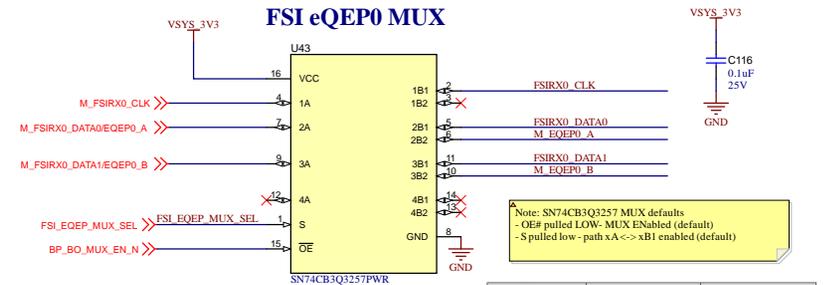
eQEP1/SFDM2 Headers



FSI Bi-Directional Level Translator

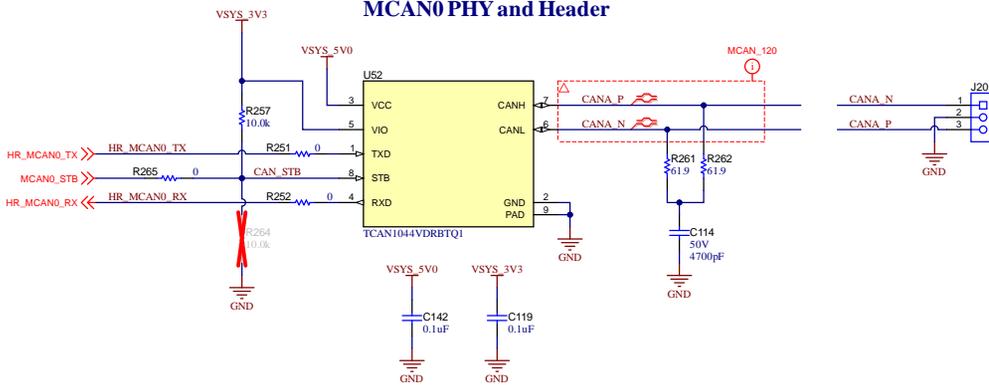


FSI eQEP0 MUX

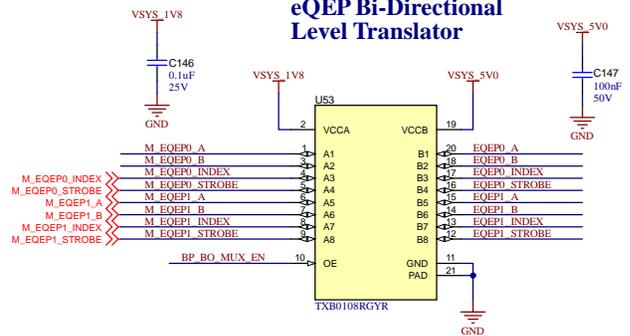


INPUTS		INPUT/OUTPUT	FUNCTION
OE	s	A	
L	L	B1	A port = B1 port
L	H	B2	A port = B2 port
H	X	Z	Disconnect

MCAN0 PHY and Header



eQEP Bi-Directional Level Translator

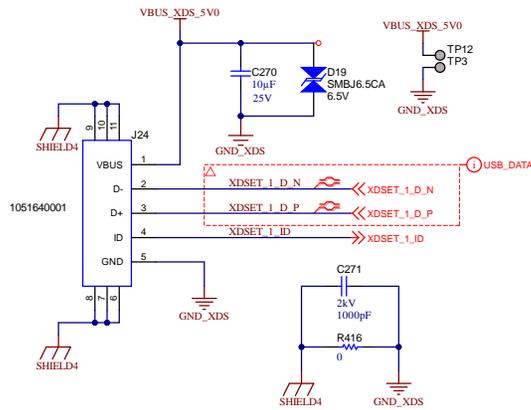


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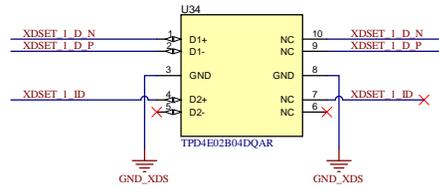
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TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: Breakout Headers
SVN Rev: 473	Assembly Variant: 001	Sheet: 21 of 26
Drawn By: Vijetha J, Kiran	File: PROC193A_21_Breakout_Headers_SchDoc	Size: B
Engineer: Vijetha J, Kiran	Contact:	

XDS110 JTAG/USB-to-UART Bridge

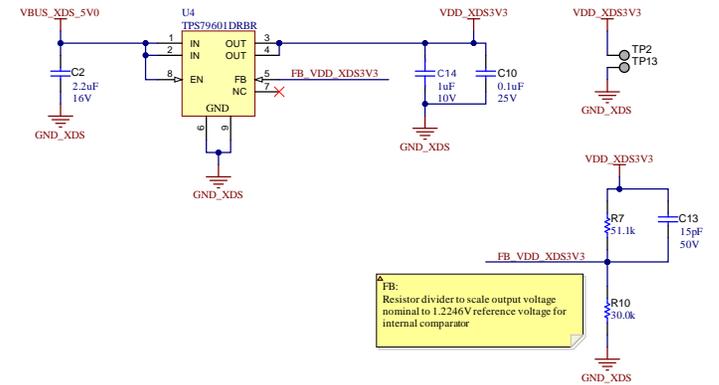
XDS110 USB Micro-B PORT



USB Mini-B ESD Protection



XDS110 3.3V LDO



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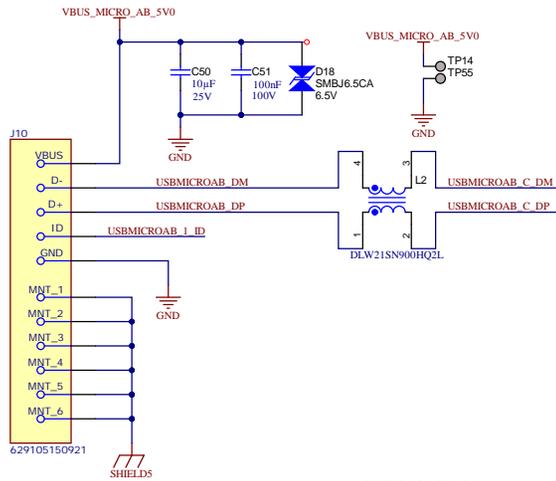
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Number: PROC193 Rev: A	Sheet Title: XDS110 /USB2.0 Micro-B Port	
SVN Rev: 473	Assembly Variant: 001	Sheet: 22 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_22_USB_XDS110.SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	



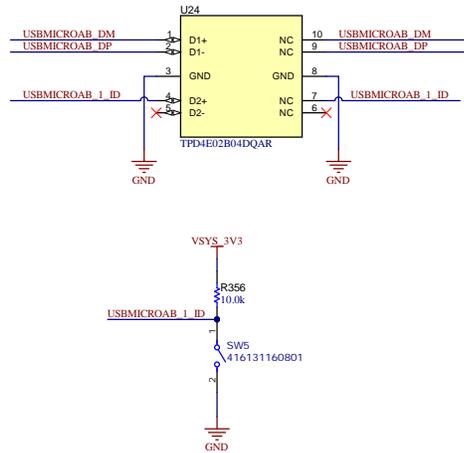
©Texas Instruments

USB Micro-AB 2.0

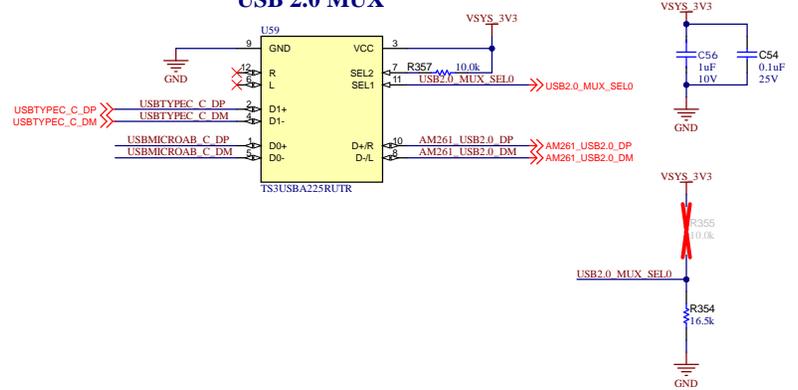
USB2.0 Micro_AB PORT



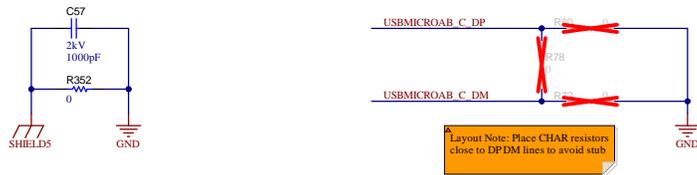
USB Micro-AB ESD Protection



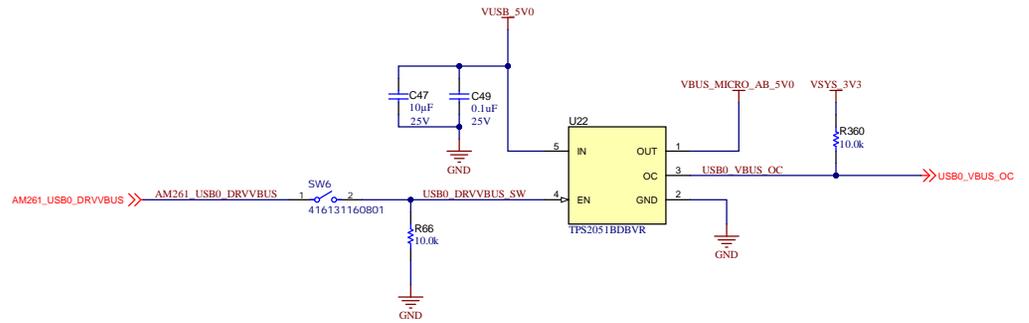
USB 2.0 MUX



USB 2.0 characterization Res



USB micro AB Power-Distribution Switch

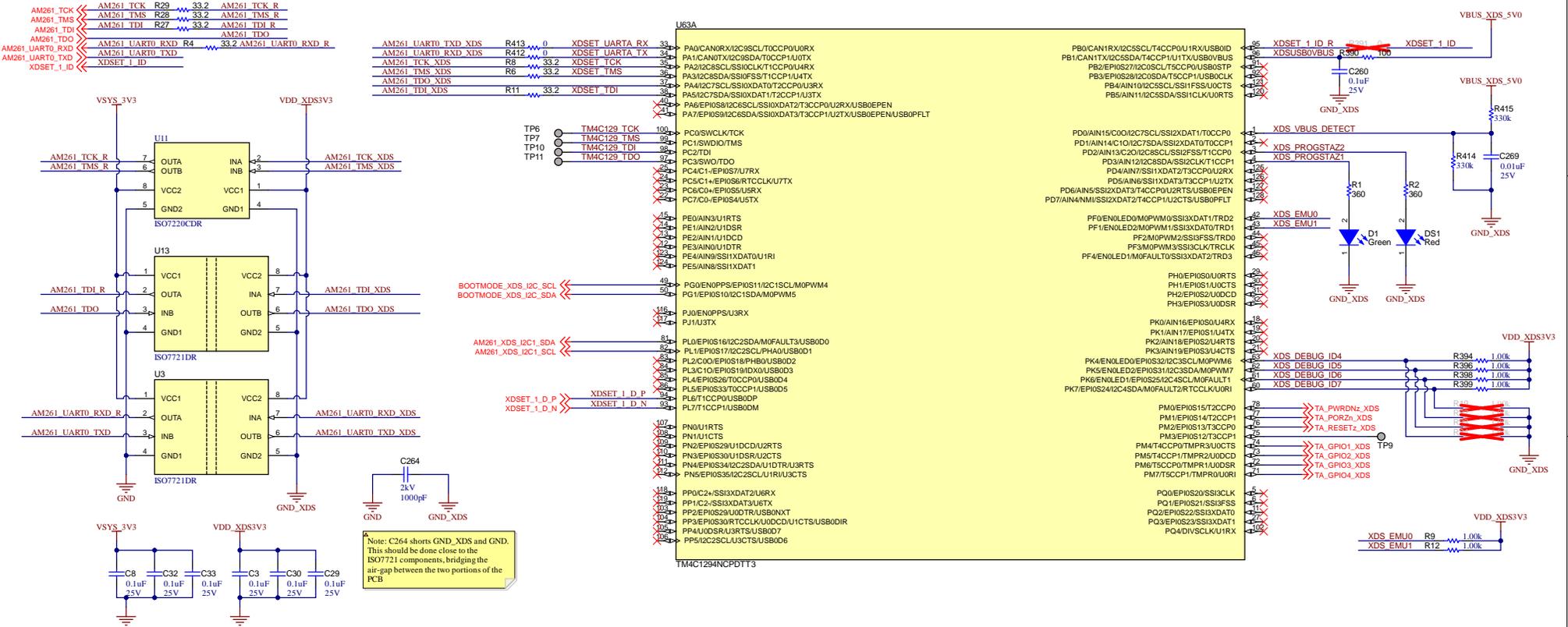


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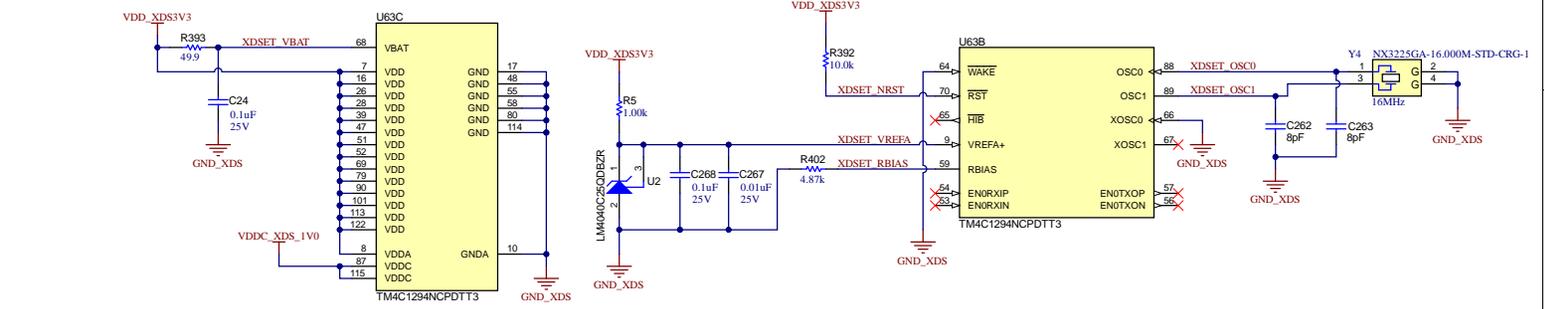
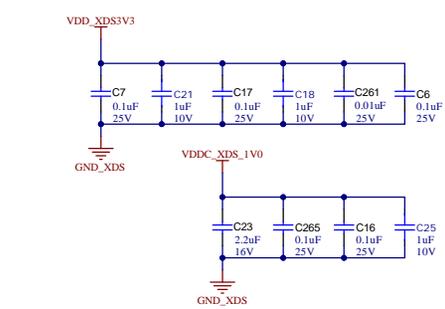
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Number: PROC193	Rev: A	Sheet Title: USB Micro-AB 2.0
SVN Rev: 473	Assembly Variant: 001	Sheet: 23 of 26
Drawn By: Vijetha J, Kiran	File: PROC193A_23_USB_TYPE_MicroAB_SchDoc	Size: B
Engineer: Vijetha J, Kiran	Contact:	

TM4C1294NCPDT Datasheet
XDS110 Collateral

XDS110 JTAG/USB-to-UART Bridge



XDS110 DECOUPLING CAPS



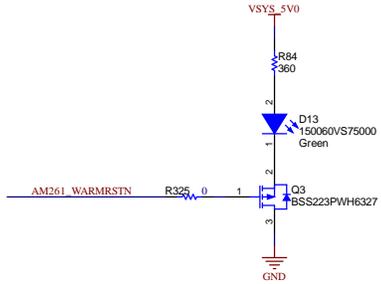
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Number: PROC193 Rev: A	Sheet Title: XDS110 JTAG/USB-to-UART Bridge	
SVN Rev: 473	Assembly Variant: 001	Sheet: 24 of 26
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Engineer: Vijetha J, Kiran	Contact:	

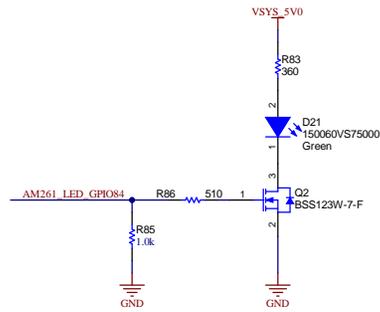


System LED Indicators

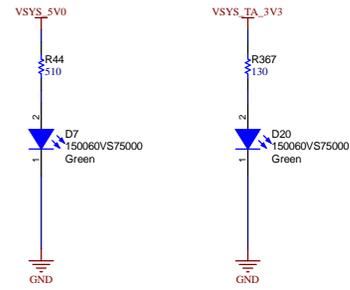
AM261_WARMRSTN



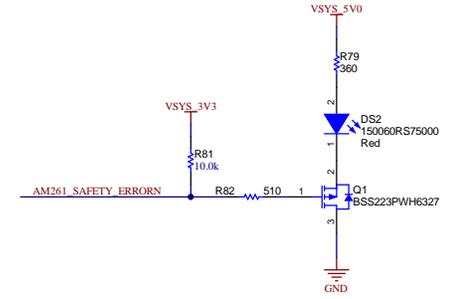
AM261 GPIO LED



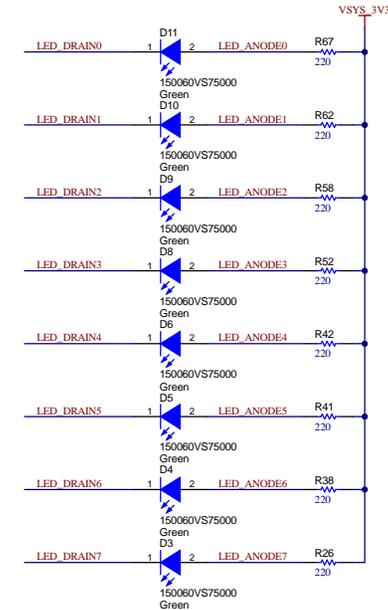
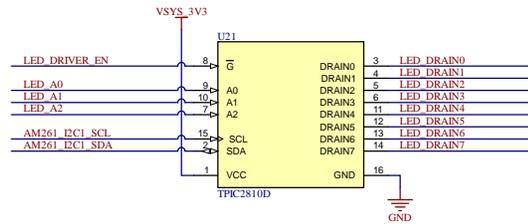
System 5.0V Test Automation 3.3V



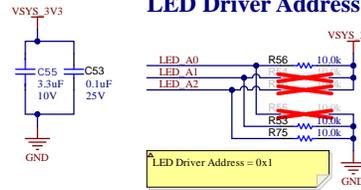
AM261x Safety Error



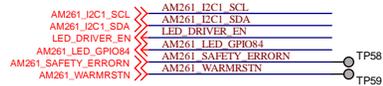
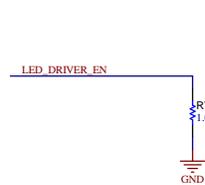
Industrial LED Driver



LED Driver Address



LED Driver Enable



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Orderable: LP-AM261	Designed for:	Mod. Date: 6/2/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: System LED Indicators
SVN Rev: 473	Assembly Variant: 001	Sheet: 25 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_25_LED_SchDoc	Size: B
Engineer: Vijetha J. Kiran	Contact:	http://www.ti.com



System Hardware, Notes, Labels

PCB Fiducials



PCB Labels and Silkscreen

PCB Number: PROC193
PCB Rev: A

PCB
LOGO
Texas Instruments



PCB
LOGO
FCC disclaimer

PCB
LOGO
WEEE logo

PCB Labels and Silkscreen

ZZ4

Label Assembly Note

This Assembly Note is for PCB labels only

ZZ3

Assembly Note

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

ZZ2

Assembly Note

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

ZZ1

Assembly Note

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

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Orderable: LP-AM261	Designed for:	Mod. Date: 7/3/2025
TID #: N/A	Project Title: AM261 Launchpad	
Number: PROC193	Rev: A	Sheet Title: System Hardware, Notes, Labels
SVN Rev: 570	Assembly Variant: 001	Sheet: 26 of 26
Drawn By: Vijetha J. Kiran	File: PROC193A_26_Systemhardware_notes_labels.FSB	http://www.ti.com
Engineer: Vijetha J. Kiran	Contact:	©Texas Instruments

