

Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

System I/O

Power

GPMC

A

A

B

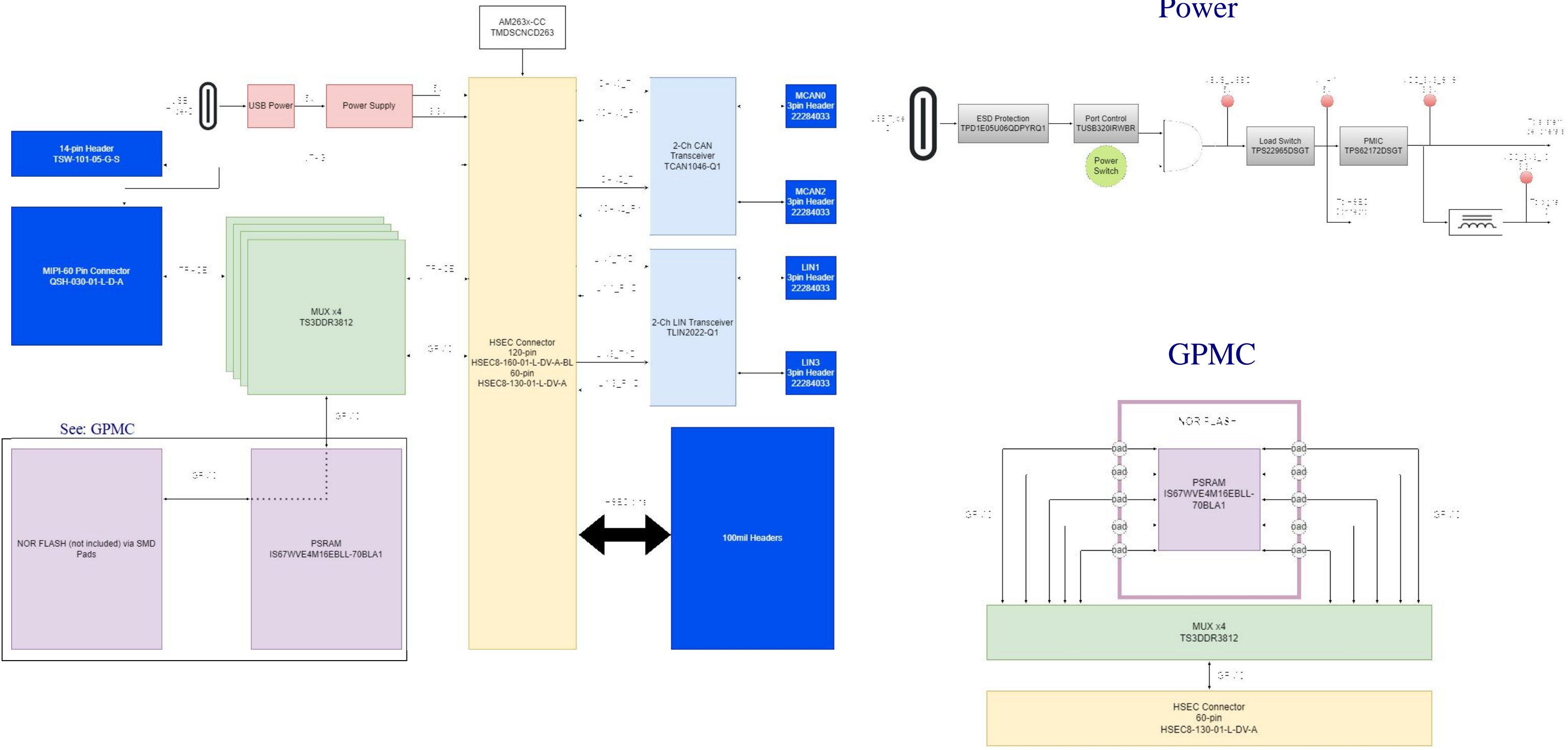
B

C

C

D

D



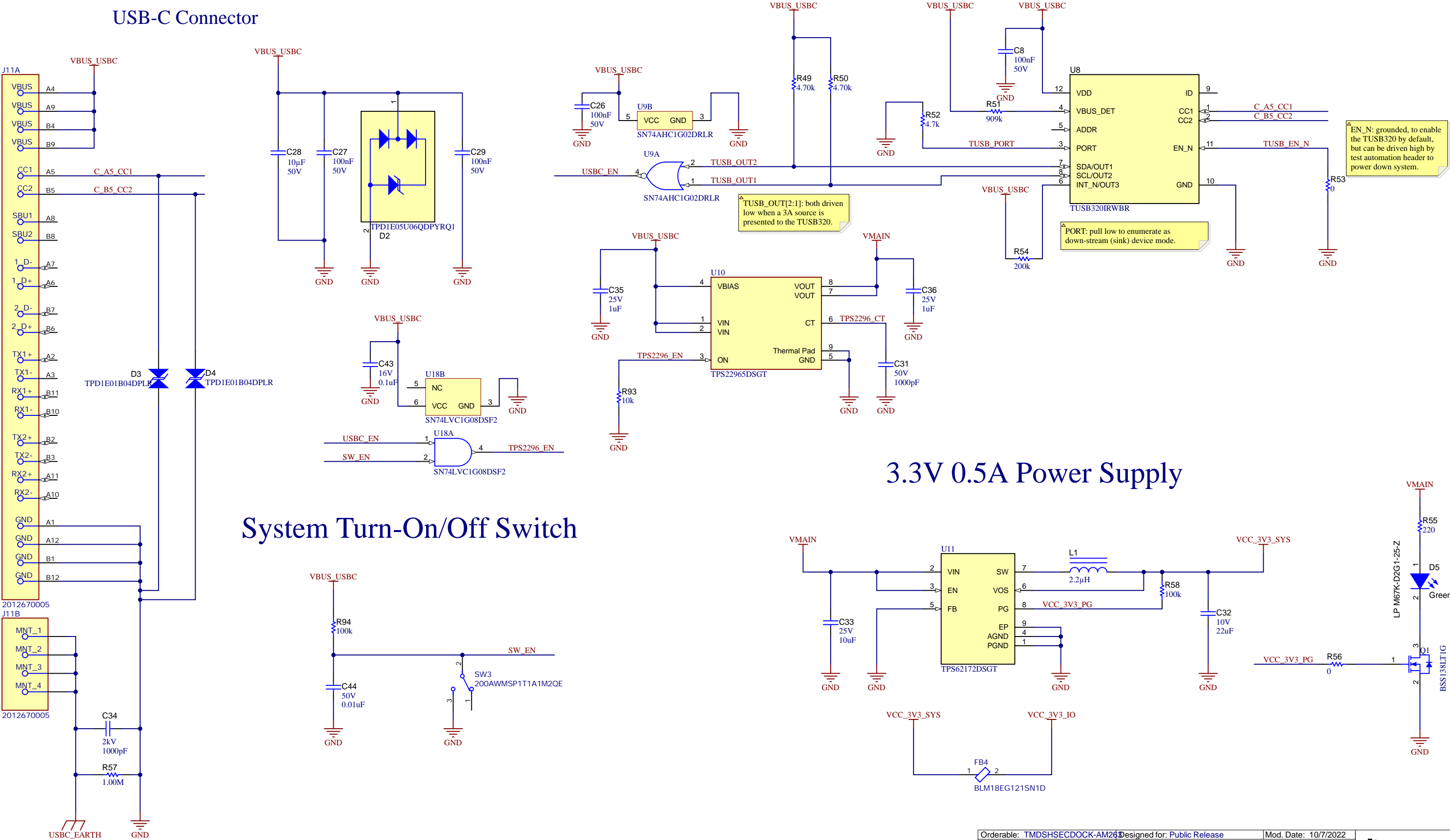
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Orderable: TMDSHSECDOCK-AM2633	Designed for: Public Release	Mod. Date: 9/28/2022
TID #: N/A	Project Title: TMDSHSECDOCK-AM263	
Number: PROC148	Rev: A	Sheet Title:
SVN Rev:	Assembly Variant: 001	Sheet: 1 of 9
Drawn By:	File: PROC148A_BlockDiagram.SchDoc	Size: B
Engineer: Brennan Hartigan	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

USB-C Power

Configured as UFP MODE To Detect 5V/3A Source

USB-C Connector



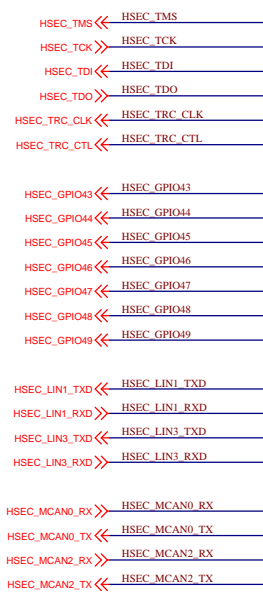
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Orderable: TMDSHSECDOCK-AM263	Designed for: Public Release	Mod. Date: 10/7/2022
TID #: N/A	Project Title: TMDSHSECDOCK-AM263	
Number: PROC148	Rev: A	Sheet Title:
SVN Rev:	Assembly Variant: 001	Sheet: 2 of 9
Drawn By:	File: PROC148A_PWR.SchDoc	Size: B
Engineer: Brennan Hartigan	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

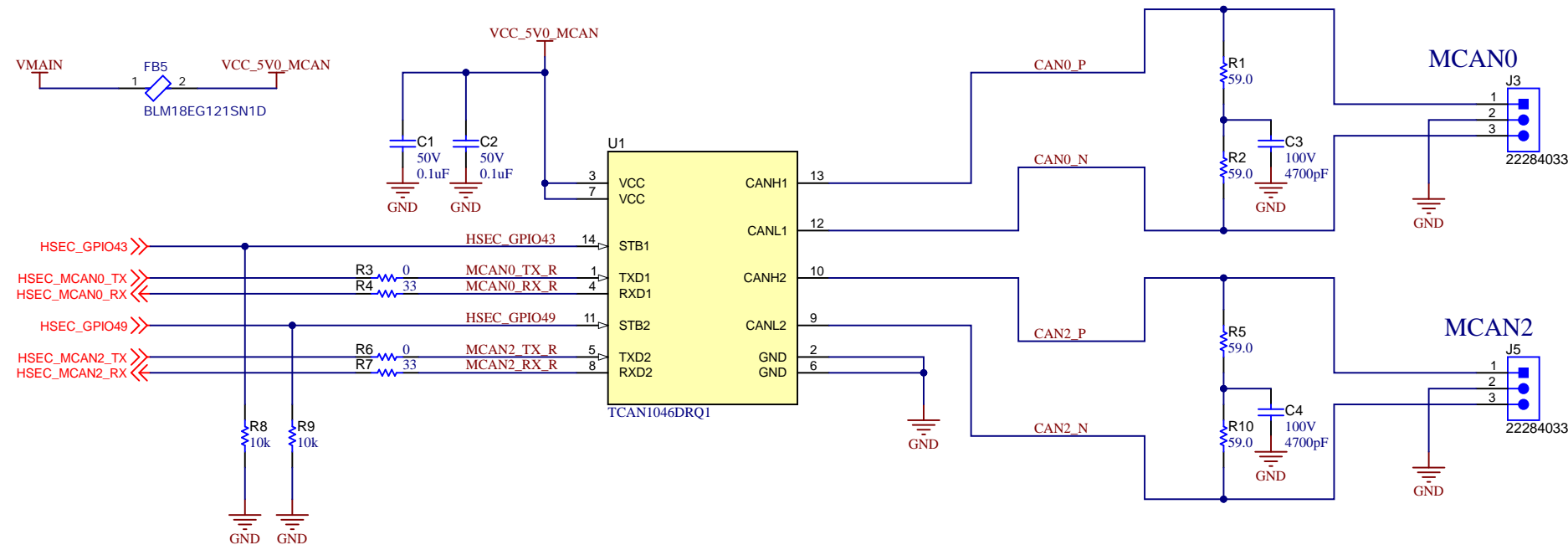
# 180-Pin HSEC Connector

Off-sheet connected signals are used in breakout board peripherals. All HSEC signals are to be broken out to 100mil headers.

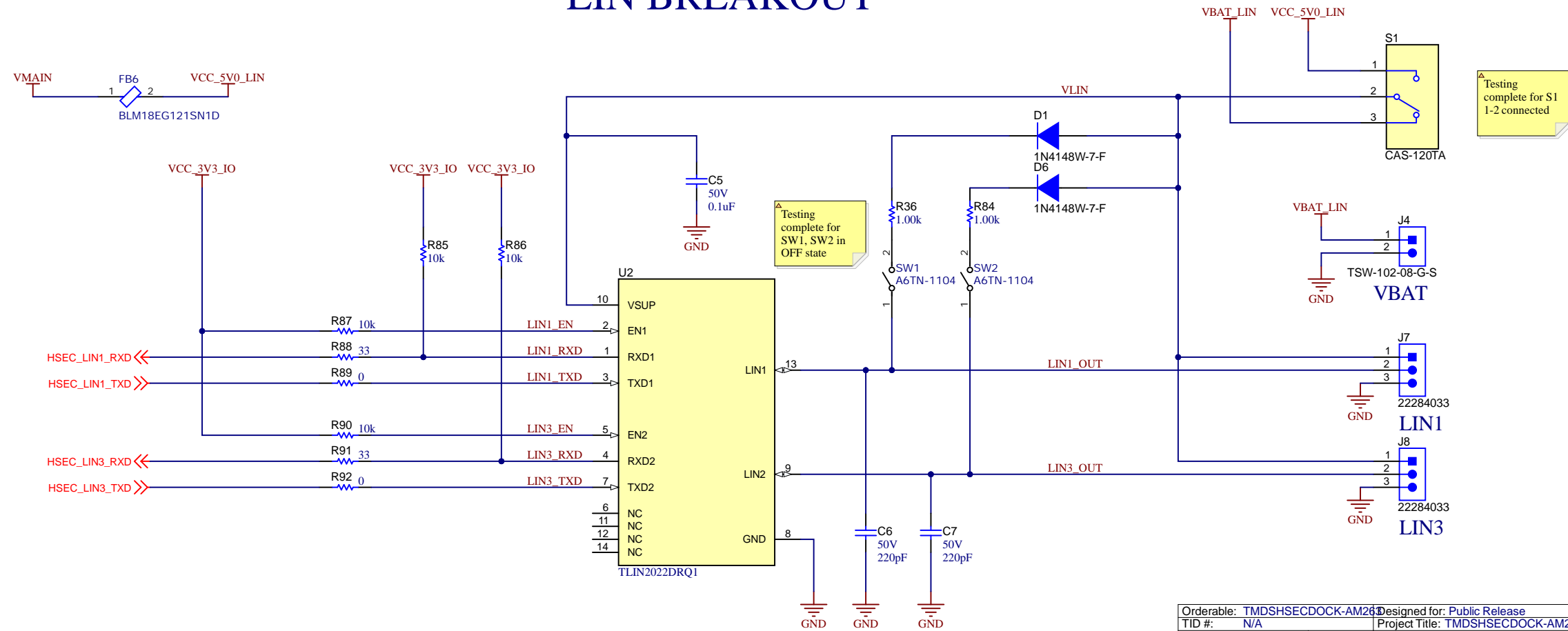
## Off-sheet Connections



MCAN BREAKOUT



LIN BREAKOUT



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Orderable:	TMDSHSECDOCK-AM263	Designed for:	Public Release	Mod. Date:	11/1/2022
TID #:	N/A	Project Title:	TMDSHSECDOCK-AM263		
Number:	PROC148	Rev:	A	Sheet Title:	
SVN Rev:		Assembly Variant:	001	Sheet:	4 of 9
Drawn By:		File:	PROC148A_CAN_LIN.SchDoc	Size:	B
Engineer:	Brennan Hartigan	Contact:	http://www.ti.com/support		

TRACE/GPMC HSEC MUX

A

B

C

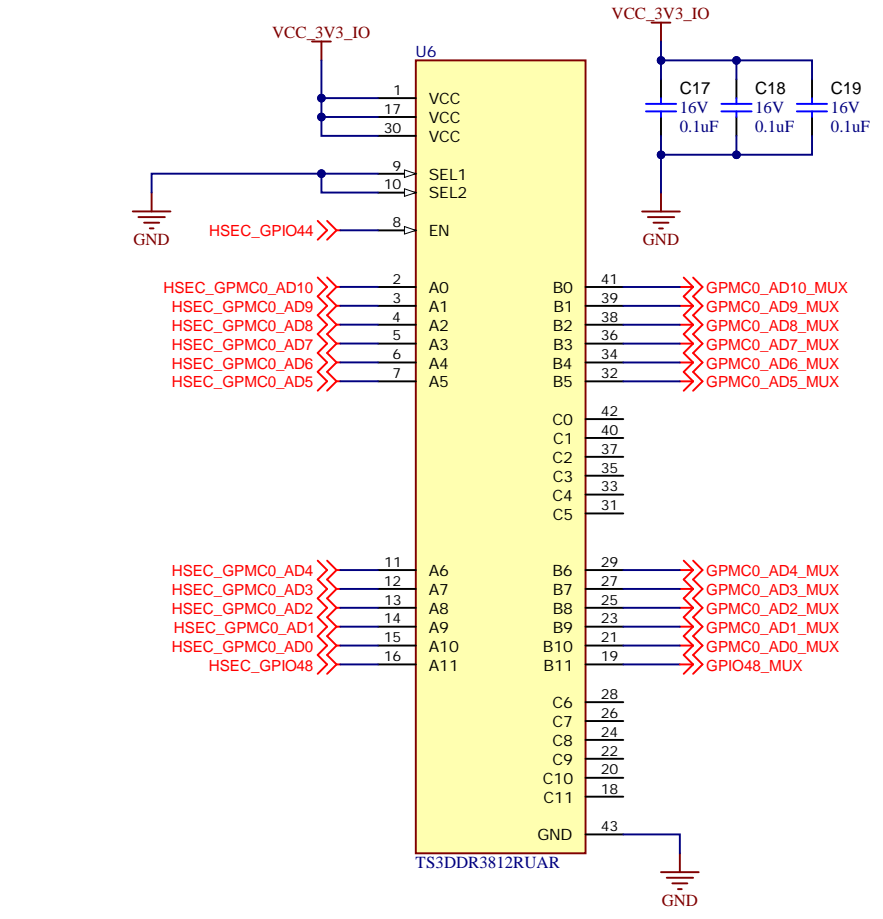
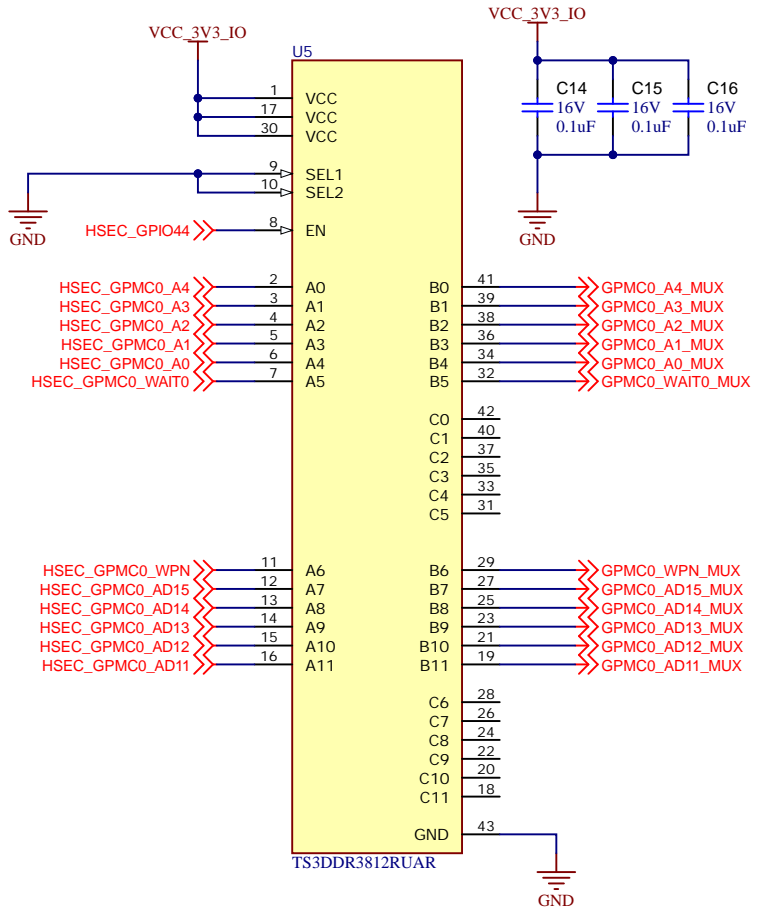
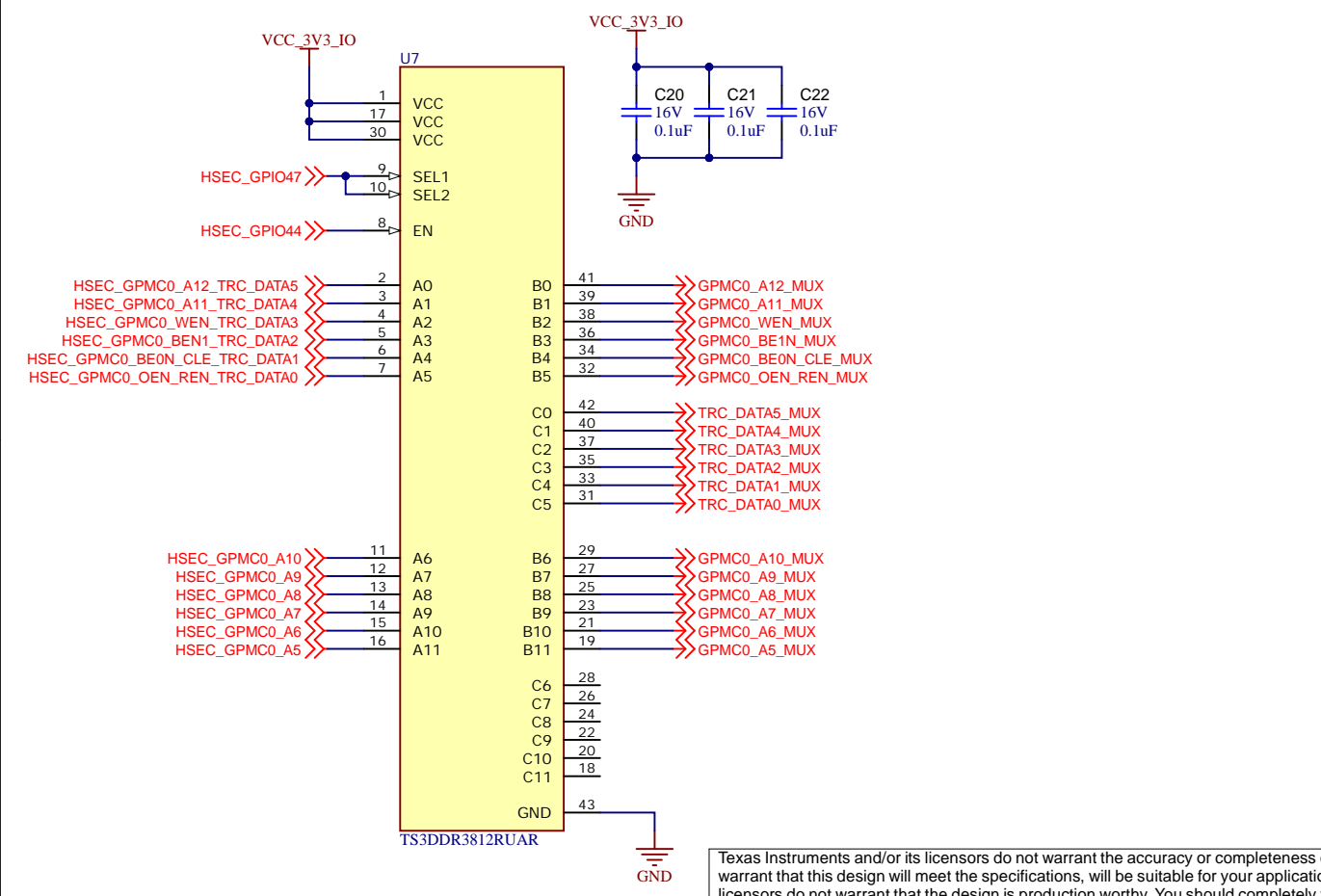
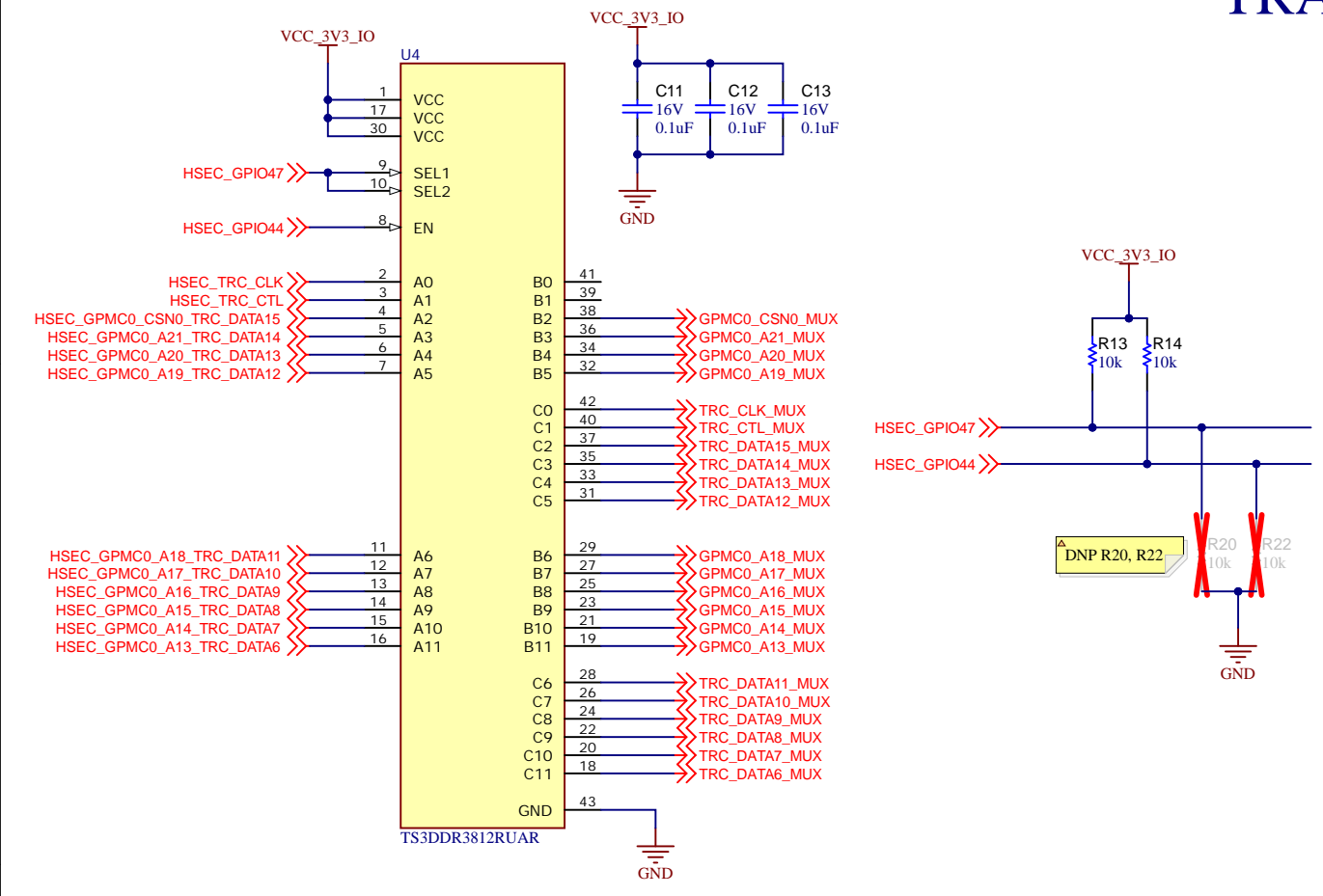
D

A

B

C

D



FUNCTION TABLE

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>5</sub> = B <sub>0</sub> to B <sub>5</sub> and A <sub>6</sub> to A <sub>11</sub> = B <sub>6</sub> to B <sub>11</sub>
H	L	H	A <sub>0</sub> to A <sub>5</sub> = B <sub>0</sub> to B <sub>5</sub> and A <sub>6</sub> to A <sub>11</sub> = C <sub>6</sub> to C <sub>11</sub>
H	H	L	A <sub>0</sub> to A <sub>5</sub> = C <sub>0</sub> to C <sub>5</sub> and A <sub>6</sub> to A <sub>11</sub> = B <sub>6</sub> to B <sub>11</sub>
H	H	H	A <sub>0</sub> to A <sub>5</sub> = C <sub>0</sub> to C <sub>5</sub> and A <sub>6</sub> to A <sub>11</sub> = C <sub>6</sub> to C <sub>11</sub>

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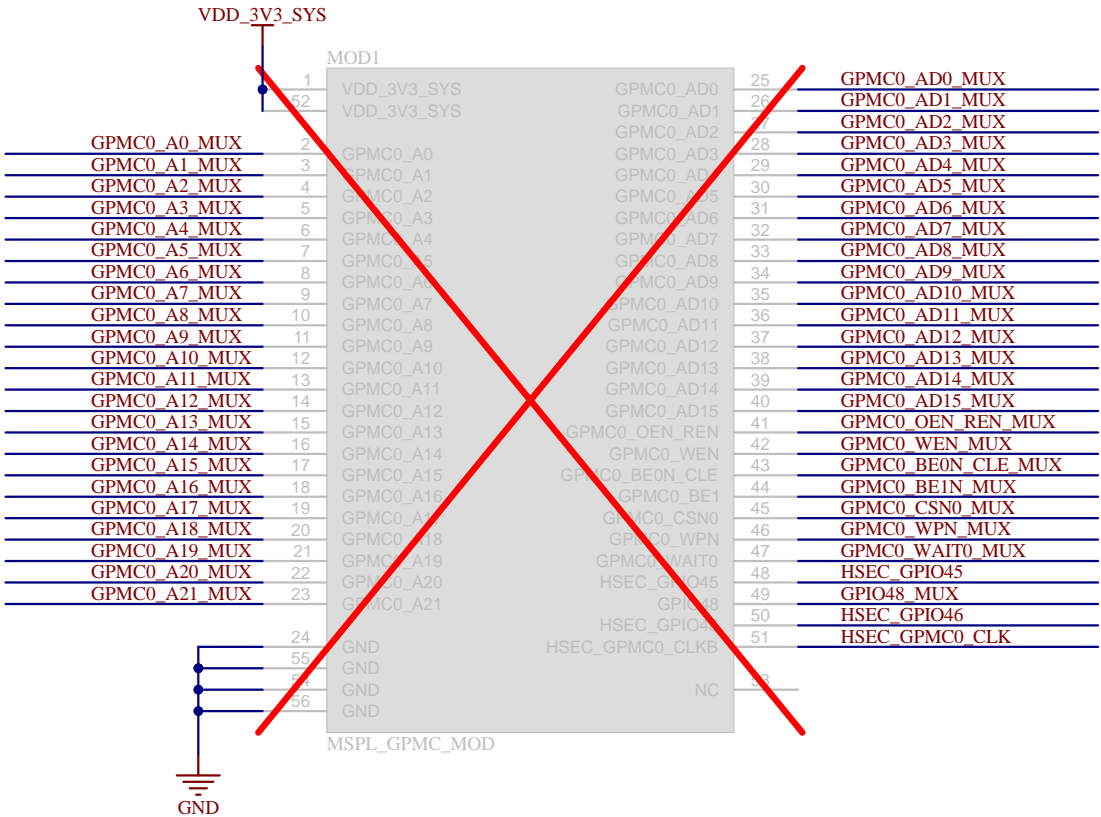
## A



C

GPMC FOOTPRINT

GPMC0_A0_MUX	>>	GPMC0_A0_MUX
GPMC0_A1_MUX	>>	GPMC0_A1_MUX
GPMC0_A2_MUX	>>	GPMC0_A2_MUX
GPMC0_A3_MUX	>>	GPMC0_A3_MUX
GPMC0_A4_MUX	>>	GPMC0_A4_MUX
GPMC0_A5_MUX	>>	GPMC0_A5_MUX
GPMC0_A6_MUX	>>	GPMC0_A6_MUX
GPMC0_A7_MUX	>>	GPMC0_A7_MUX
GPMC0_A8_MUX	>>	GPMC0_A8_MUX
GPMC0_A9_MUX	>>	GPMC0_A9_MUX
GPMC0_A10_MUX	>>	GPMC0_A10_MUX
GPMC0_A11_MUX	>>	GPMC0_A11_MUX
GPMC0_A12_MUX	>>	GPMC0_A12_MUX
GPMC0_A13_MUX	>>	GPMC0_A13_MUX
GPMC0_A14_MUX	>>	GPMC0_A14_MUX
GPMC0_A15_MUX	>>	GPMC0_A15_MUX
GPMC0_A16_MUX	>>	GPMC0_A16_MUX
GPMC0_A17_MUX	>>	GPMC0_A17_MUX
GPMC0_A18_MUX	>>	GPMC0_A18_MUX
GPMC0_A19_MUX	>>	GPMC0_A19_MUX
GPMC0_A20_MUX	>>	GPMC0_A20_MUX
GPMC0_A21_MUX	>>	GPMC0_A21_MUX



GPMC0_AD0_MUX	<<	GPMC0_AD0_MUX
GPMC0_AD1_MUX	<<	GPMC0_AD1_MUX
GPMC0_AD2_MUX	<<	GPMC0_AD2_MUX
GPMC0_AD3_MUX	<<	GPMC0_AD3_MUX
GPMC0_AD4_MUX	<<	GPMC0_AD4_MUX
GPMC0_AD5_MUX	<<	GPMC0_AD5_MUX
GPMC0_AD6_MUX	<<	GPMC0_AD6_MUX
GPMC0_AD7_MUX	<<	GPMC0_AD7_MUX
GPMC0_AD8_MUX	<<	GPMC0_AD8_MUX
GPMC0_AD9_MUX	<<	GPMC0_AD9_MUX
GPMC0_AD10_MUX	<<	GPMC0_AD10_MUX
GPMC0_AD11_MUX	<<	GPMC0_AD11_MUX
GPMC0_AD12_MUX	<<	GPMC0_AD12_MUX
GPMC0_AD13_MUX	<<	GPMC0_AD13_MUX
GPMC0_AD14_MUX	<<	GPMC0_AD14_MUX
GPMC0_AD15_MUX	<<	GPMC0_AD15_MUX
GPMC0_OEN_REN_MUX	<<	GPMC0_OEN_REN_MUX
GPMC0_WEN_MUX	<<	GPMC0_WEN_MUX
GPMC0_BE0N_CLE_MUX	<<	GPMC0_BE0N_CLE_MUX
GPMC0_BE1N_MUX	<<	GPMC0_BE1N_MUX
GPMC0_CSN0_MUX	<<	GPMC0_CSN0_MUX
GPMC0_WPN_MUX	<<	GPMC0_WPN_MUX
GPMC0_WAIT0_MUX	<<	GPMC0_WAIT0_MUX
HSEC_GPIO45	<<	HSEC_GPIO45
GPIO48_MUX	<<	GPIO48_MUX
HSEC_GPIO46	<<	HSEC_GPIO46
HSEC_GPMC0_CLKB	<<	HSEC_GPMC0_CLKB
HSEC_GPMC0_CLK	<<	HSEC_GPMC0_CLK

Δ GPIO pins set in SW depending on memory type

MIPI 60 PIN CONNECTOR

JTAG 14 PIN TI CONNECTOR

A

B

C

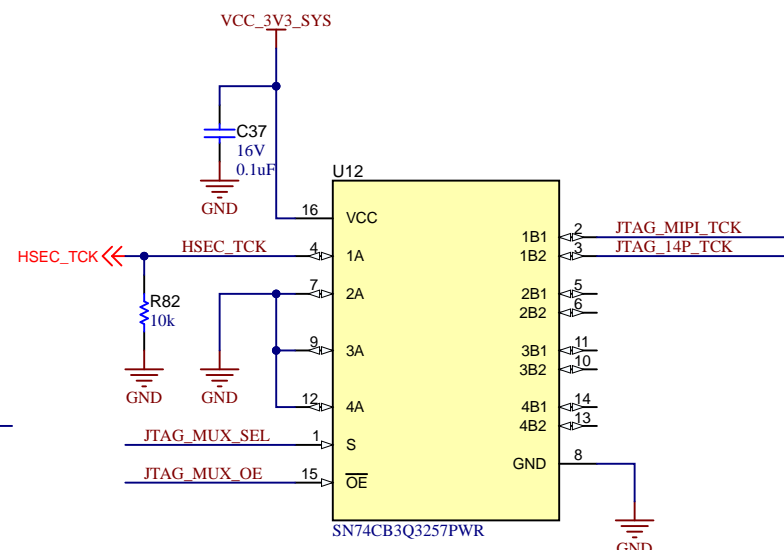
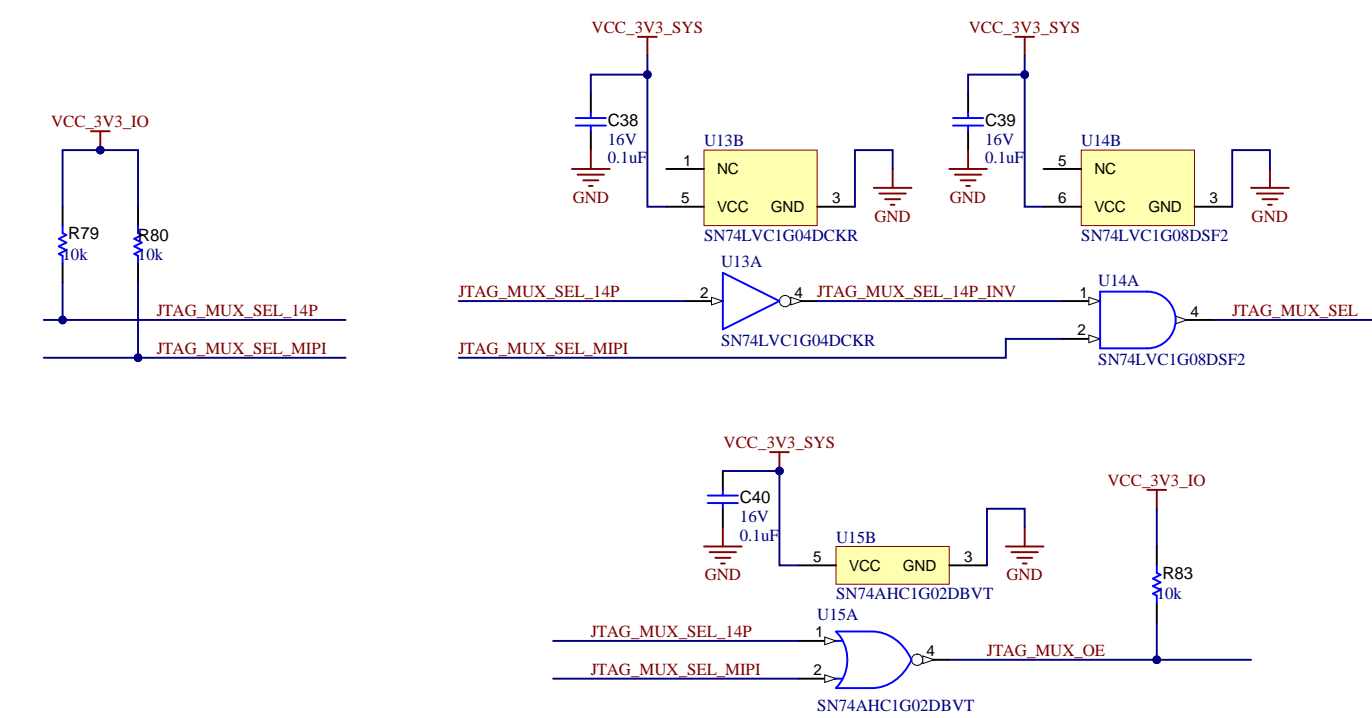
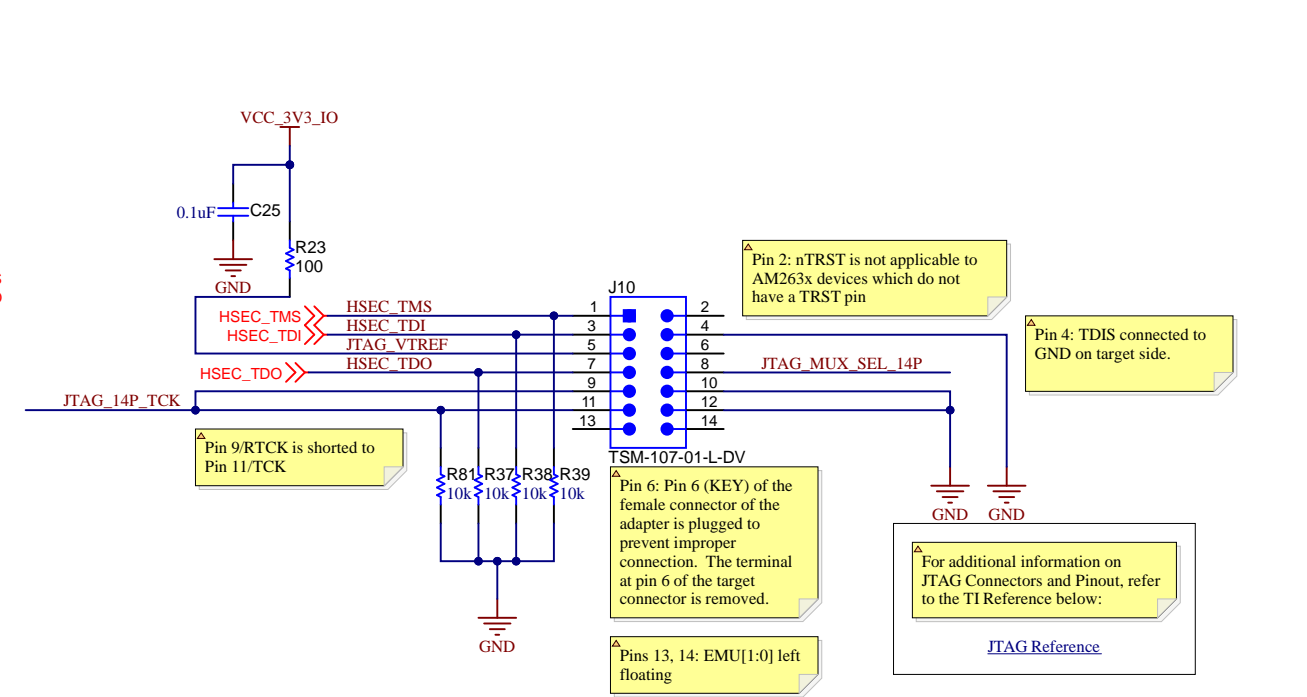
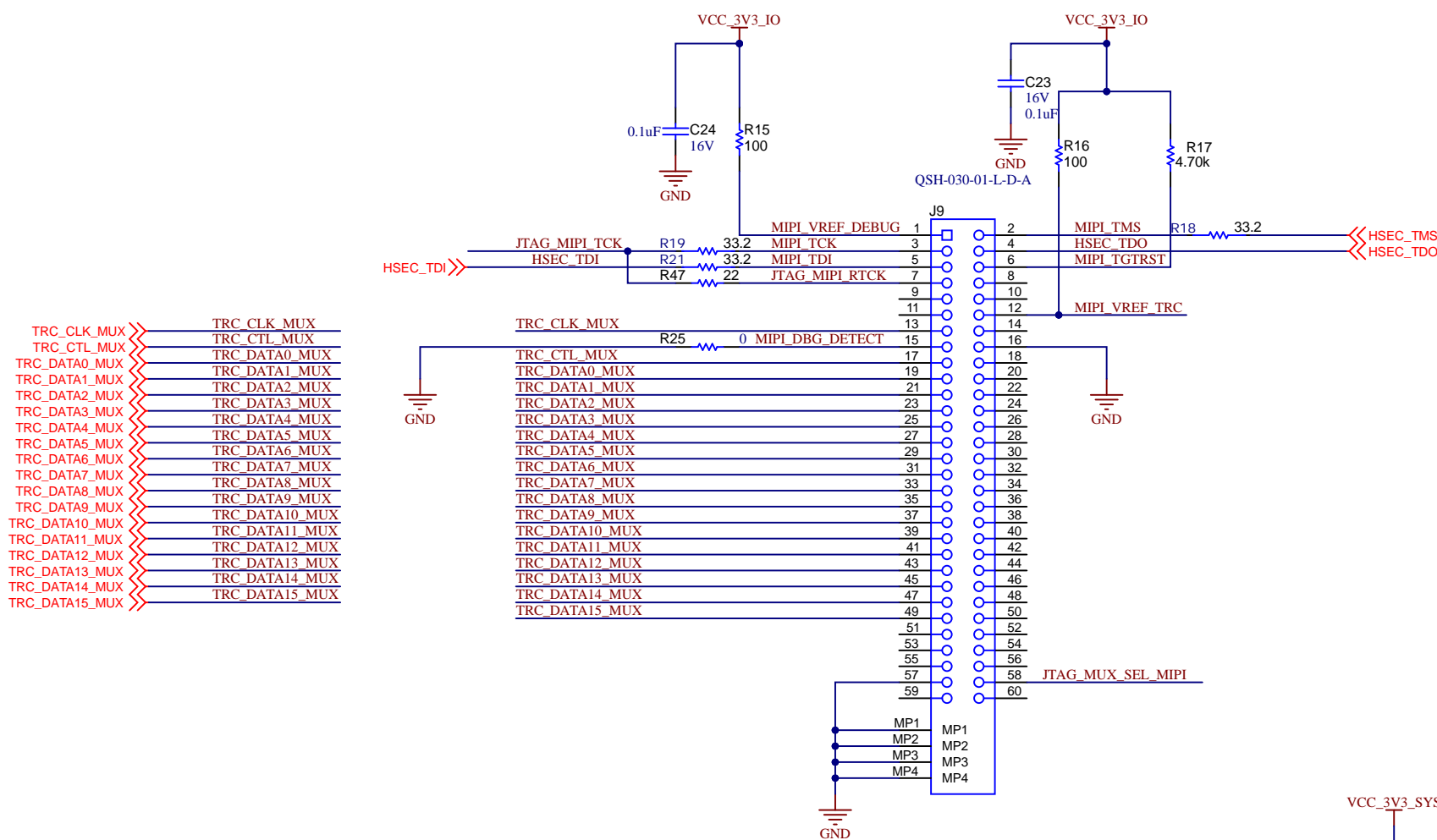
D

A

B

C

D



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

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PCB Number: PROC148  
PCB Rev: A

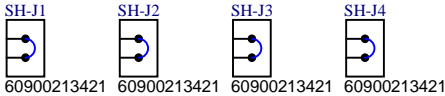
PCB  
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FCC disclaimer

PCB  
LOGO  
WEEE logo

## Selection Jumpers



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.