
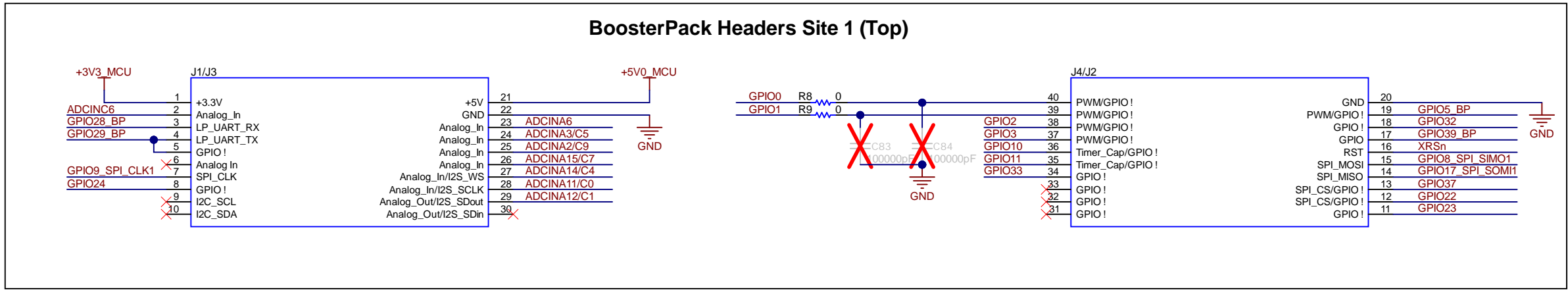


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TID #: N/A	Project Title: LAUNCHXL-F2800137	Sheet: 1 of 8	
Number: MCU109	Rev: A	Size: B	
SVN Rev: Not in version control	File: MCU109A_Block_Diagram_SchDoc	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	
Drawn By:	Engineer: Kevin Allen		

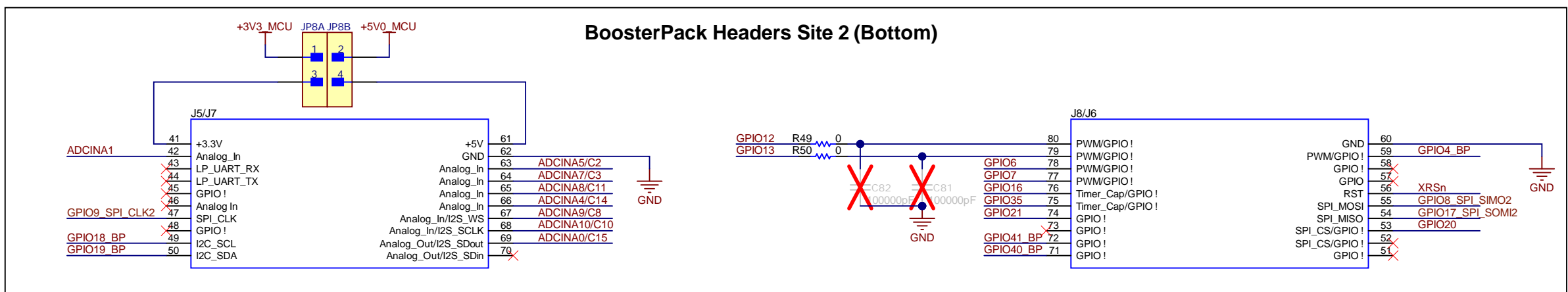
A

A



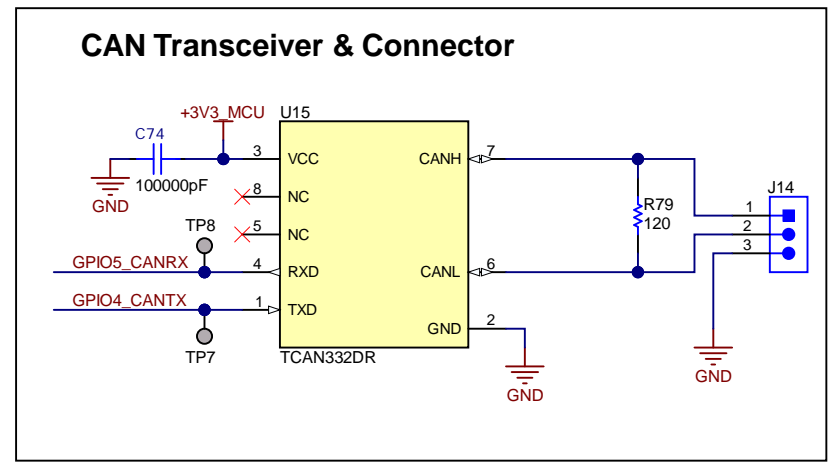
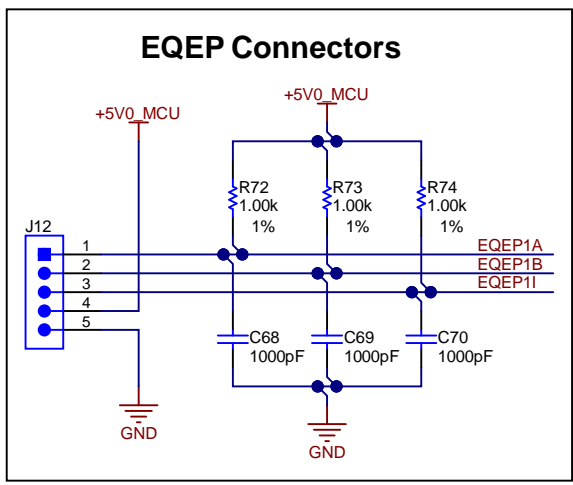
B

B



C

C



D

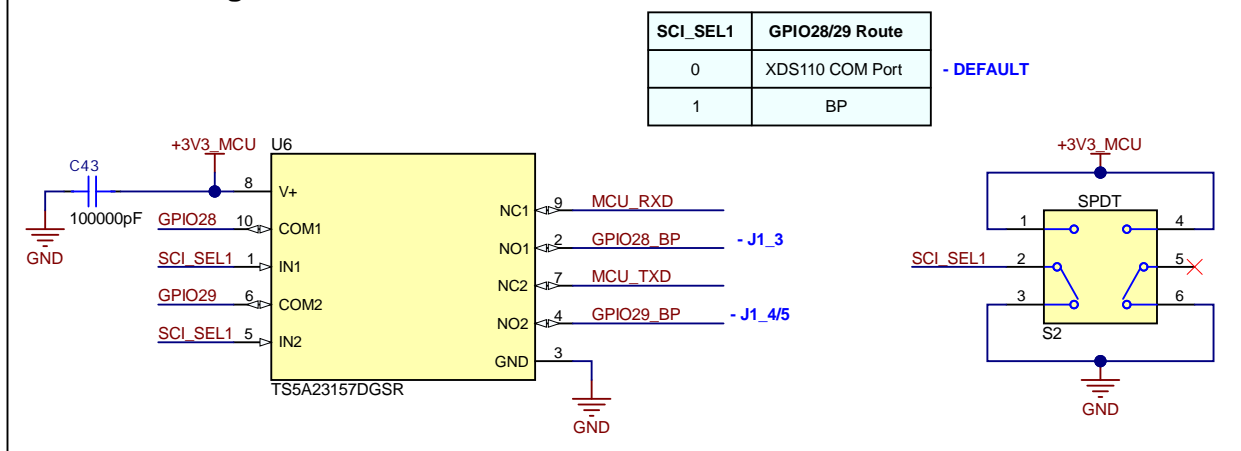
D

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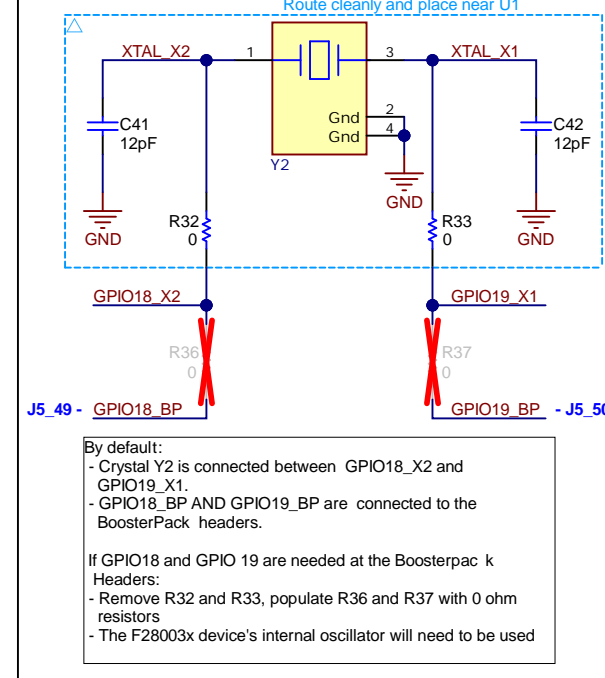
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TID #: N/A	Project Title: LAUNCHXL-F2800137	
Number: MCU109	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 8
Drawn By:	File: MCU109A_Connectors.SchDoc	Size: B
Engineer: Kevin Allen	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	



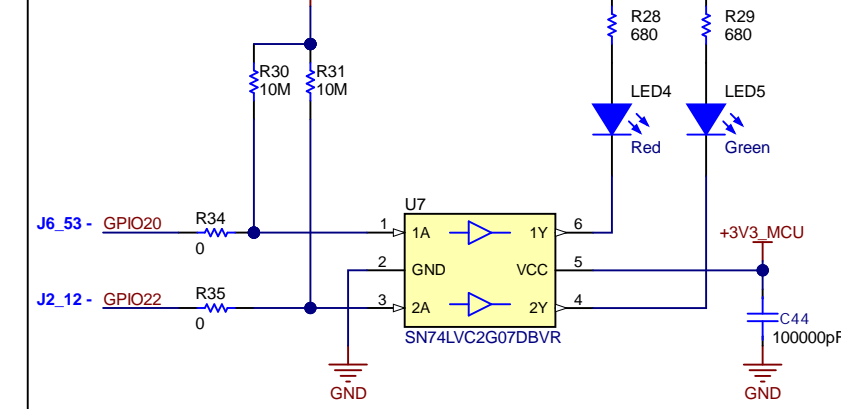
### UART Routing



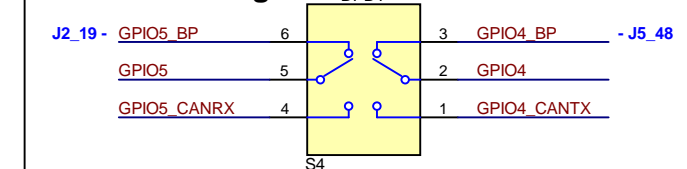
### Oscillator



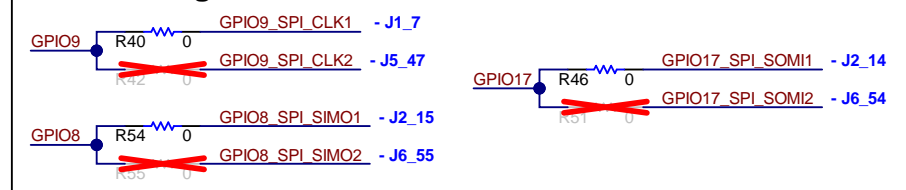
### User LEDs



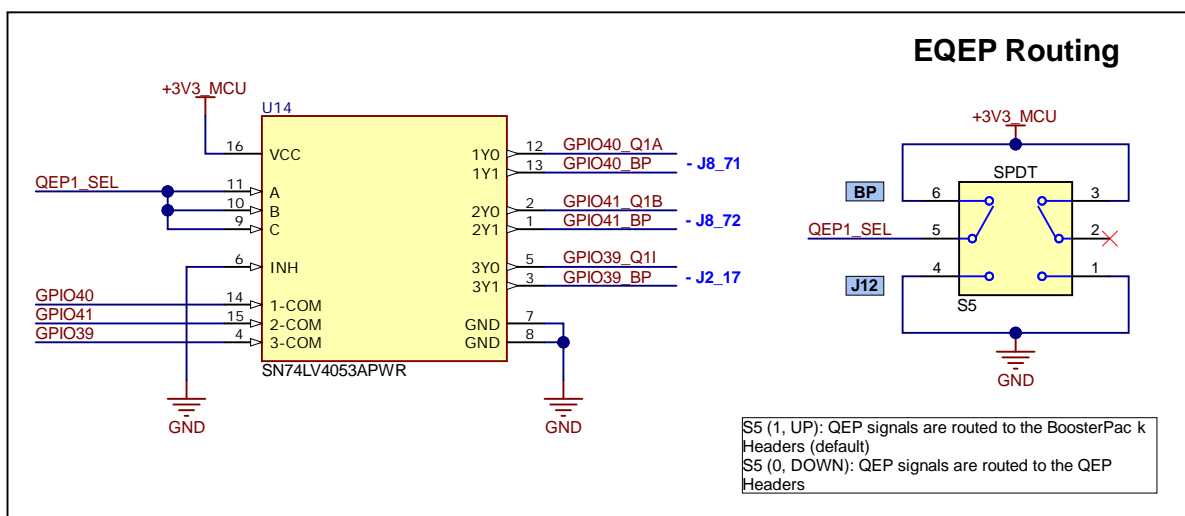
### CAN Routing



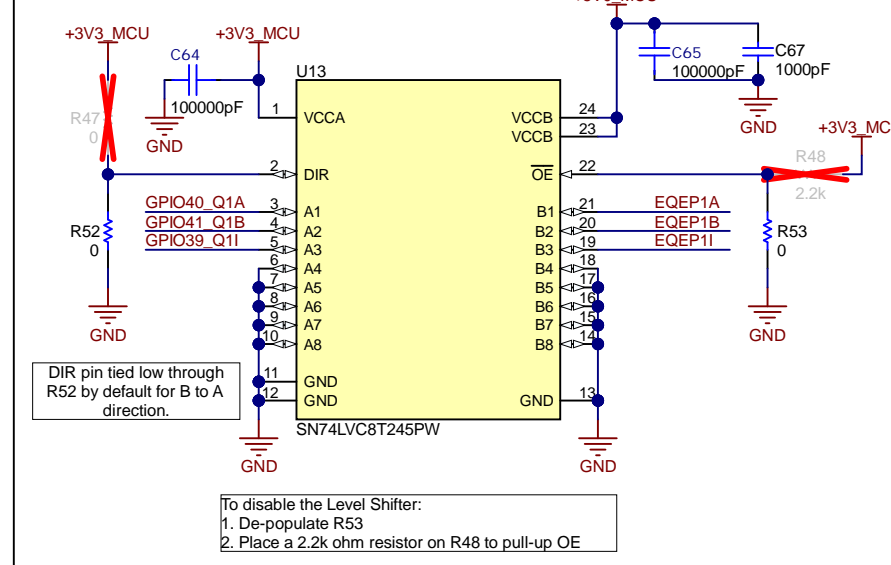
### SPI Routing



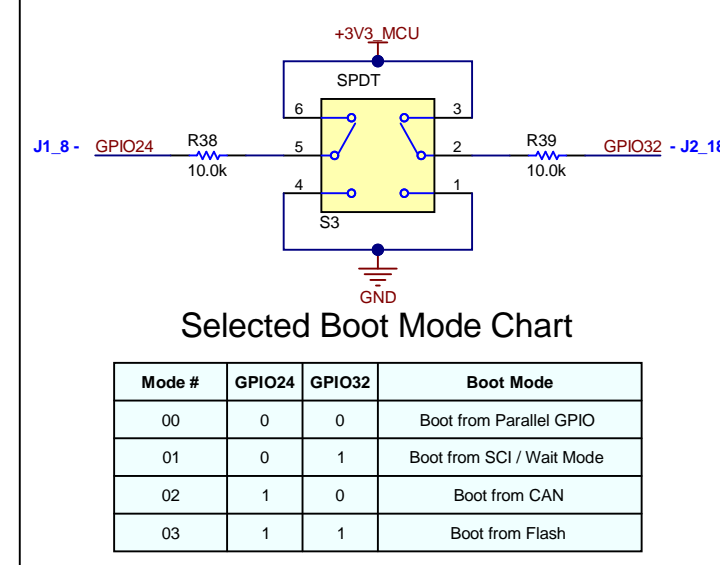
### EQEP Routing



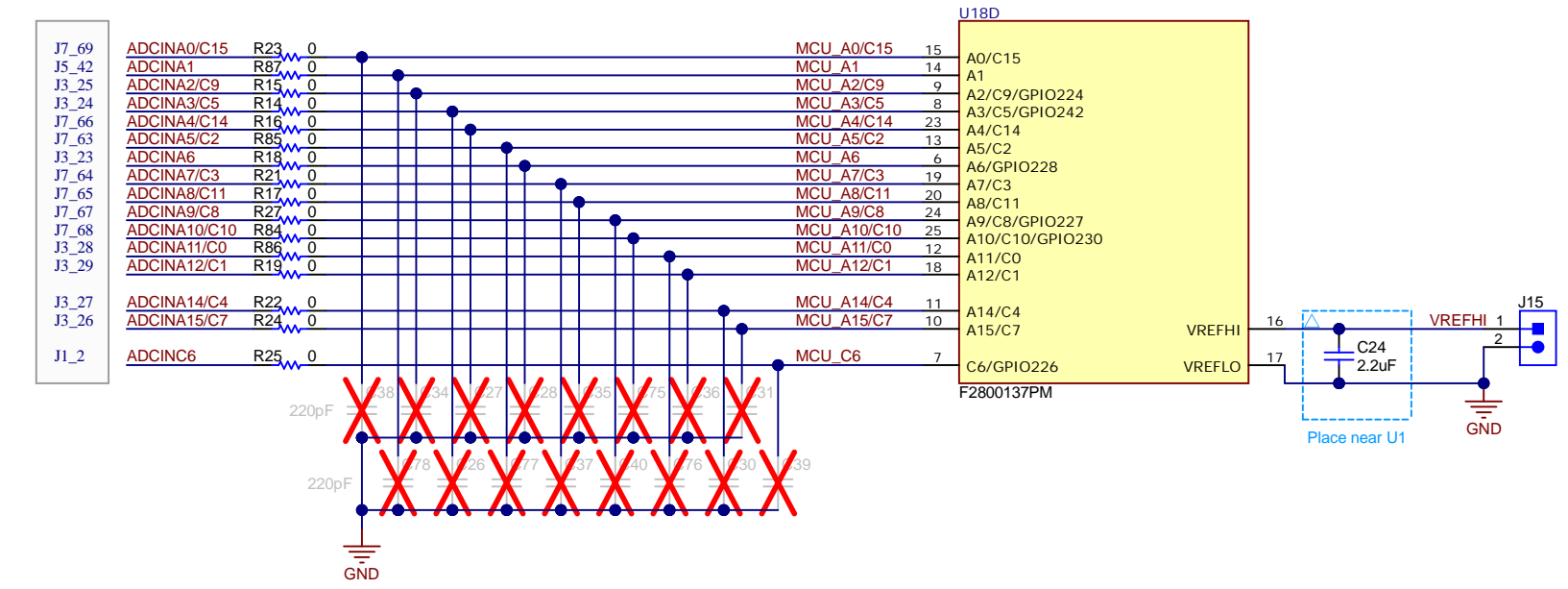
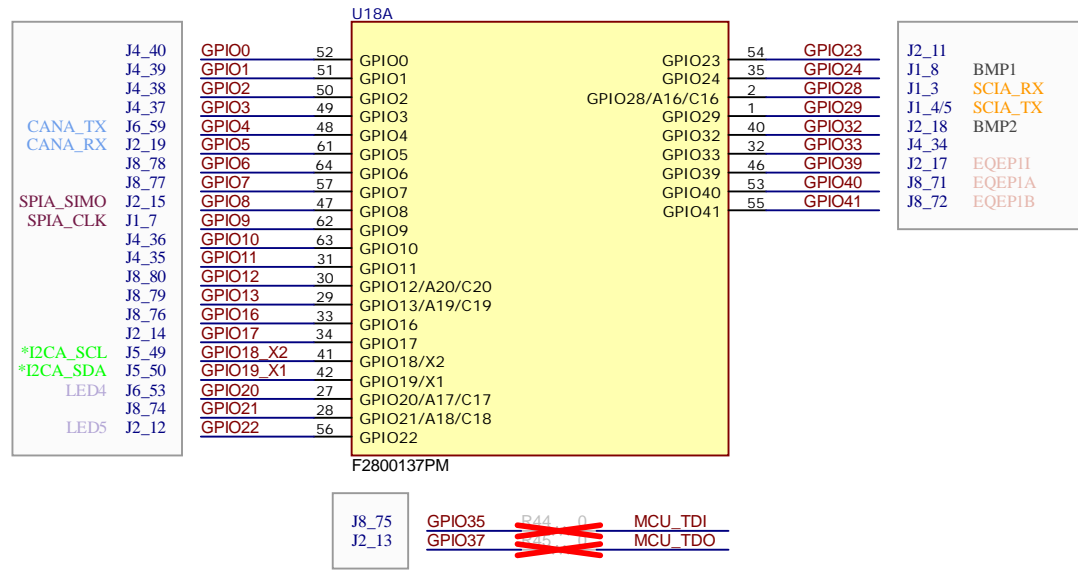
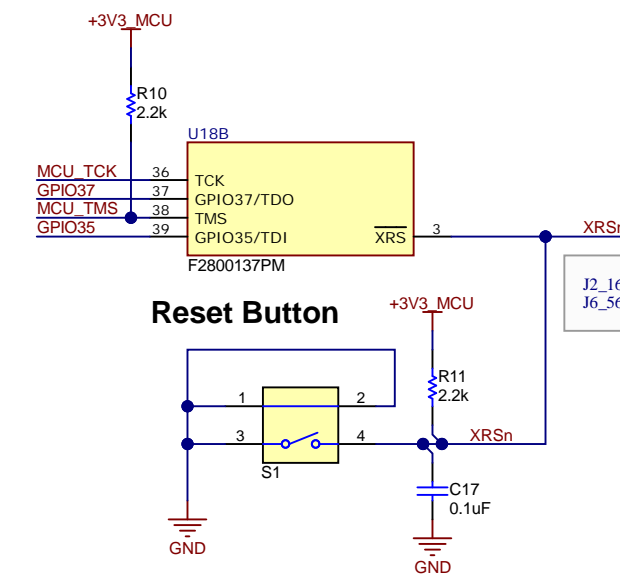
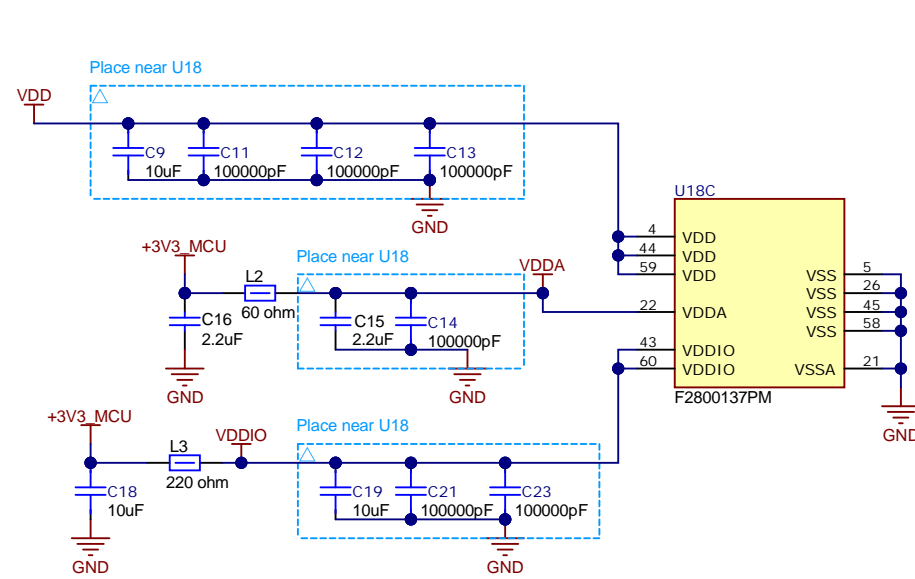
### EQEP Level Shifter



### Boot Mode Select

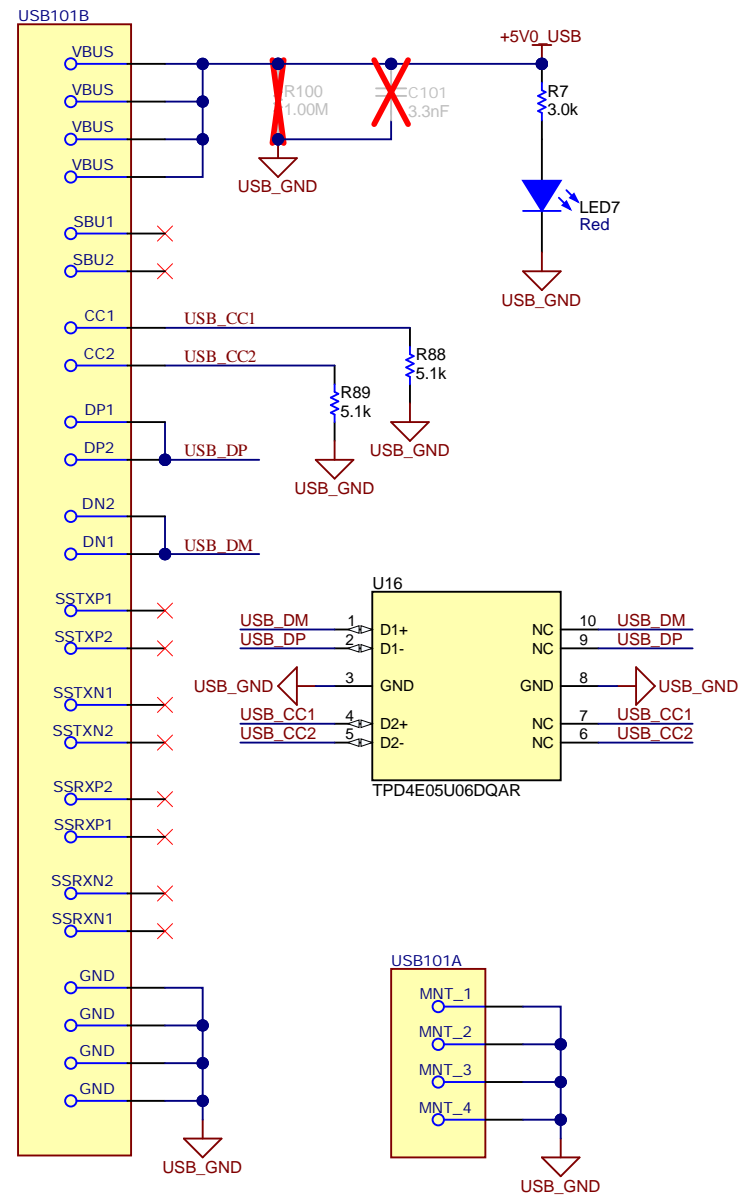


# F280013x Device

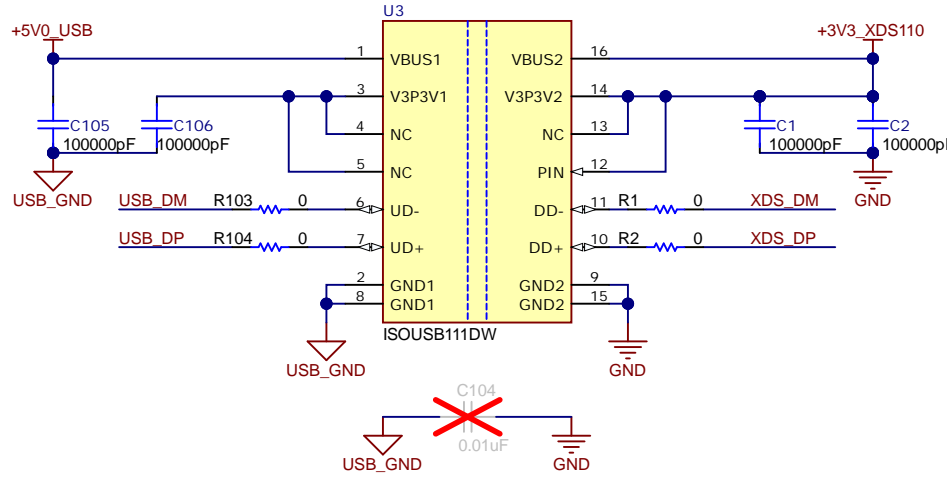


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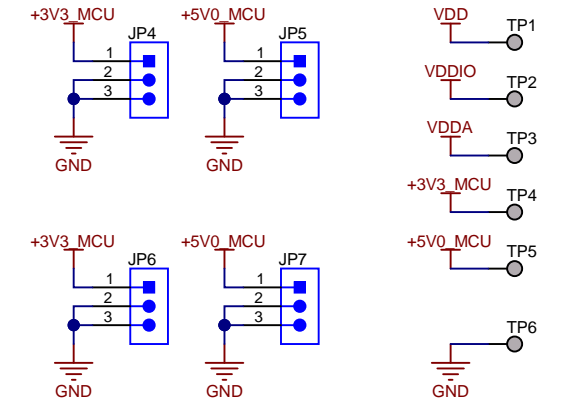
### USB-C Connector



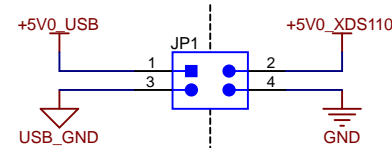
### USB Isolation



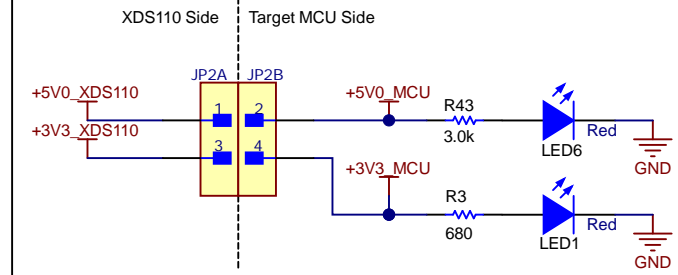
### Power Headers and Test Points



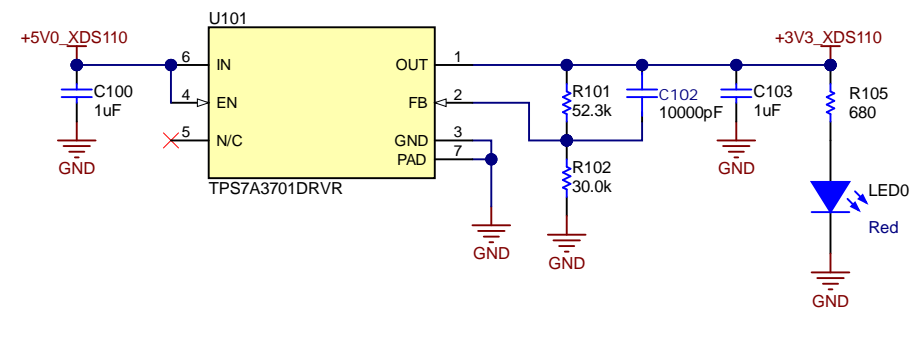
### PWR & GND Isolation Boundary



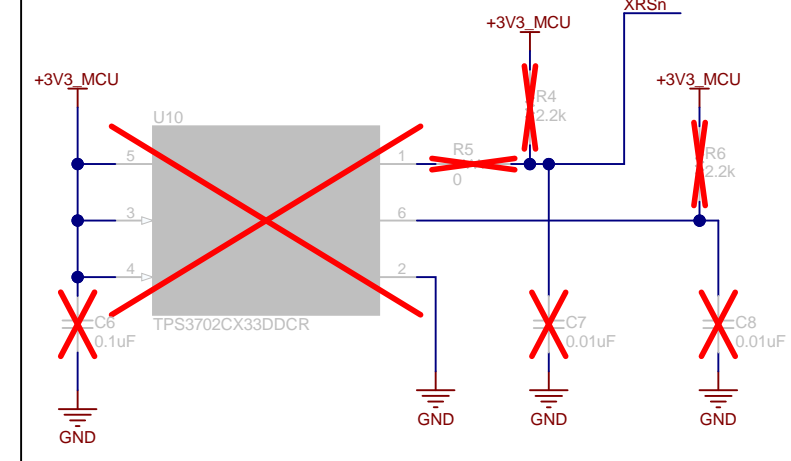
### 5V & 3.3V Isolation Boundary



### 5V to 3.3V



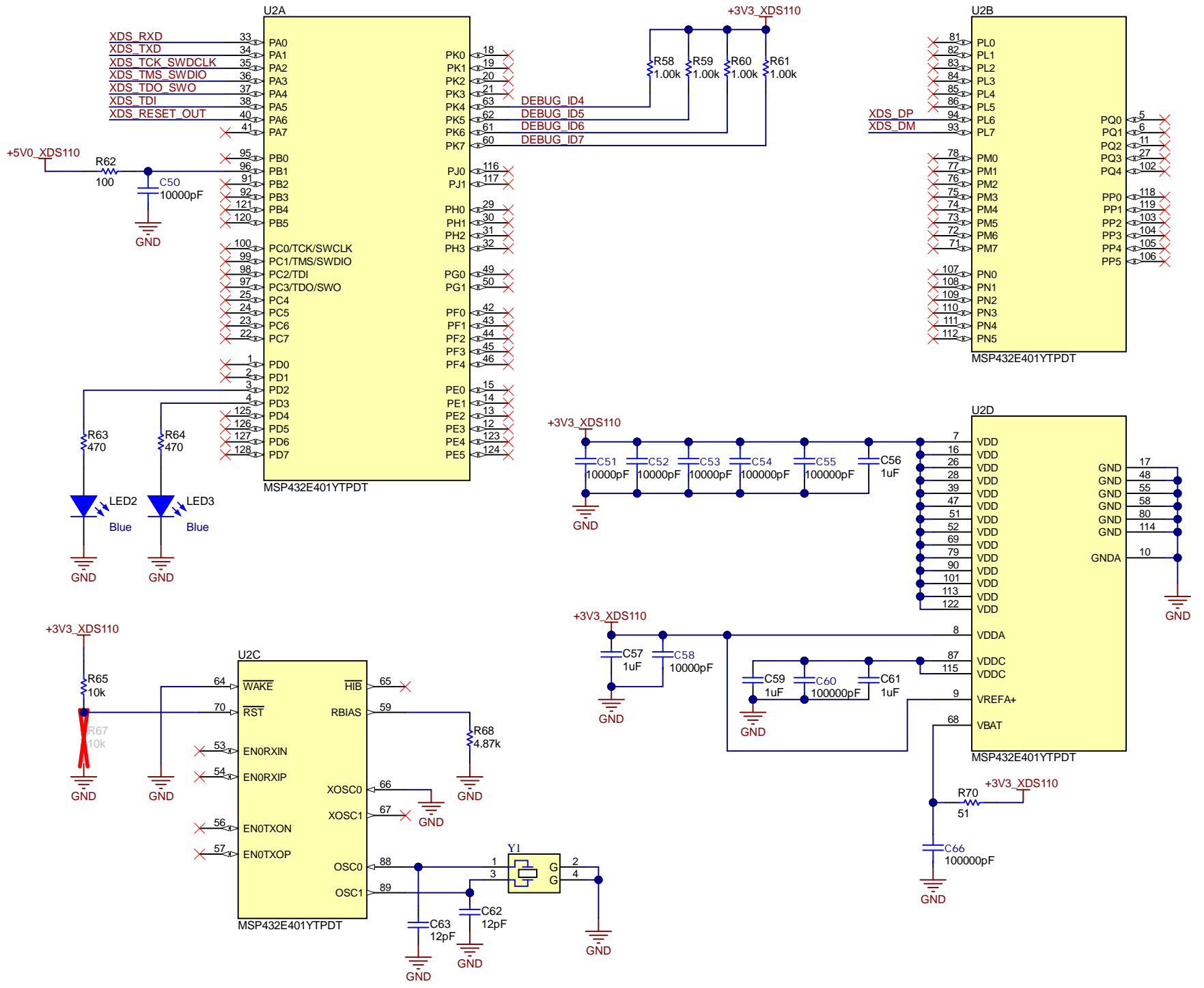
### System Supervisory Circuit



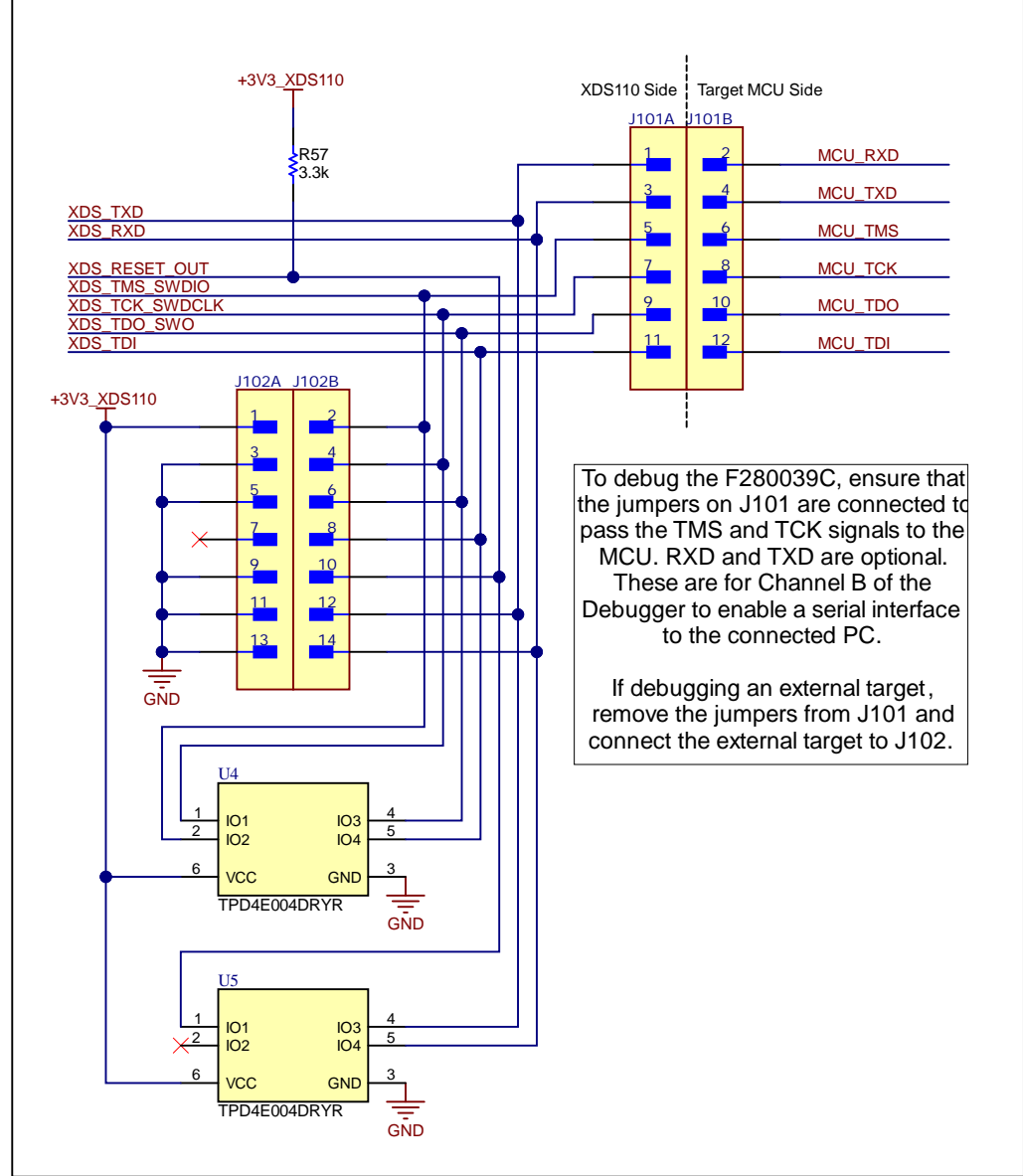
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Orderable: LAUNCHXL-F2800137	Designed for: Public Release	Mod. Date: 12/9/2021
TID #: N/A	Project Title: LAUNCHXL-F2800137	
Number: MCU109	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 6 of 8
Drawn By:	File: MCU109A_USB_and_Power.SchDoc	Size: B
Engineer: Kevin Allen	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	

# XDS110 Device



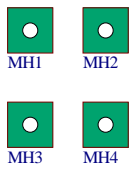
# XDS110 Target Interface



Orderable: LAUNCHXL-F2800137	Designed for: Public Release	Mod. Date: 12/9/2021
TID #: N/A	Project Title: LAUNCHXL-F2800137	
Number: MCU109	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 7 of 8
Drawn By:	File: MCU109A_XDS110_MCU_SchDoc	Size: B
Engineer: Kevin Allen	Contact: http://www.ti.com/support	



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PCB Number: MCU109  
PCB Rev: A

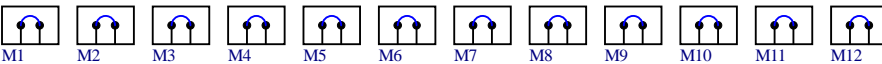
Logo1  
PCB  
LOGO  
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Logo3  
PCB  
LOGO  
FCC disclaimer

Logo4  
PCB  
LOGO  
WEEE logo

Logo5  
PCB  
LOGO  
Texas Instruments



ZZ1  
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.

ZZ3  
Assembly Note  
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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Orderable: LAUNCHXL-F2800137	Designed for: Public Release	Mod. Date: 9/28/2021
TID #: N/A	Project Title: LAUNCHXL-F2800137	
Number: MCU109	Rev: A	Sheet: 8 of 8
SVN Rev: Not in version control	Assembly Variant: 001	File: MCU109A_Hardware_SchDoc
Drawn By:	Engineer: Kevin Allen	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>



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