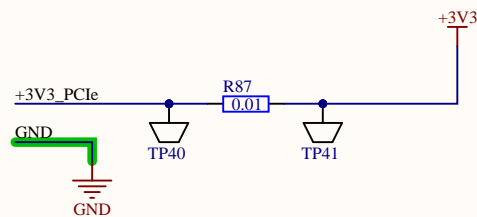
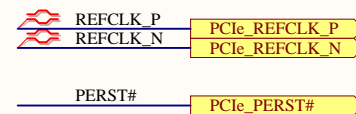
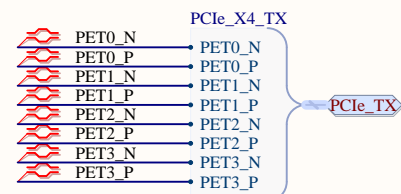
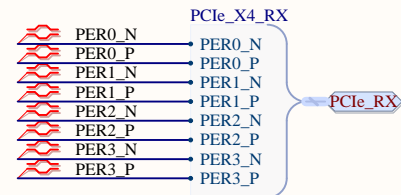
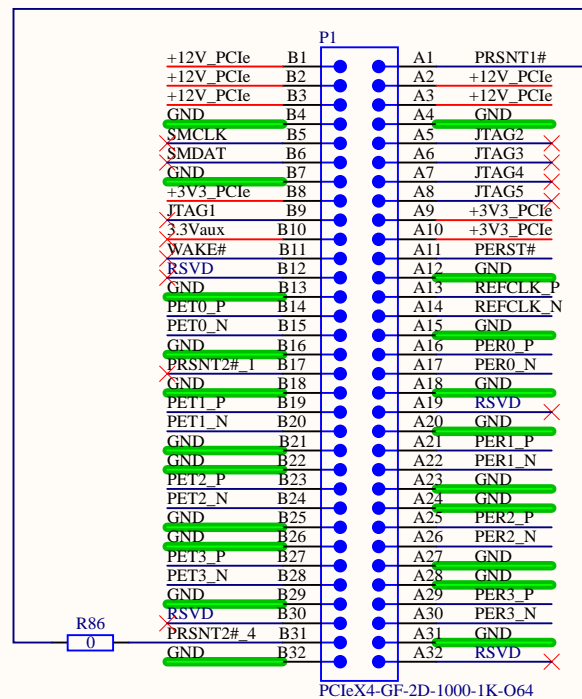


Title		
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- Nominal values used, dimensions in mm
- The mounting holes and keep-out areas around them are only required when the I/O bracket is mounted on the card directly
- Component height rule and clearance rule derived from PCI_Express_CEM_r2.0.pdf, Page 84.
- Stackup is not specified in PCI_Express_CEM_r2.0.pdf, nor implemented in this template.

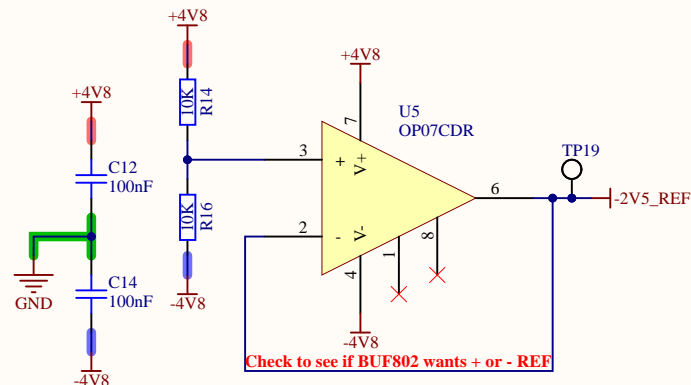
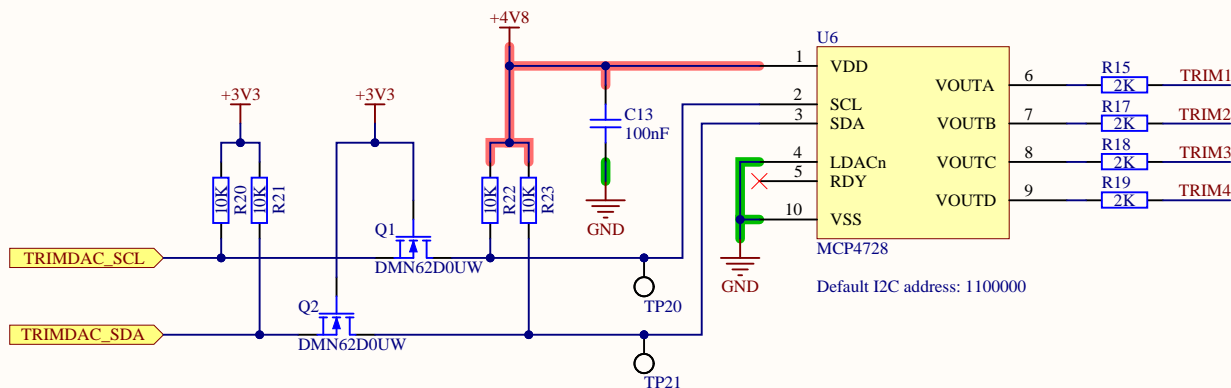
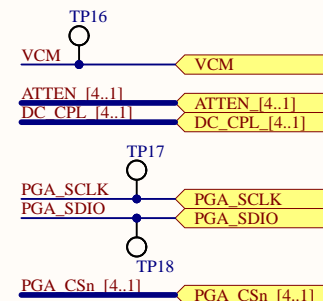
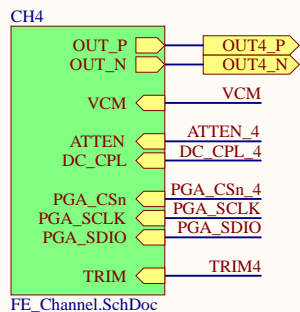
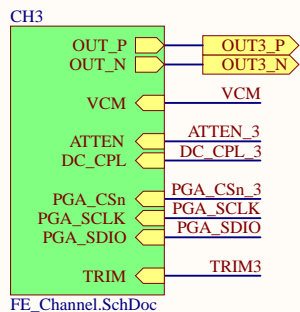
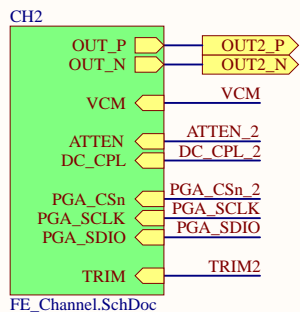
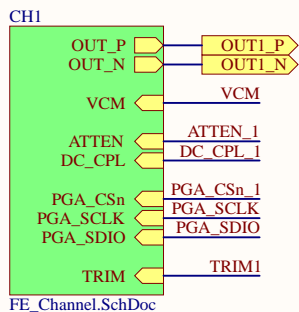
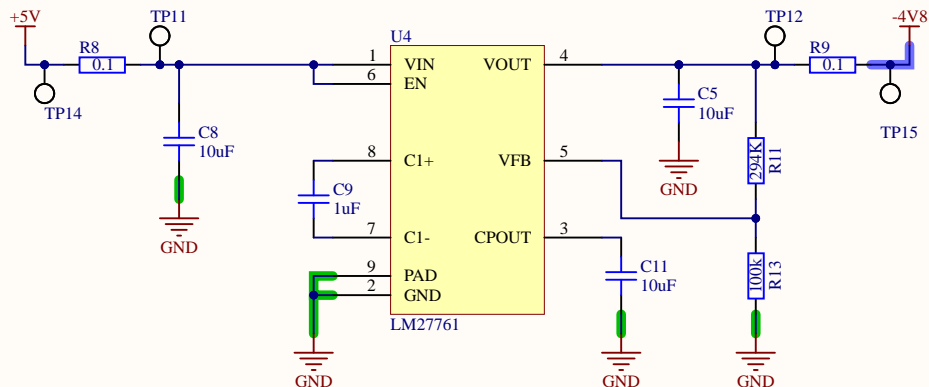
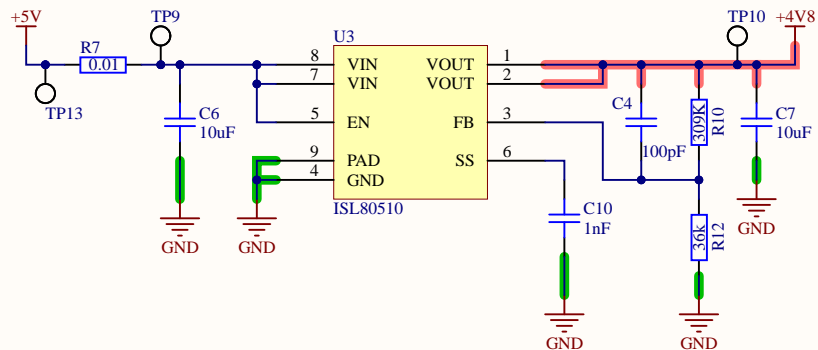


1

2

3

4



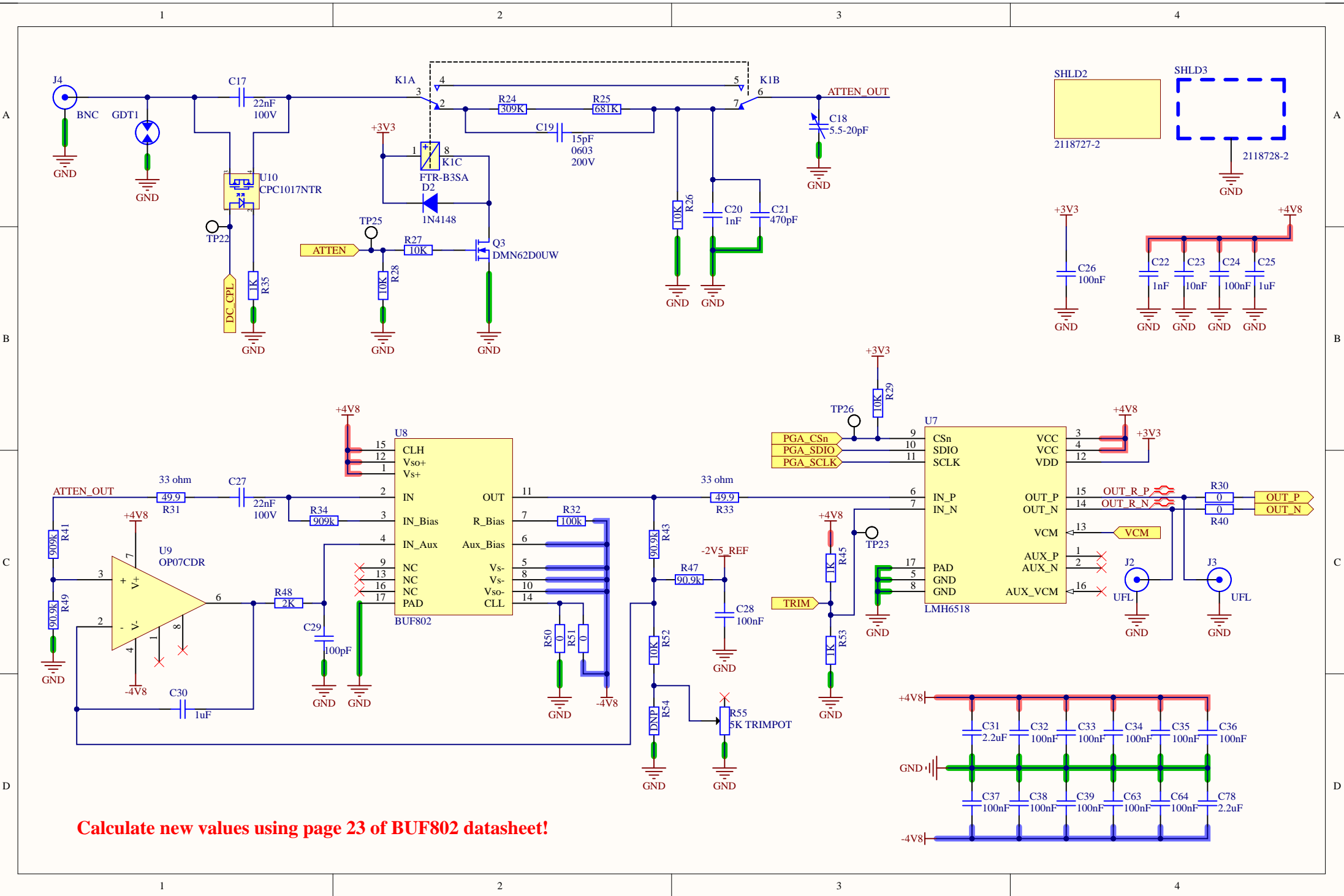
Title		
ThunderScope 1000E		
Size	Number	Revision
A4	FE.SchDoc	1
Date:	3-16-2022	Sheet of
File:	C:\Users\...\FE.SchDoc	Drawn By: Aleksa Bjelogrić

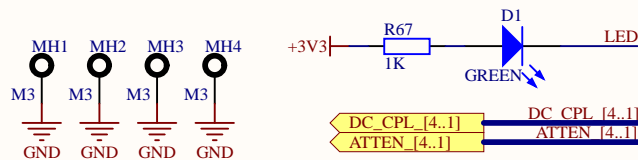
1

2

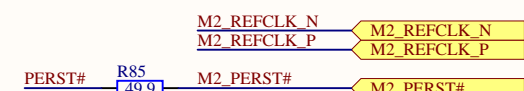
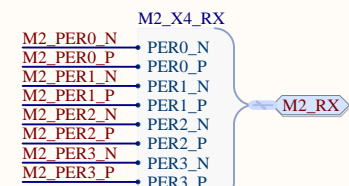
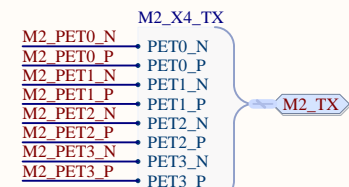
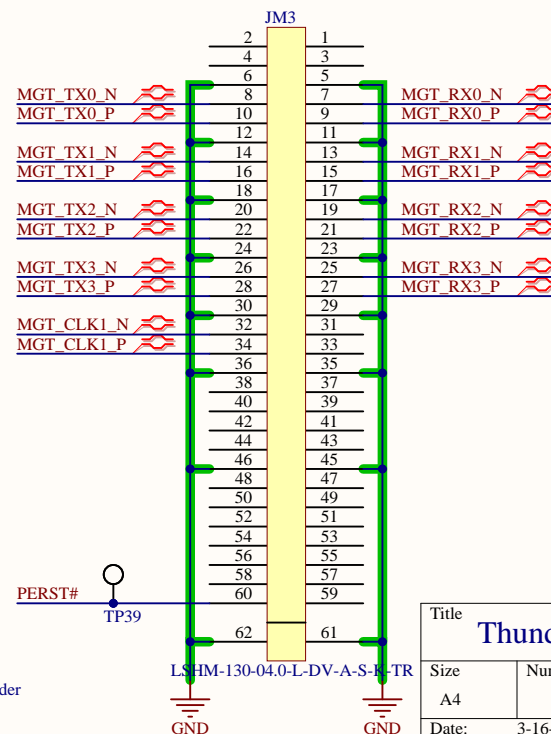
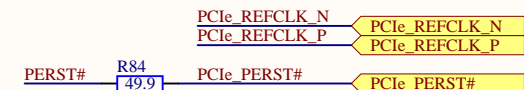
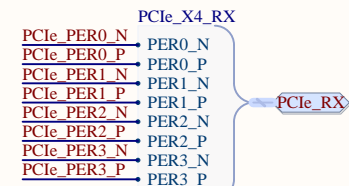
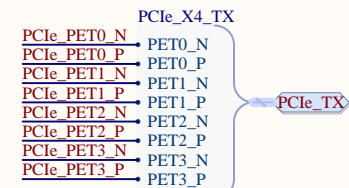
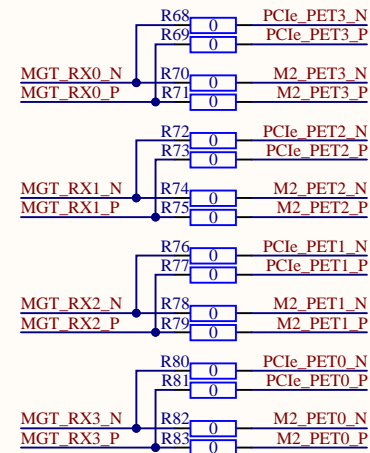
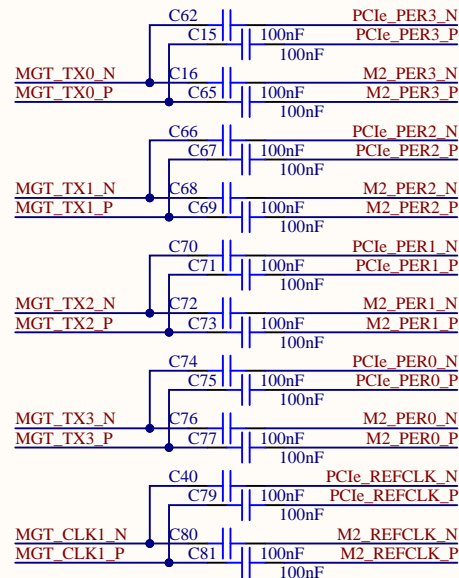
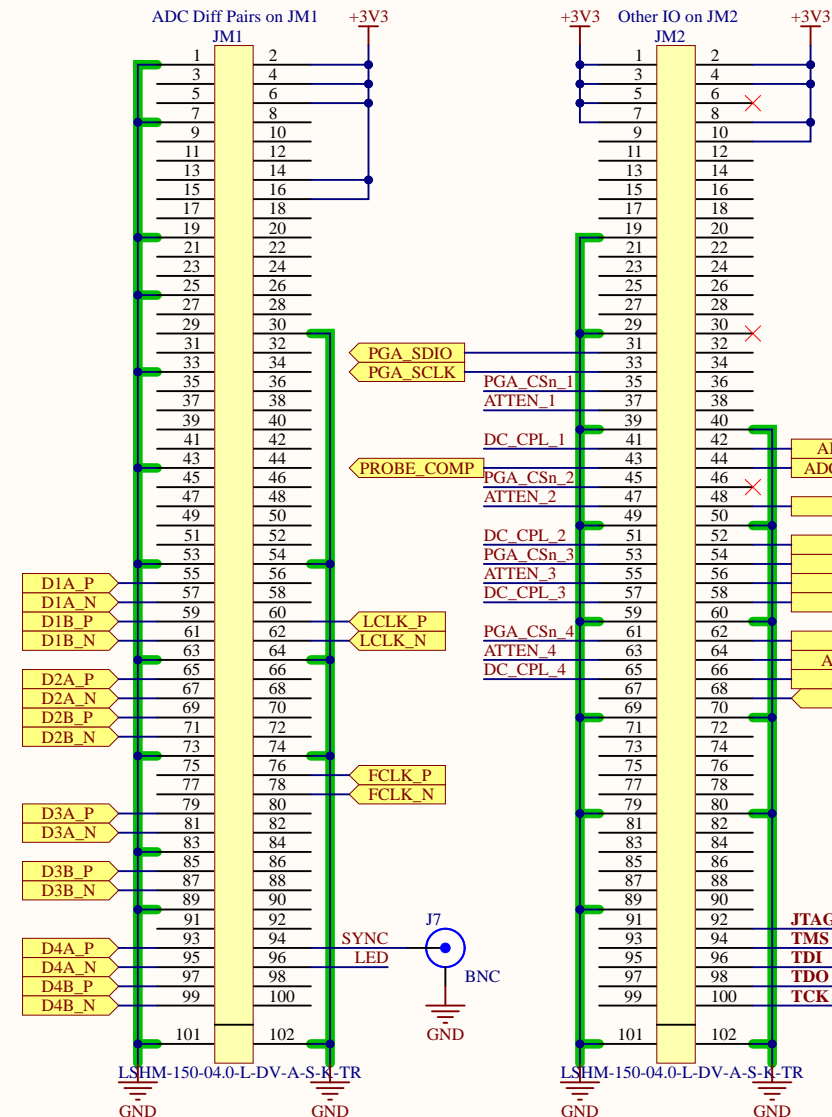
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4





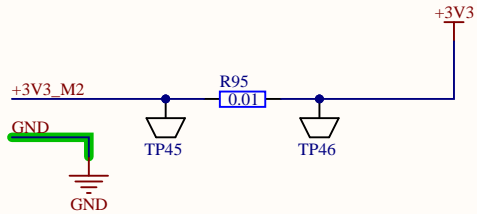
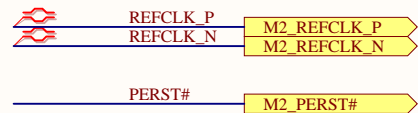
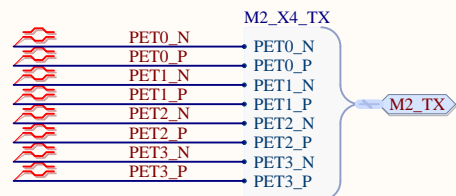
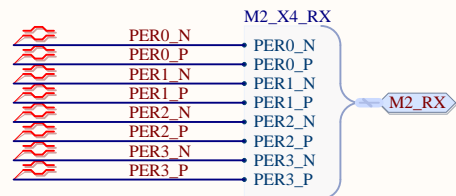
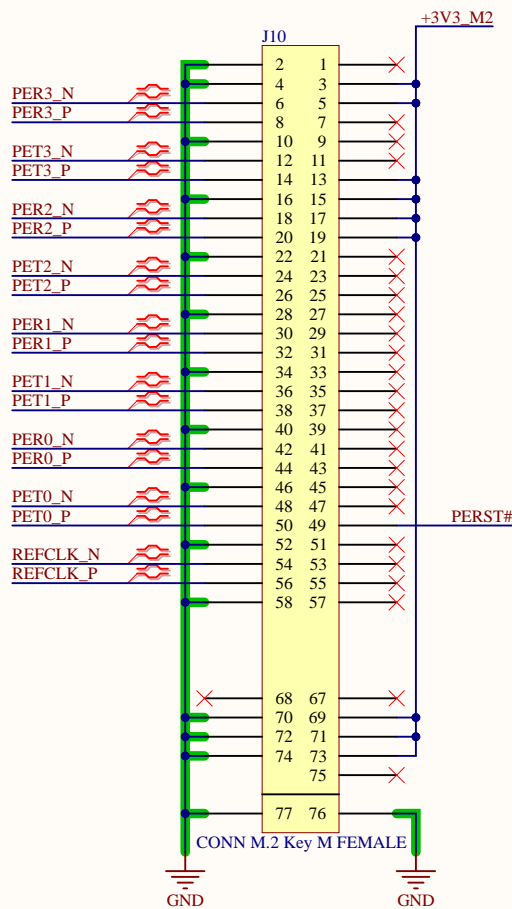
DC_CPL [4..1] DC_CPL [4..1]
 ATTN [4..1] ATTN [4..1]
 PGA_CS_n [4..1] PGA_CS_n [4..1]



AC Couple PER Lines with 100nF
 AC Couple REFCLK Lines with 100nF

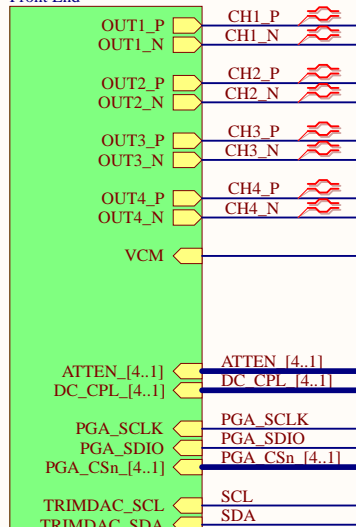
These connectors are hermaphroditic. Odd pin numbers on the module are connected to even pin numbers on the baseboard and vice versa.

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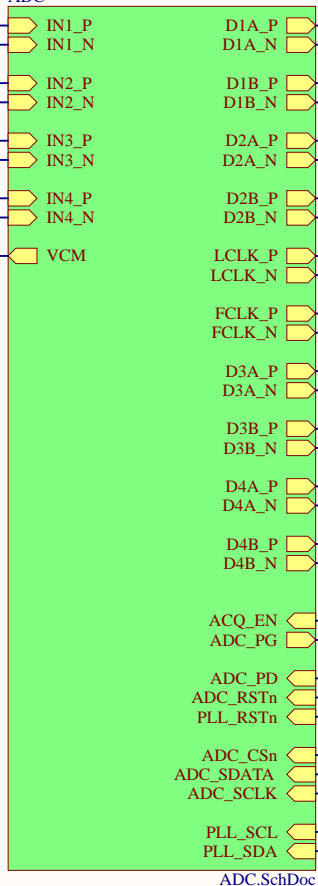
**Main Board
Custom Pinout**

Title		
Size	Number	Revision
A4		
Date:	3-16-2022	Sheet of
File:	C:\Users\...\M2_KEY_M.SchDoc	Drawn By:

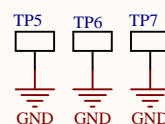
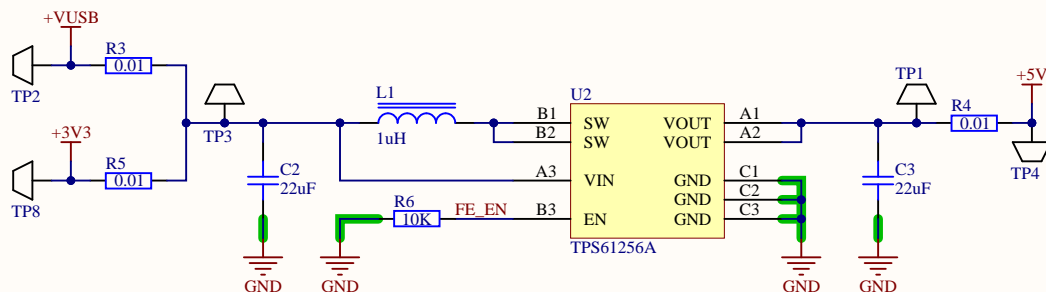
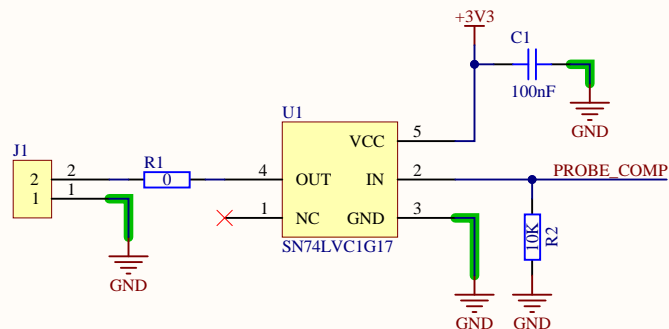
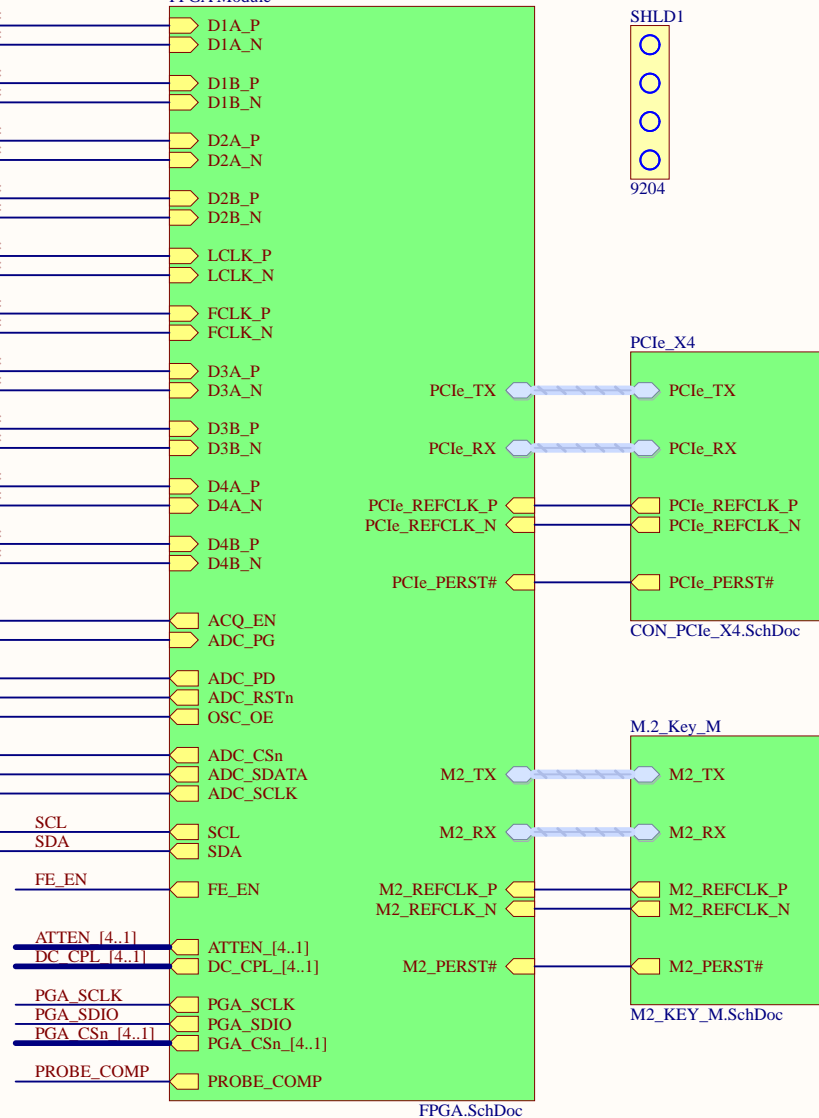
Front End



ADC



FPGA Module



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ThunderScope 1000E			
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A

B

C

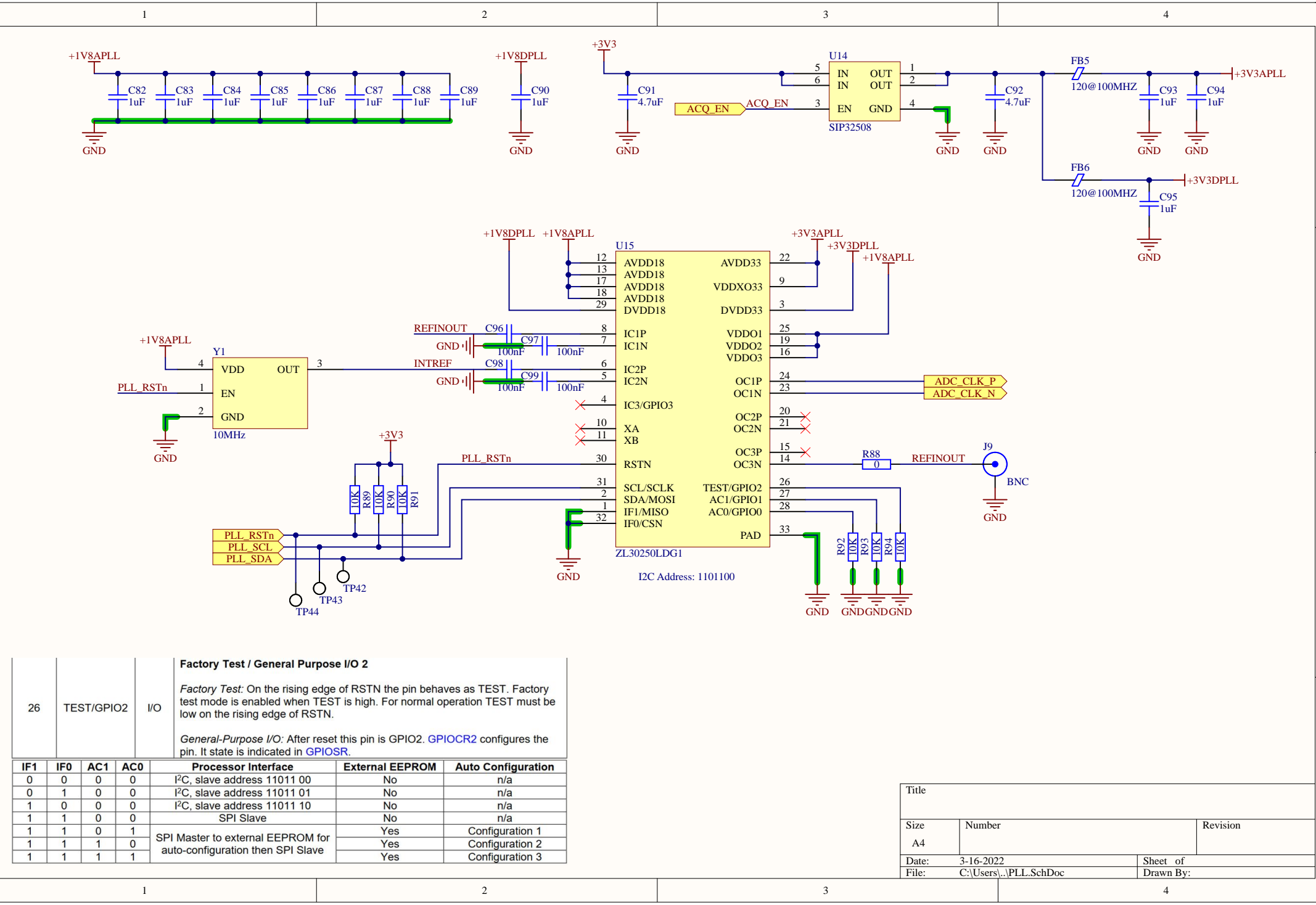
D

A

B

C

D



Title		
Size	Number	Revision
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Date:	3-16-2022	Sheet of
File:	C:\Users\...\PLL.SchDoc	Drawn By: