

## POWER & CONFIG

An expansion

A modification of the PicoEVb ([github.com/RHSResearchLLC/PicoEVb](https://github.com/RHSResearchLLC/PicoEVb))

Ethan Yang ([github.com/ethanyangtaco115](https://github.com/ethanyangtaco115)) & Stanely Wang

Sheet: /FPGA Power & Config/

File: fpga\_pwr\_cfg\_b.kicad\_sch

**Title: hFPGA**

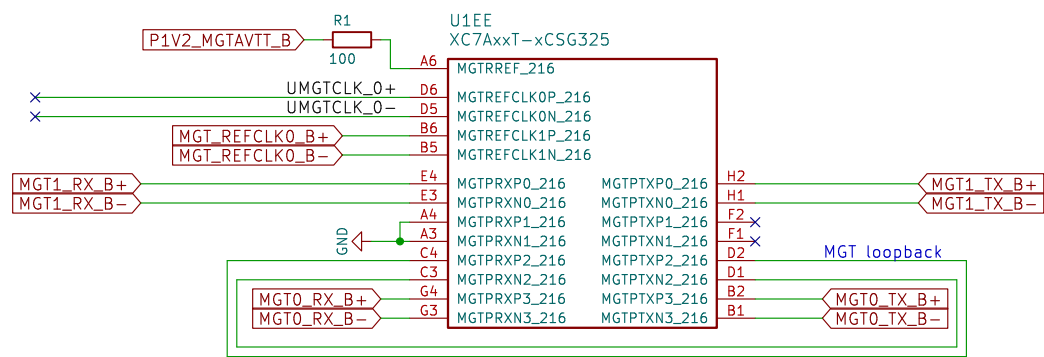
Size: A Date: 2025-09-16

KiCad E.D.A. 9.0.4

Rev: D

Id: 3/7

MGT (Multi-Gigabit Serial Transcievers) for High Speed Communication.



MGT RX, TX, & REFCLK route to All External Connectors page

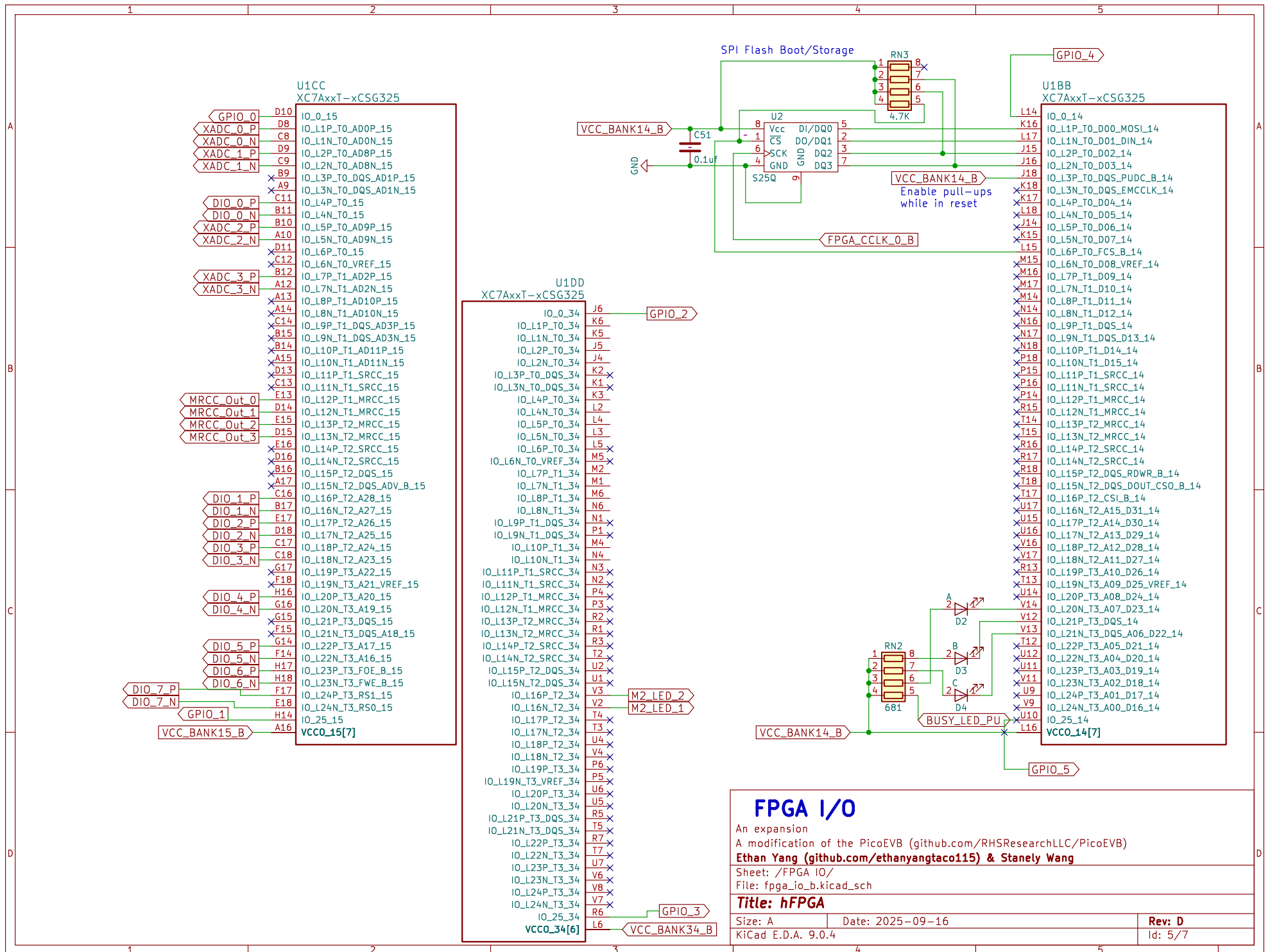
## PCI Express / MGT loopback

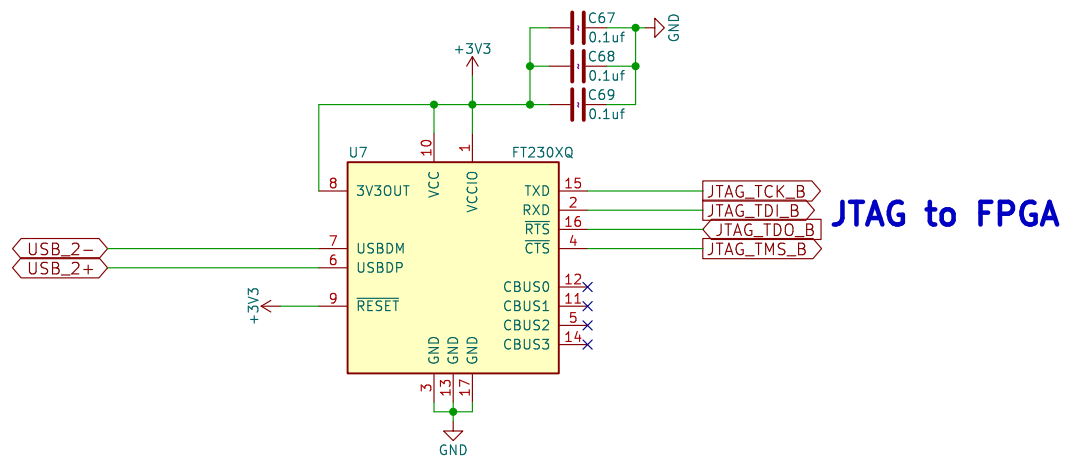
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**Ethan Yang** ([github.com/ethanyangtaco115](https://github.com/ethanyangtaco115)) & Stanely Wang  
Sheet: /FPGA PCIe/  
File: fpga\_pcie\_b.kicad\_sch

**Title: hFPGA**

Size: A Date: 2025-09-16  
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## USB-based JTAG cable

Annotation in this page

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**Ethan Yang ([github.com/ethanyangtaco115](https://github.com/ethanyangtaco115)) & Stanely Wang**

Sheet: /USB IO/

File: USB\_IO\_b.kicad\_sch

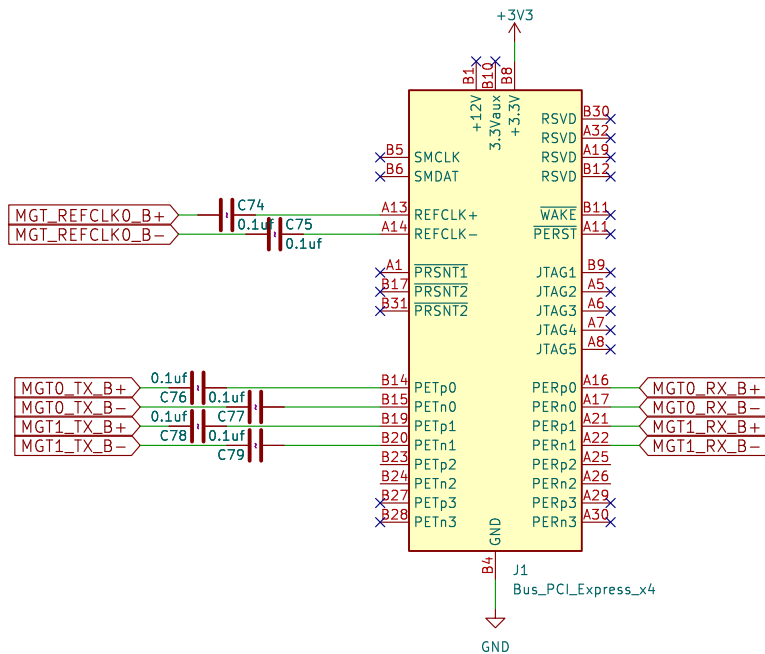
**Title: hFPGA**

Size: A Date: 2025-09-16

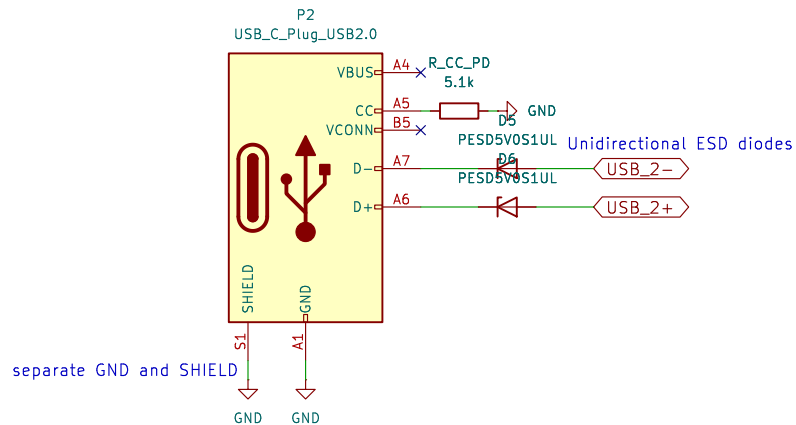
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MGT differential lines and power through PCIe x4 Bus



USB C connector for programming (Reference USB IO page)

## All External Connections

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Sheet: /All External Connectors/

File: M2\_edge\_b.kicad\_sch

**Title: hFPGA**

Size: A Date: 2025-09-16

KiCad E.D.A. 9.0.4

Rev: D

Id: 7/7