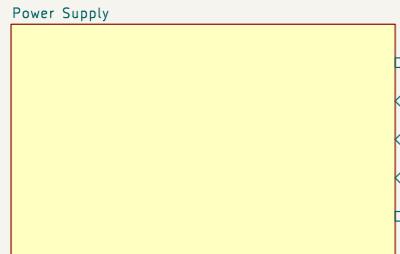


ACU5EV SoM Carrier Board – Main Sheet

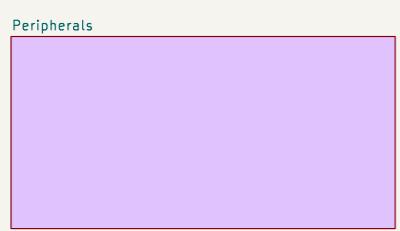
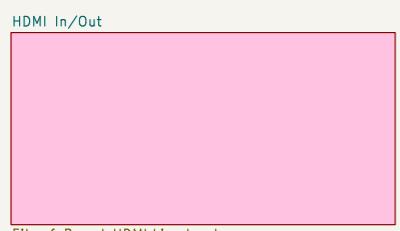
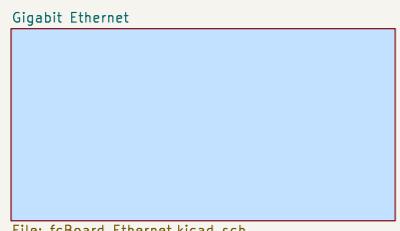
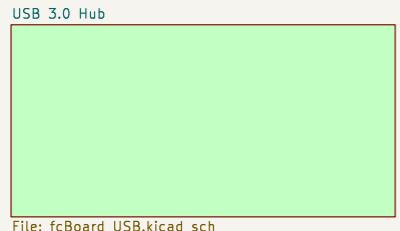
Hierarchical Design:

1. Power Supply
2. SoM Connectors (J29–J32)
3. USB 3.0 Hub (4 ports)
4. Gigabit Ethernet (2 ports)
5. HDMI In/Out
6. Peripherals



SoM Connectors (ACU5EV)
 J29: BANK65/66 (HDMI, MIPI, ETH PL)
 J30: MGT505/BANK25/26 (PCIe, SFP)
 J31: BANK24/44 (RS485, GPIO)
 J32: PS MIO/Power (USB, ETH PS, SD)

Power Distribution:
 +12V to J32 (pins 107–120)
 +1V8 to J32 VCC0_65/66
 GND to All connectors



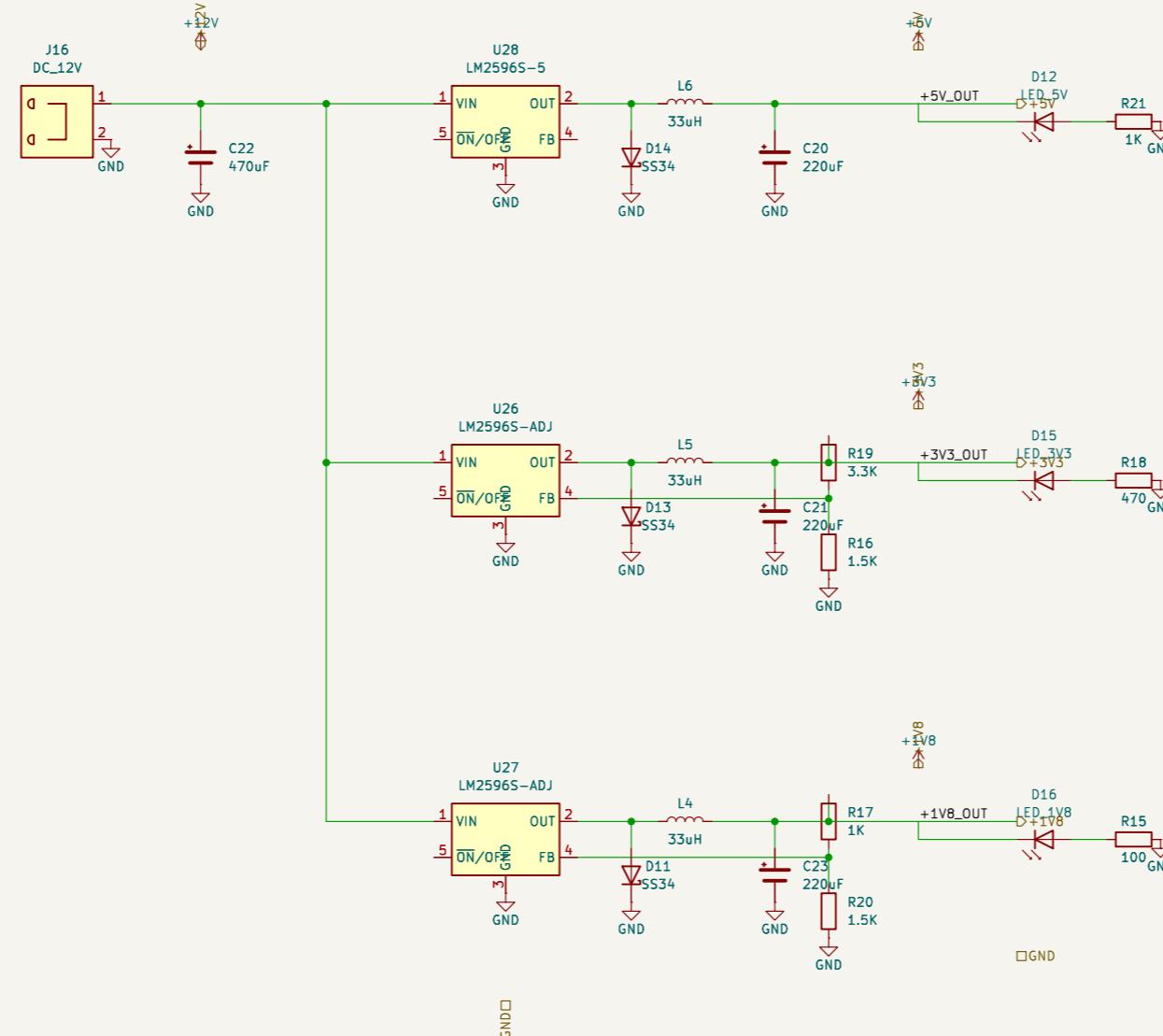
Zynq UltraScale+ MPSoC XCZU5EV
 Full-featured carrier board for ALINX ACU5EV SoM
fcBoard Project

Sheet: /
 File: fcBoard.kicad_sch

Title: ACU5EV SoM Carrier Board

Size: A3 | Date: 2024-11-30
 KiCad E.D.A. 9.0.6

Rev: 0.1 | Id: 1/6

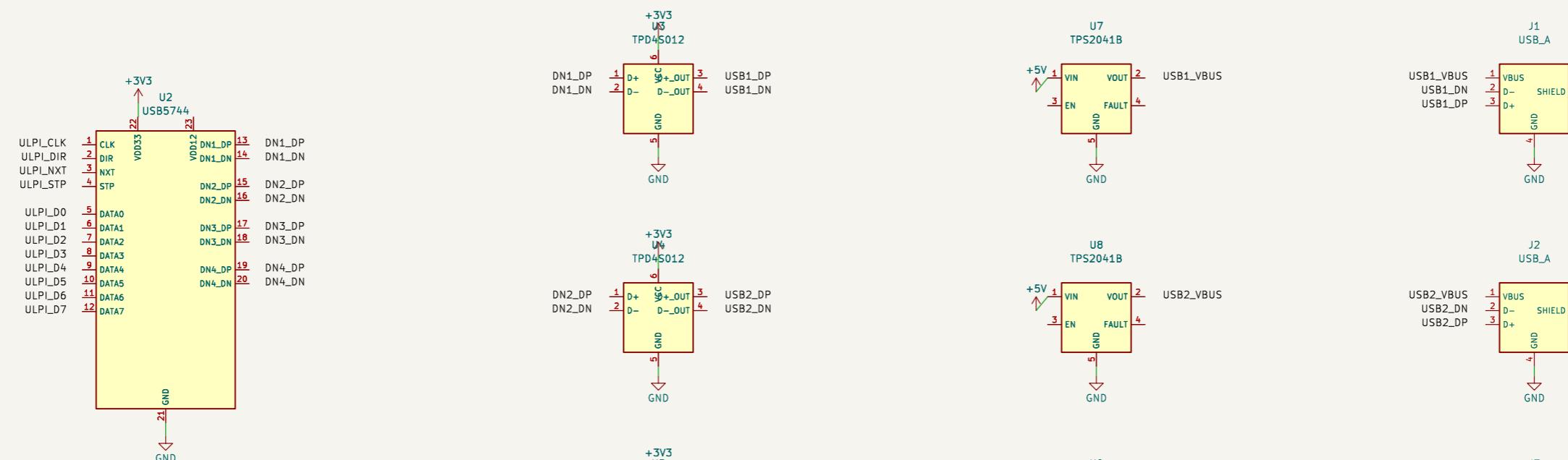


12V Input, 5V/3.3V/1.8V DC-DC Outputs

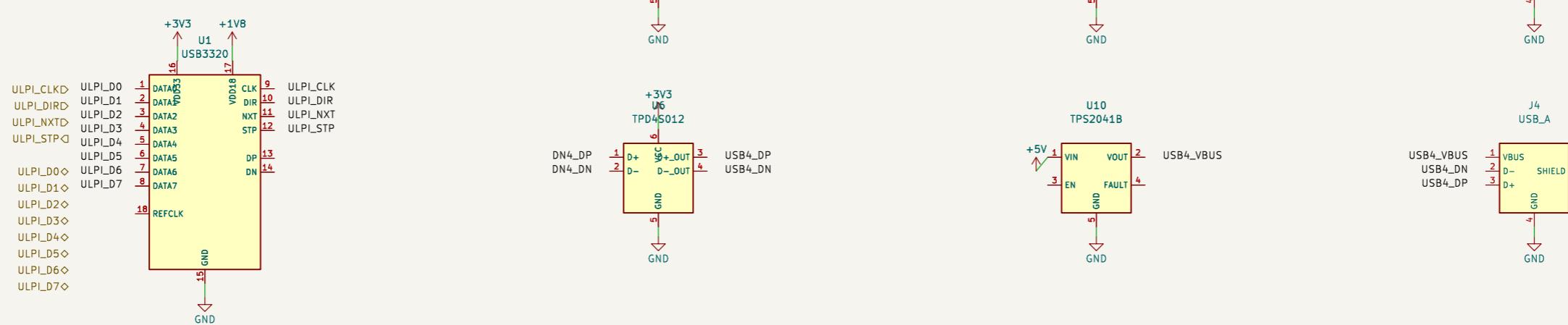
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KiCad E.D.A. 9.0.6

Rev: 0.1 | Id: 2/6

A

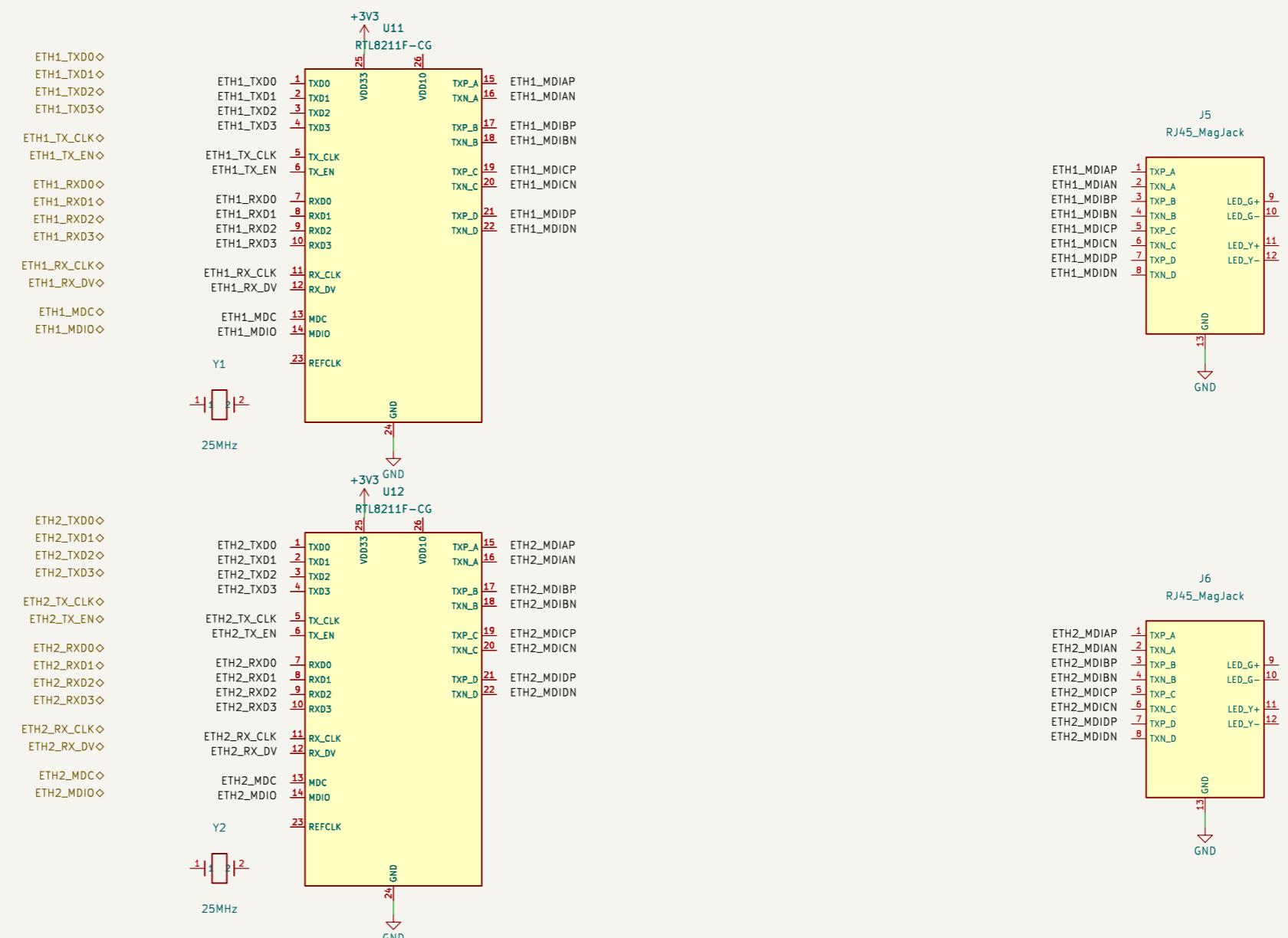


B



C

F



fcBoard

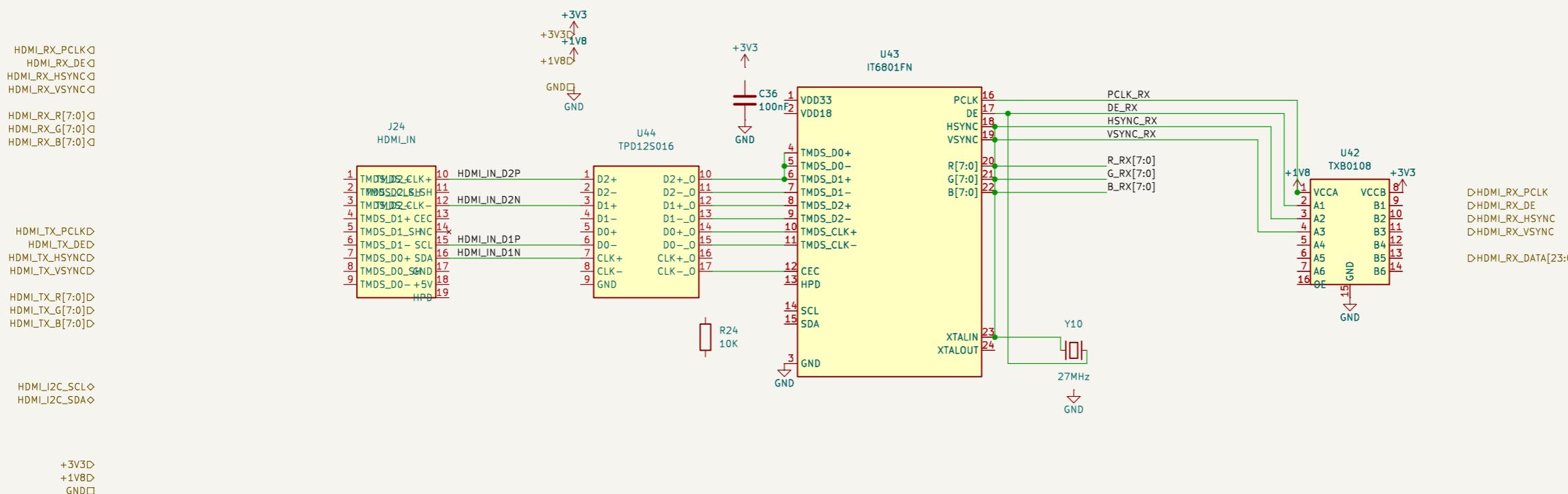
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Title: Dual Gigabit Ethernet

Size: A3 Date
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Rev: Id: 4/6

A



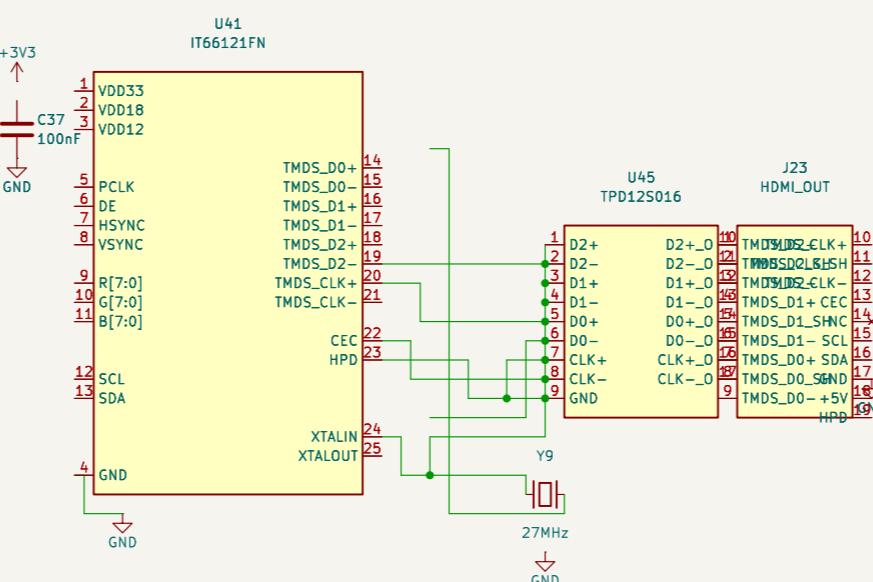
B

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IT6801FN HDMI Receiver + IT66121FN HDMI Transmitter
fcBoard Project

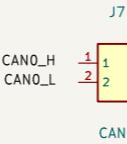
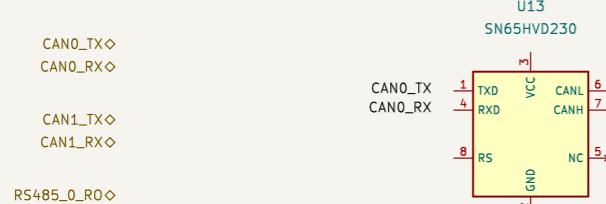
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Title: HDMI In/Out

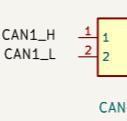
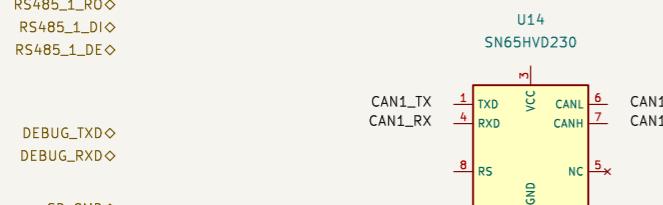
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Rev: 0.1
Id: 5/6

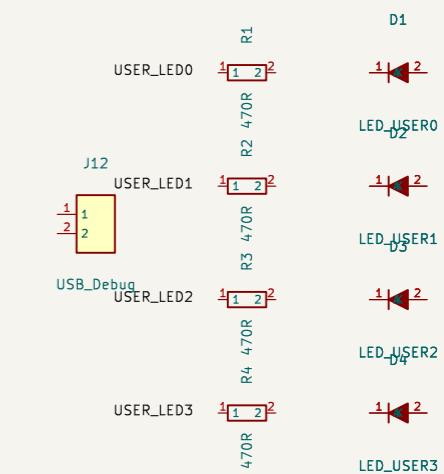
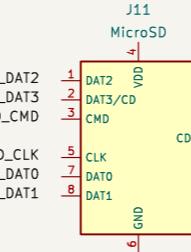
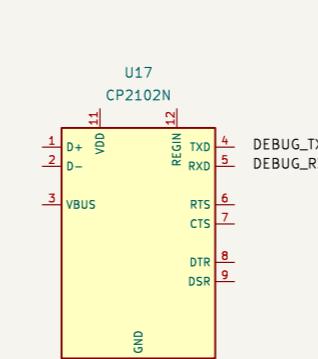
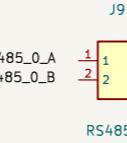
A



B



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