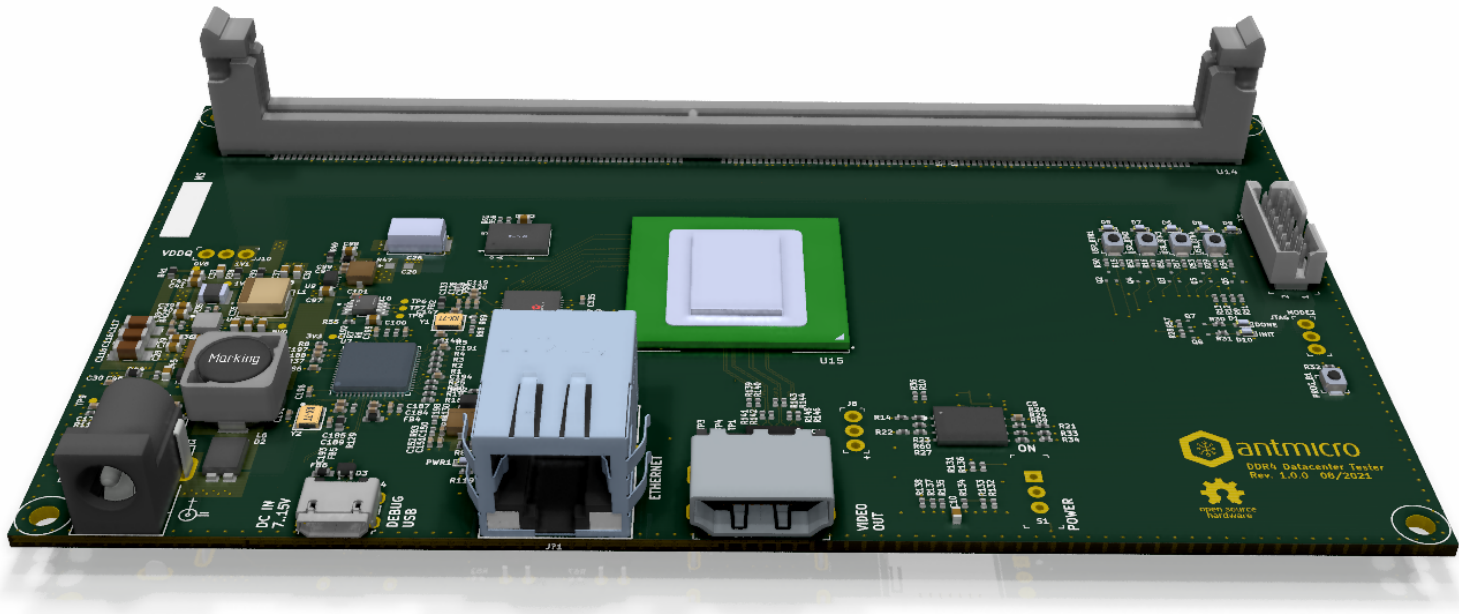


Data Center DRAM Tester



Sheet: HyperRAM



File: hyperram.sch

Sheet: DDR4



File: DDR4.sch

Sheet: Interfaces



File: interfaces.sch

Sheet: Ethernet



File: ethernet.sch

Sheet: Supply



File: supply.sch

Sheet: Config SPI flash



File: config-spi.sch

Sheet: FPGA power



File: fpga-power.sch

Sheet: FPGA banks 12-15



File: fpga-banks-12-15.sch

Sheet: FPGA banks 16-34



File: fpga-banks-16-34.sch

Logo ^{N1} oshw_logo
Logo ^{N2} antmicro_logo

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Sheet: /
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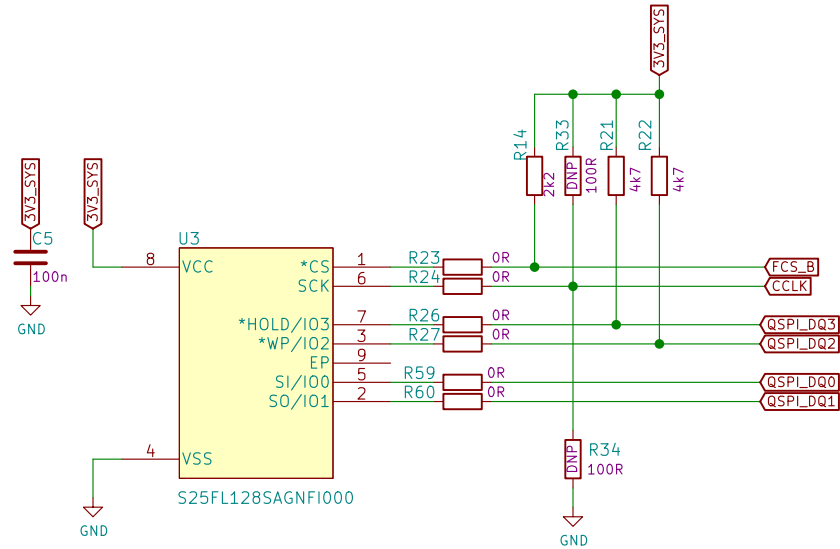
Title: Data Center DRAM Tester

Size: A3	Date: 2021-11	Rev: 1.0.2
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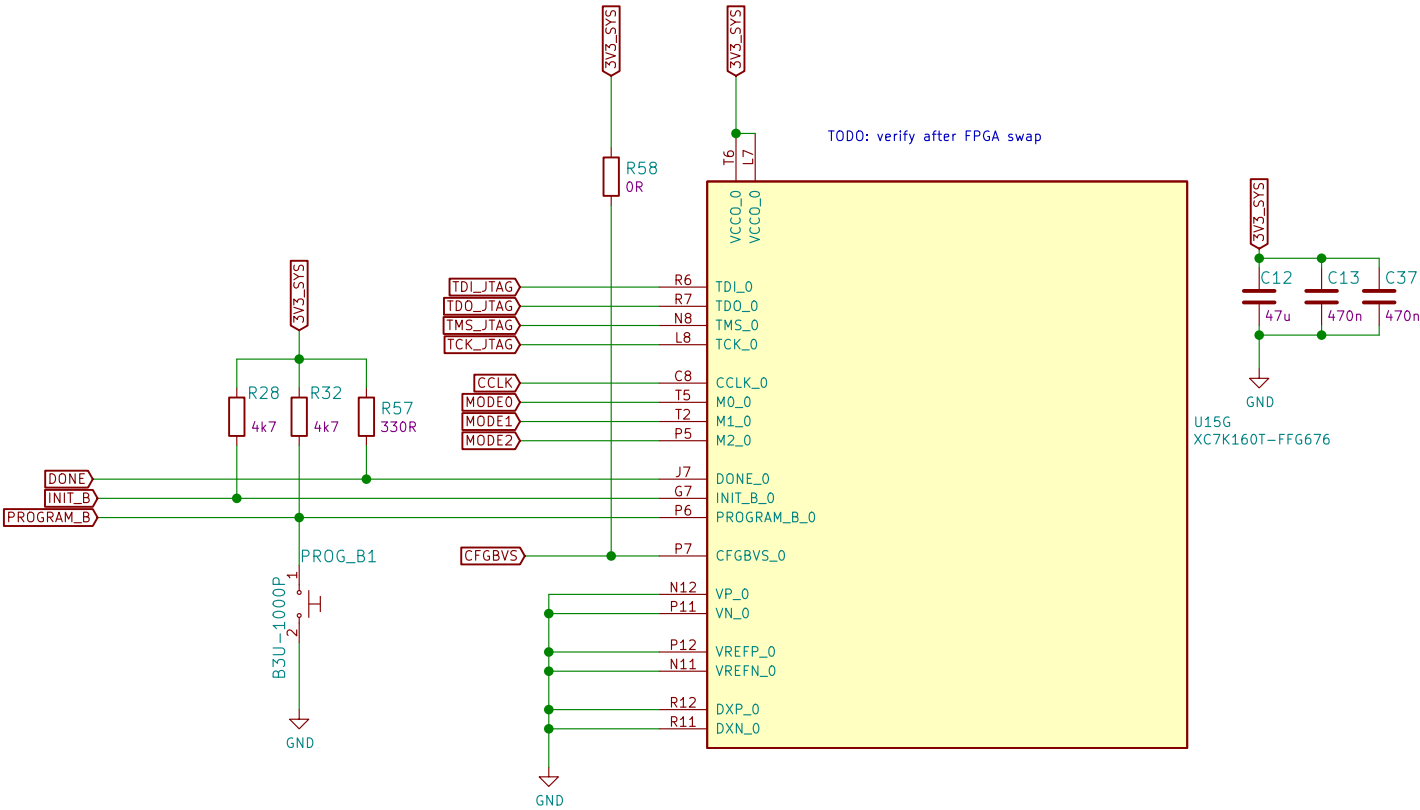
Master SPI Quad (x4) configuration scheme

Follows Figure 2–14 7 Series FPGAs Configuration User Guide UG470 (v1.13.1)

(Q)SPI flash

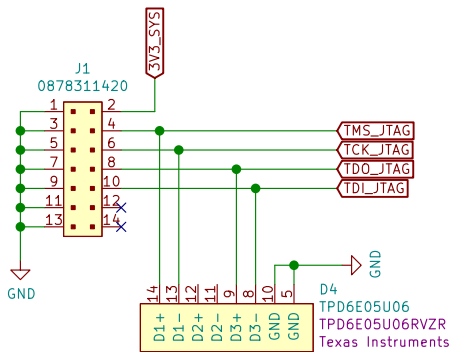


FPGA BANK 0

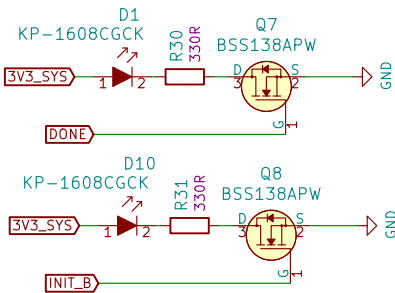


JTAG Connector

Compatible with Xilinx Platform Cable

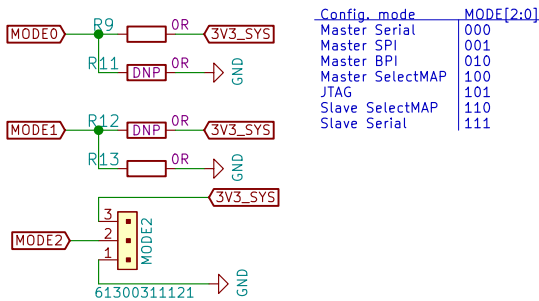


STATUS LEDs

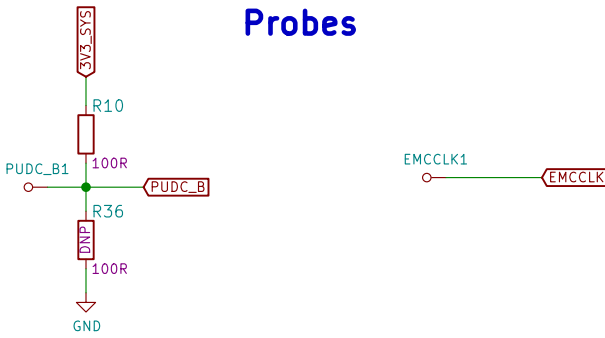


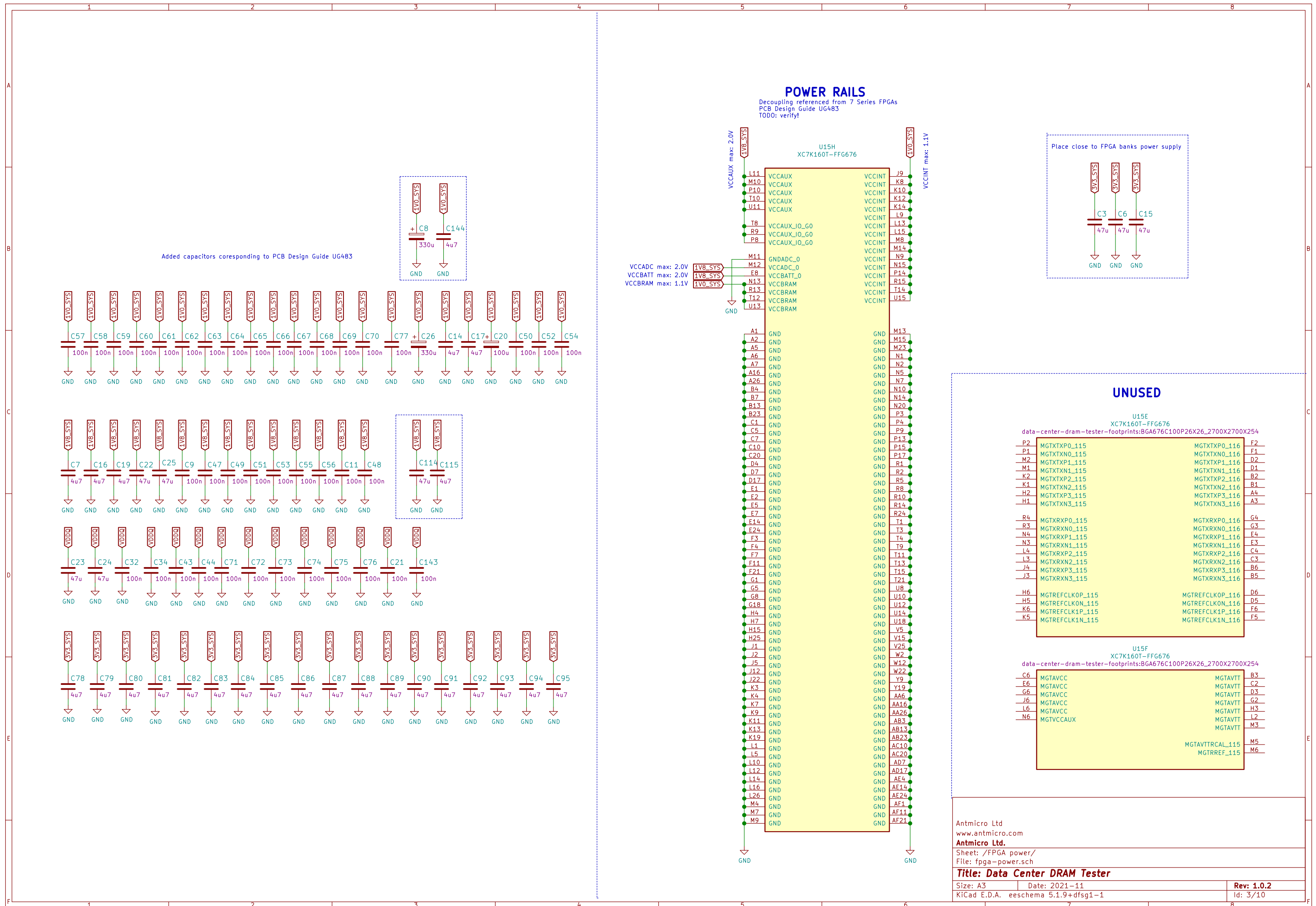
Configuration Modes

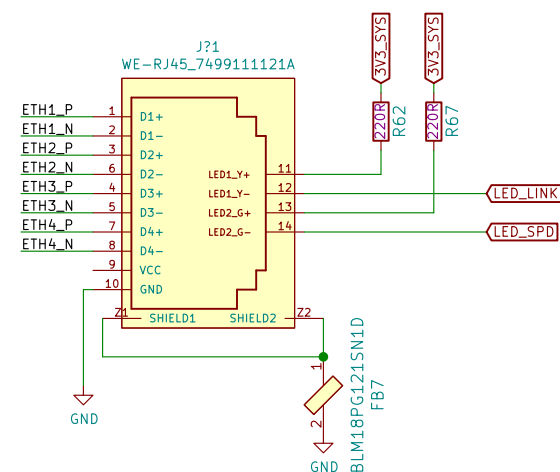
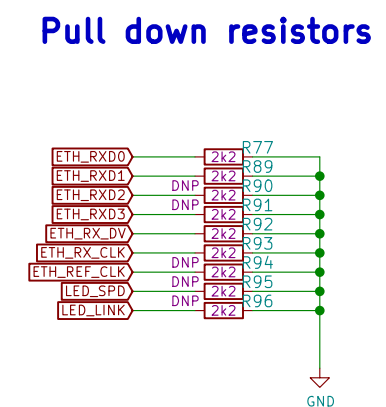
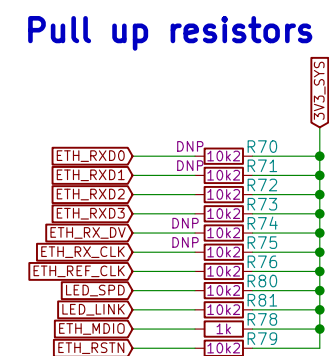
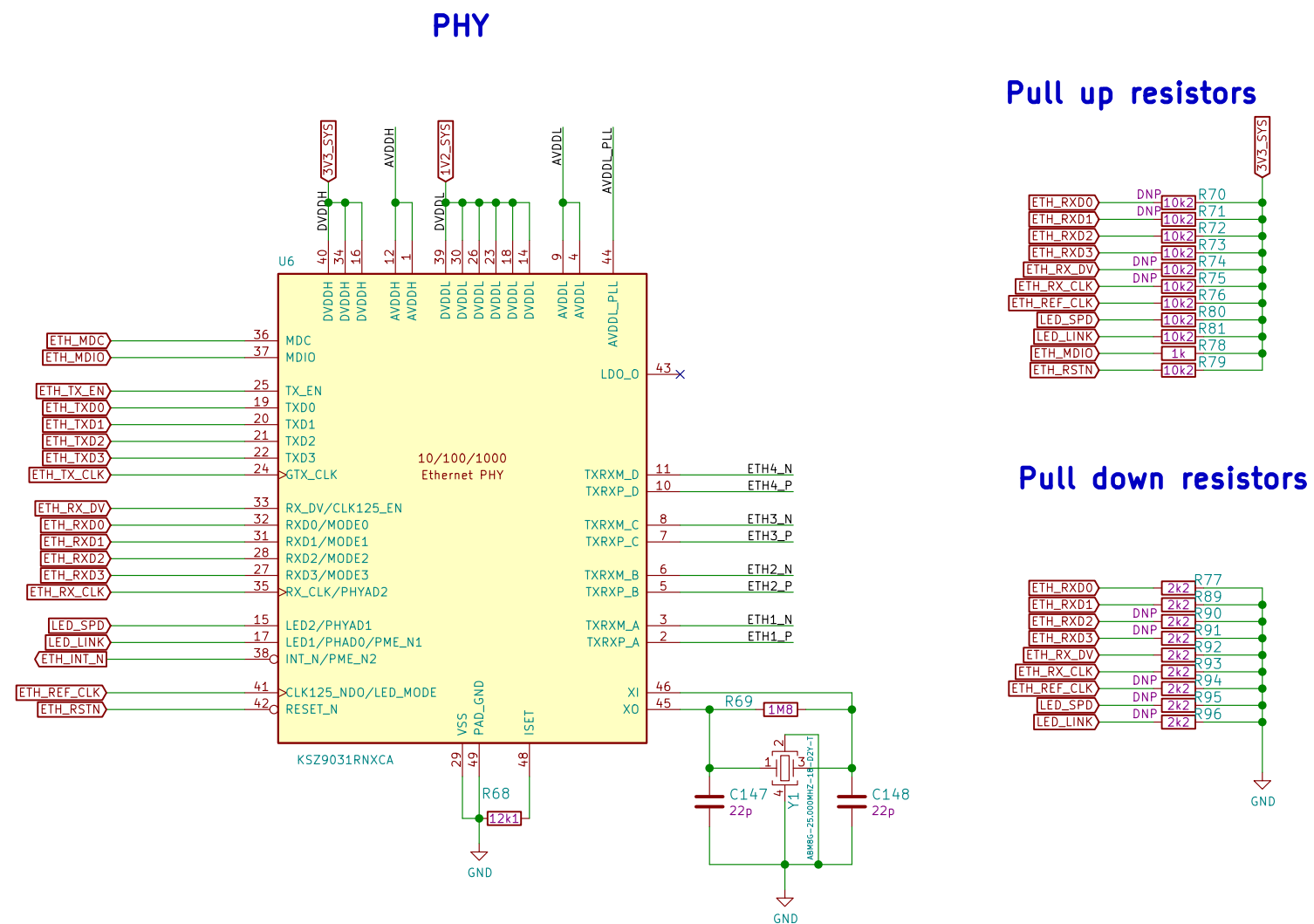
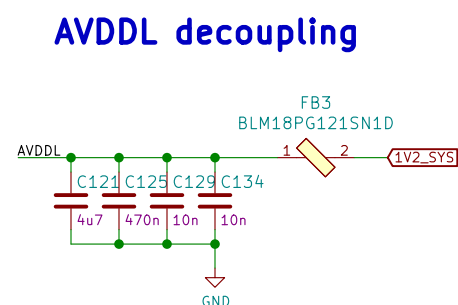
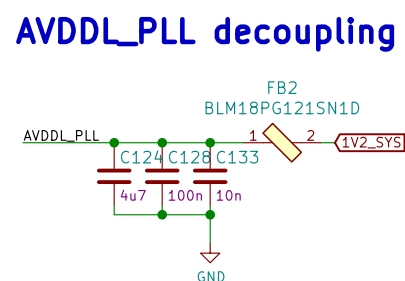
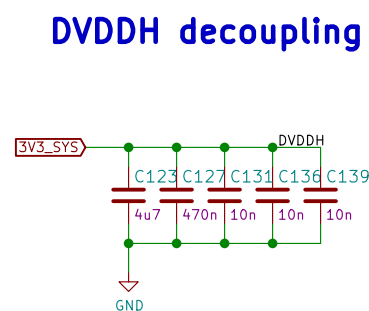
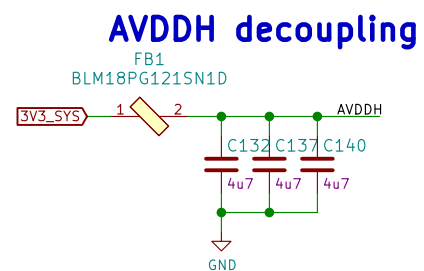
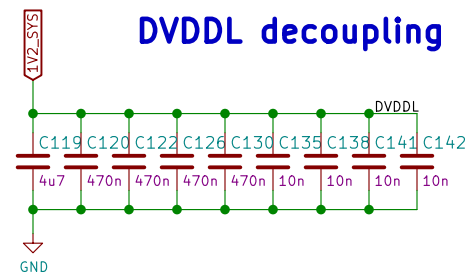
For details, see UG470 p. 21



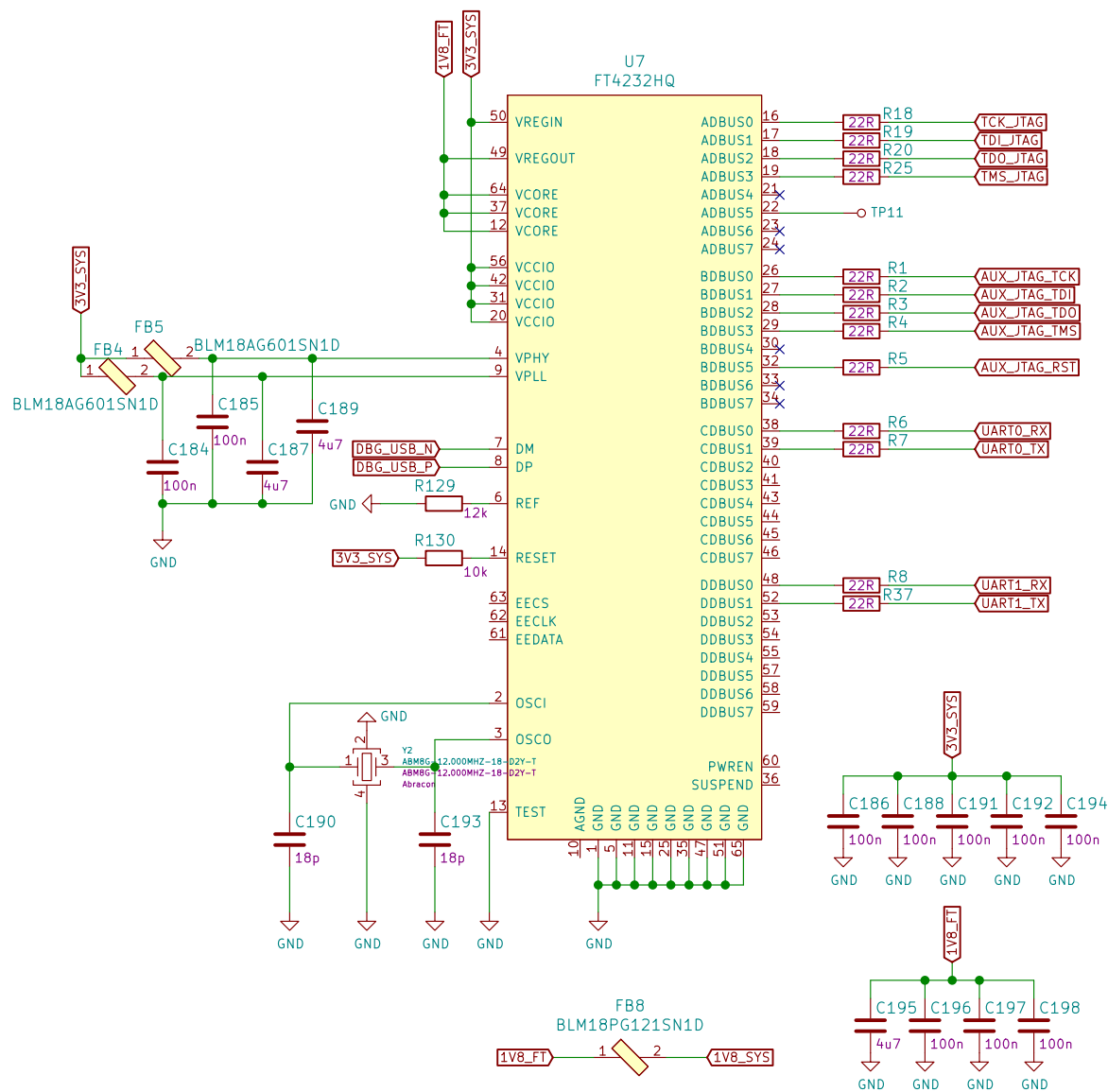
Probes



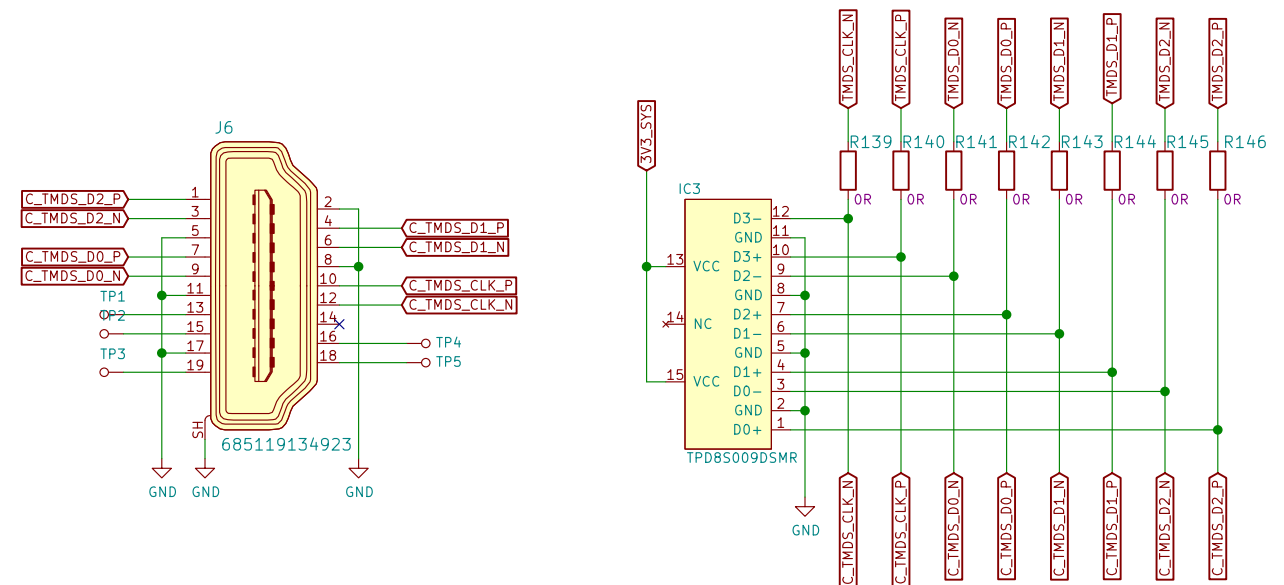




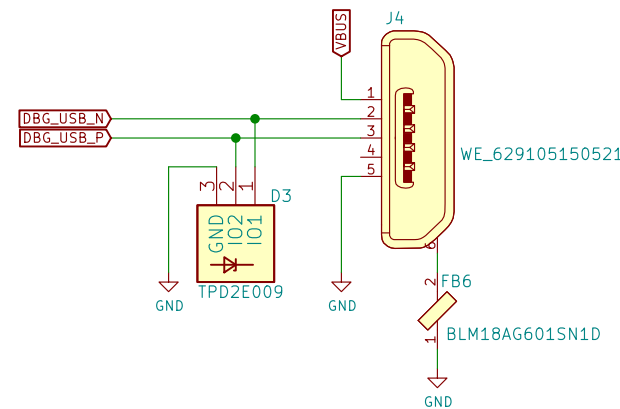
Debug UART



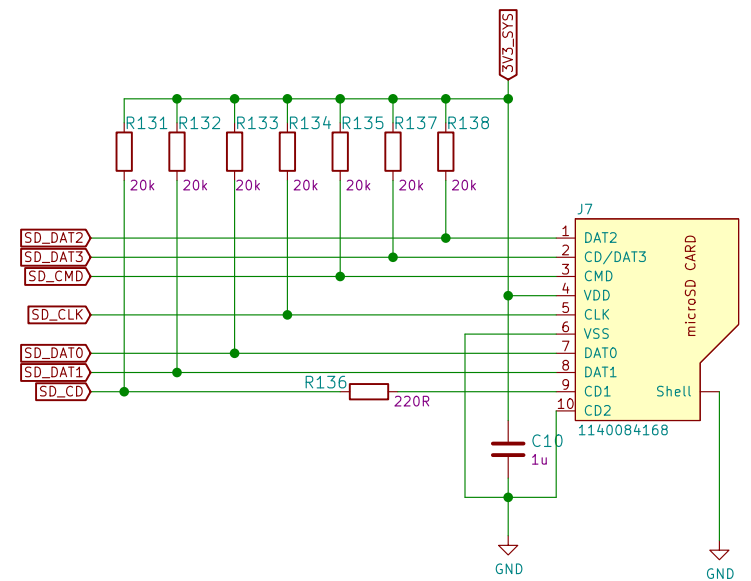
HDMI



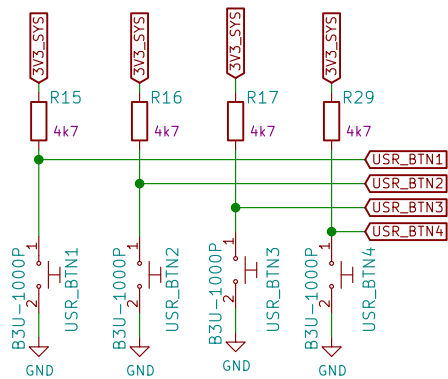
Debug USB



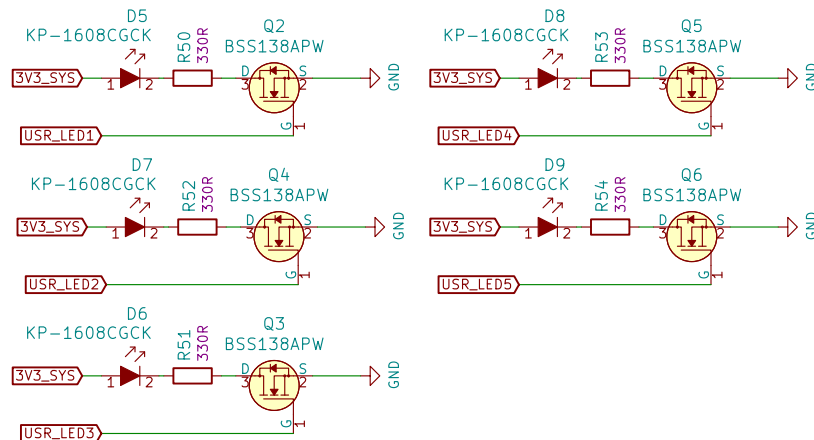
SD card



User buttons



User LEDs



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File: Interfaces.sch

Title: Data Center DRAM Tester

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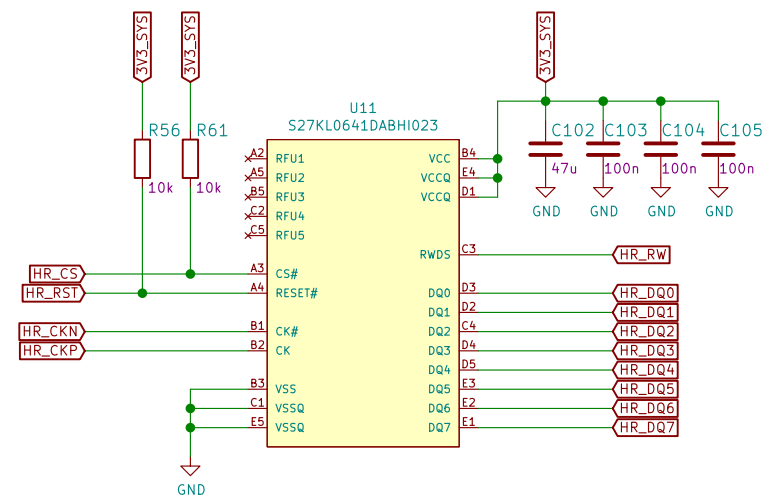
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HyperRAM



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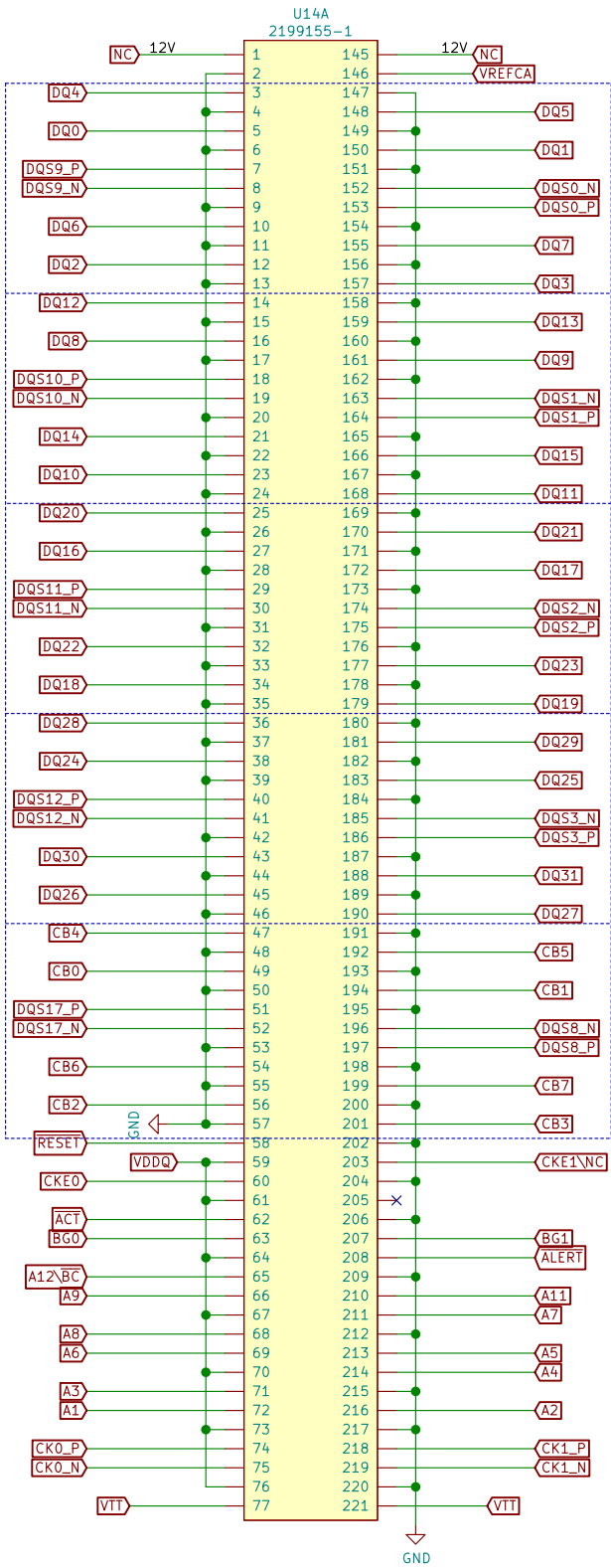
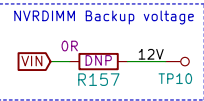
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DDR4 RDIMM connector

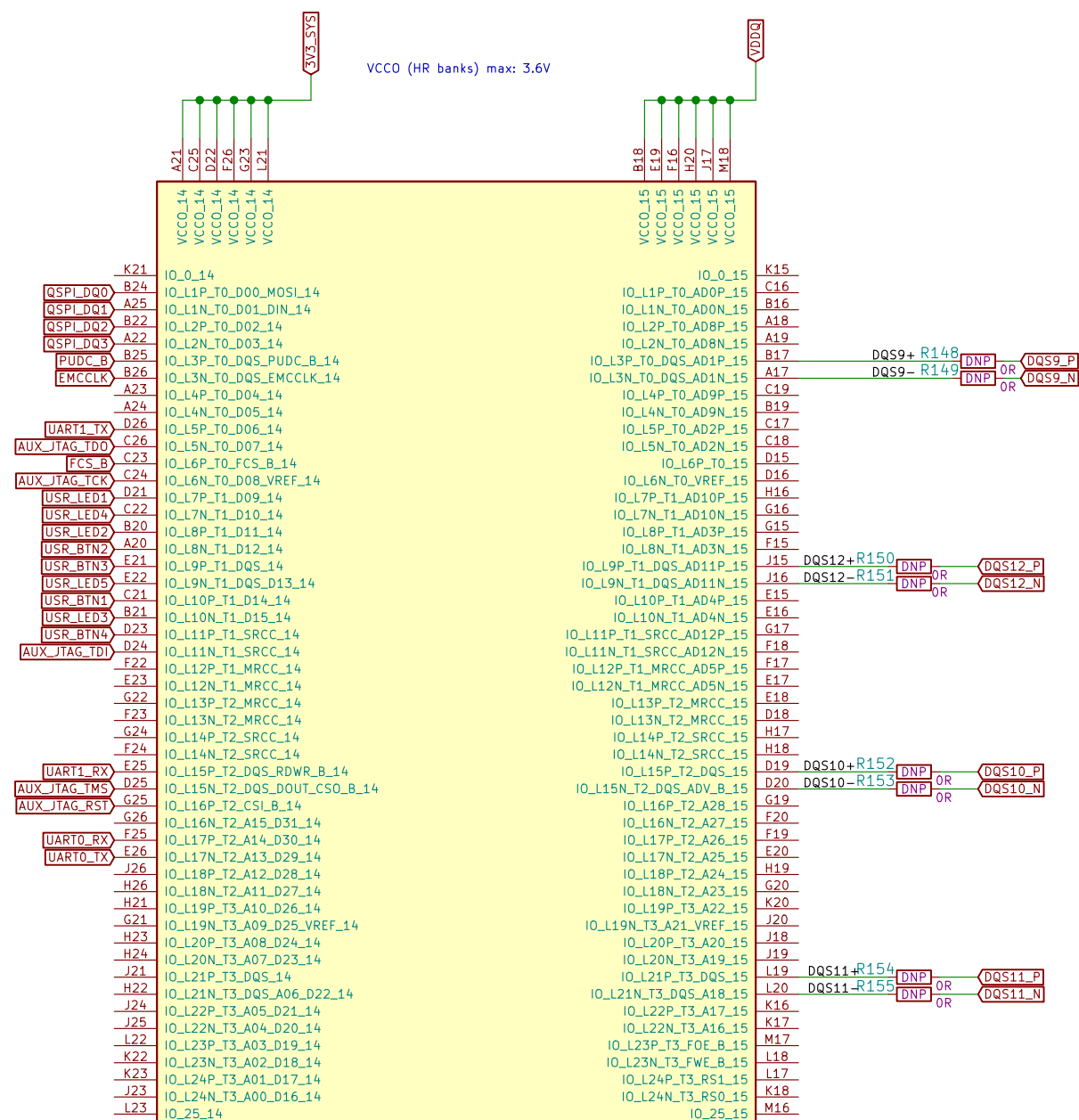
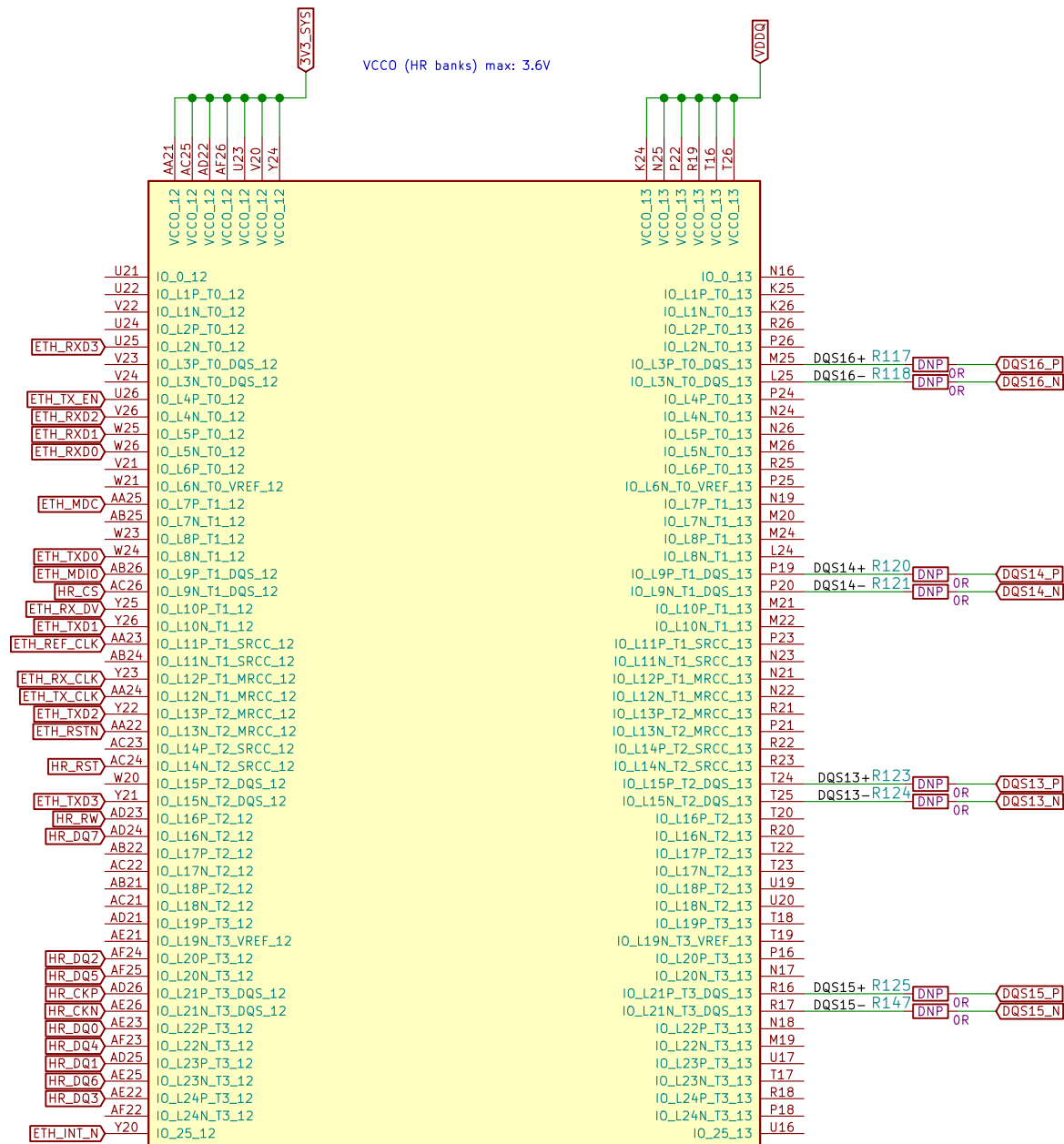


BANK 12

BANK 13

BANK 14

BANK 15



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Sheet: /FPGA banks 12-15/
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