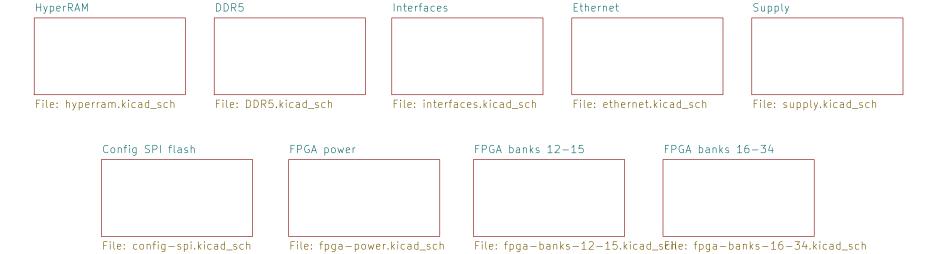
Data Center RDIMM DDR5 Tester







Logo N1 antmicro_logo

Logo N2 oshw_logo

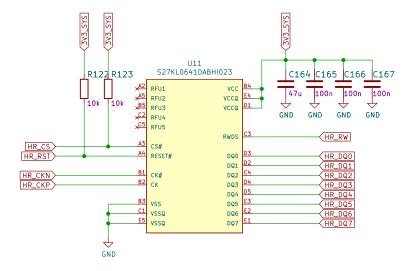
Antmicro Ltd www.antmicro.com

Sheet: / File: data-center-rdimm-ddr5-tester.kicad_sch

Title: Data Center RDIMM DDR5 Tester

Size: A3 Date: 2022-03-08
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HyperRAM





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Antmicro Ltd. Sheet: /HyperRAM/ File: hyperram.kicad_sch

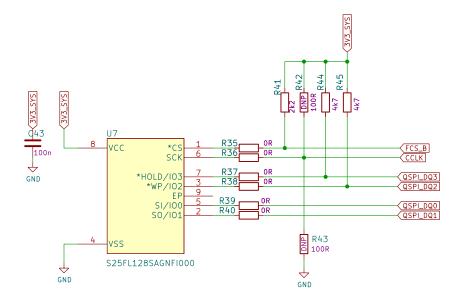
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Size: A3 Date: 2022-03-08
KiCad E.D.A. eeschema 6.0.11-2627ca5db0-126-ubuntu22.04.1

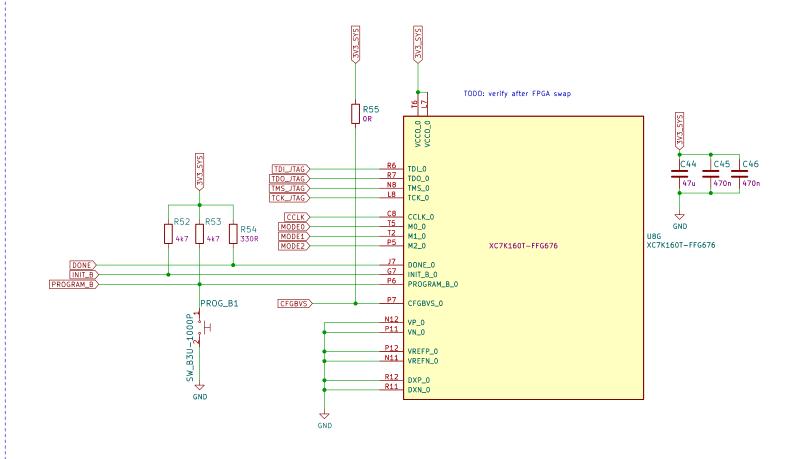
Master SPI Quad (x4) configuration scheme

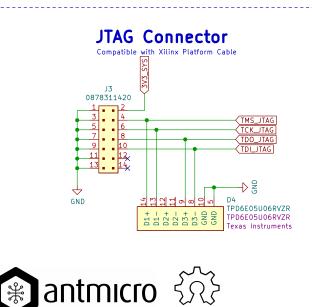
Follows Figure 2—14 7 Series FPGAs Configuration User Guide UG470 (v1.13.1)

(Q)SPI flash

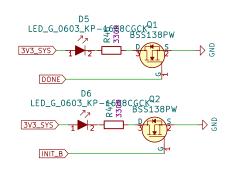


FPGA BANK 0



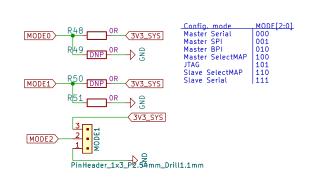


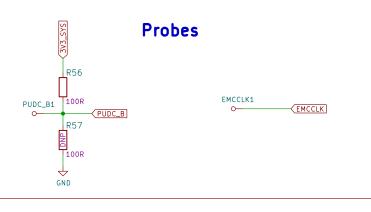
STATUS LEDs



Configuration Modes

For details, see UG470 p. 21





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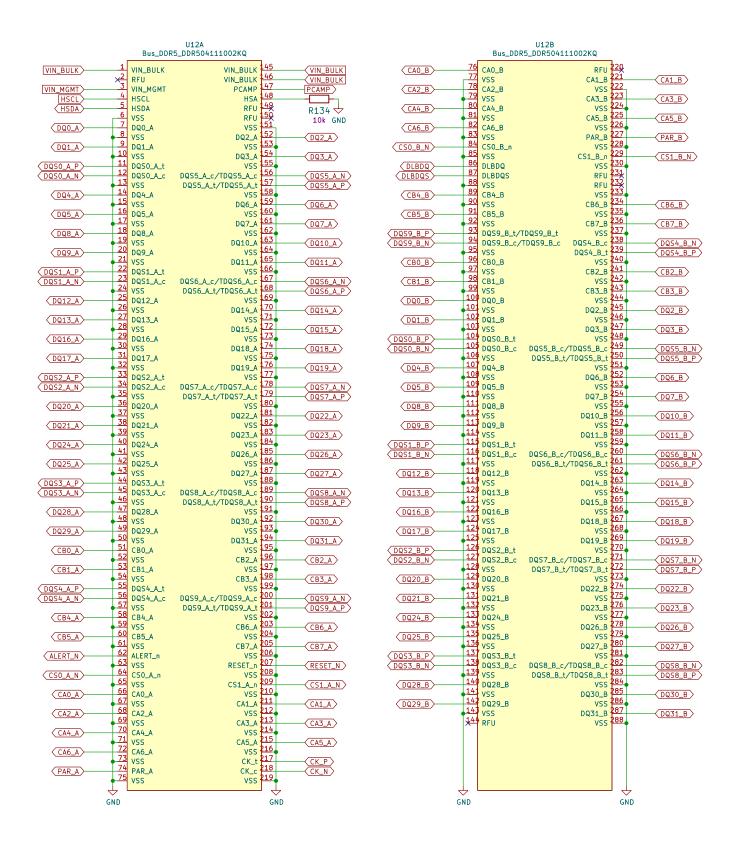
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 Size: A3
 Date: 2022-03-08
 Rev: 1.0.0

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 Id: 3/10

DDR5 RDIMM connector





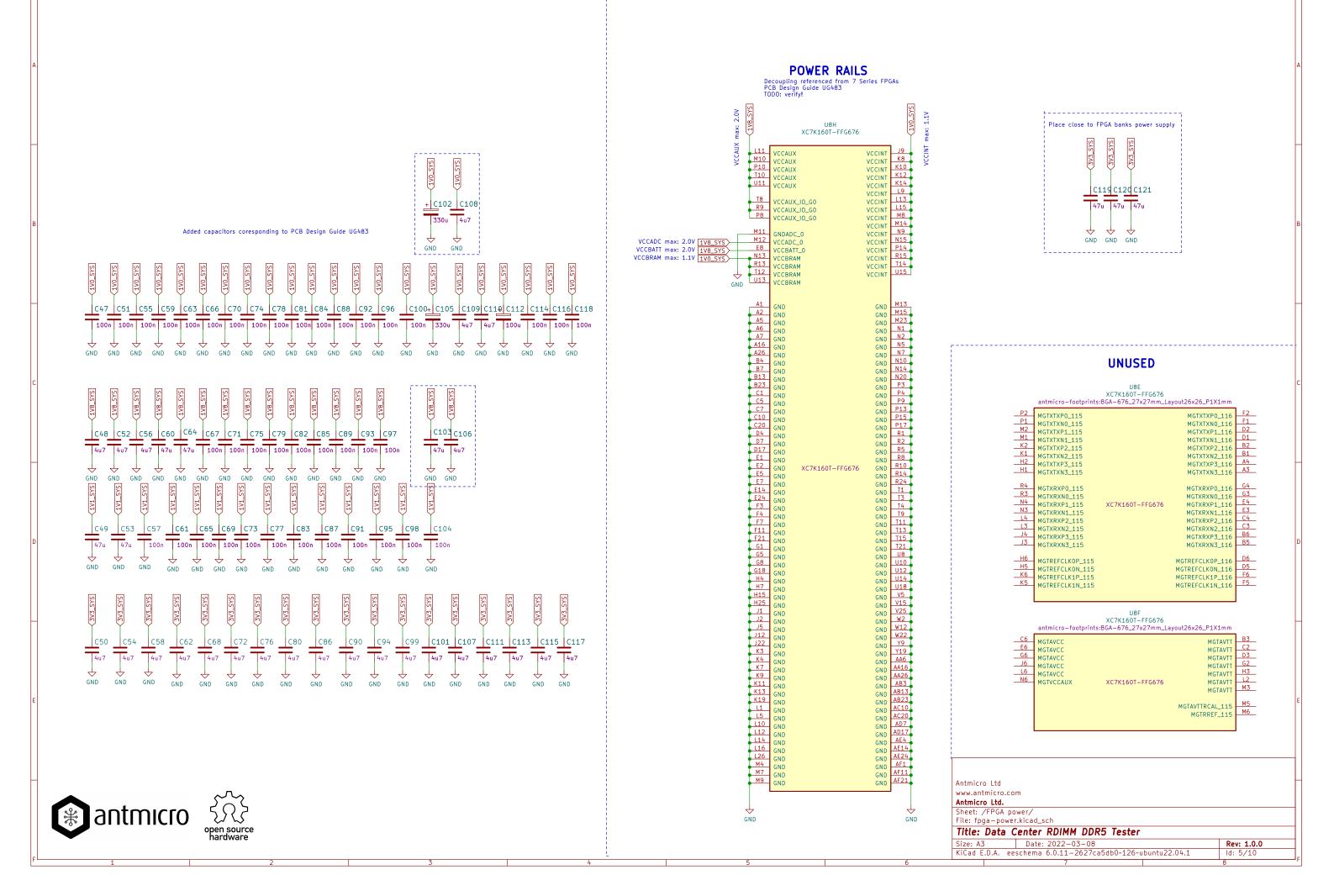


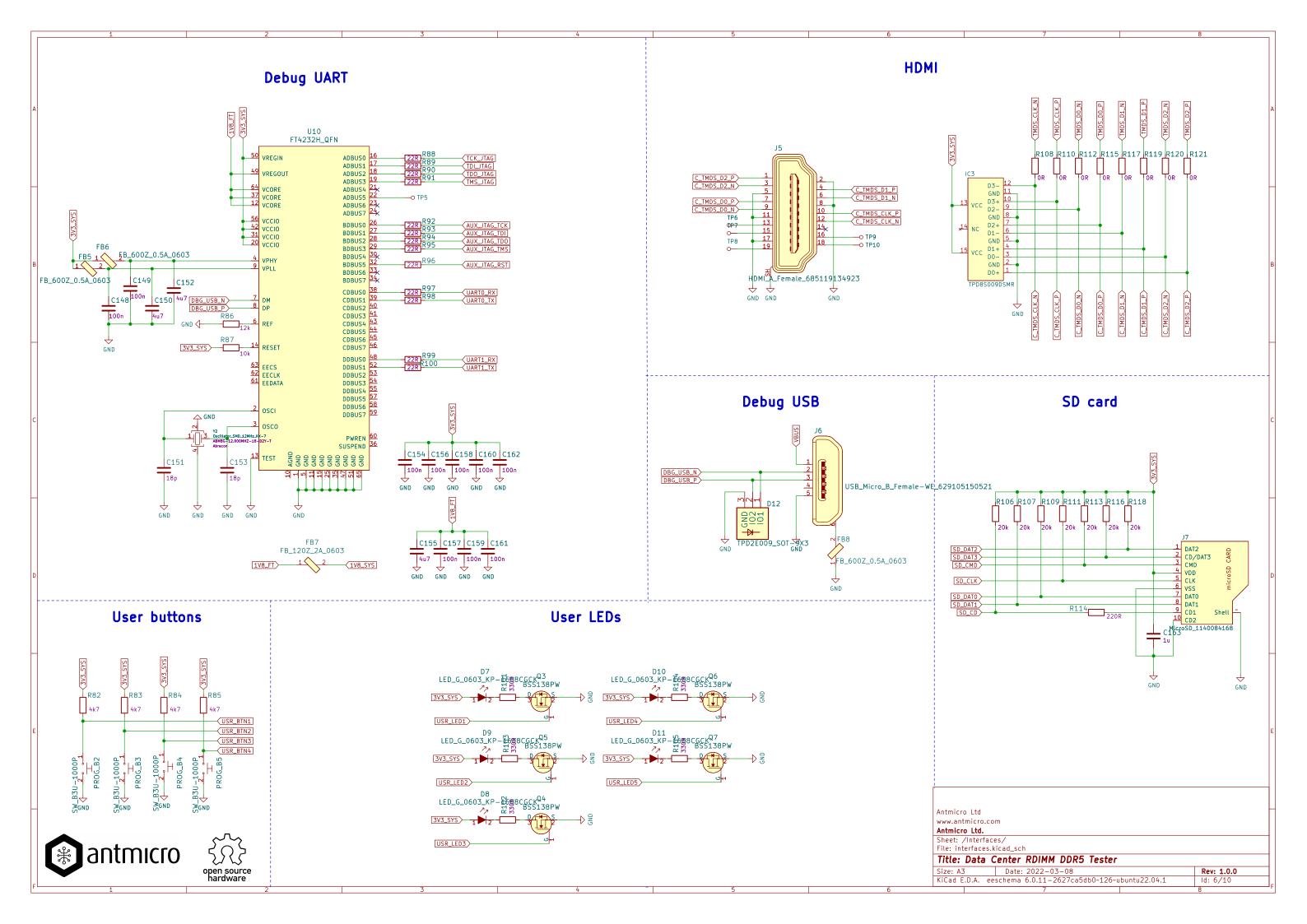
Antmicro Ltd www.antmicro.com Antmicro Ltd. Sheet: /DDR5/ File: DDR5.kicad_sch

Title: Data Center RDIMM DDR5 Tester

 Size: A3
 Date: 2022-03-08

 KiCad E.D.A. eeschema 6.0.11-2627ca5db0-126-ubuntu22.04.1
 Rev: 1.0.0



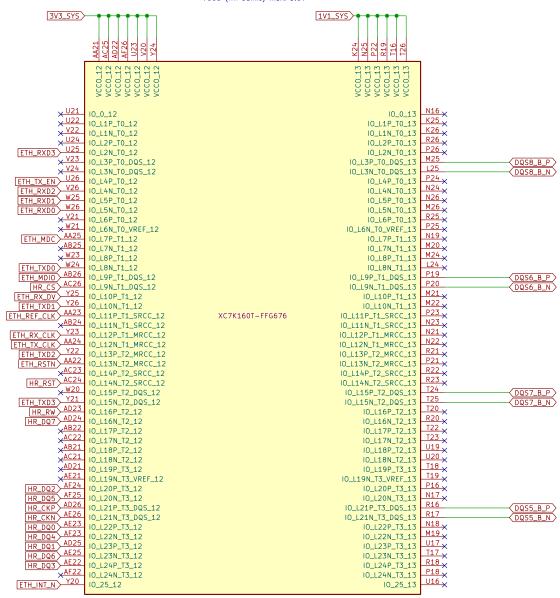


BANK 12 **BANK 13**

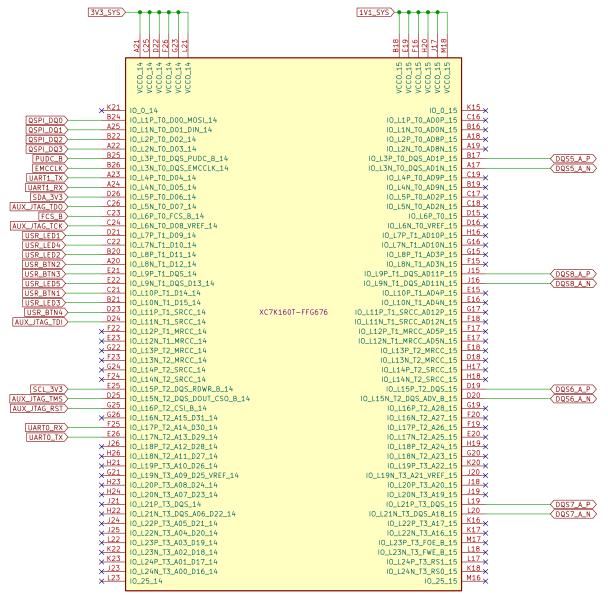
BANK 14

BANK 15

VCCO (HR banks) max: 3.6V



U8A XC7K160T-FFG676 antmicro-footprints:BGA-676_27x27mm_Layout26x26_P1X1mm VCCO (HR banks) max: 3.6V



XC7K160T-FFG676 antmicro-footprints:BGA-676_27x27mm_Layout26x26_P1X1mm

* antmicro



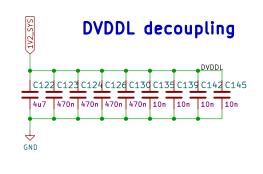
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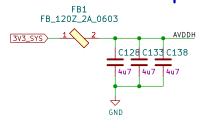
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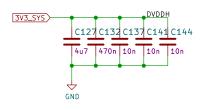
Size: A3 Date: 2022-03-08
KiCad E.D.A. eeschema 6.0.11-2627ca5db0-126-ubuntu22.04.1 Rev: 1.0.0



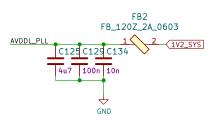
AVDDH decoupling



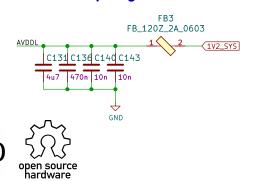
DVDDH decoupling



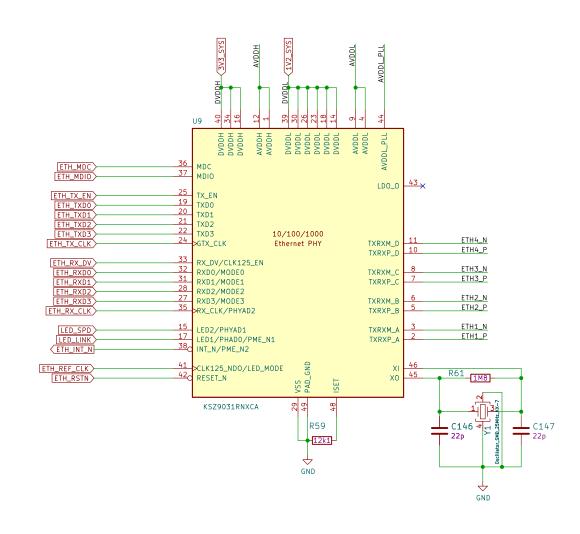
AVDDL_PLL decoupling



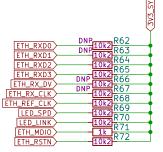
AVDDL decoupling



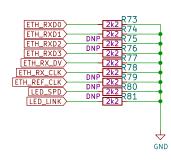
PHY



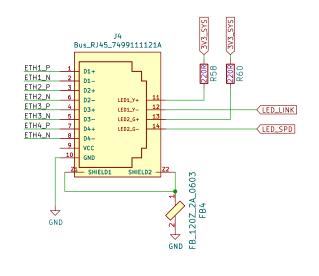
Pull up resistors



Pull down resistors



RJ45 Connector



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Sheet: /Ethernet/
File: ethernet.kicad_sch

Title: Data Center RDIMM DDR5 Tester

 Size: A3
 Date: 2022-03-08
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 Id: 8/10

