



Enclustra User Schematics

Mercury XU8 Revision 2.1

Disclaimer

User schematics do not include proprietary Enclustra design elements, such as power supply circuits. These circuits use optimized designs which are extremely compact and remain proprietary to Enclustra. The user manual provides all necessary information to use the module and its interfaces.

User schematics are provided after purchase of Enclustra hardware, and may also be provided in certain cases before purchase, to assist in product evaluation.

No part of the schematics may be copied or modified without written permission from Enclustra.

Full schematics, including a full bill-of-materials, may be available through the purchase of a hardware licence for the product in question.

Please contact Enclustra Sales for more information.

Note: DNE = Do Not Equip (parts not equipped by default)

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D

C

B

A

D

C

B

A

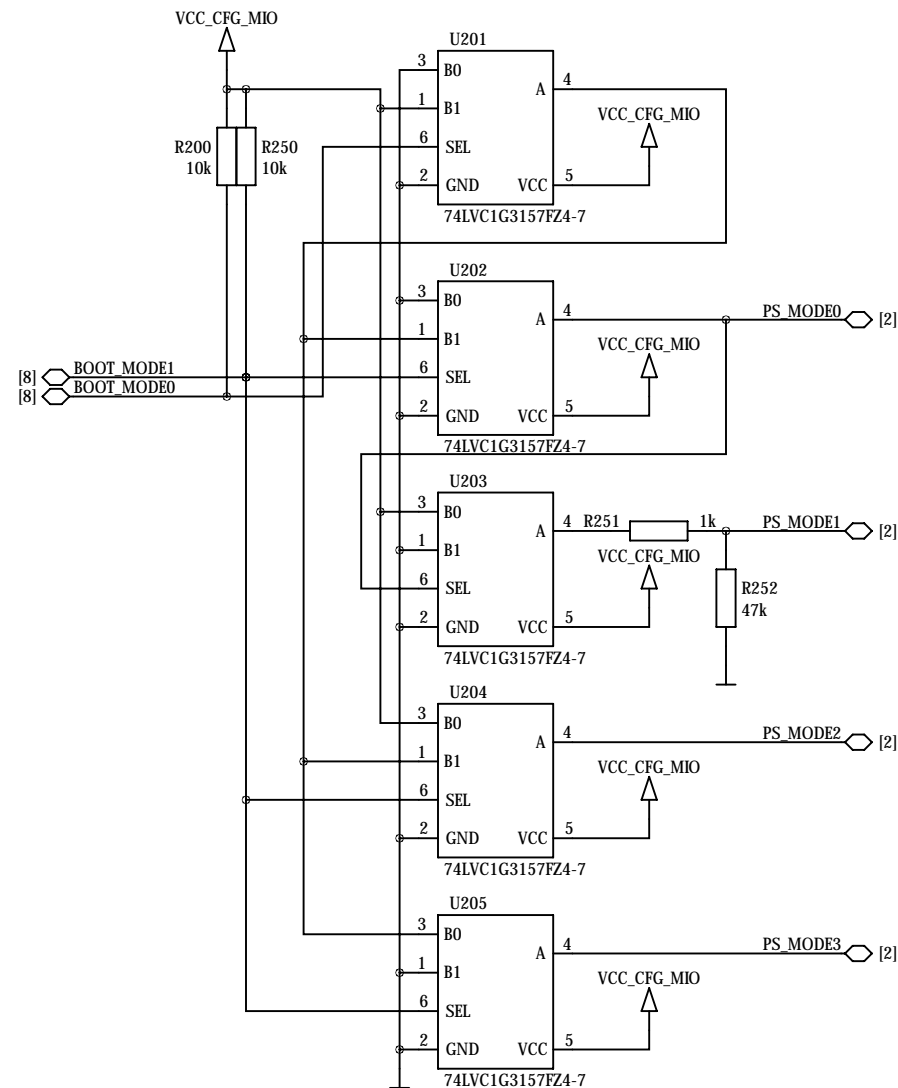
Mercury+ XU8 SoC Module

Revision 2.1

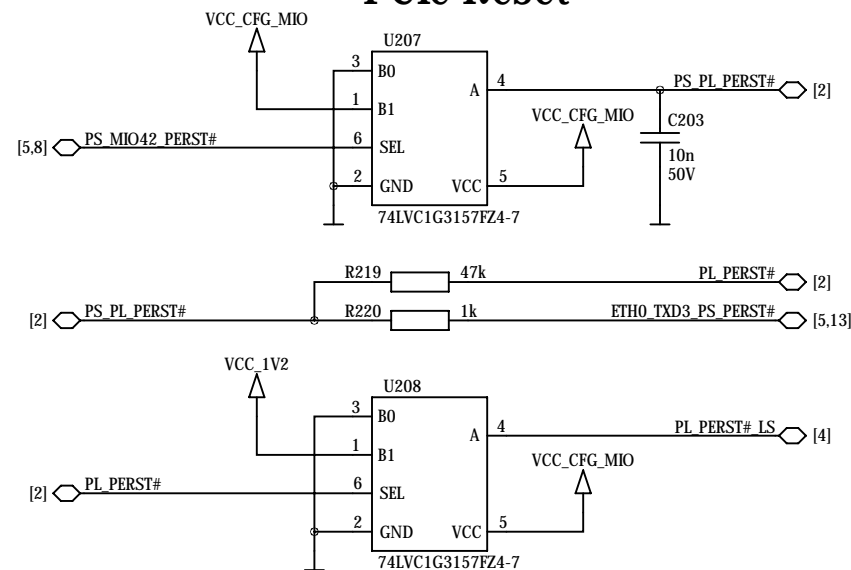
- Sheet 1: Cover
- Sheet 2: SoC FPGA Configuration
- Sheet 3: SoC FPGA MGT Banks | User LEDs
- Sheet 4: SoC FPGA IO Banks
- Sheet 5: SoC FPGA PS Banks
- Sheet 6: SoC FPGA Power
- Sheet 7: Power Decoupling
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- Sheet 11: PS DDR4 SDRAM Bytes 4-8 (ECC)

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- Sheet 18: Power 0.85V/0.9V | 0.9V | 2.5V | VTT
- Sheet 19: Power 1.8V | 0.85V
- Sheet 20: Mechanics
- Sheet 21: Assembly Variants 1
- Sheet 22: Assembly Variants 2

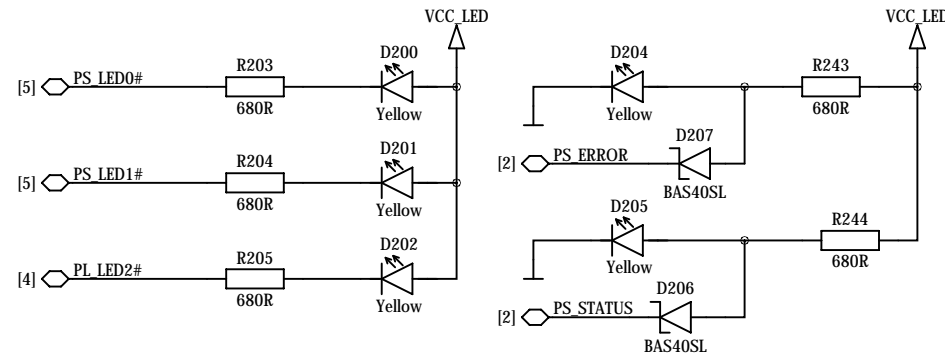
Boot Mode Selection



PCIe Reset



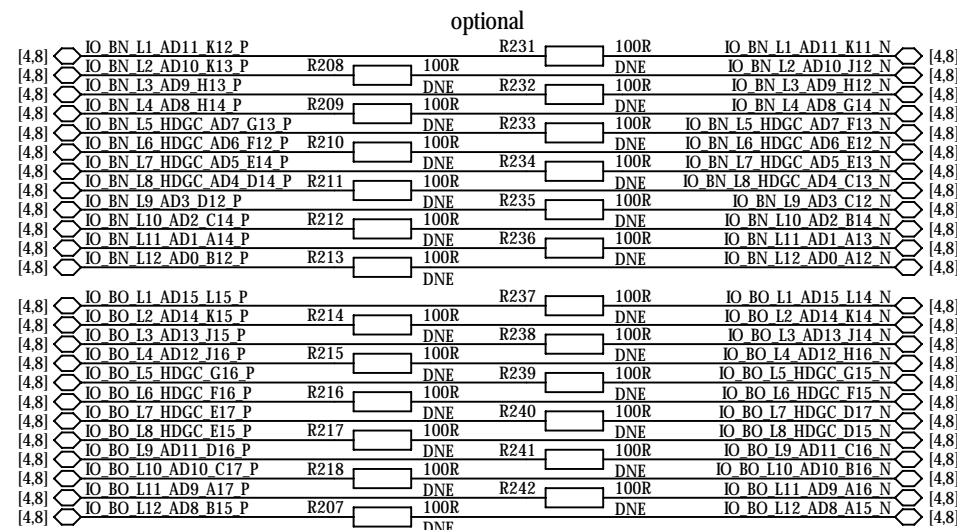
User LEDs



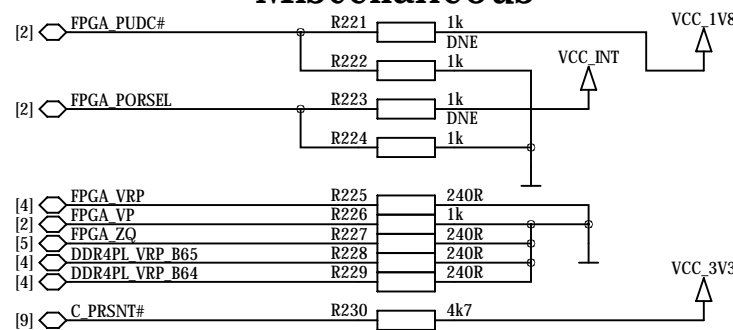
LED Power

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HD Bank Termination



Miscellaneous

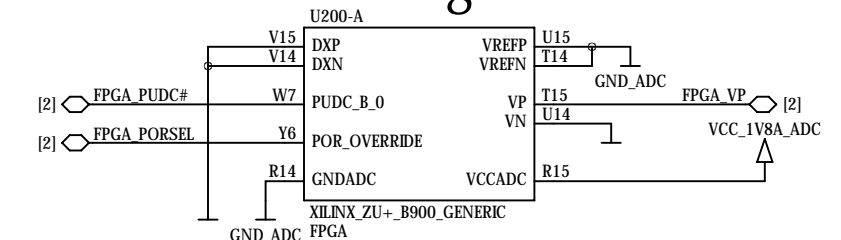


Boot Modes

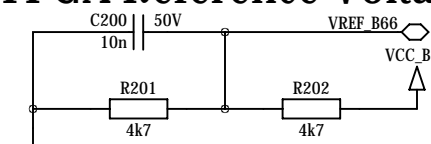
	Boot Mode		Mode Straps	Configuration	
	1	0	PS_MODE	PL Boot	PS Boot
eMMC Mode	0	0	0110	PS	eMMC
SD Mode <small>LS</small> <small>not supported</small>	0	1	1110	PS	SDIO <small>with level shifter</small>
QSPI Mode	1	0	0010	PS	QSPI
SD Mode <small>default</small>	1	1	0101	PS	SDIO
JTAG Mode (*)	1	0	0000	PS	JTAG

SD Mode LS mode may be supported in the future. It requires VCC_CFG_MIO of 1.8V.
(*) Short-circuit R252 to enable JTAG mode

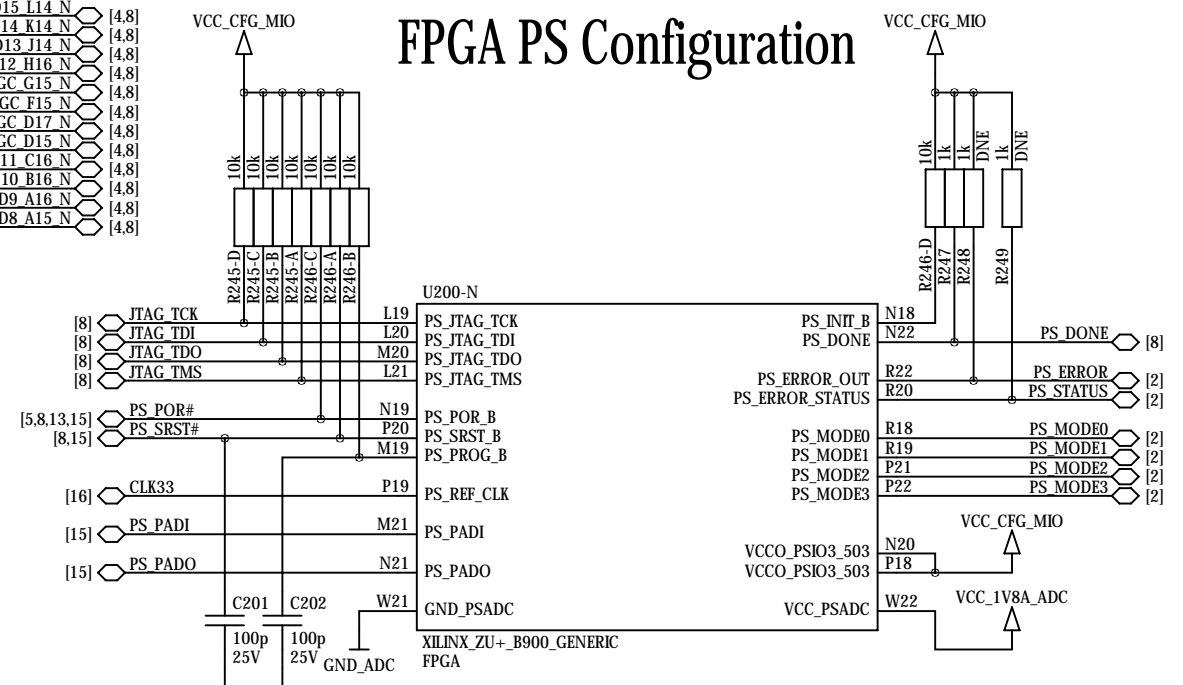
FPGA Configuration



FPGA Reference Voltage

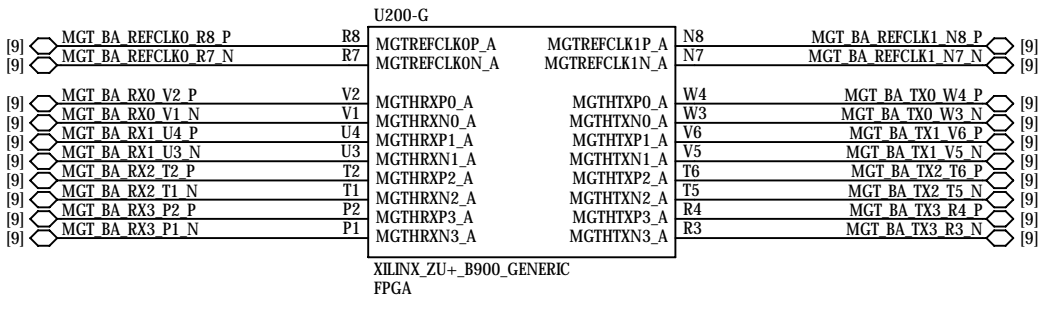


FPGA PS Configuration



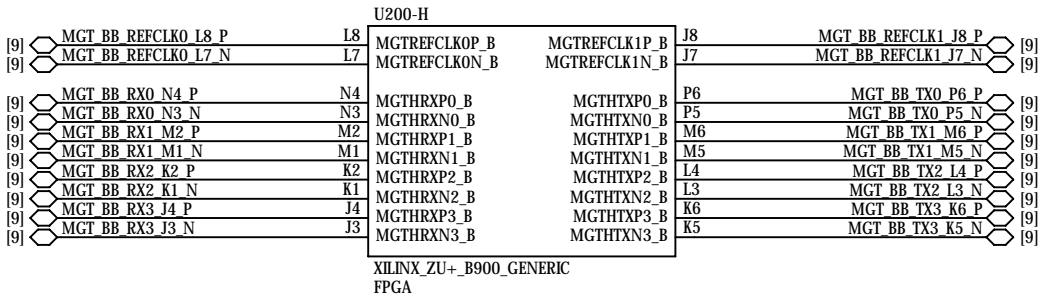
FPGA MGT Bank A

Bank 223 on ZU4/ZU5 | Bank 224 on ZU7



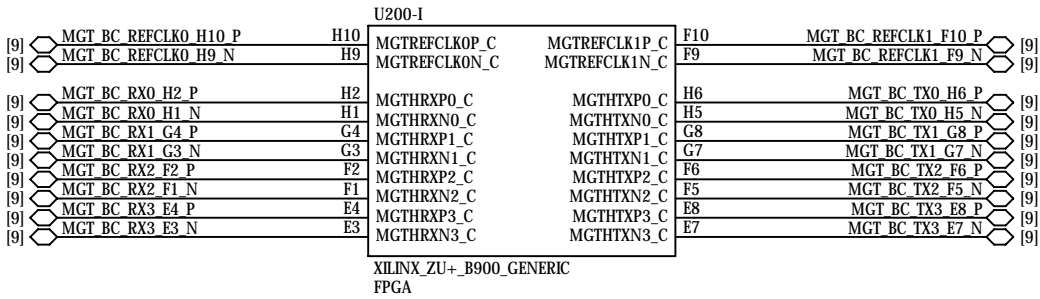
FPGA MGT Bank B

Bank 224 on ZU4/ZU5 | Bank 225 on ZU7



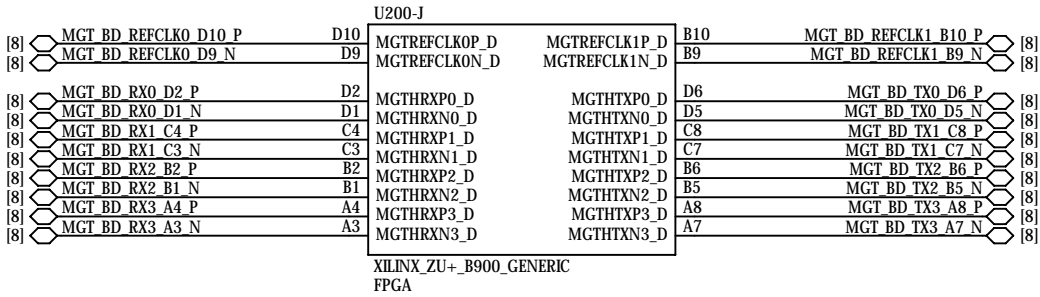
FPGA MGT Bank C

Bank 225 on ZU4/ZU5 | Bank 226 on ZU7

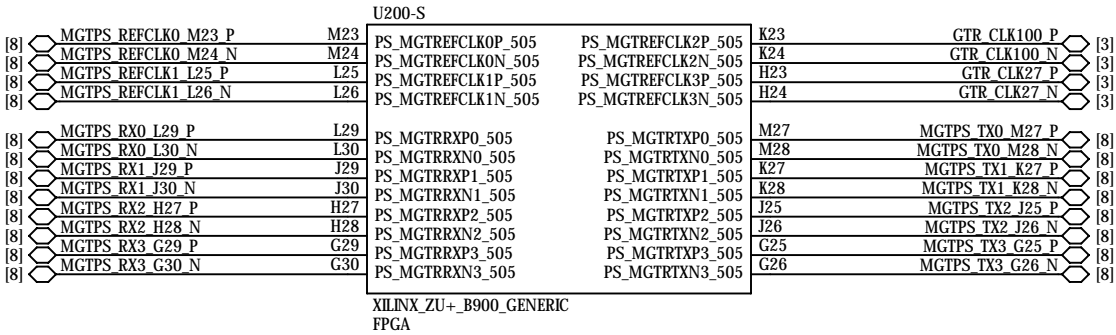


FPGA MGT Bank D

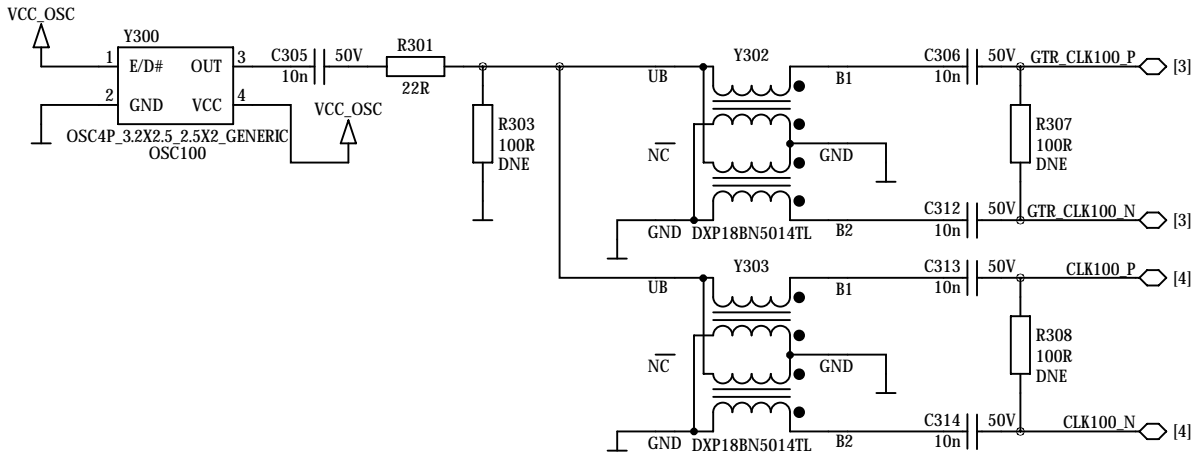
Bank 226 on ZU4/ZU5 | Bank 227 on ZU7



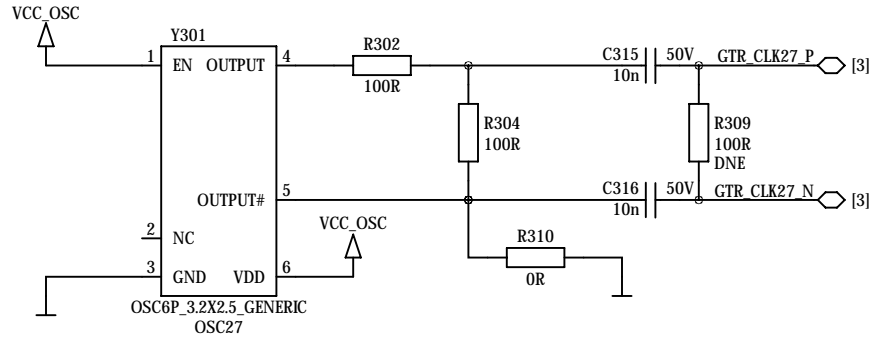
FPGA PS GTR Bank 505



GTR/PL 100 MHz Oscillator



GTR 27 MHz Oscillator



GTR Oscillator Power Filters

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D

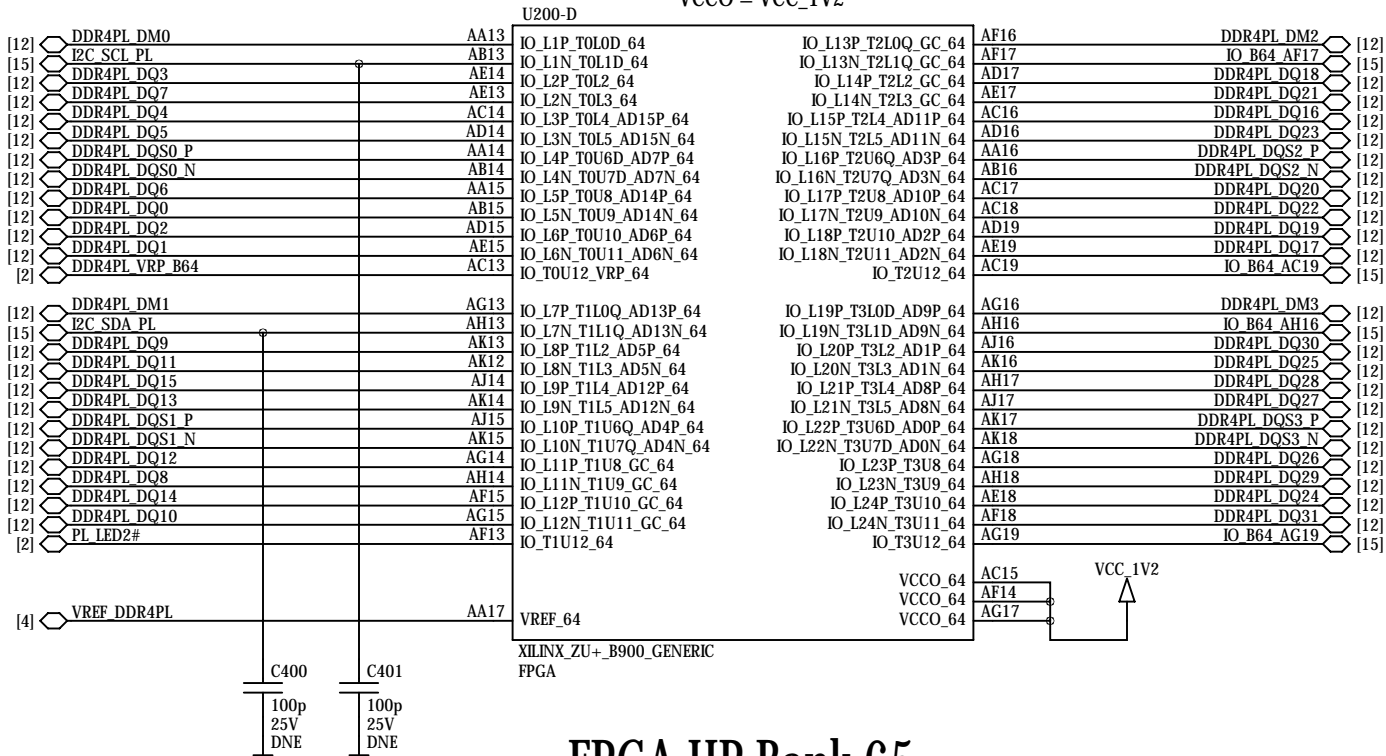
C

B

A

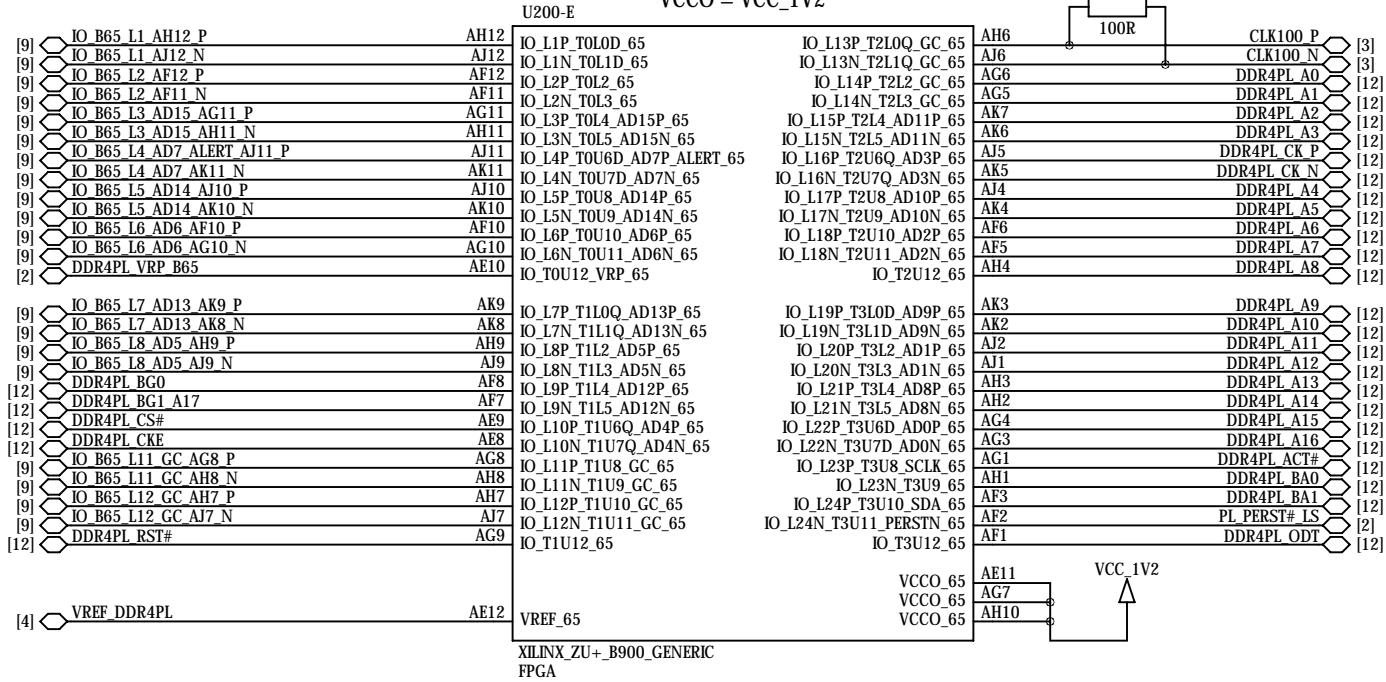
FPGA HP Bank 64

VCCO = VCC_1V2



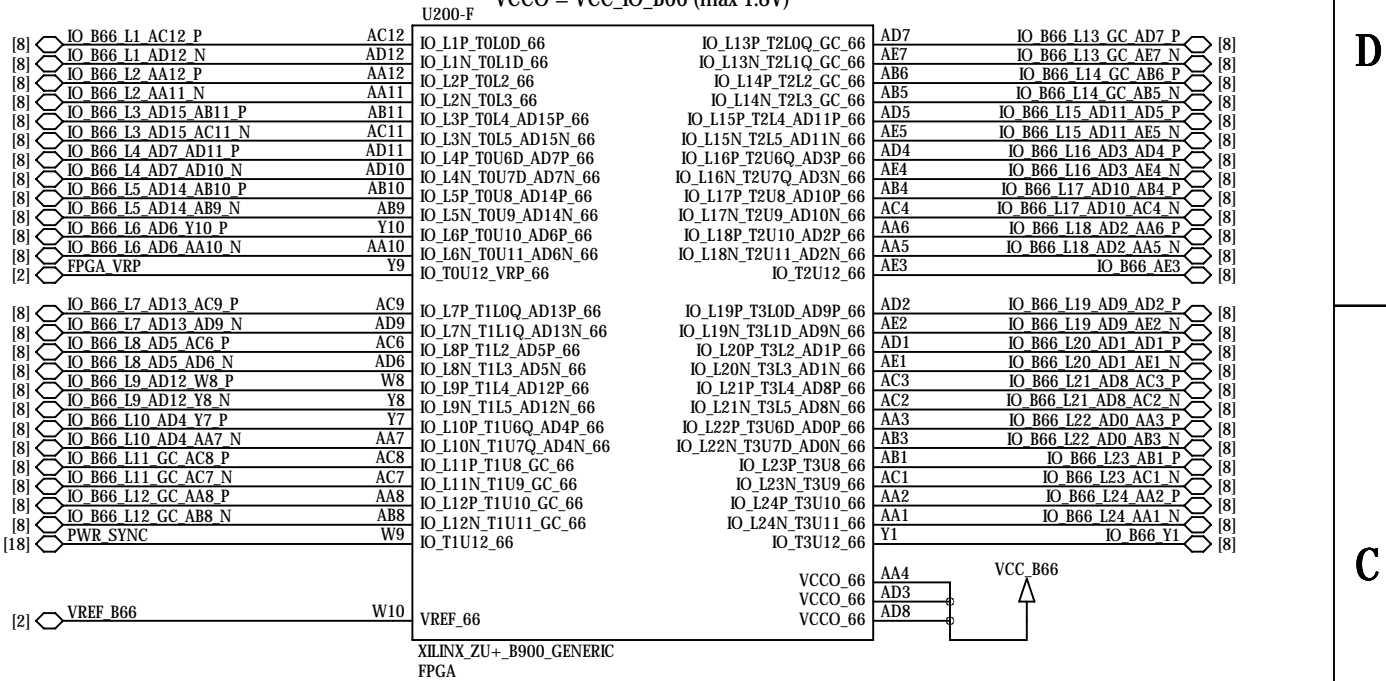
FPGA HP Bank 65

VCCO = VCC_1V2



FPGA HP Bank 66

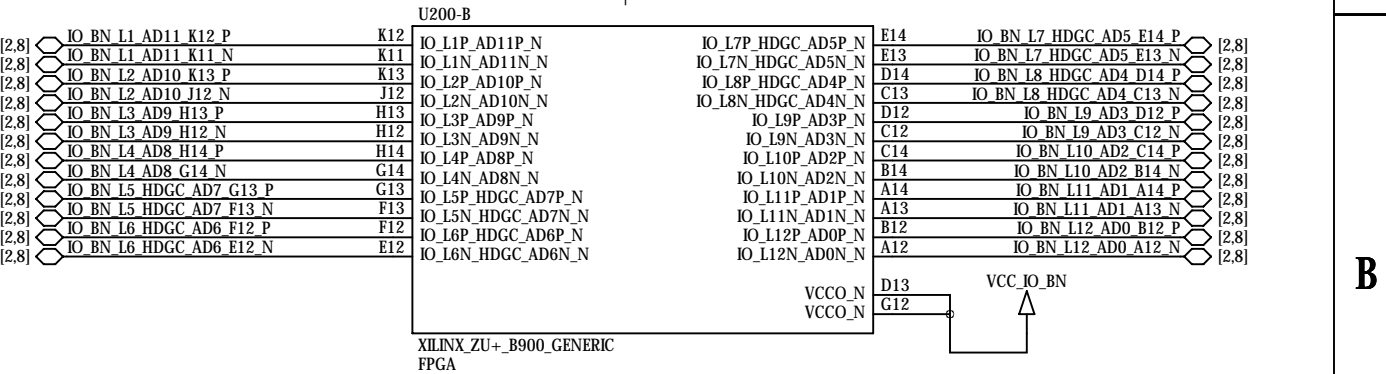
VCCO = VCC_IO_B66 (max 1.8V)



FPGA HD Bank N

VCCO = VCC_IO_BN (max 3.3V)

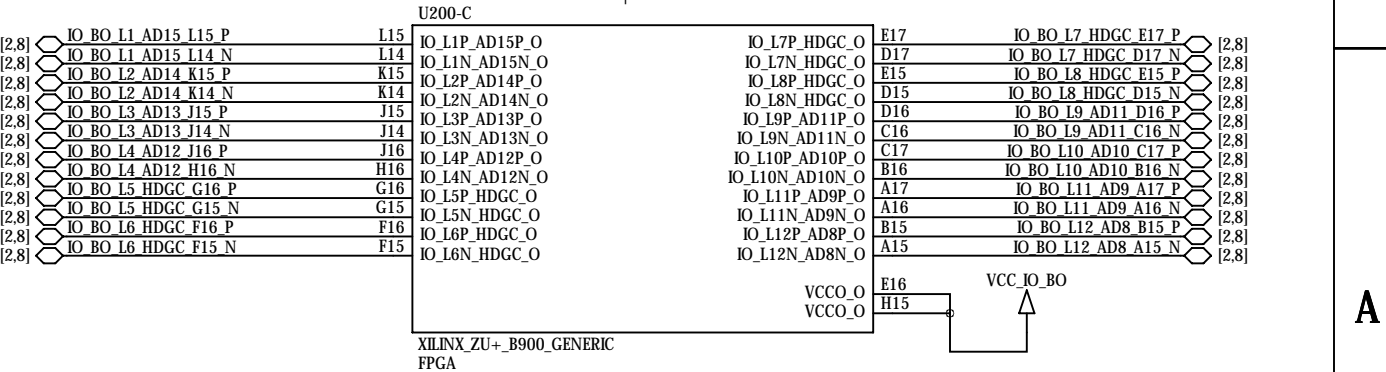
Bank 46 on ZU4/ZU5 | Bank 47 on ZU7



FPGA HD Bank O

VCCO = VCC_IO_BO (max 3.3V)

Bank 45 on ZU4/ZU5 | Bank 48 on ZU7



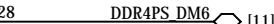
VCCO = VCC_1V2



VCCO = VCC_1V8



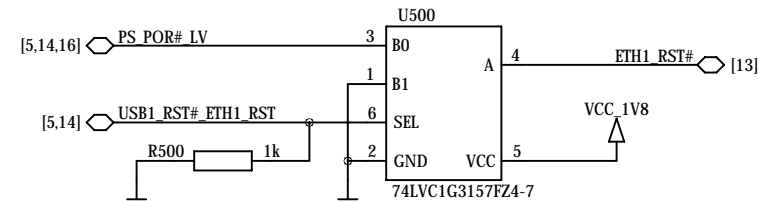
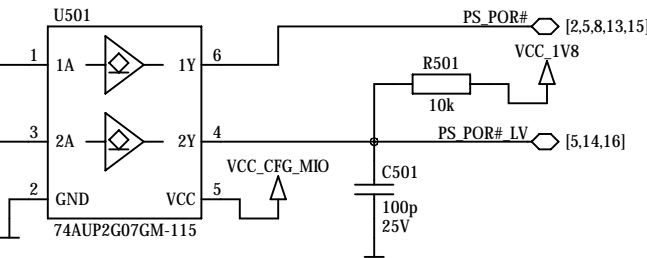
VCCO = VCC_CFG_MIO



VCCO = VCC_1V8



default is ETH1 enabled, USB1 in reset



6

5

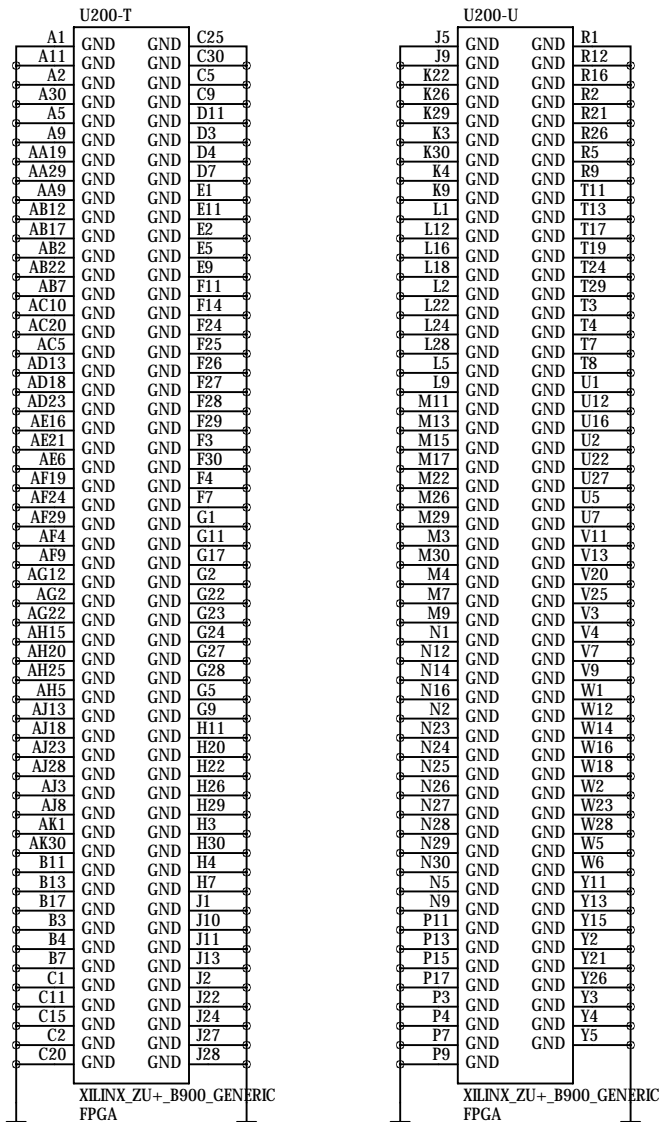
4

3

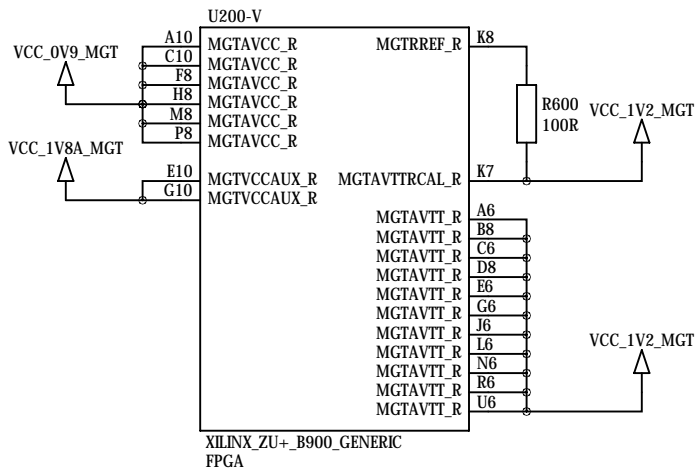
2

1

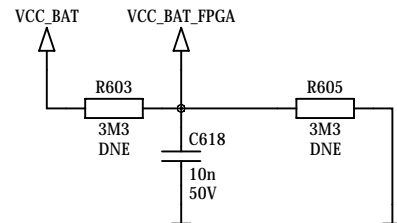
FPGA Ground



FPGA MGT Power



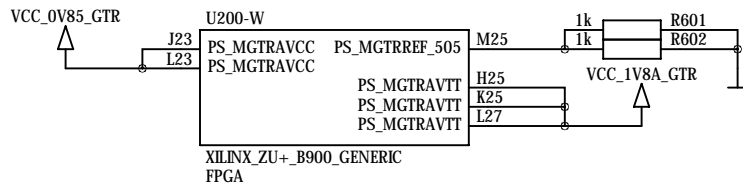
FPGA Battery Voltage



ADC Power

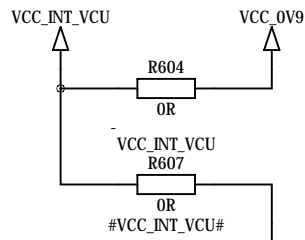
not included in user schematics

FPGA GTR Power

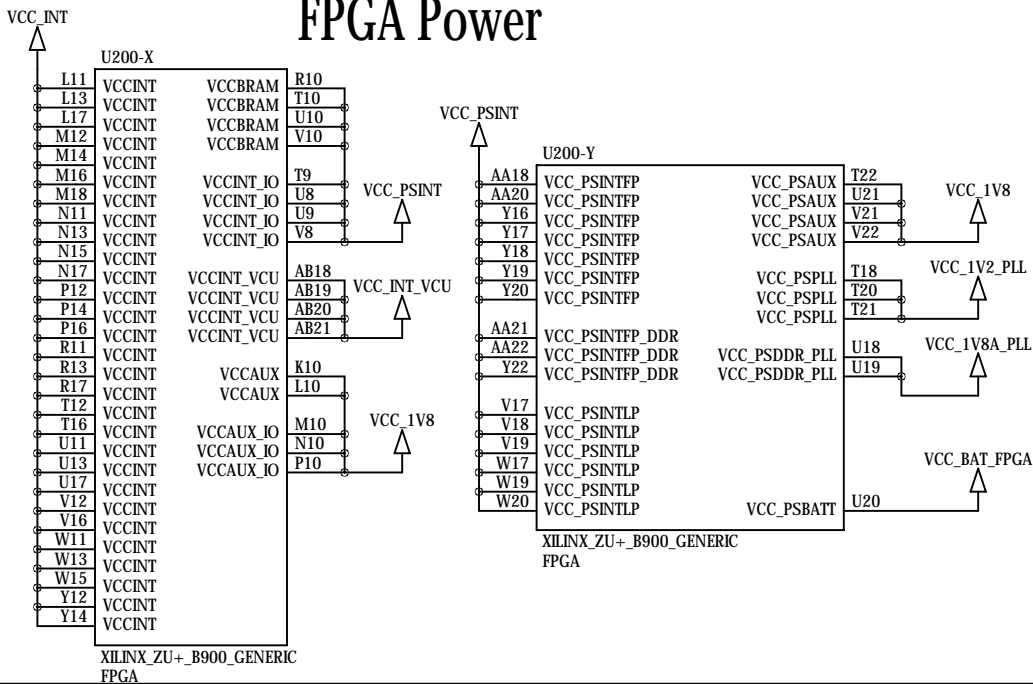


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FPGA Power



FPGA Power



MGT Power Filters

not included in user schematics

PLL and GTR Power Filters

not included in user schematics

6

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FPGA Decoupling

not included in user schematics

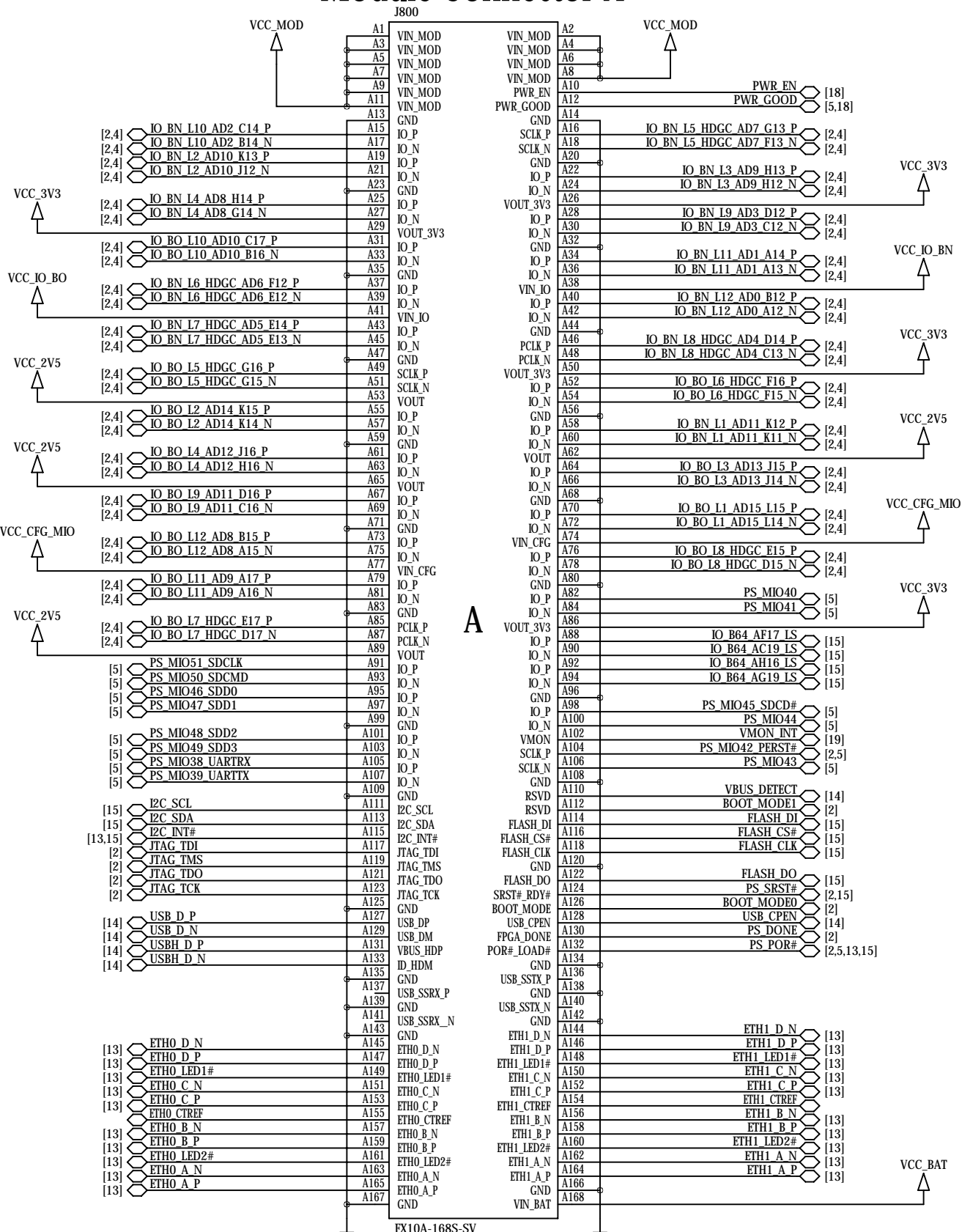
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Power Decoupling

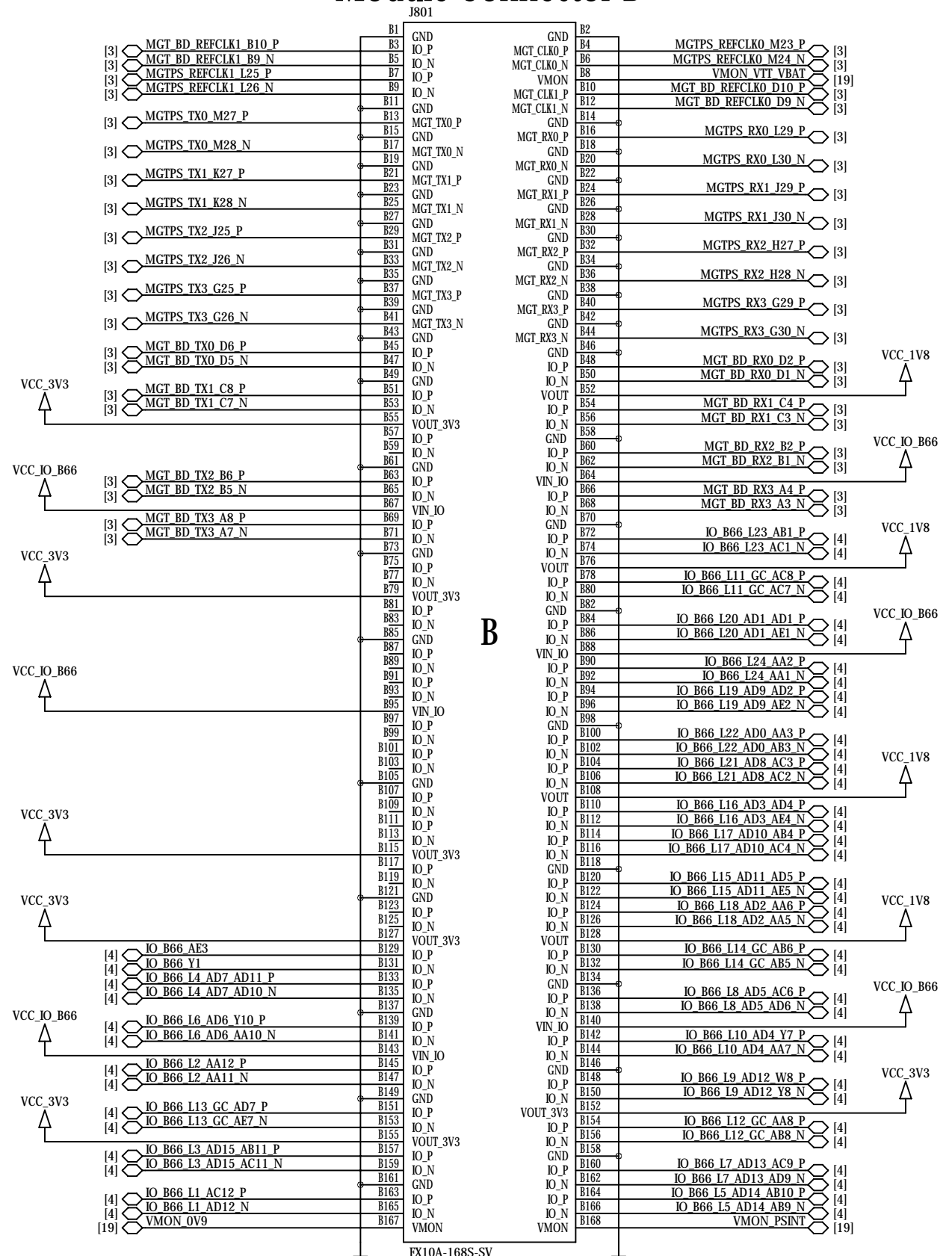
not included in user schematics

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Module Connector A

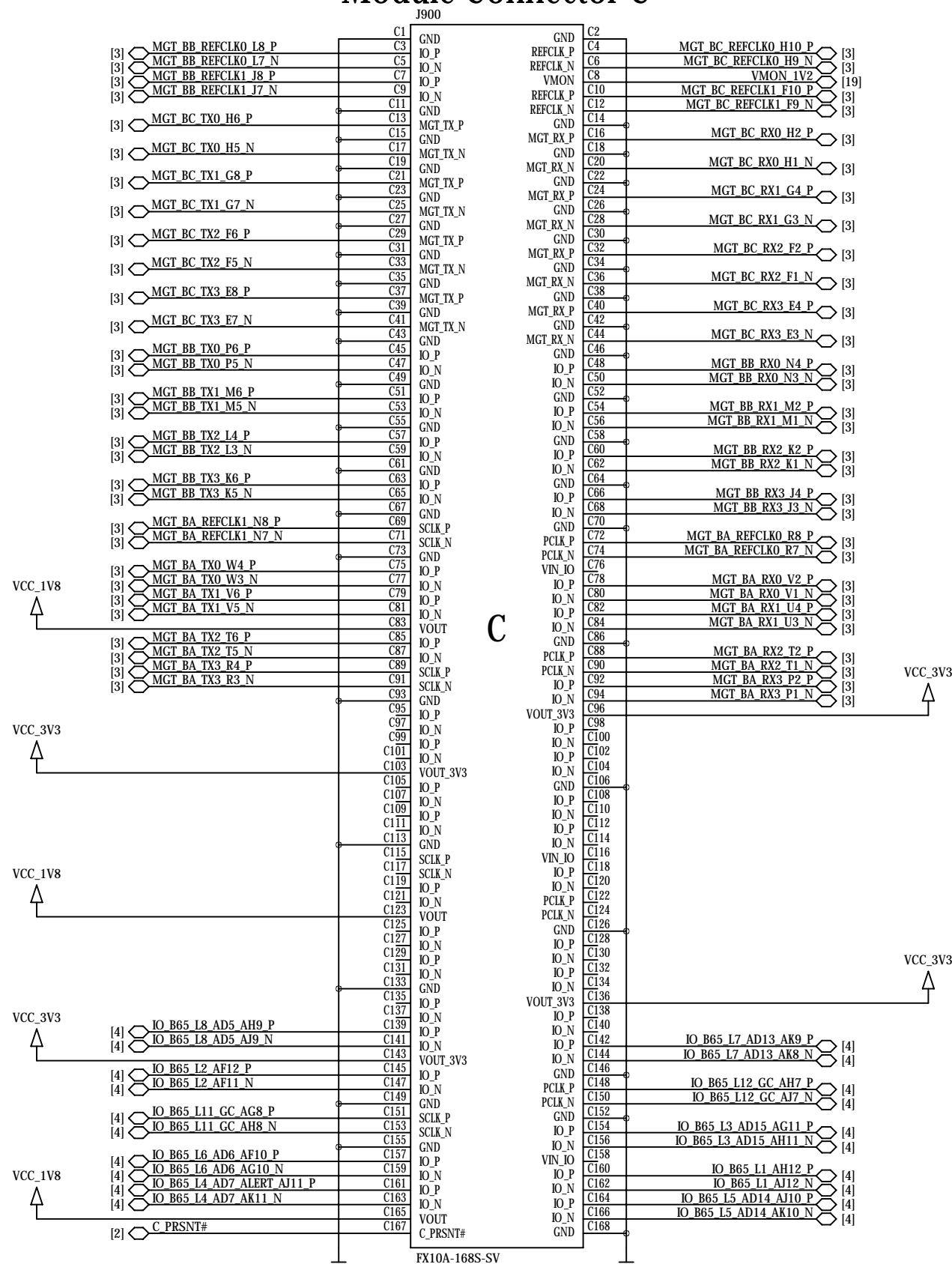


Module Connector B



Copyright	© 2019 by Enclustra GmbH	Sheet Name	08_MODULE_CONNECTORS_A_B	Customer No	0000	Revision	R2.1	DNE = do not equip	Confidential		
Company	Enclustra FPGA Solution Center	Project	Mercury+ XU8	Project No	466	Designed	MHEI	Date	17 Jan 2020	Sheet/sheets	8 / 22

Module Connector C



D

D

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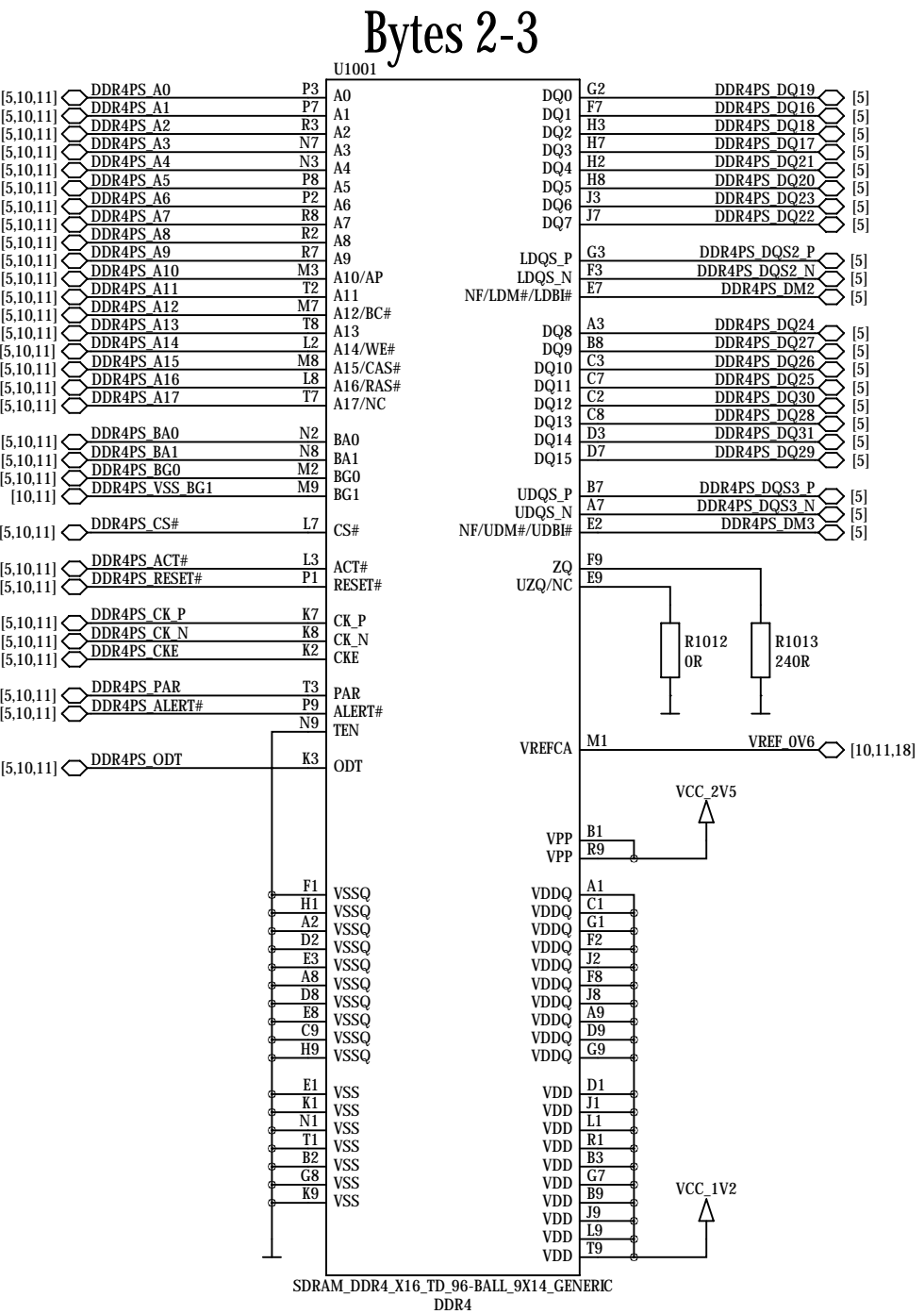
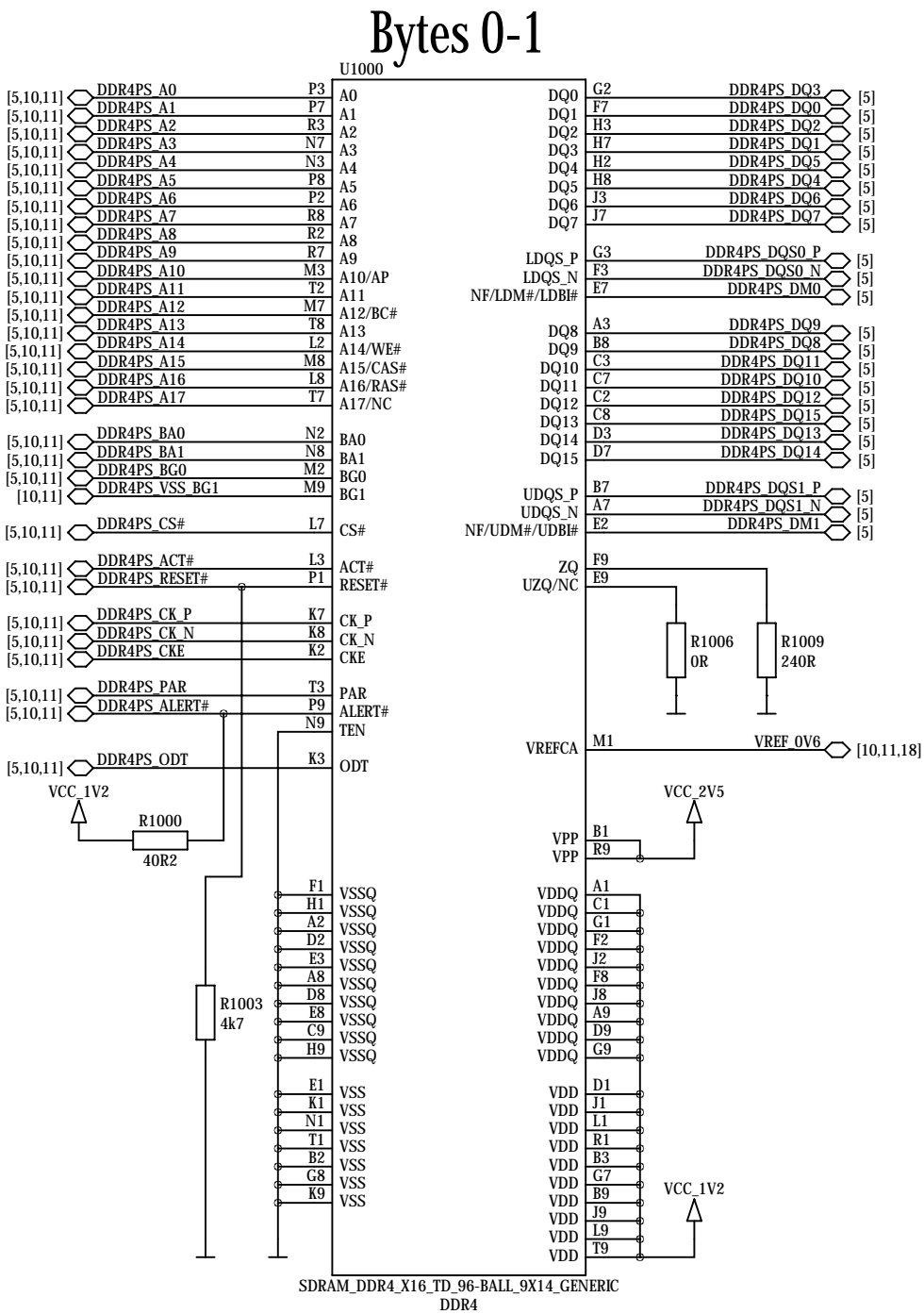
B

B

A

A

PS DDR4 SDRAM



DDR4 Termination
not included in user schematics

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D

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D

C

B

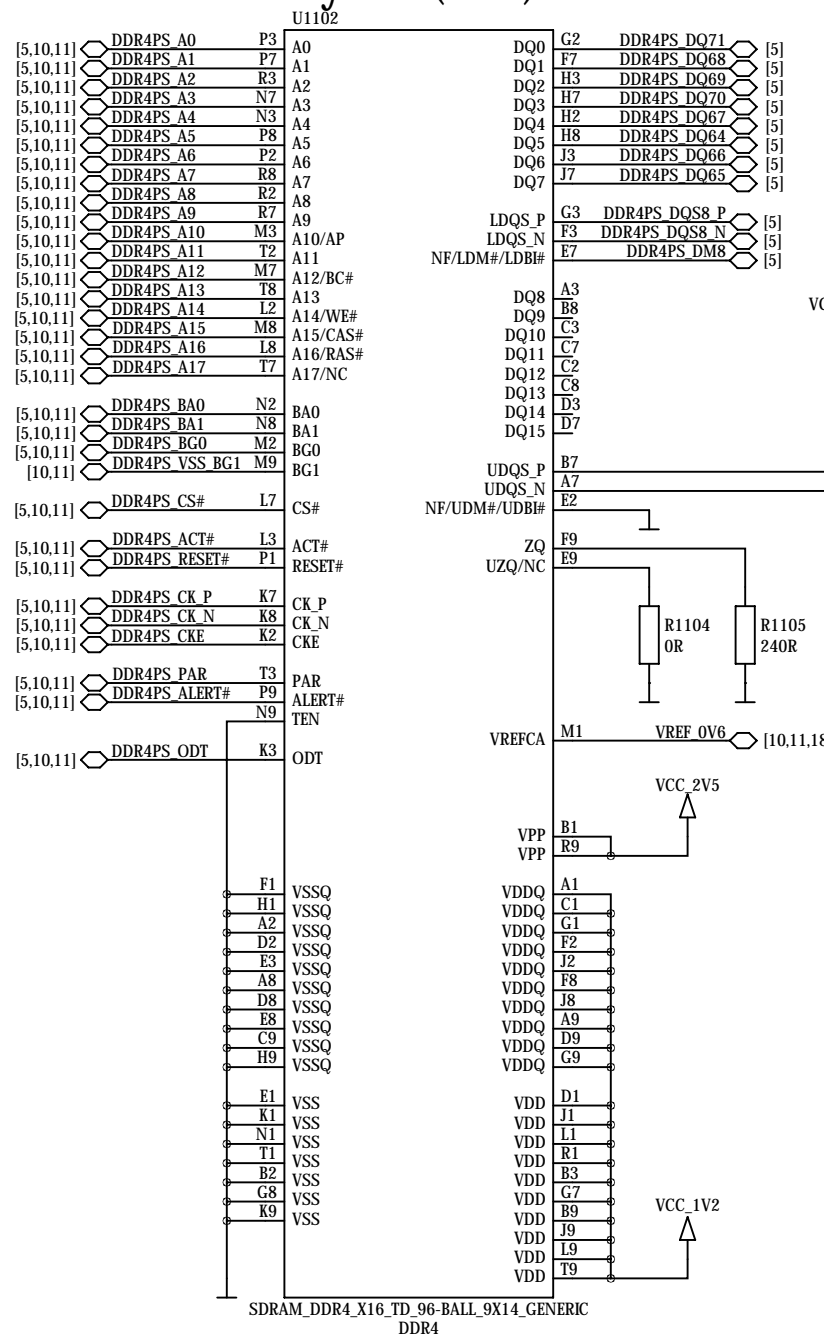
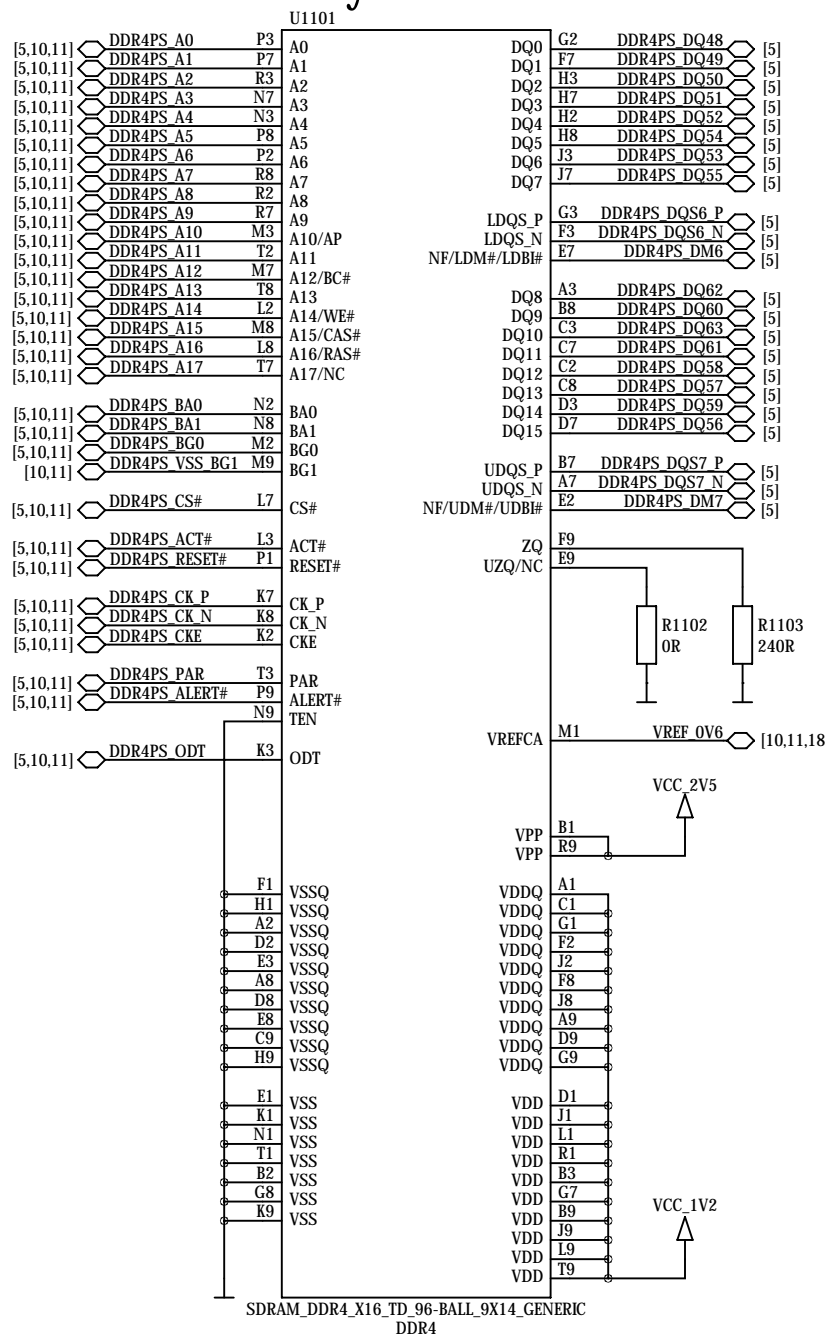
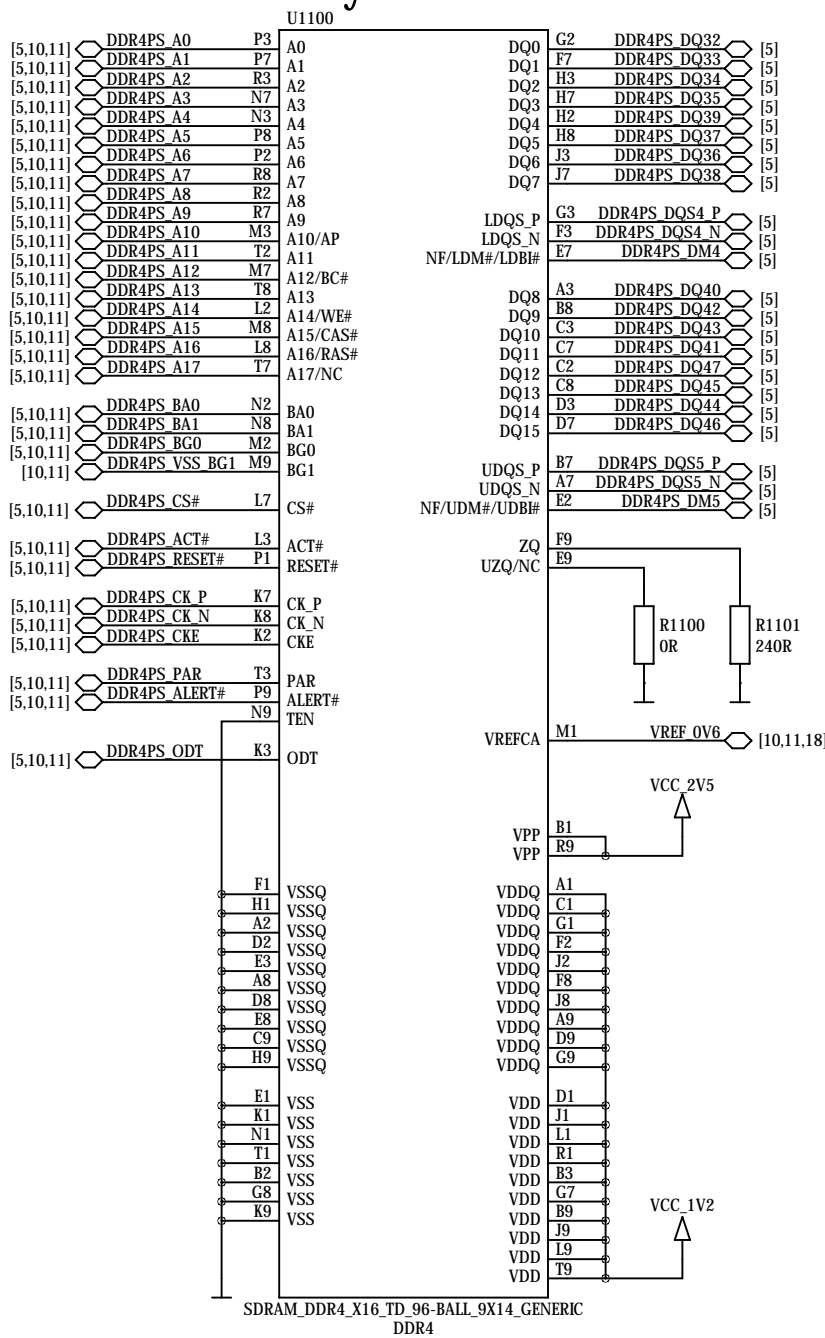
A

PS DDR4 SDRAM

Bytes 4-5

Bytes 6-7

Byte 8 (ECC)



DDR4 Decoupling
not included in user schematics

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D

D

C

C

B

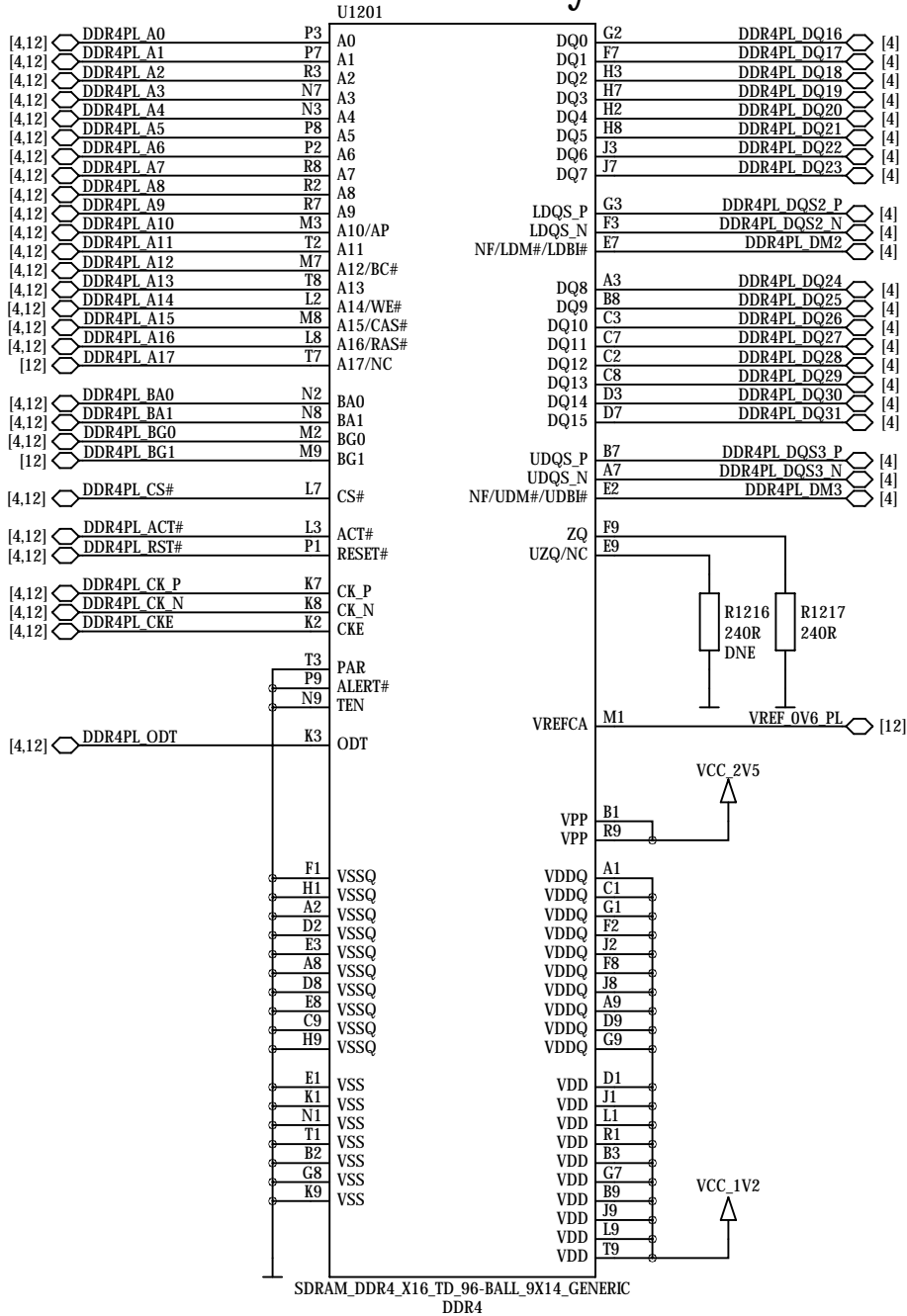
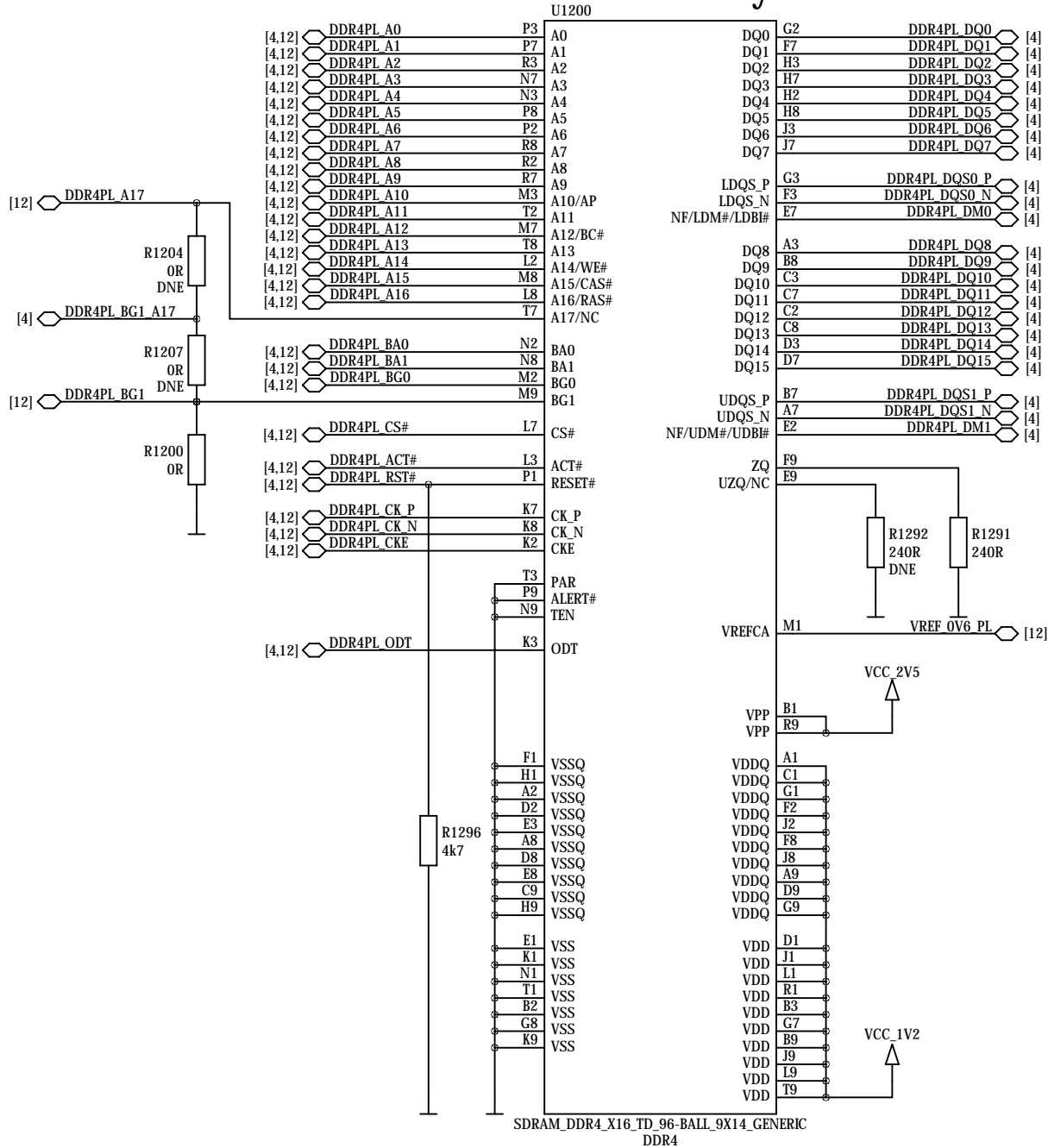
B

A

A

PL DDR4 SDRAM Bytes 0-1

PL DDR4 SDRAM Bytes 2-3



DDR4 Termination
not included in user schematics

PL DDR4 Reference Voltage
not included in user schematics

PL DDR4 Decoupling
not included in user schematics

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D

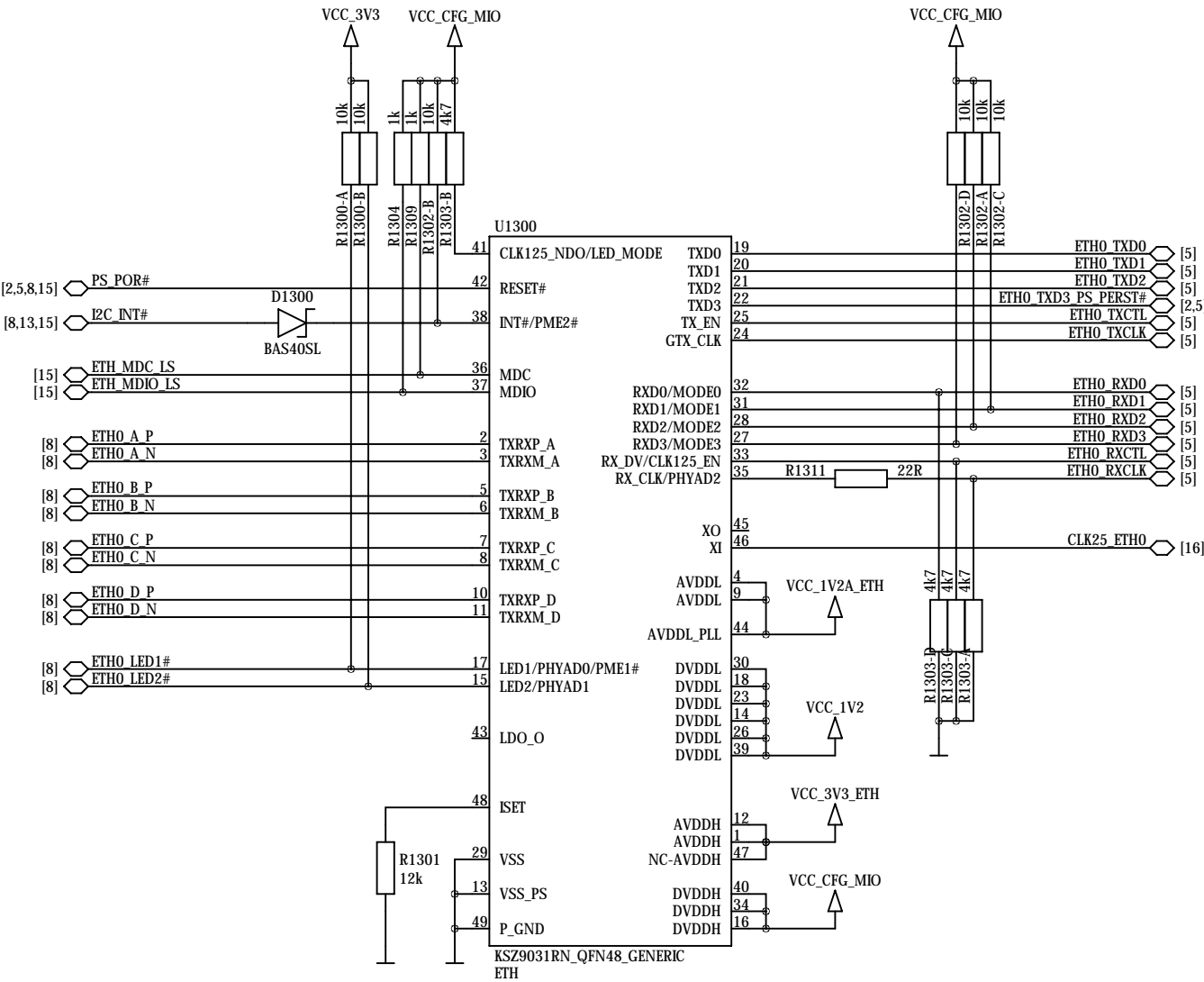
C

B

A

Gigabit Ethernet PHY 0

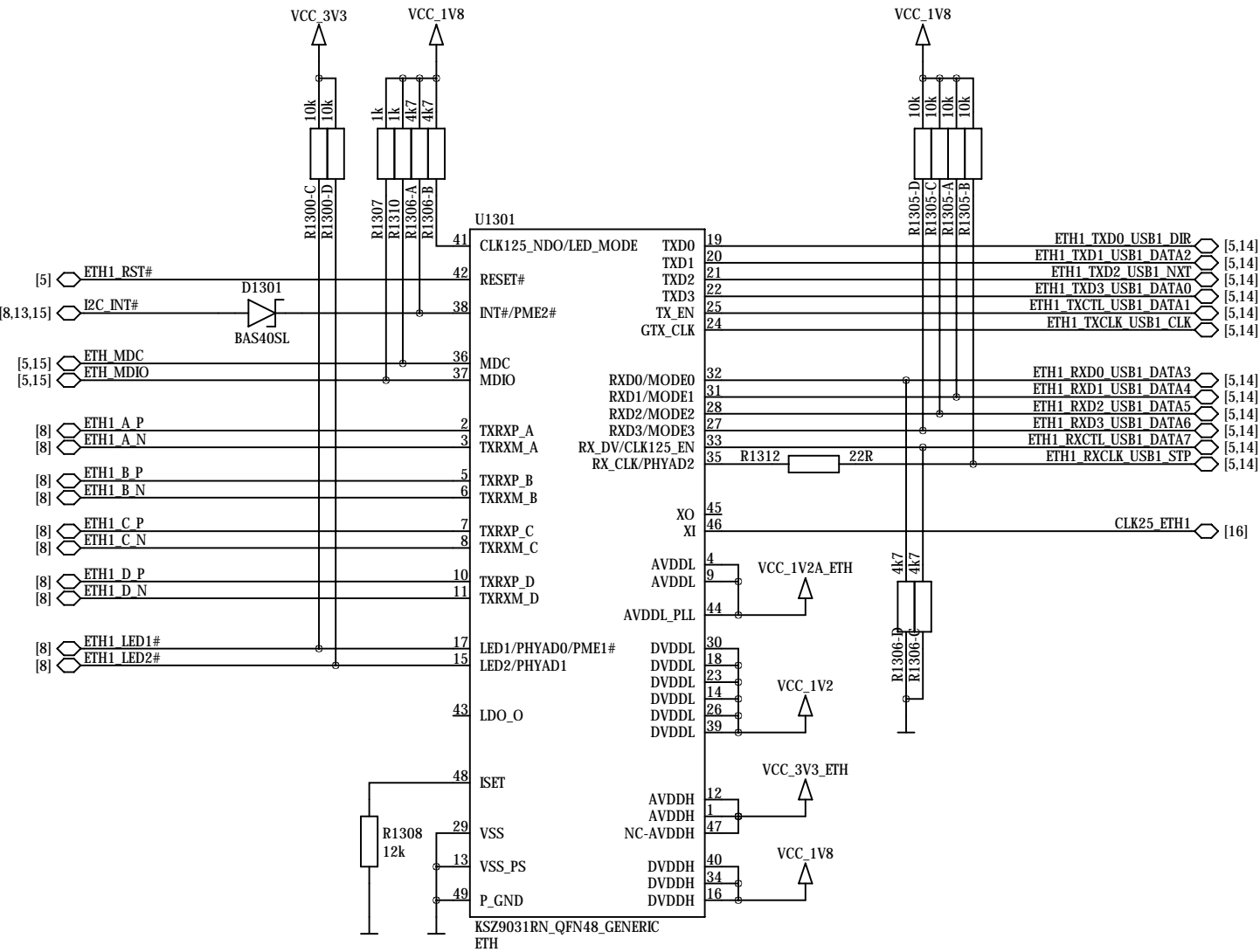
not available when using PS PCIe



MODE<3:0> = 1110 -> RGMII, all capabilities
LED_Mode Pull up = Single LED
PhyAddress <2:0> = 011 -> 3
LED1 and LED2 are active low

Gigabit Ethernet PHY 1

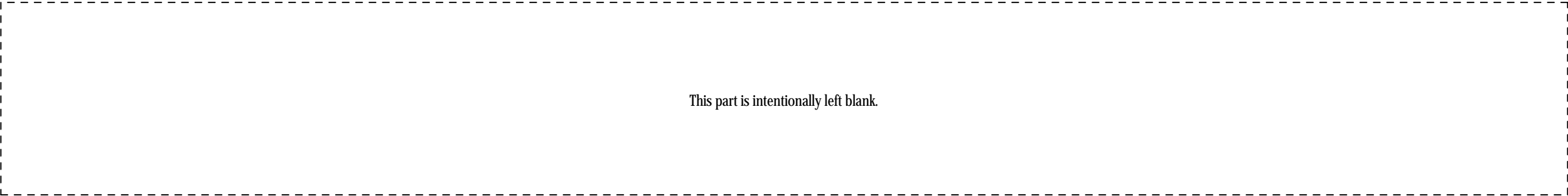
not available when using USB1



MODE<3:0> = 1110 -> RGMII, all capabilities
LED_Mode Pull up = Single LED
PhyAddress <2:0> = 111 -> 7
LED1 and LED2 are active low

Ethernet Power Filters

not included in user schematics



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D

C

B

A



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Company	Enclustra FPGA Solution Center	Project	Mercury+ XU8	Project No	466	Designed	MHEI	Date 17 Jan 2020	Sheet/sheets 13 / 22

D

C

B

A

D

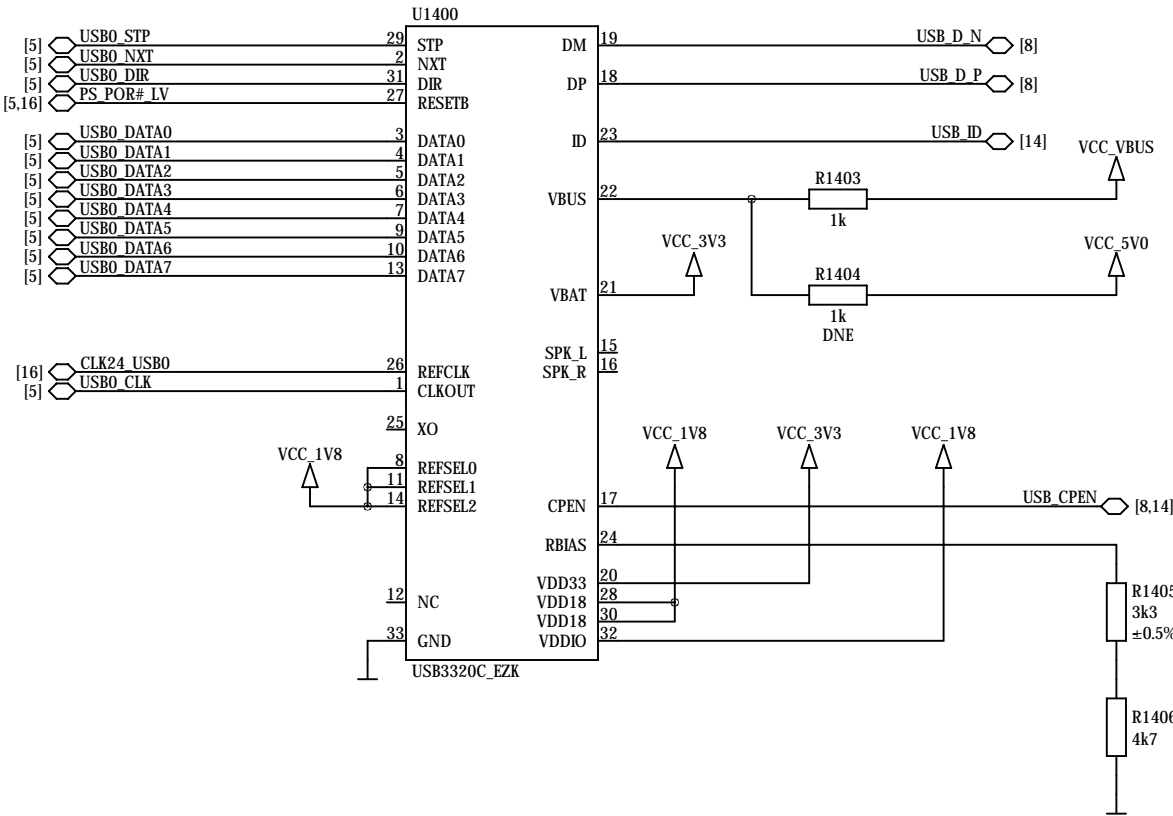
C

B

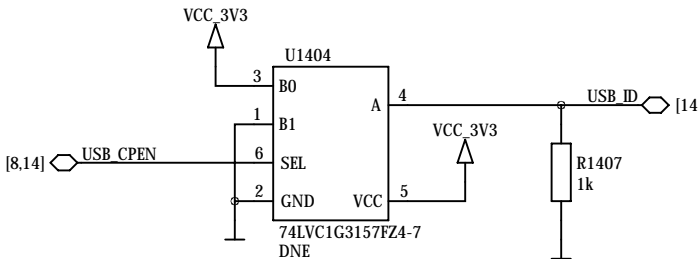
A

USB 2.0 Device/Host PHY 0

A-Device ID=GND, B-Device ID=Float, Not Used ID=VDD33

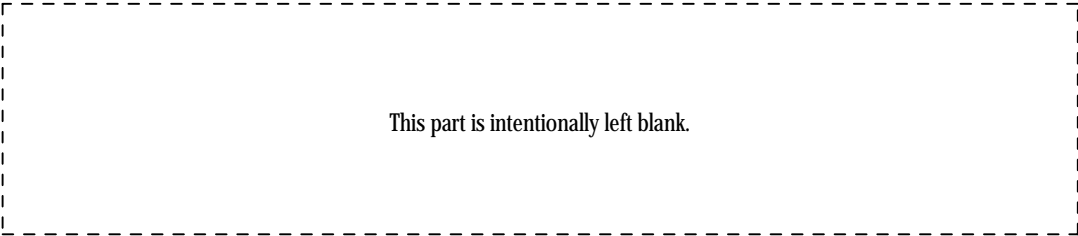


USB 2.0 Host/Device Mode



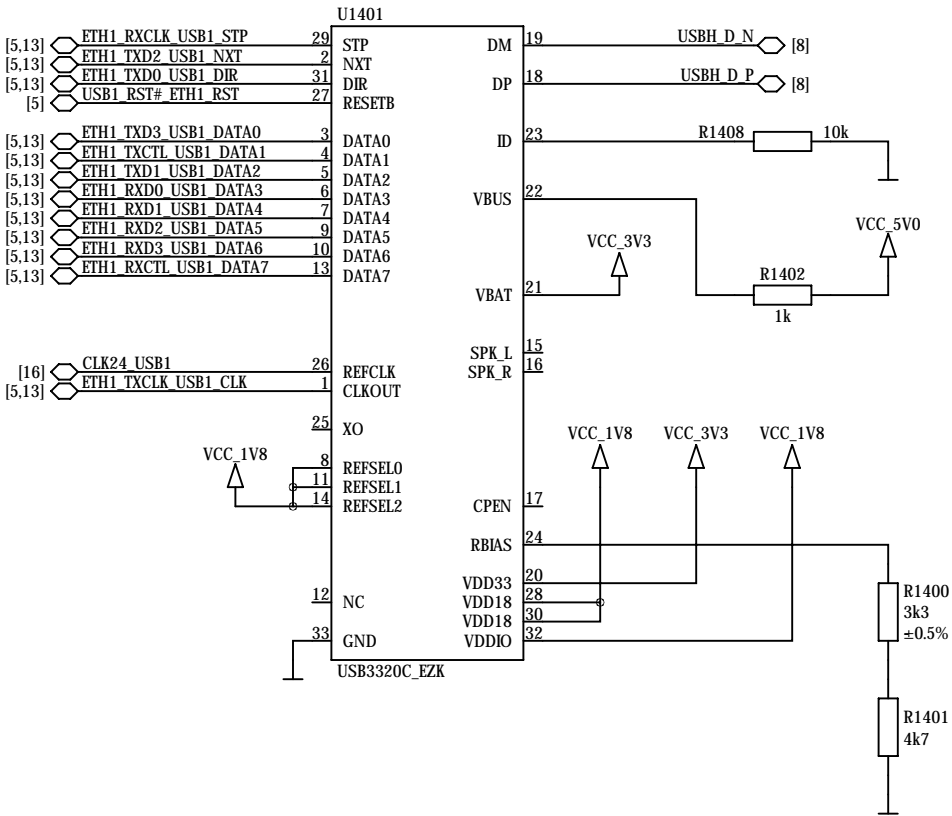
USB 2.0 Power Decoupling

not included in user schematics

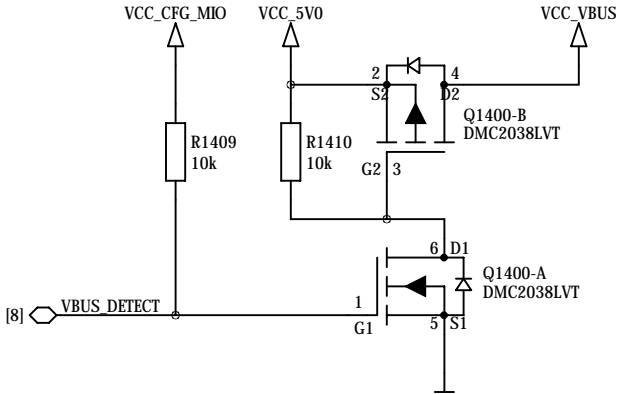


USB 2.0 Host PHY 1

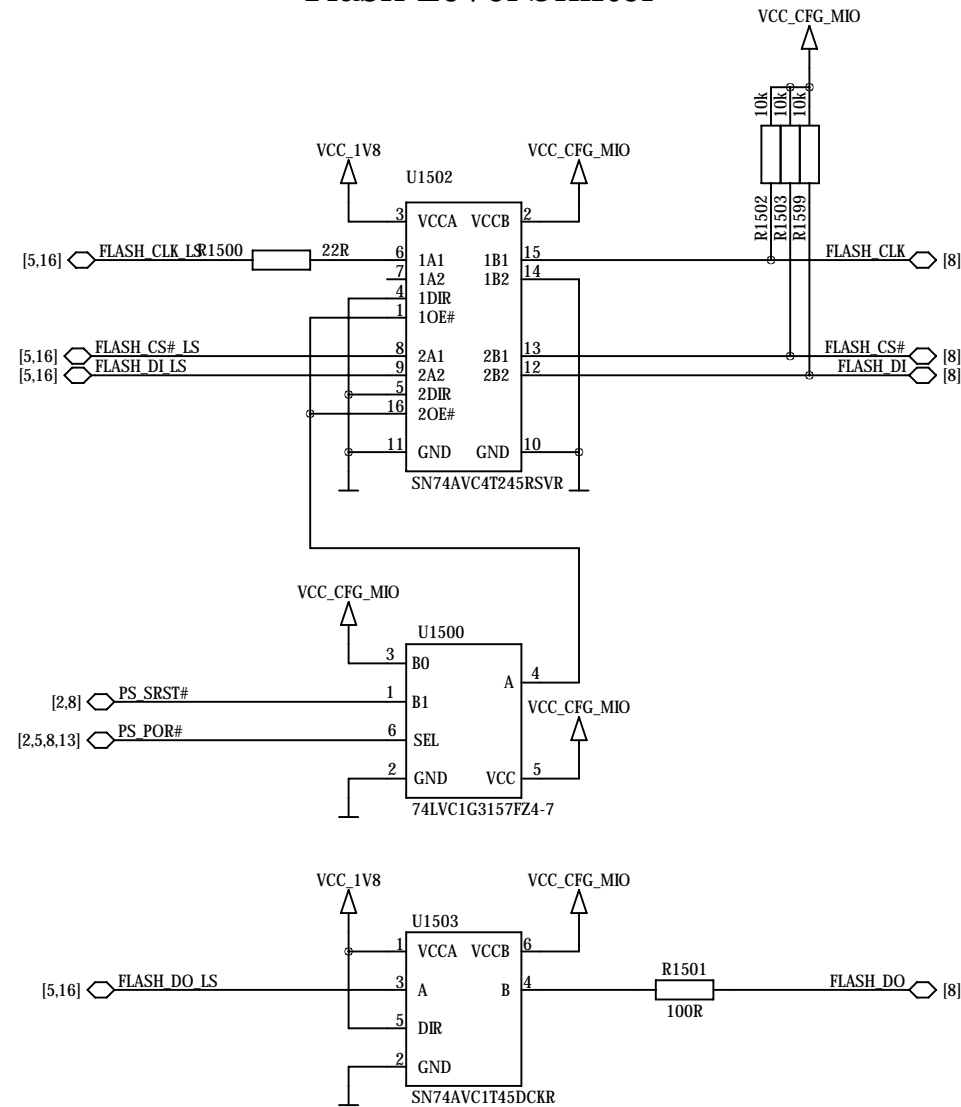
not available when using Ethernet 1



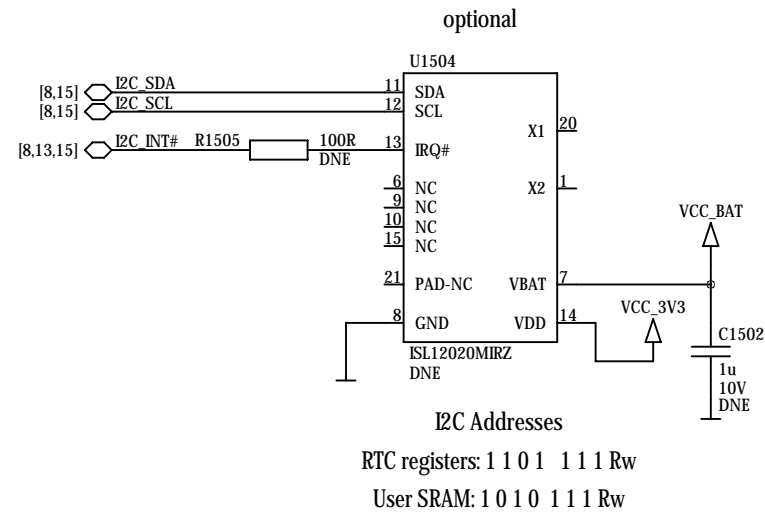
USB 2.0 VBUS Detect



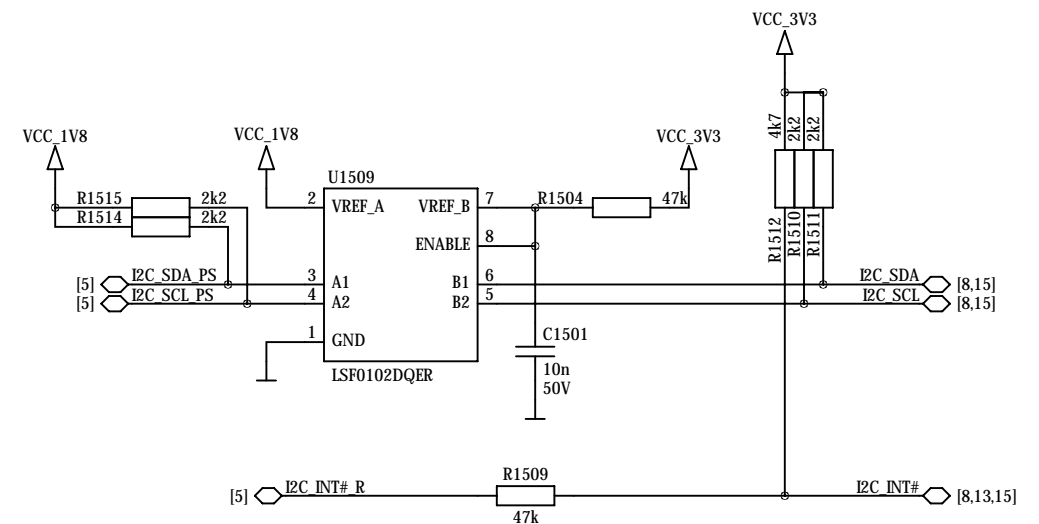
Flash Level Shifter



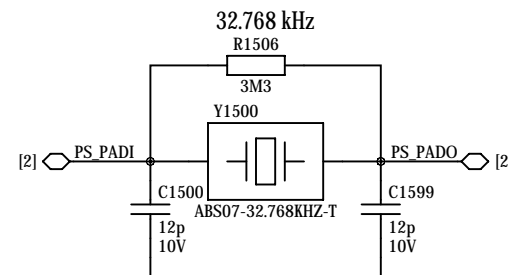
Real-time Clock



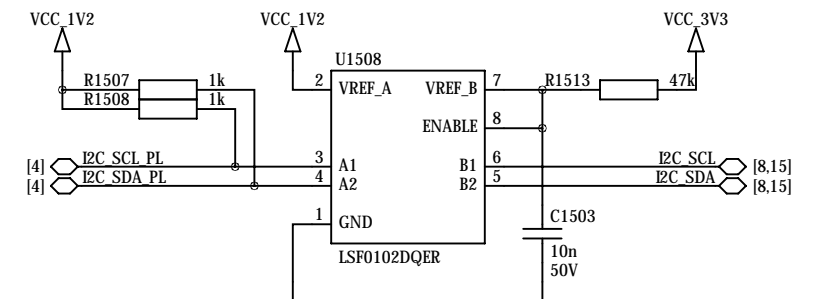
PS I2C Level Shifter



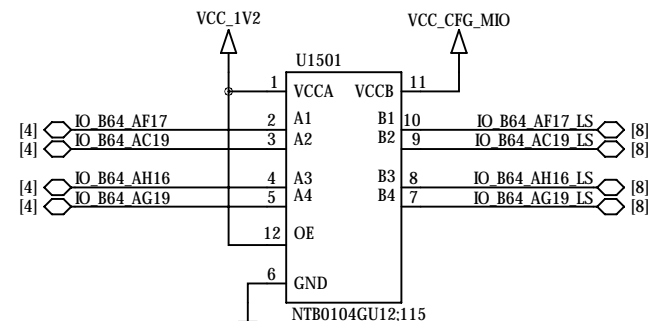
RTC Crystal



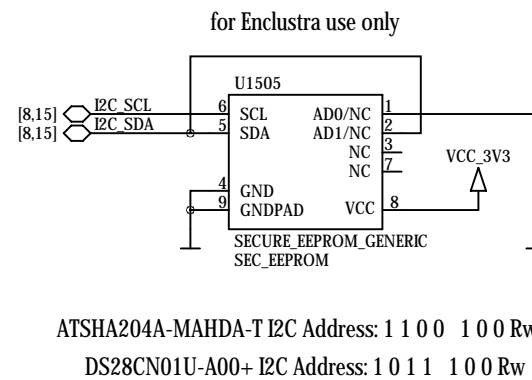
PL I2C Level Shifter



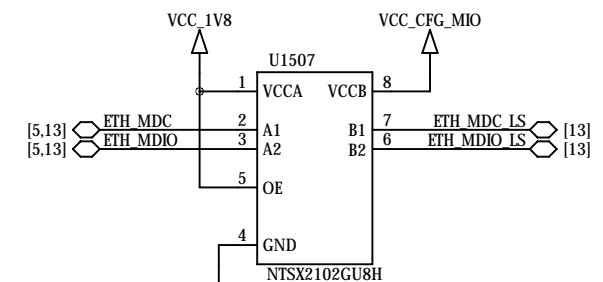
IO Level Shifter



Secure EEPROM



MDIO Level Shifter



D

D

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C

B

B

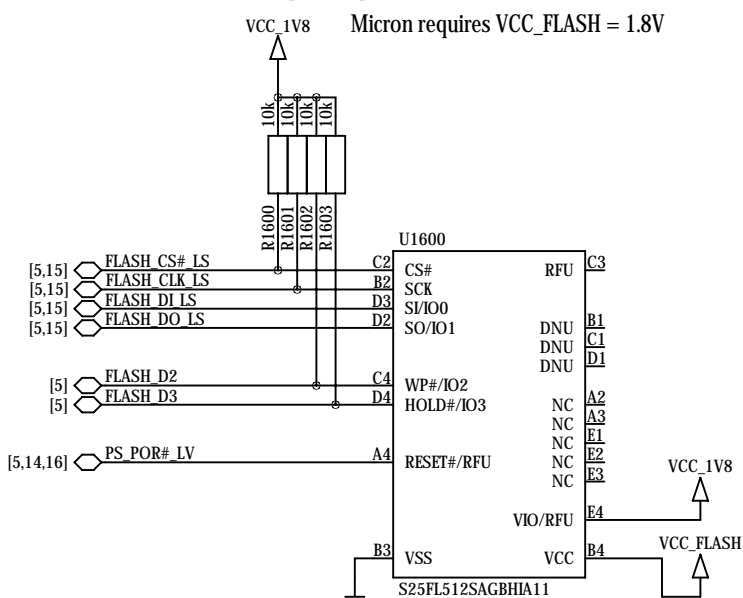
A

A

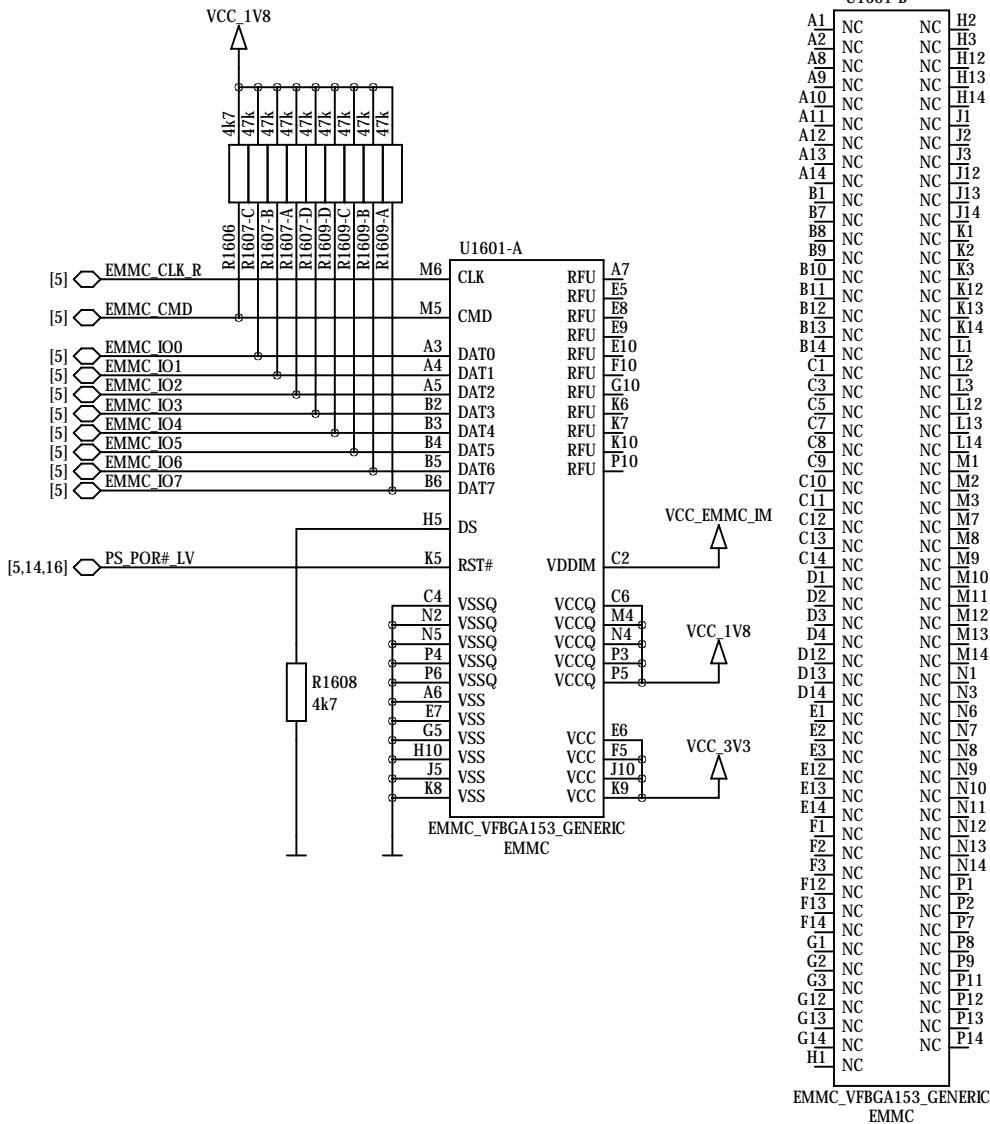
Quad SPI Flash

pin compatible with Micron N25Q512A11G1240F

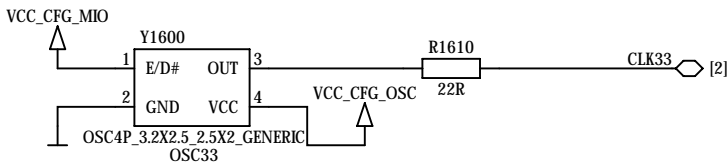
Micron requires VCC_FLASH = 1.8V



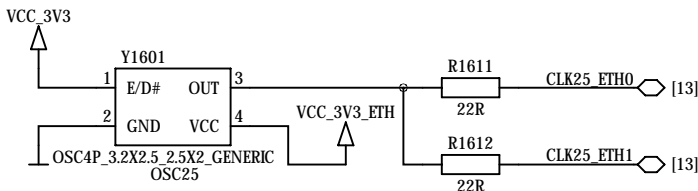
eMMC Flash



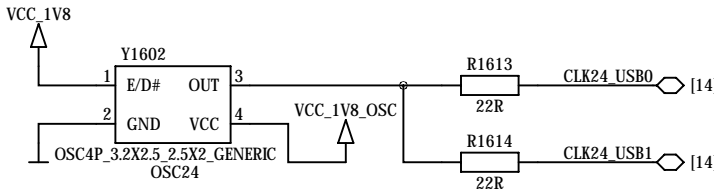
PS 33.3 MHz Oscillator



ETH 25 MHz Oscillator



USB 24 MHz Oscillator

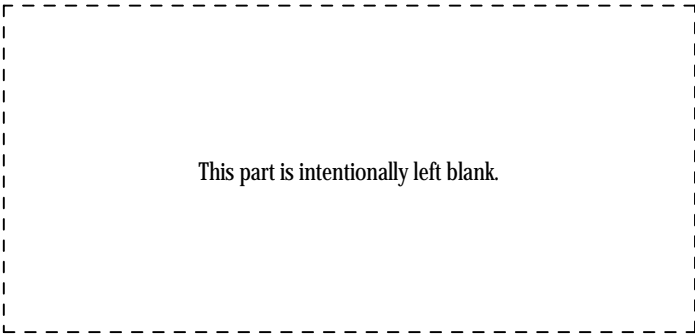


Oscillator Power Filters

not included in user schematics

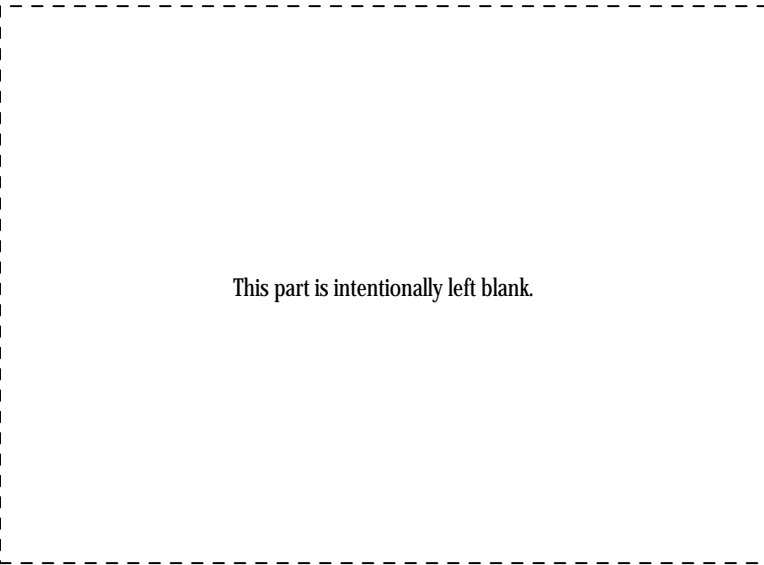
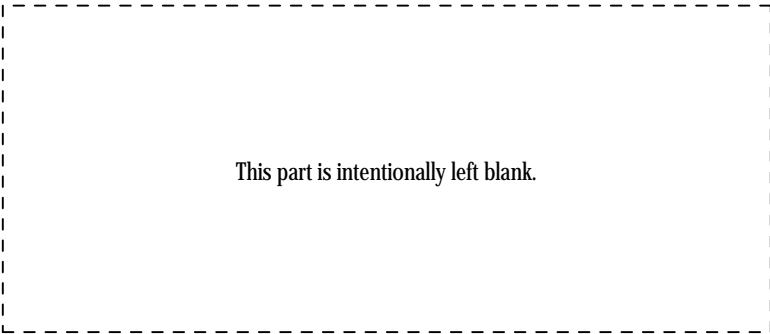
Quad SPI Power

not included in user schematics



eMMC Power

not included in user schematics



Dual Buck Converter

channel 1: 0.85/0.9V 6A 3% channel 2: 0.9V 6A 3%

not included in user schematics

LDO 2.5V 0.5A

not included in user schematics

This part is intentionally left blank.

Power Converter Synchronization

not included in user schematics

This part is intentionally left blank.

DDR4 Termination Voltage Regulator

not included in user schematics

DDR4 VREF Decoupling

not included in user schematics

Power Sequencing

not included in user schematics

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Copyright	© 2019 by Enclustra GmbH	Sheet Name	18_POWER_PSINT_0.9V_2.5V_VTT	Customer No	0000	Revision	R2.1	DNE = do not equip	Confidential		
Company	Enclustra FPGA Solution Center	Project	Mercury+ XU8	Project No	466	Designed	MHEI	Date	17 Jan 2020	Sheet/sheets	18 / 22

Buck Converter 1.8V

1.8V 3A 3%
not included in user schematics

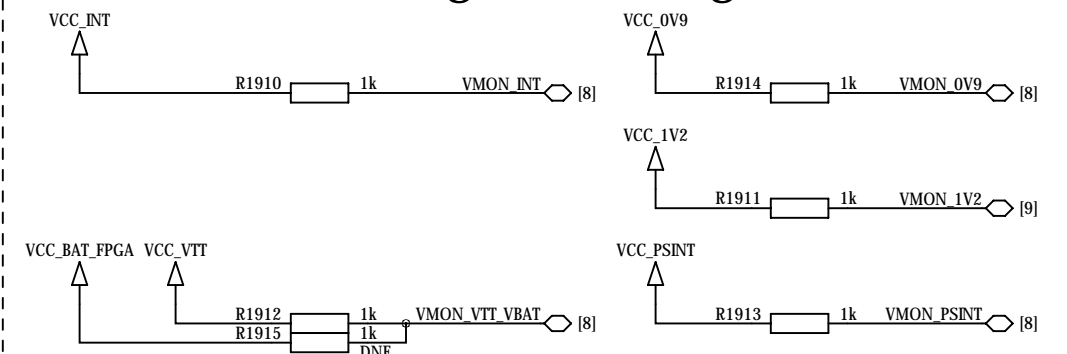
This part is intentionally left blank.

LDO 1.2V 10 mA

not included in user schematics

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Voltage Monitoring



FPGA I/O Over-Voltage Protection

not included in user schematics

This part is intentionally left blank.

LDO 0.85V 0.5A

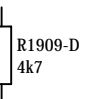
used for -1LE, -2LI, -3E speed grade SoC FPGAs
not included in user schematics

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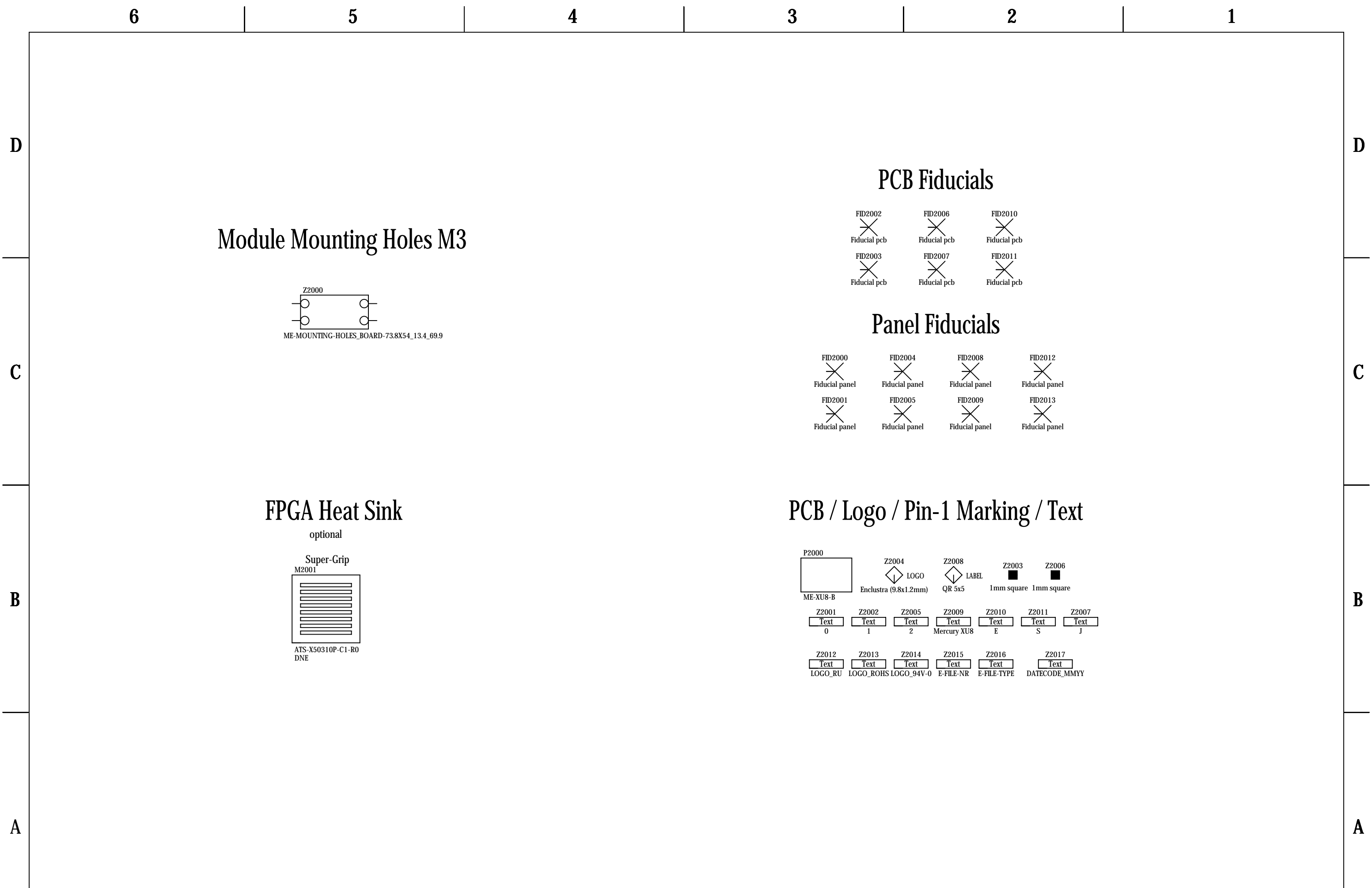
Voltage Reference


not included in user schematics

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Copyright	© 2019 by Enclustra GmbH	Sheet Name	19_POWER_1.8V_0V85	Customer No	0000	Revision	R2.1	DNE = do not equip	Confidential		
Company	Enclustra FPGA Solution Center	Project	Mercury+ XU8	Project No	466	Designed	MHEI	Date	17 Jan 2020	Sheet/sheets	19 / 22



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Company Enclustra FPGA Solution Center		Project Mercury+ XU8	Project No 466	Designed MHEI	Date 17 Jan 2020	Sheet/sheets 22 / 22														