P690: GT218, DDR3 MEMORY 64MX16/32MX16

Page 1: P690 Overview

Page 2: PCI Express Interface

Page 3: Frame Buffer Interface

Page 4: DDR3 Memories

Page 5: DAC A Slim VGA

Page 6: DAC B VGA Header

Page 7: TMDS Interface

Page 8: DisplayPort Connector

Page 9: IFPC, IFPE Interface, Fan, Mechanical

Page 10: XTAL, ROM, SPDIF, JTAG

Page 11: Thermal Protection, IFP_IOVDD, Straps

Page 12: Power Supply I: FBVDD/Q, PEX_VDD, 5V, 3V3_F

Page 13: Power Supply II: PLLVDD, NVVDD

V183 2.0 pcb change list

Page 2：Add EC1802 for 12V_PEX use , G1.E15 pin NC

Page 3：Add R72

Page 5：ESD diose move to close connector side

Page 7：Add EMI suggestion

Page 8：Add HDMI function

Page 8：G1.H6 pin connector to GND

Page 9：G1.P6 D7 pin connector to GND

Page 10：Del JTAG、I2C SCH, U503 pin 3 connector to ROM_VCC

Page 12：Change FBVDDQ PWM sch , Add C99 for 3V3_PEX

Page 12：Change PEX_VDD、5V

Page 13：Change NVVDD PWM sch

Page 13：Del PEX_PLL sch

V183 2.3 pcb change list

Page 8：HDMI change to Link C

Page 13：Reserve GPIO 5 GPIO 6 sch

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SKU	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10690-BASE-000	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	P690 Overview

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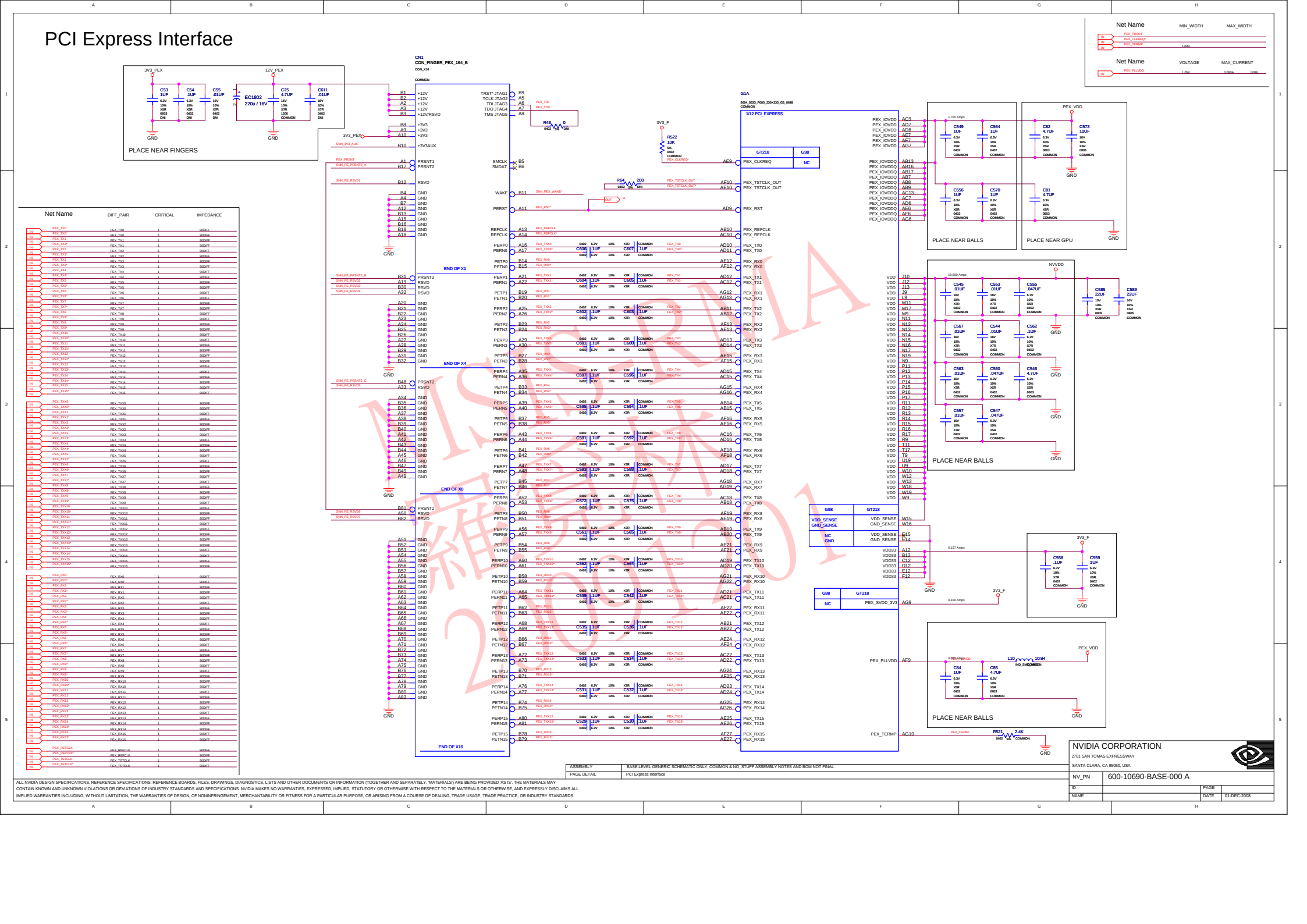
PCI Express Interface



Net Name | DIFF_PAIR | CRITICAL | IMPEDANCE

PEX_TX0 PEX_TX0 1 90OHM
PEX_TX0* PEX_TX0 1 90OHM
PEX_TX1 PEX_TX1 1 90OHM
PEX_TX1* PEX_TX1 1 90OHM
PEX_TX2 PEX_TX2 1 90OHM
PEX_TX2* PEX_TX2 1 90OHM
PEX_TX3 PEX_TX3 1 90OHM
PEX_TX3* PEX_TX3 1 90OHM
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PEX_TX5 PEX_TX5 1 90OHM
PEX_TX5* PEX_TX5 1 90OHM
PEX_TX6 PEX_TX6 1 90OHM
PEX_TX6* PEX_TX6 1 90OHM
PEX_TX7 PEX_TX7 1 90OHM
PEX_TX7* PEX_TX7 1 90OHM
PEX_TX8 PEX_TX8 1 90OHM
PEX_TX8* PEX_TX8 1 90OHM
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PEX_TX9* PEX_TX9 1 90OHM
PEX_TX10 PEX_TX10 1 90OHM
PEX_TX10* PEX_TX10 1 90OHM
PEX_TX11 PEX_TX11 1 90OHM
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PEX_RX8* PEX_RX8 1 90OHM
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PEX_RX9* PEX_RX9 1 90OHM
PEX_RX10 PEX_RX10 1 90OHM
PEX_RX10* PEX_RX10 1 90OHM
PEX_RX11 PEX_RX11 1 90OHM
PEX_RX11* PEX_RX11 1 90OHM
PEX_RX12 PEX_RX12 1 90OHM
PEX_RX12* PEX_RX12 1 90OHM
PEX_RX13 PEX_RX13 1 90OHM
PEX_RX13* PEX_RX13 1 90OHM
PEX_RX14 PEX_RX14 1 90OHM
PEX_RX14* PEX_RX14 1 90OHM
PEX_RX15 PEX_RX15 1 90OHM
PEX_RX15* PEX_RX15 1 90OHM

PEX_REFCLK PEX_REFCLK 1 90OHM
PEX_REFCLK* PEX_REFCLK 1 90OHM
PEX_TSTCLK PEX_TSTCLK 1 90OHM
PEX_TSTCLK* PEX_TSTCLK 1 90OHM

Net Name | MIN_WIDTH | MAX_WIDTH
PEX_PRSNT
PEX_CLKREQ*
PEX_TERMP
12MIL

Net Name | VOLTAGE | MAX_CURRENT
PEX_PLLVDD 1.05V 0.080A 12MIL

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PAGE DETAIL	PCI Express Interface

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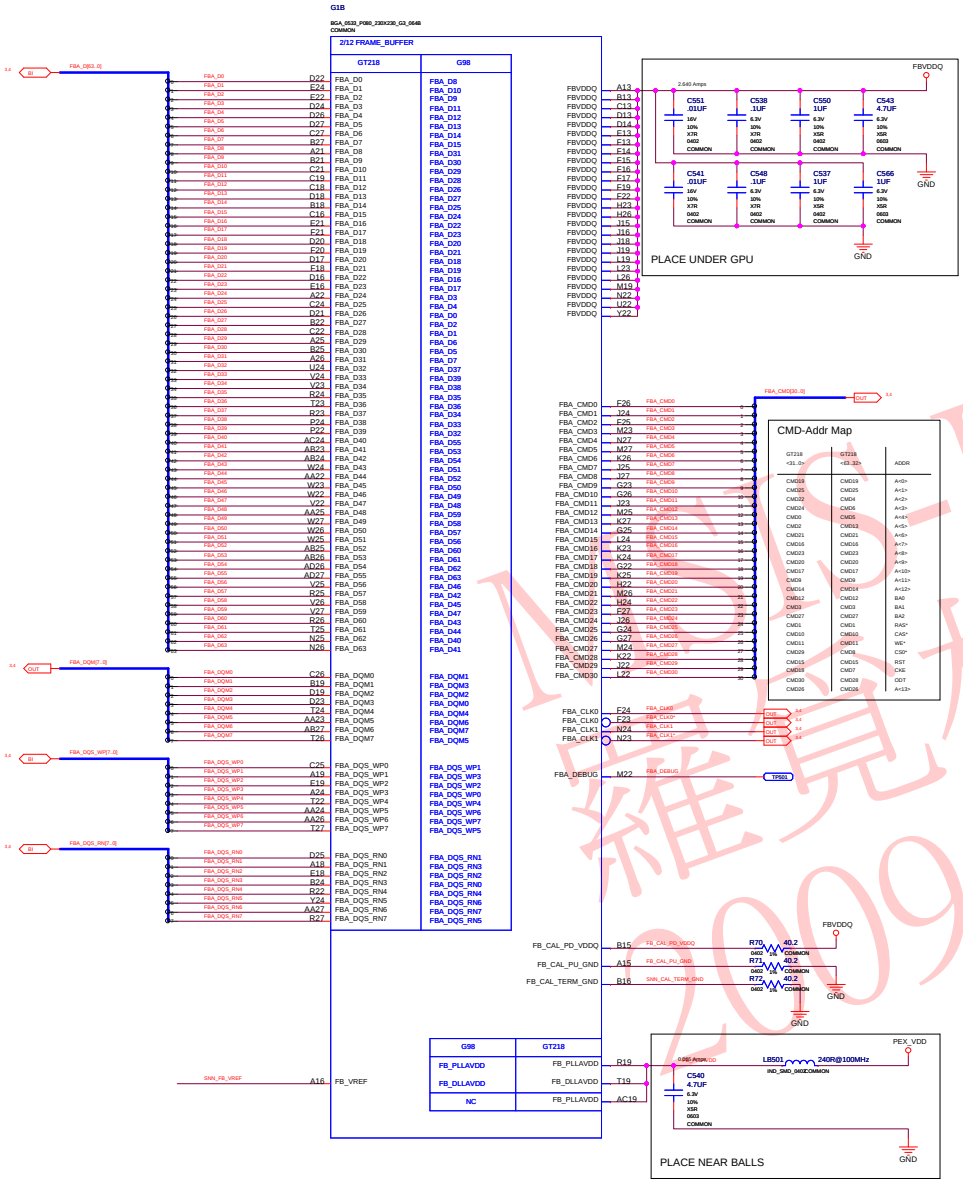
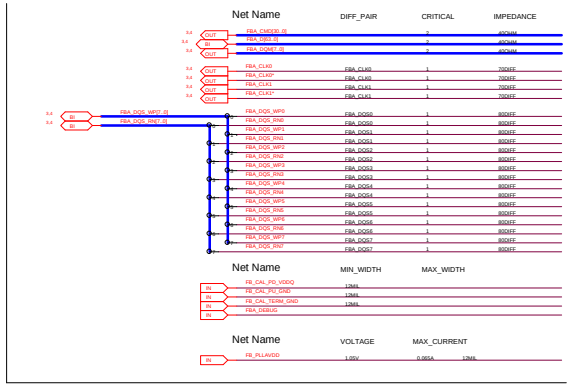
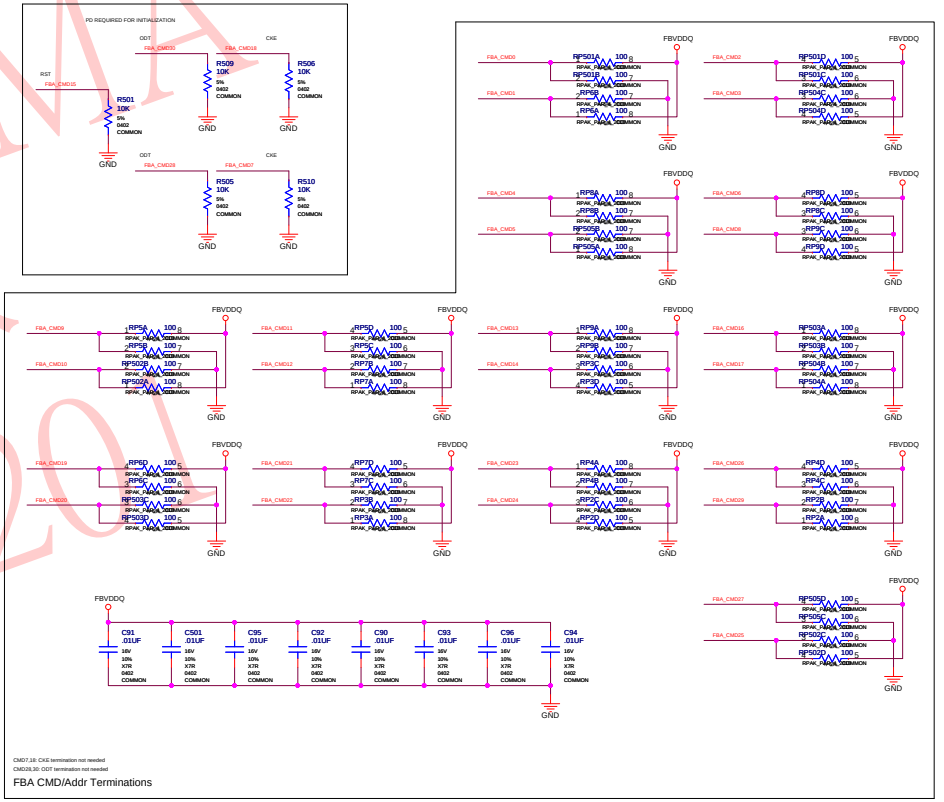
Frame Buffer Interface







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PAGE DETAIL	Frame Buffer Interface

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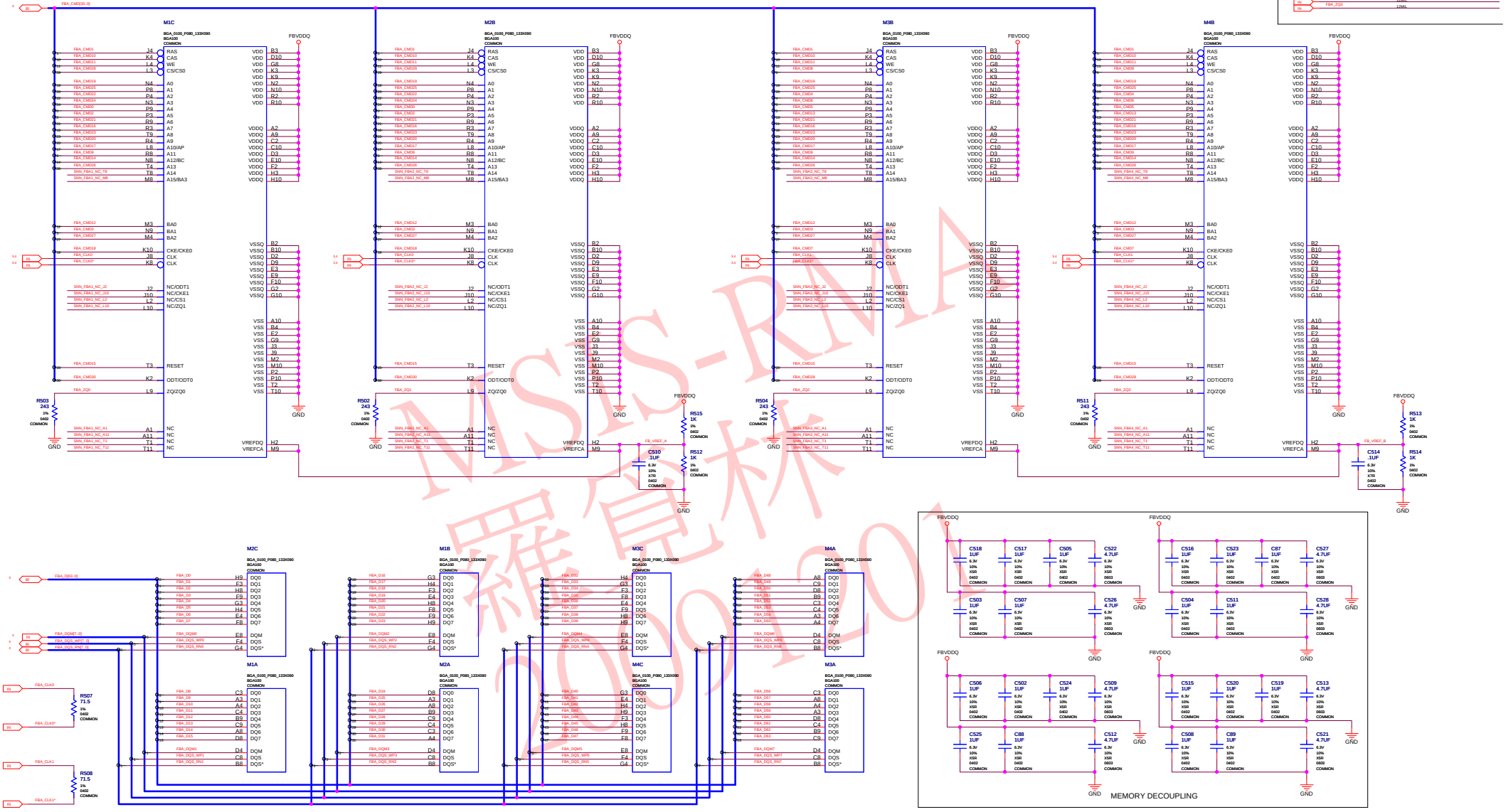
DDR3 Memories



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PAGE DETAIL	DDR3 Memories

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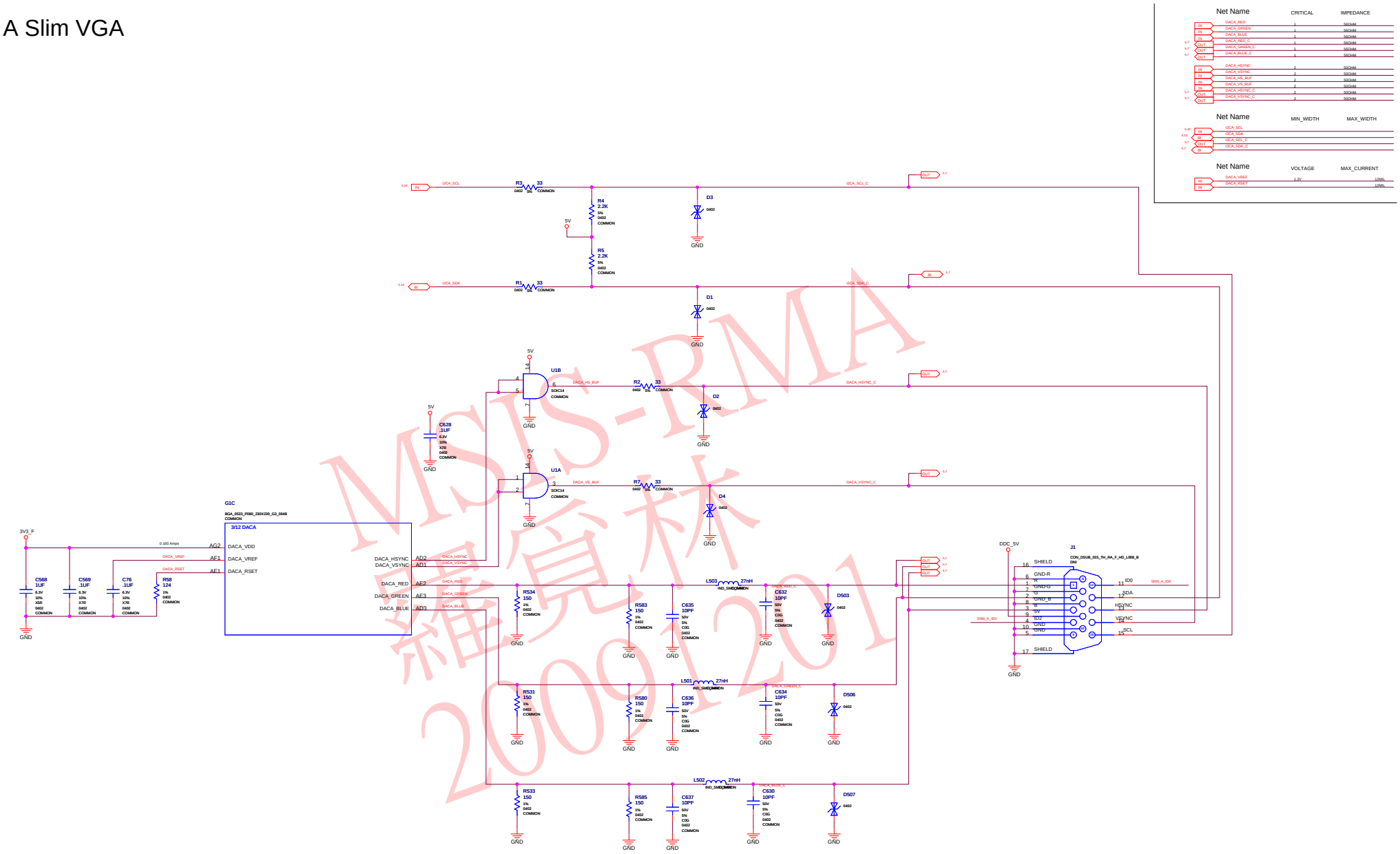
DAC A Slim VGA



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DAC A Slim VGA

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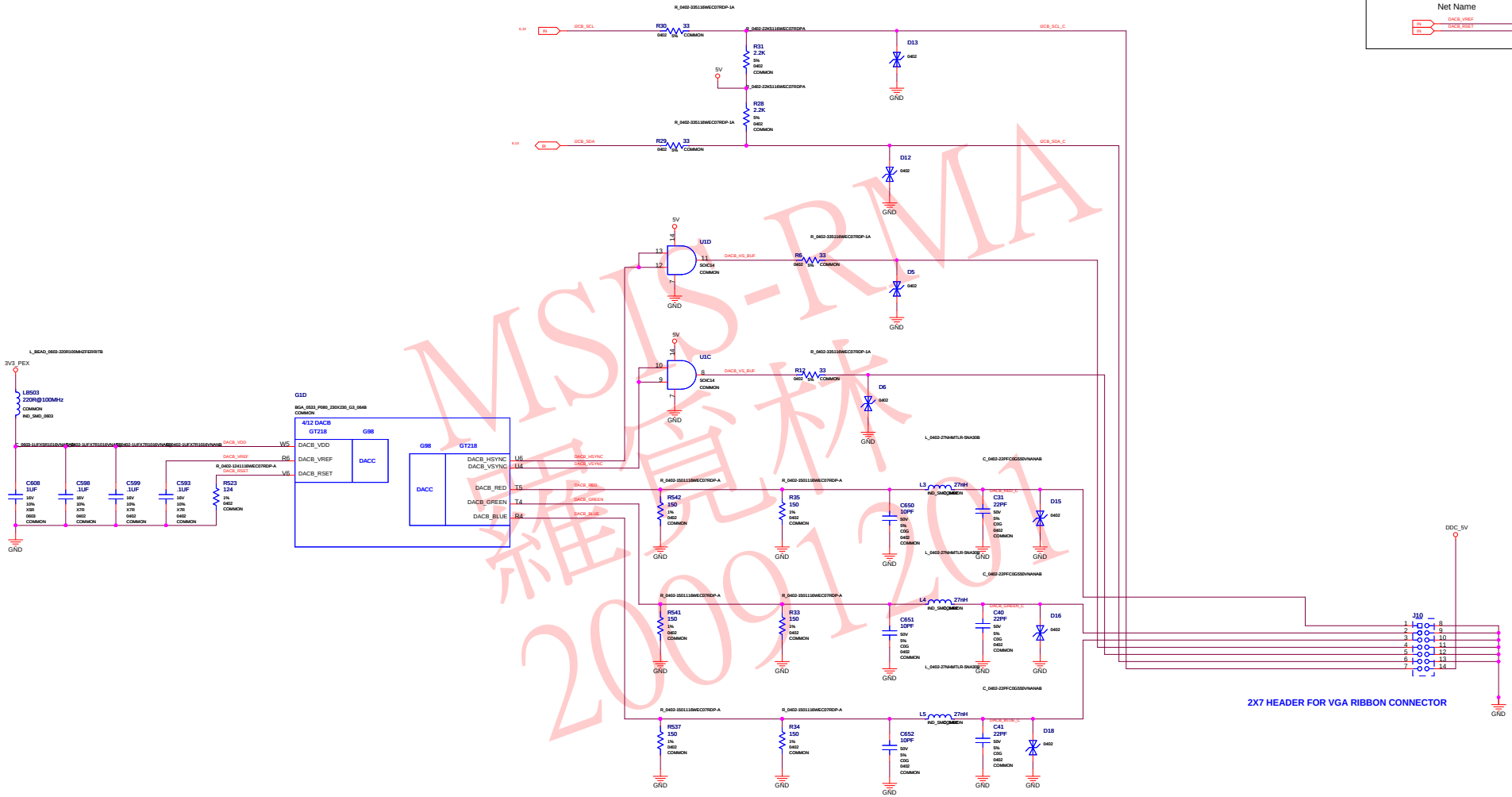
DAC B VGA Header



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DAC B VGA Header

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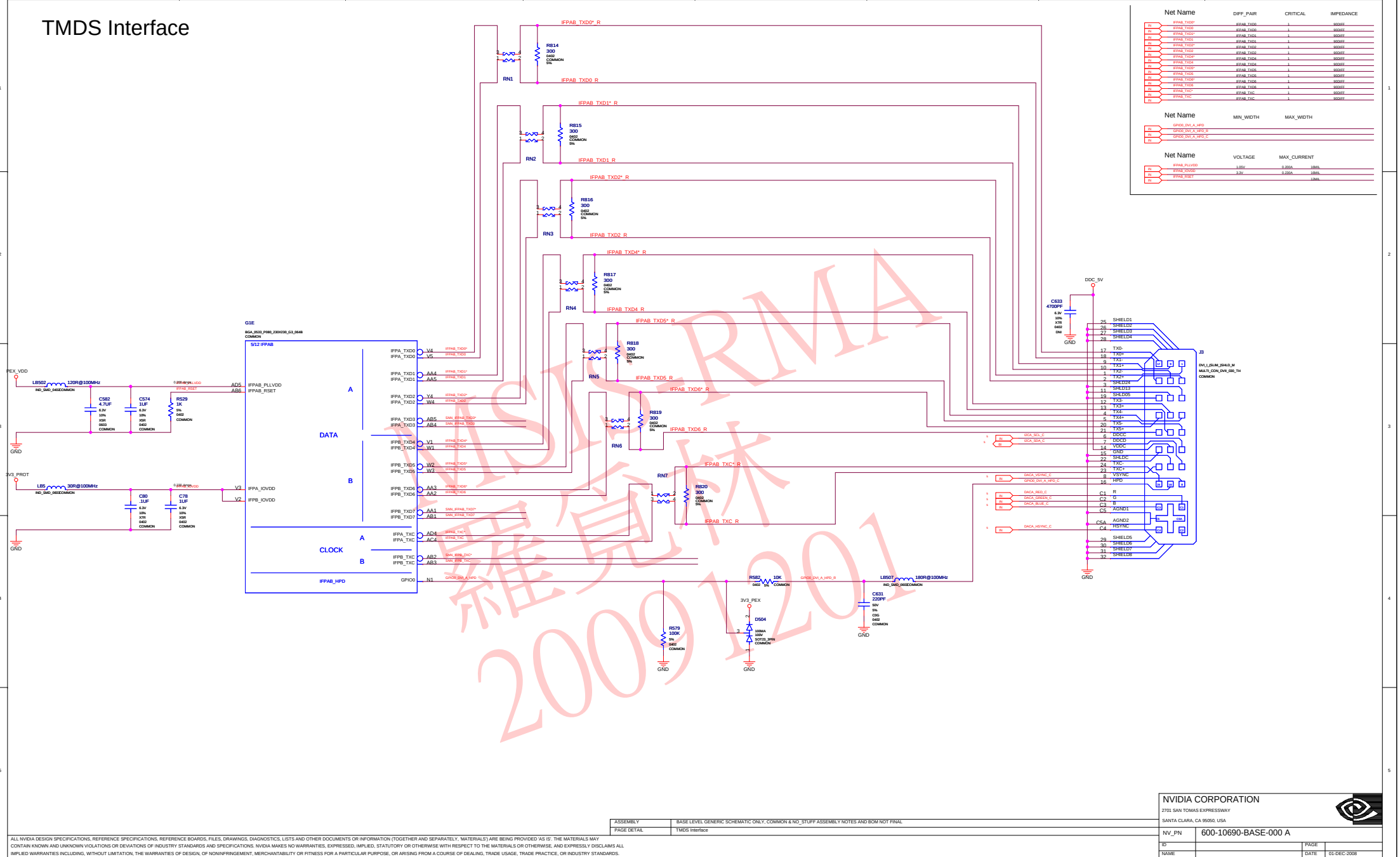
TMDS Interface



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PAGE DETAIL	TMDS Interface

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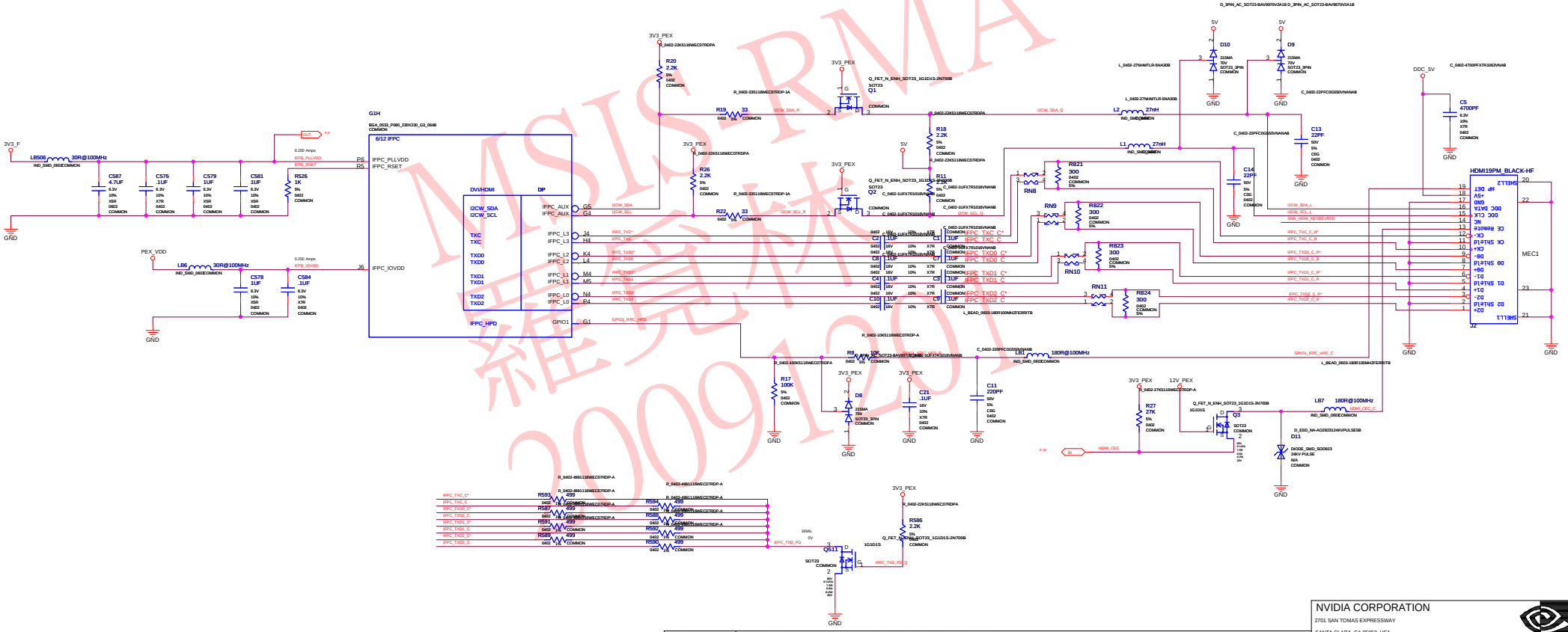
HDMI Connector



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DisplayPort Connector

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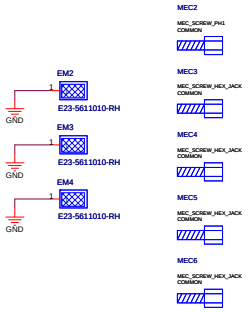
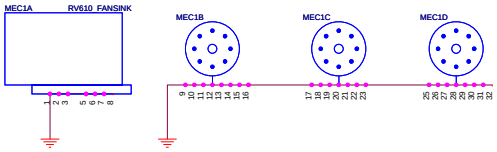
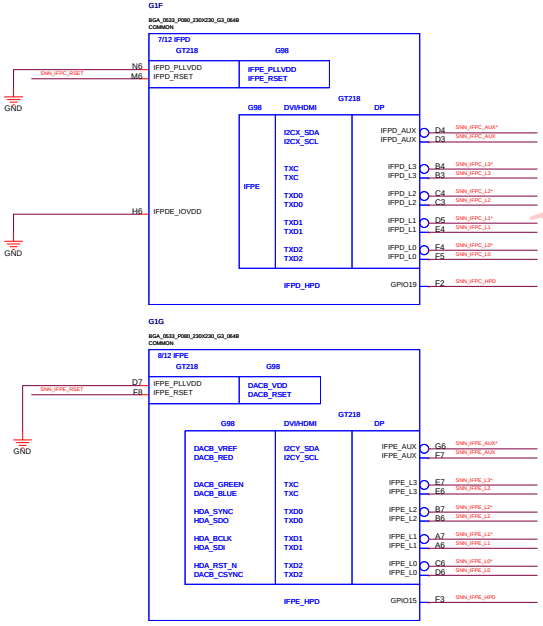
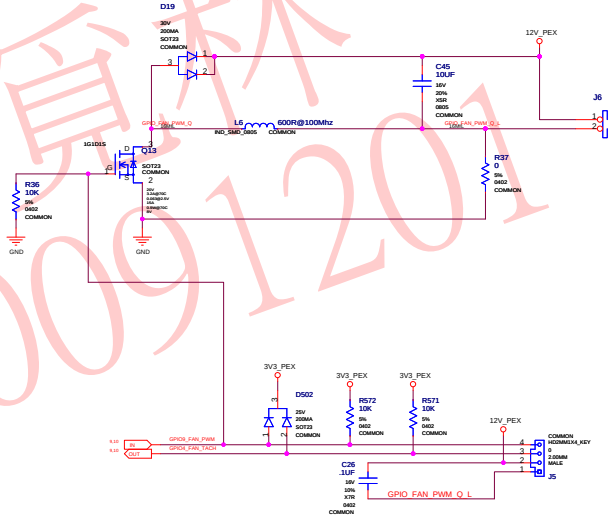
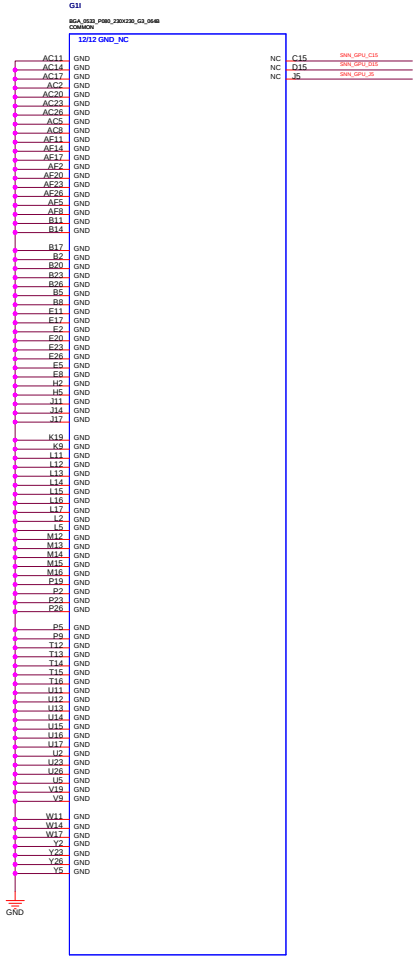
IFPC, IFPE Interface, Fan, Mechanical











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Net Name	VOLTAGE	MAX_CURRENT
IFPC_PLLVDD	3.3V	0.200A
IFPC_IOVDD	1.05V	

Net Name	MIN_WIDTH	MAX_WIDTH
GPIO9_FAN_TACH		
GPIO9_FAN_PWM		

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPC, IFPE Interface, Fan, Mechanical

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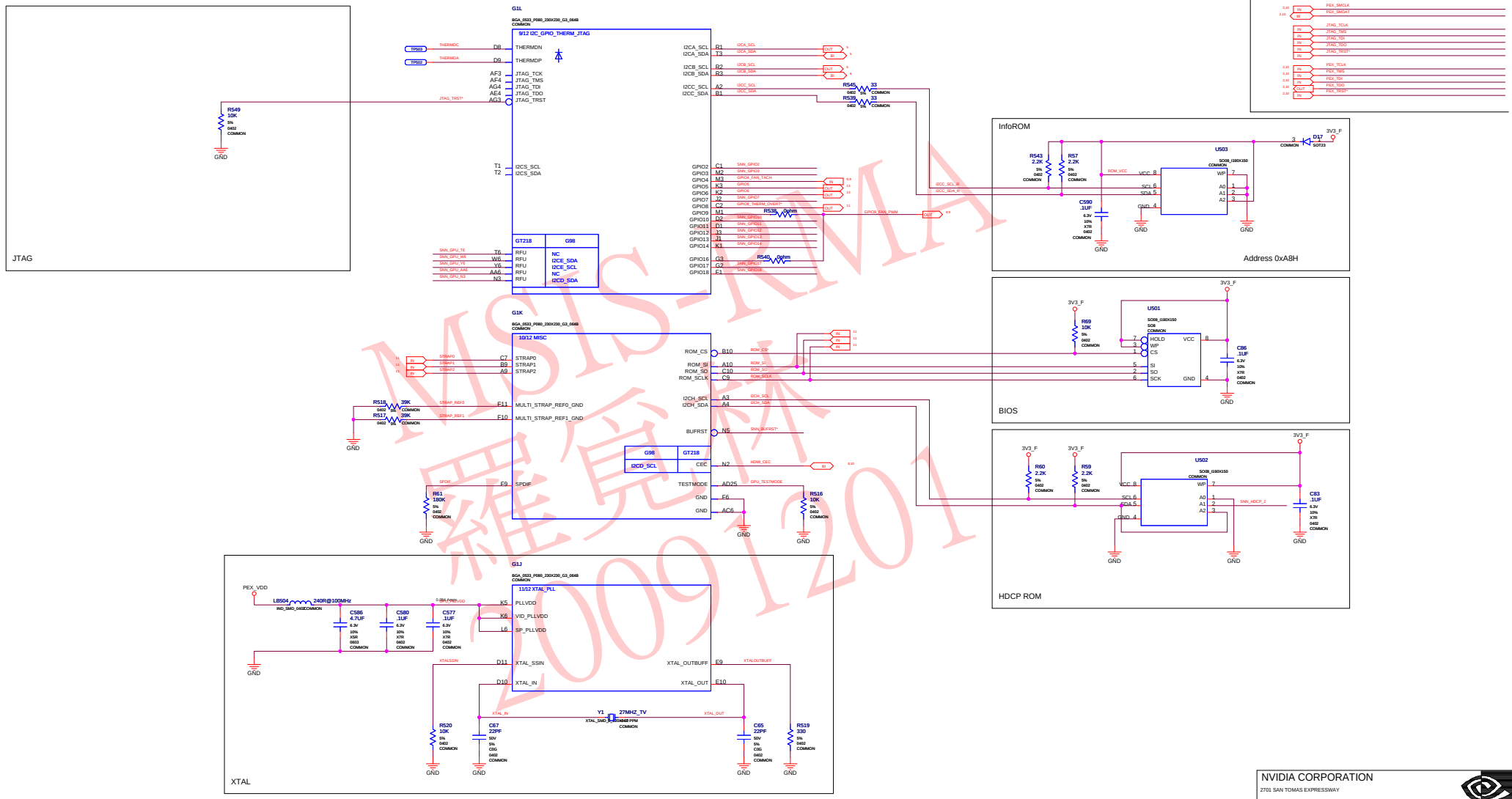
XTAL, ROM, SPDIF, JTAG



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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	XTAL, ROM, SPDIF, JTAG

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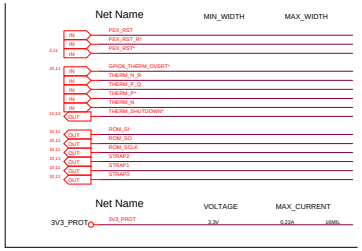
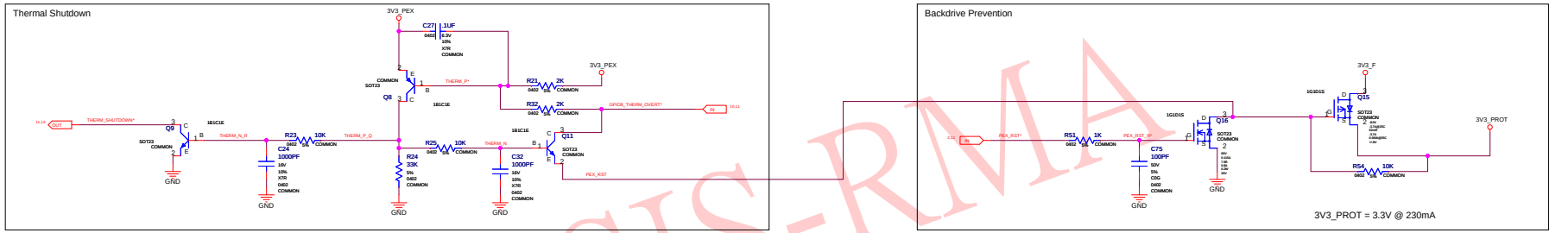
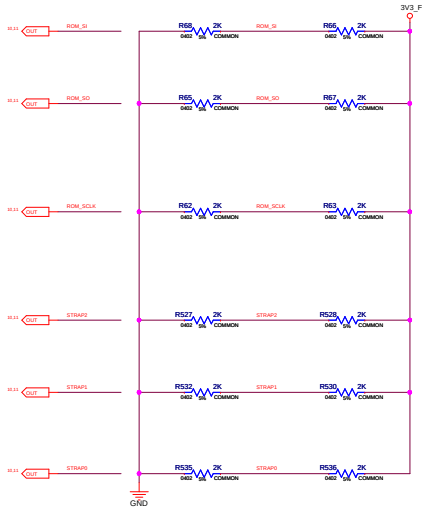
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

Thermal Protection, IFP_IOVDD, Straps







GT218 Straps MLS Mode

Bit	Signal	Values	
03:	RAMCFG[3]	0000	Elpida
		0001	Samsung, Micron
02:	RAMCFG[2]	0010	Qimonda
		0011	Hynix
01:	RAMCFG[1]	0100	Nanya
00:	RAMCFG[0]		
03:	XCLK_417	0	277 (Default)
02:	FB[0]	0	256M (Default)
01:	SMB_ALT_ADDR	0	0x9C
		1	0x6C
00:	VGA_DEVICE	0	Class code 302
		1	Class code 300
03:	PCI_DEVID_EXT	0	GT218-300-A1
02:	SUB_VENDOR	0	No BIOS
		1	BIOS
01:	SLOT_CLK_CFG	0	Disable
		1	Enable
00:	PEX_PLL_EN_TERM100	0	Disable
		1	Enable
03:	PCI_DEVID[3]	0000	GT218-300-A1
02:	PCI_DEVID[2]		
01:	PCI_DEVID[1]		
00:	PCI_DEVID[0]		
03:	3GIO_PADCFG_LUT_ADR[3]	0000	DSKTOP_DEFAULT
		0001	MOBILE_DEFAULT
02:	3GIO_PADCFG_LUT_ADR[2]	0010	MOBILE_NTHRS_LLAMP
		0011	MOBILE_NTHRS_LAMP
01:	3GIO_PADCFG_LUT_ADR[1]	0100	MOBILE_NTHRS_HAMP
		0101	MOBILE_NTHRS_HHAMP
00:	3GIO_PADCFG_LUT_ADR[0]	0110	MOBILE_NTHRS_HHHAMP
		0111	MOBILE_NTHRS_HHHHAMP
		1000	DSKTOP_HTHRS
		1001	MOBILE_HTHRS_NAMP
		1010	MOBILE_HTHRS_LLAMP
		1011	MOBILE_HTHRS_LAMP
		1100	MOBILE_HTHRS_HAMP
		1101	MOBILE_HTHRS_HHAMP
		1110	MOBILE_HTHRS_HHHAMP
		1111	MOBILE_HTHRS_HHHHAMP
03:	USER[3]	0000	Default
02:	USER[2]		
01:	USER[1]		
00:	USER[0]		

Multilevel Straps

5K to GND	0000
10K to GND	0001
15K to GND	0010
20K to GND	0011
25K to GND	0100
30K to GND	0101
35K to GND	0110
40K to GND	0111
5K to VCC	1000
10K to VCC	1001
15K to VCC	1010
20K to VCC	1011
25K to VCC	1100
30K to VCC	1101
35K to VCC	1110
40K to VCC	1111

GT218 Straps BU Mode

Bit	Signal	Values	
	PCI_DEVID_EXT	0	GT218-300-A1
	XCLK_417	0	277 (Default)
	3GIO_PADCFG_LUT_ADR[3]	0000	DSKTOP_DEFAULT
		0001	MOBILE_DEFAULT
		0010	MOBILE_NTHRS_LLAMP
		0011	MOBILE_NTHRS_LAMP
		0100	MOBILE_NTHRS_HAMP
		0101	MOBILE_NTHRS_HHAMP
		0110	MOBILE_NTHRS_HHHAMP
		0111	MOBILE_NTHRS_HHHHAMP
		1000	DSKTOP_HTHRS
		1001	MOBILE_HTHRS_NAMP
		1010	MOBILE_HTHRS_LLAMP
		1011	MOBILE_HTHRS_LAMP
		1100	MOBILE_HTHRS_HAMP
		1101	MOBILE_HTHRS_HHAMP
		1110	MOBILE_HTHRS_HHHAMP
		1111	MOBILE_HTHRS_HHHHAMP
	3GIO_PADCFG_LUT_ADR[2]		
	3GIO_PADCFG_LUT_ADR[1]		
	3GIO_PADCFG_LUT_ADR[0]		

GT218 Straps PM Mode

Bit	Signal	Values	
	PCI_DEVID_EXT	0	GT218-300-A1
	XCLK_417	0	277/277 OR 417/417
	PCI_DEVID[3]	0	GT218-300-A1
	RAMCFG[3]	0000	Elpida
		0001	Samsung, Micron
		0010	Qimonda
		0011	Hynix
		0100	Nanya
	RAMCFG[1]		
	RAMCFG[0]		

Mode	REF0/REF1
MLS	Stuff
BU	No stuff
PM	Stuff one

VSIS-RMA 羅宗林 20091001

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Thermal Protection, IFP_IOVDD, Straps

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ID		PAGE	
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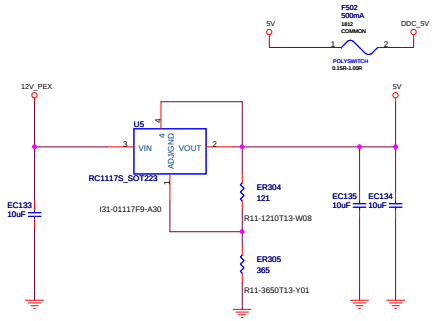
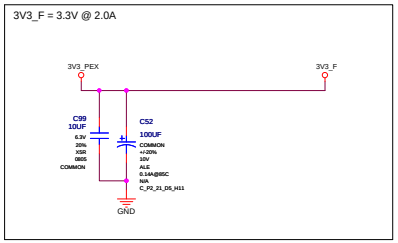
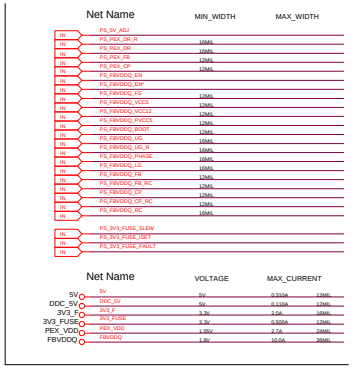
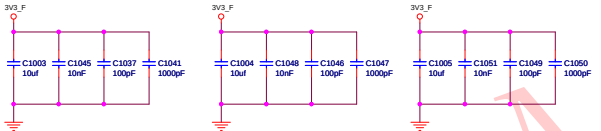
Power Supply I: FBVDD/Q, PEX_VDD, 5V, 3V3_F

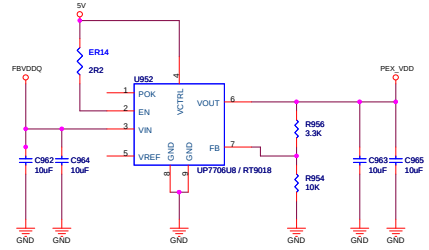


Vout=1.25V* [1+(ER305/ER304)]









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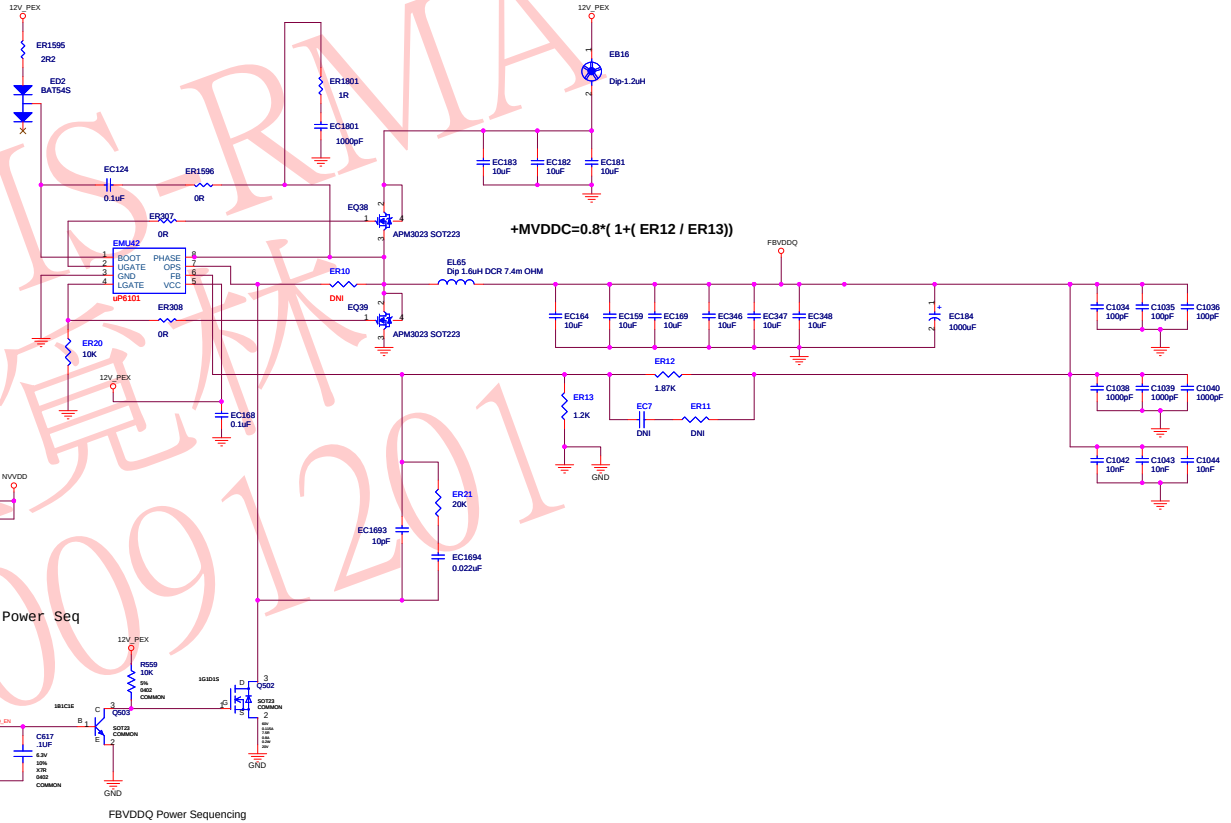

MSI-RMA 羅賓林 20091201

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Power Supply I: FBVDD/Q, PEX_VDD, 5V, 3V3_F

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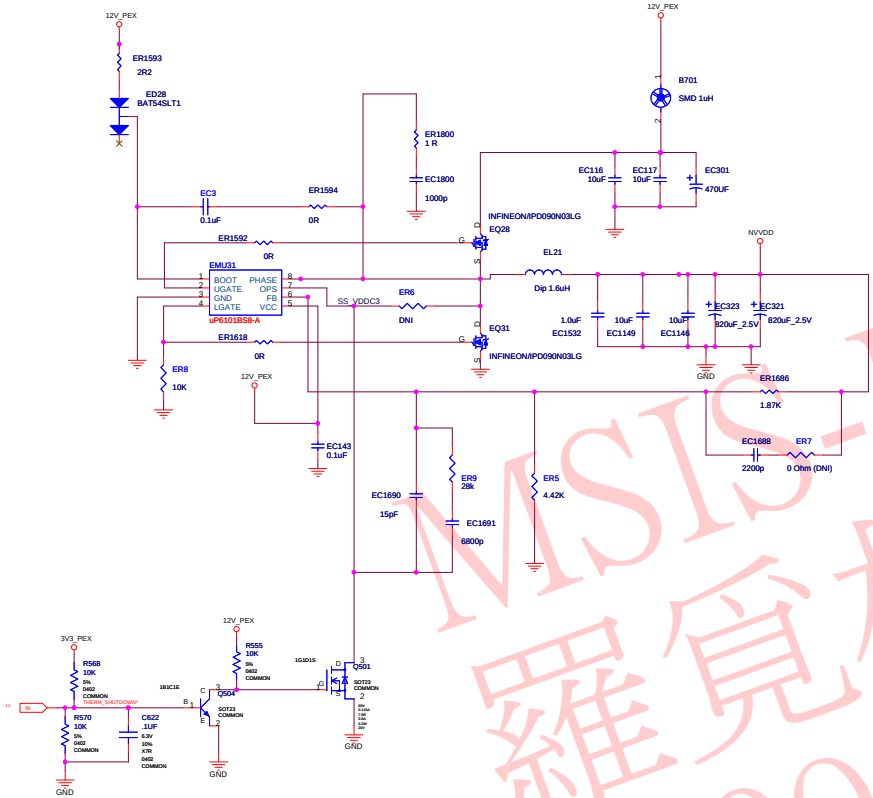
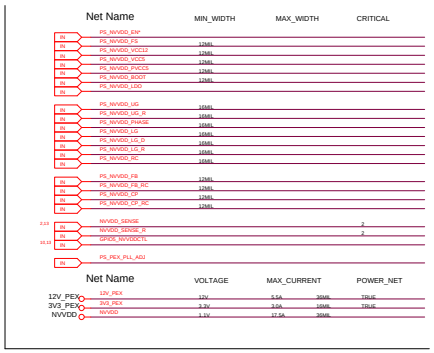
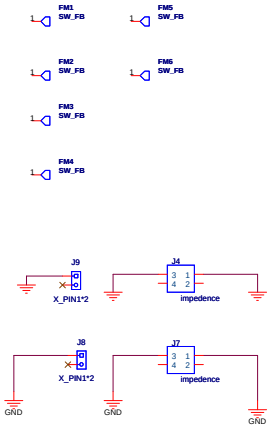
Power Supply II: PLLVDD, NVVDD







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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Power Supply II: PLLVDD, NVVDD

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ID		PAGE	
NAME		DATE	01-DEC-2008

Title: Basenet Report
Design: design
Date: Dec 1 21:48:15 2008

Base nets and synonyms for
design_lib.DESIGN(@design_lib.design(sch
_1))
Base Signal Location([Zone][dir])

3V3_F 12.2H
3V3_FUSE 12.2H
3V3_PEX 13.2G
3V3_PROT 11.1H
5V 12.2H
12V_PEX 13.2G
DACA_BLUE 5.1G< 5.4C
DACA_BLUE_C 5.1G> 5.4F> 7.3F<
DACA_GREEN 5.1G< 5.4C
DACA_GREEN_C 5.1G> 5.4F> 7.3F<
DACA_HSYNC 5.1G< 5.4C
DACA_HSYNC_C 5.1G> 5.3F> 7.4F<
DACA_HS_BUF 5.1G< 5.3D
DACA_RED 5.1G< 5.4C
DACA_RED_C 5.1G> 5.4F> 7.3F<
DACA_RSET 5.2G< 5.4B
DACA_VREF 5.2G< 5.4B
DACA_VSYNC 5.1G< 5.4C
DACA_VSYNC_C 5.1G> 5.3F> 7.3F<
DACA_VS_BUF 5.1G< 5.3D
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DACB_BLUE_C 6.1G< 6.5E
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DACB_GREEN_C 6.1G< 6.4E
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DACB_HSYNC_C 6.1G< 6.3E
DACB_HS_BUF 6.1G< 6.3D
DACB_RED 6.1G< 6.4C
DACB_RED_C 6.1G< 6.4E
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DACB_VS_BUF 6.1G< 6.3D
DDC_5V 12.2H
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DP_MODE_C 8.1F< 8.3G
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FBA_ZQ2 4.1G< 4.3E
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FB_CAL_PU_GND 3.2G< 3.4C
FB_CAL_TERM_GND 3.2G<
FB_PLLAVDD 3.2G< 3.5C
FB_VREF_A 4.1G< 4.3D
FB_VREF_A_Q 4.1G<
FB_VREF_B 4.1G< 4.3H
FB_VREF_B_Q 4.1G<
GPIO0_DVI_A_HPD 7.1G< 7.4D
GPIO0_DVI_A_HPD_C 7.1G< 7.3F
GPIO0_DVI_A_HPD_R 7.1G< 7.4E
GPIO4_FAN_TACH 9.1G< 9.4D> 10.2E<
GPIO5_NVVDDCTL 10.2E> 13.1G< 13.5D<
GPIO5_NVVDDCTL_R 13.4E
GPIO8_THERM_OVERT* 10.2E> 11.1G< 11.2D<
GPIO9_FAN_PWM 9.1G> 9.4D< 10.2E>
GPIO19_IFPD_HPD 8.1F< 8.4D
GPIO_DP_HPD_C 8.1F< 8.4F
GPIO_DP_HPD_R 8.1F< 8.4E
GPU_PLLVDD 10.1F< 10.4C
GPU_TESTMODE 10.1G< 10.4E
I2CA_SCL 5.1G< 5.2C< 10.2E>
I2CA_SCL_C 5.1F> 5.1G> 7.3F<
I2CA_SDA 5.1G<> 5.2C<> 10.2E<>
I2CA_SDA_C 5.1G<> 5.2F<> 7.3F<>
I2CB_SCL 6.1G< 6.2C< 10.2E>
I2CB_SCL_C 6.1G< 6.2E
I2CB_SDA 6.1G<> 6.2C<> 10.2E<>
I2CB_SDA_C 6.1G< 6.2E
I2CC_SCL 10.1G< 10.2E
I2CC_SCL_R 10.1G< 10.2F
I2CC_SDA 10.1G< 10.2E
I2CC_SDA_R 10.1G< 10.2F
I2CH_SCL 10.1G< 10.3E
I2CH_SDA 10.1G< 10.3E
I2CS_SCL 10.1G< 10.2C
I2CS_SDA 10.1G< 10.2C
IFPAB_IOVDD 7.2G< 7.3C
IFPAB_PLLVDD 7.2G< 7.3C
IFPAB_RSET 7.2G< 7.3C
IFPAB_TXC 7.1G< 7.4D
IFPAB_TXC* 7.1G< 7.4D
IFPAB_TXD0 7.1G< 7.3D
IFPAB_TXD0* 7.1G< 7.3D
IFPAB_TXD1 7.1G< 7.3D
IFPAB_TXD1* 7.1G< 7.3D
IFPAB_TXD2 7.1G< 7.3D
IFPAB_TXD2* 7.1G< 7.3D
IFPAB_TXD4 7.1G< 7.3D
IFPAB_TXD4* 7.1G< 7.3D
IFPAB_TXD5 7.1G< 7.3D
IFPAB_TXD5* 7.1G< 7.3D
IFPAB_TXD6 7.1G< 7.3D
IFPAB_TXD6* 7.1G< 7.3D
IFPC_IOVDD 9.1G< 9.3B
IFPC_PLLVDD 9.1G< 9.2B
IFPD_AUX 8.1G< 8.4D
IFPD_AUX* 8.1G< 8.4D
IFPD_AUX_BYP 8.1G< 8.3D
IFPD_AUX_BYP* 8.1G< 8.2D
IFPD_AUX_C 8.1G< 8.4F
IFPD_AUX_C* 8.1G< 8.4F
IFPD_AUX_SEL 8.1F< 8.2D
IFPD_IOVDD 8.1F> 8.4C> 9.3A<
IFPD_L0 8.1G< 8.4D
IFPD_L0* 8.1G< 8.4D
IFPD_L0_C 8.1G< 8.4F
IFPD_L0_C* 8.1G< 8.4F
IFPD_L1 8.1G< 8.4D
IFPD_L1* 8.1G< 8.4D
IFPD_L1_C 8.1G< 8.4F
IFPD_L1_C* 8.1G< 8.4F
IFPD_L2 8.1G< 8.4D
IFPD_L2* 8.1G< 8.4D
IFPD_L2_C 8.1G< 8.4F
IFPD_L2_C* 8.1G< 8.4F
IFPD_L3 8.1G< 8.4D
IFPD_L3* 8.1G< 8.4D
IFPD_L3_C 8.1G< 8.4F
IFPD_L3_C* 8.1G< 8.4F
IFPD_PLLVDD 8.1F> 8.3C> 9.2A<
IFPD_RSET 8.1F< 8.4B
JTAG_TCLK 10.1G< 10.2C
JTAG_TDI 10.1G< 10.2C
JTAG_TDO 10.2C 10.2G<
JTAG_TMS 10.1G< 10.2C
JTAG_TRST* 10.2C 10.2G<

NVVDD 13.2G
NVVDD_SENSE 2.4G> 13.1G< 13.4G<
NVVDD_SENSE_R 13.1G< 13.4F
PEX_CLKREQ* 2.1E 2.1G<
PEX_PLL 13.2G
PEX_PLLVDD 2.1G< 2.5F
PEX_PRSNT 2.1C 2.1G<
PEX_REFCLK 2.2D 2.5A<
PEX_REFCLK* 2.2D 2.5A<
PEX_RST 11.1G< 11.3C
PEX_RST* 2.2D> 11.1G< 11.2E<
PEX_RST_R* 11.1G< 11.2F
PEX_RX0 2.2D 2.4A<
PEX_RX0* 2.2D 2.4A<
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PEX_RX15* 2.5A< 2.5D
PEX_SMCLK 2.1D> 10.1G< 10.3B<
PEX_SMDAT 2.2D<> 10.1G<>
10.3B<>
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PEX_TMS 2.1D> 10.2A< 10.2G<
PEX_TRST* 2.1D> 10.2A< 10.2G<
PEX_TSTCLK 2.5A<
PEX_TSTCLK* 2.5A<
PEX_TSTCLK_OUT 2.2E
PEX_TSTCLK_OUT* 2.2E
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PEX_TXX9 2.4A< 2.4D
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PEX_TXX10 2.4A< 2.4D
PEX_TXX10* 2.4A< 2.4D
PEX_TXX11 2.4A< 2.4D
PEX_TXX11* 2.4A< 2.4D
PEX_TXX12 2.4A< 2.4D
PEX_TXX12* 2.4A< 2.4D
PEX_TXX13 2.4A< 2.5D
PEX_TXX13* 2.4A< 2.5D
PEX_TXX14 2.4A< 2.5D
PEX_TXX14* 2.4A< 2.5D
PEX_TXX15 2.4A< 2.5D
PEX_TXX15* 2.4A< 2.5D
PEX_VDD 12.2H
PS_3V3_FUSE_FAULT 12.1G< 12.3F
PS_3V3_FUSE_ISET 12.1G< 12.3F
PS_3V3_FUSE_SLEW 12.1G< 12.3F
PS_5V_ADJ 12.1G< 12.2B
PS_FBVDDQ_BOOT 12.1G< 12.3E
PS_FBVDDQ_CP 12.1G< 12.4E
PS_FBVDDQ_CP_RC 12.1G< 12.4E
PS_FBVDDQ_EN 12.1G< 12.5C
PS_FBVDDQ_EN* 12.1G< 12.5C
PS_FBVDDQ_FB 12.1G< 12.4E
PS_FBVDDQ_FB_RC 12.1G< 12.4G
PS_FBVDDQ_FS 12.1G< 12.4D
PS_FBVDDQ_LG 12.1G< 12.4E
PS_FBVDDQ_PHASE 12.1G< 12.4E
PS_FBVDDQ_PVCC5 12.1G< 12.3E
PS_FBVDDQ_RC 12.1G< 12.4G
PS_FBVDDQ_UG 12.1G< 12.4E
PS_FBVDDQ_UG_R 12.1G< 12.3F
PS_FBVDDQ_VCC5 12.1G< 12.3D
PS_FBVDDQ_VCC12 12.1G< 12.3E
PS_NVVDD_BOOT 13.1G< 13.3C
PS_NVVDD_CP 13.1G< 13.3C
PS_NVVDD_CP_RC 13.1G< 13.4D
PS_NVVDD_EN* 13.1G< 13.4B
PS_NVVDD_FB 13.1G< 13.3C
PS_NVVDD_FB_RC 13.1G< 13.4F
PS_NVVDD_FS 13.1G< 13.3C
PS_NVVDD_LDO 13.1G< 13.3C
PS_NVVDD_LG 13.1G< 13.3C
PS_NVVDD_LG_D 13.1G< 13.3D
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PS_PEX_PLL_ADJ 13.1E 13.2G<
ROM_CS* 10.1G< 10.3E
ROM_SCLK 10.3E< 11.1G> 11.4A>
11.4B
ROM_SI 10.3E< 11.1G> 11.3A>
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ROM_SO 10.3E< 11.1G> 11.3A>
11.3B
ROM_VCC 10.2F
SNN_3V3_AUX 2.1C
SNN_AOZ_7 12.3G
SNN_A_ID0 5.4G
SNN_A_ID2 5.4F
SNN_BUFRST* 10.3E
SNN_CAL_TERM_GND 3.4C
SNN_CEC 10.4E
SNN_DP_CEC 8.4G
SNN_FBA1_NC_A1 4.3A
SNN_FBA1_NC_A11 4.3A
SNN_FBA1_NC_J2 4.2A
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SNN_FBA2_NC_A1 4.3C

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SNN_FBA2_NC_J10 4.2C
SNN_FBA2_NC_L2 4.2C
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SNN_FBA4_NC_T8 4.2F
SNN_FBA4_NC_T11 4.3F
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SNN_GPIO2 10.2E
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SNN_GPIO6 10.2E
SNN_GPIO7 10.2E
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SNN_GPIO18 10.3E
SNN_GPU_AA6 10.3C
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SNN_GPU_D15 9.2H
SNN_GPU_J5 9.2H
SNN_GPU_N3 10.3C
SNN_GPU_T6 10.3C
SNN_GPU_W6 10.3C
SNN_GPU_Y6 10.3C
SNN_HDCP_2 10.4G
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SNN_IFPAB_TXD7* 7.3D
SNN_IFPB_TXC 7.4D
SNN_IFPB_TXC* 7.4D
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SNN_IFPE_L3 9.4C
SNN_IFPE_L3* 9.4C
SNN_IFPE_RSET 9.3B
SNN_PEX_WAKE* 2.2D
SNN_PE_PRSNT2_A 2.1C
SNN_PE_PRSNT2_B 2.2C
SNN_PE_PRSNT2_C 2.3C
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SNN_PE_RSVD4 2.2C
SNN_PE_RSVD5 2.3C
SNN_PE_RSVD6 2.4C
SNN_PE_RSVD7 2.4C
SPDIF 10.1G< 10.4C
STRAP0 10.3C< 11.1G> 11.5A>
11.5B
STRAP1 10.3C< 11.1G> 11.4A>
11.4B

STRAP2 10.3C< 11.1G> 11.4A>
11.4B
STRAP_REF0 10.1G< 10.3C
STRAP_REF1 10.1G< 10.3C
THERMDA 10.1G< 10.2C
THERMDC 10.1C 10.1G<
THERM_N 11.1G< 11.2C
THERM_N_R 11.1G< 11.2B
THERM_P* 11.1G< 11.2C
THERM_P_Q 11.1G< 11.2B
THERM_SHUTDOWN* 11.1G> 11.2A> 13.4A<
XTALOUTBUFF 10.1F< 10.5E
XTALSSIN 10.1F< 10.5C
XTAL_IN 10.1F< 10.5C
XTAL_OUT 10.1F< 10.5D

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