P690: GT218, DDR3 MEMORY 64MX16/32MX16

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

V183 5.0 pcb change list

Page 5：Del Slim type VGA connector

Page 6：Del Fly cable VGA connector

Page 7：Del DVI-I connector , Add DMS59 connector

Page 8：Del HDMI connector

SKU	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10690-BASE-000	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0000	600-10690-0000-000	GT218-300, 550/1375/800, 512MB/64bit, 64Mx16 DDR3, DVI-DL+DP+VGA, DT
2	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
3	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
4	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
5	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
6	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
7	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
8	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
9	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
10	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
11	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
12	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
13	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
14	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
15	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	P690 Overview

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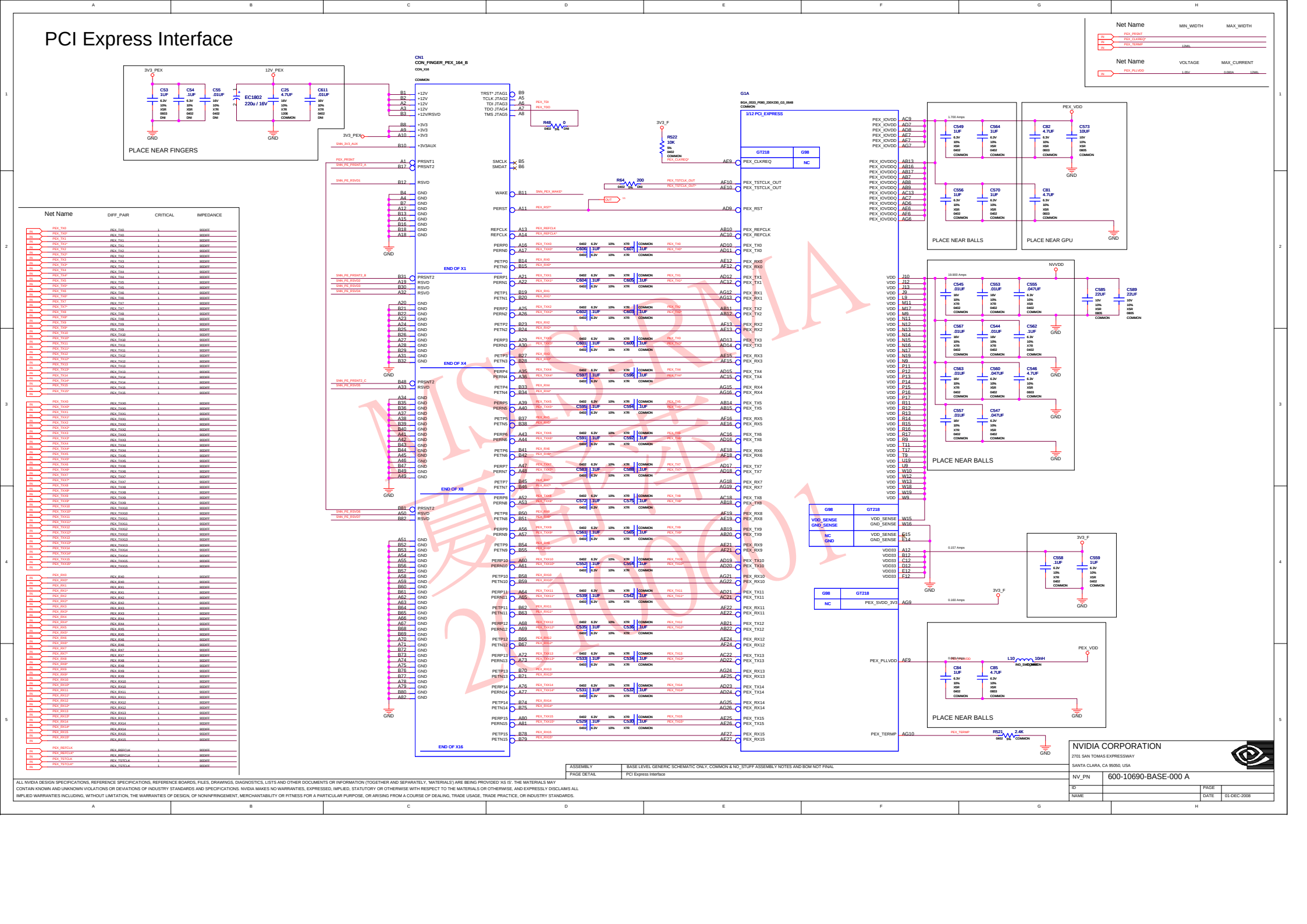
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

PCI Express Interface



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PCI Express Interface

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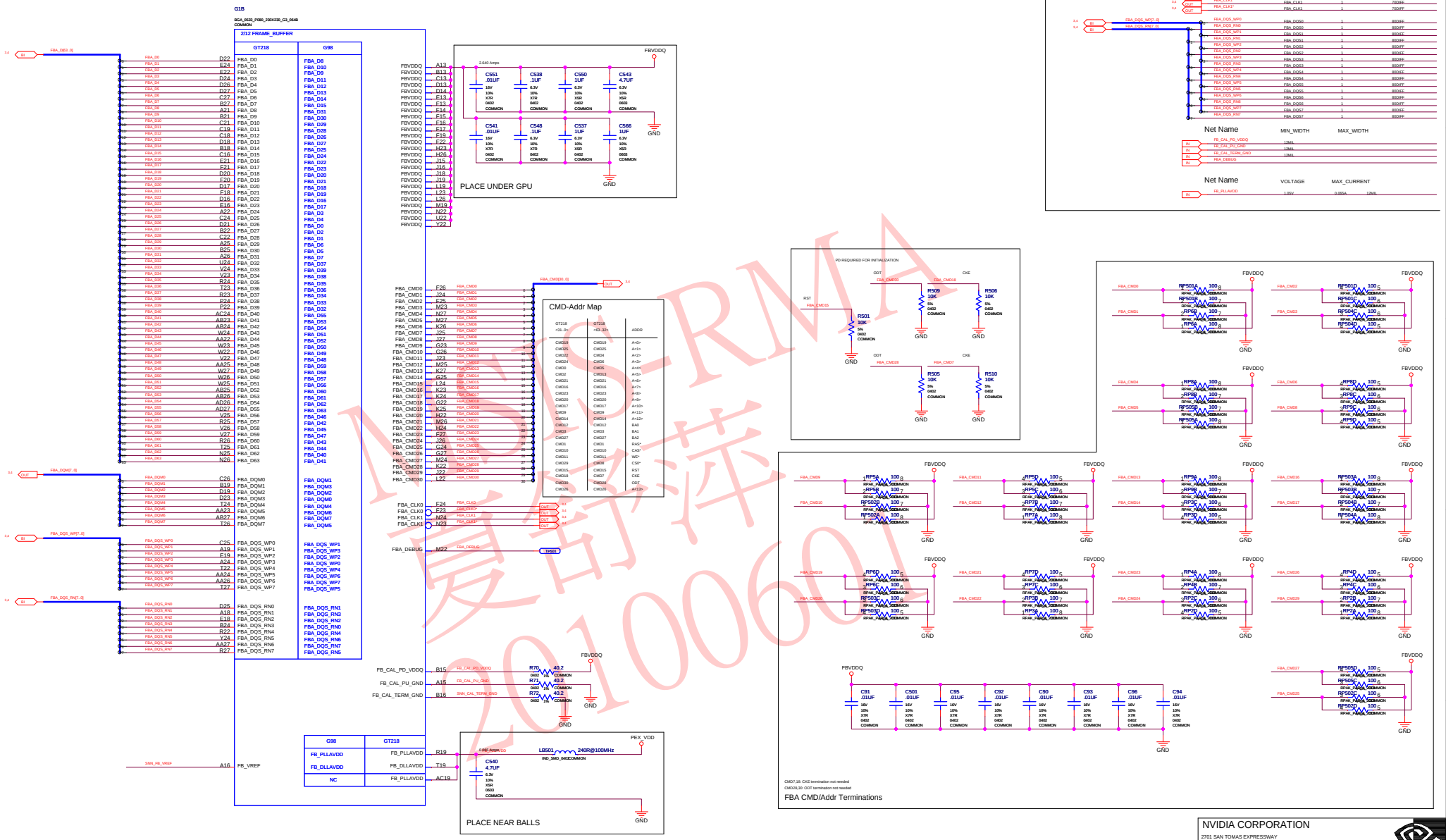
ID		PAGE	
NAME		DATE	01-DEC-2008

Frame Buffer Interface



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NV_PN	600-10690-BASE-000 A
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NAME	
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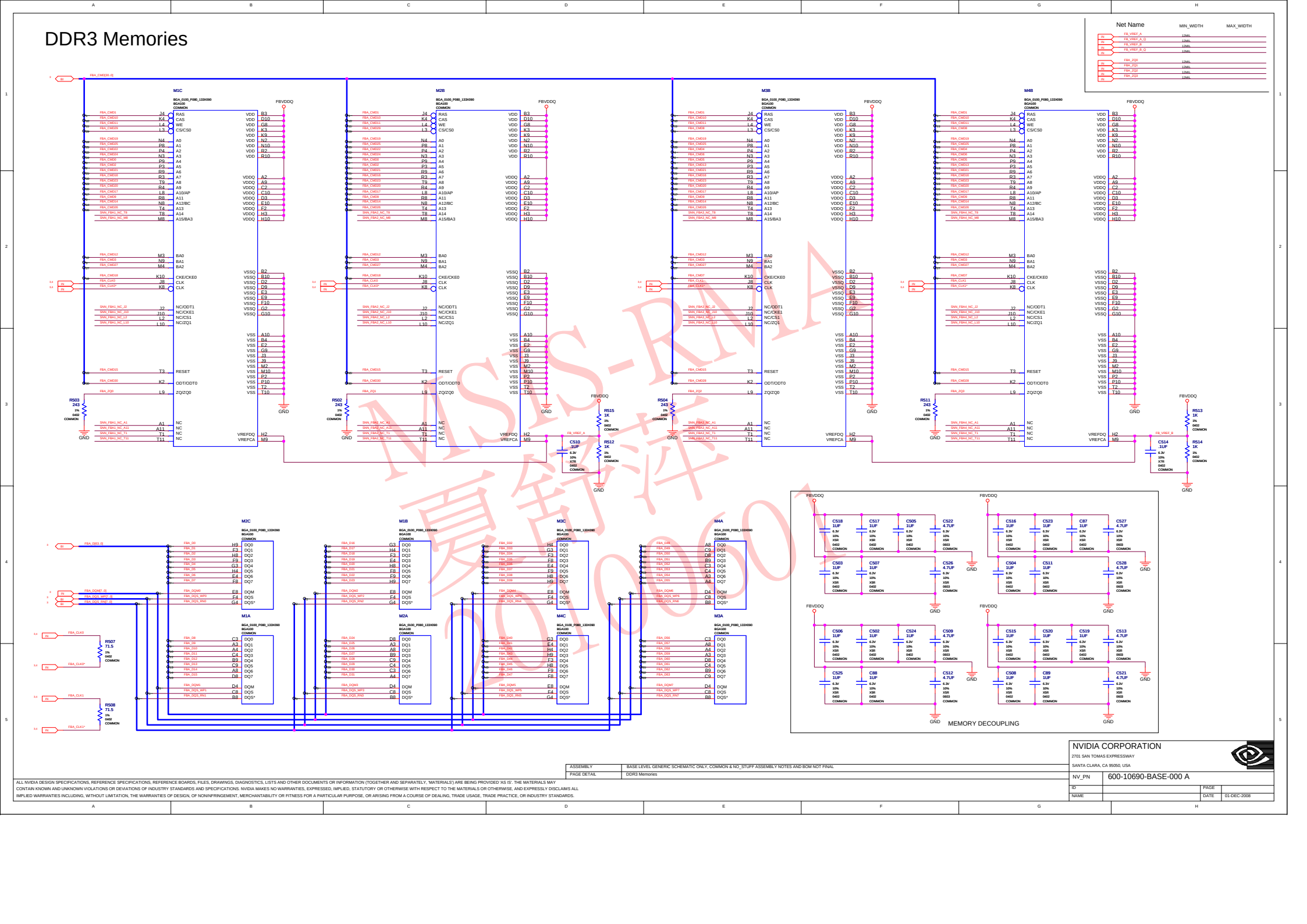
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Frame Buffer Interface

DDR3 Memories



Net Name	MIN_WIDTH	MAX_WIDTH
FB_VREF_A	12MIL	
FB_VREF_A_Q	12MIL	
FB_VREF_B	12MIL	
FB_VREF_B_Q	12MIL	
FBA_ZQ0	12MIL	
FBA_ZQ1	12MIL	
FBA_ZQ2	12MIL	
FBA_ZQ3	12MIL	

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DDR3 Memories

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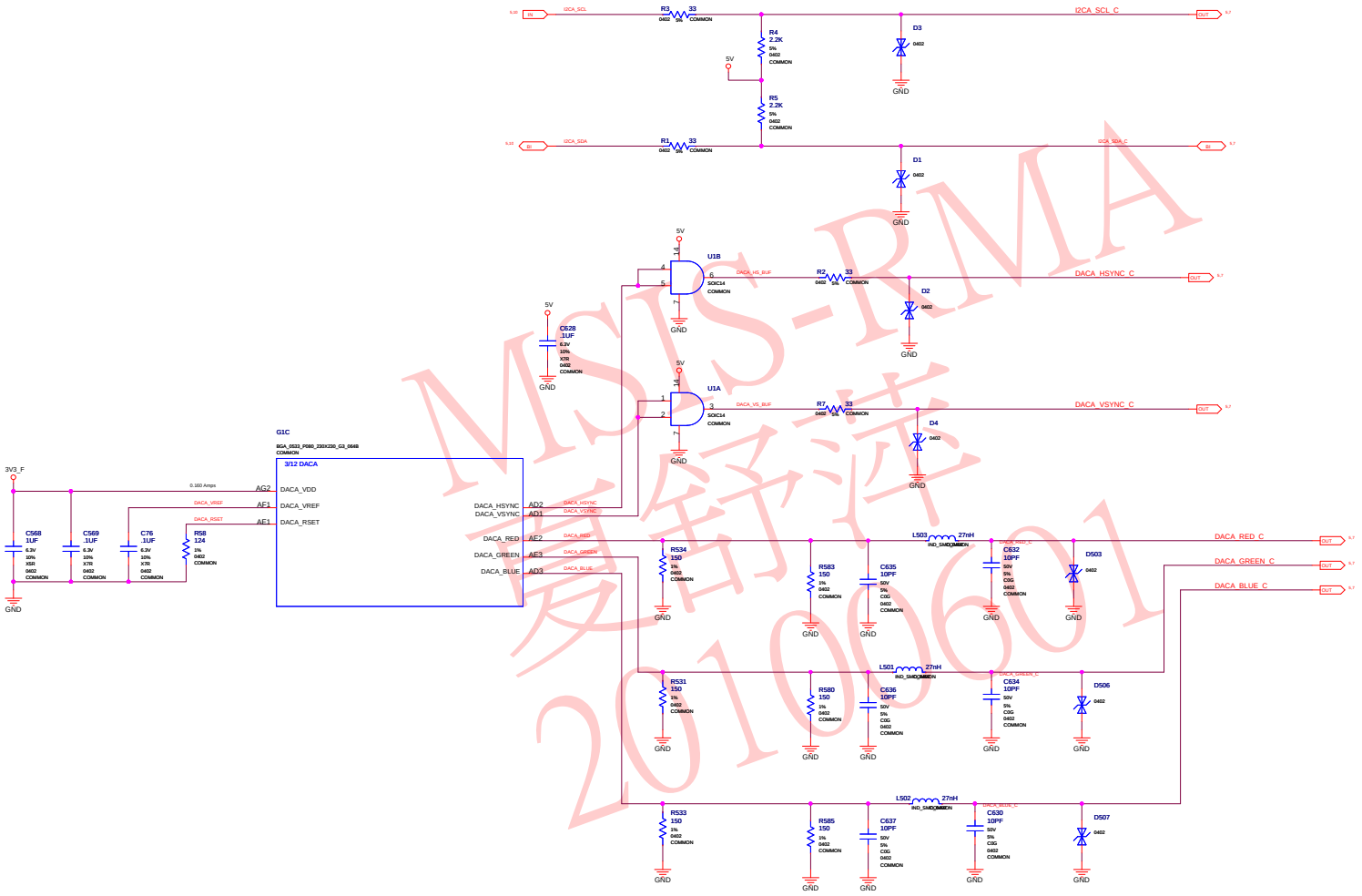
NAME	
PAGE	
DATE	01-DEC-2008

DAC A Slim VGA



Net Name | CRITICAL | IMPEDANCE

DACA_RED, DACA_GREEN, DACA_BLUE, DACA_RED_C, DACA_GREEN_C, DACA_BLUE_C — 1 — 50OHM

DACA_HSYNC, DACA_VSYNC, DACA_HS_BUF, DACA_VS_BUF, DACA_HSYNC_C, DACA_VSYNC_C — 2 — 50OHM

Net Name | MIN_WIDTH | MAX_WIDTH

I2CA_SCL, I2CA_SDA, I2CA_SCL_C, I2CA_SDA_C

Net Name | VOLTAGE | MAX_CURRENT

DACA_VREF — 1.2V — 12MIL

DACA_RSET — 12MIL

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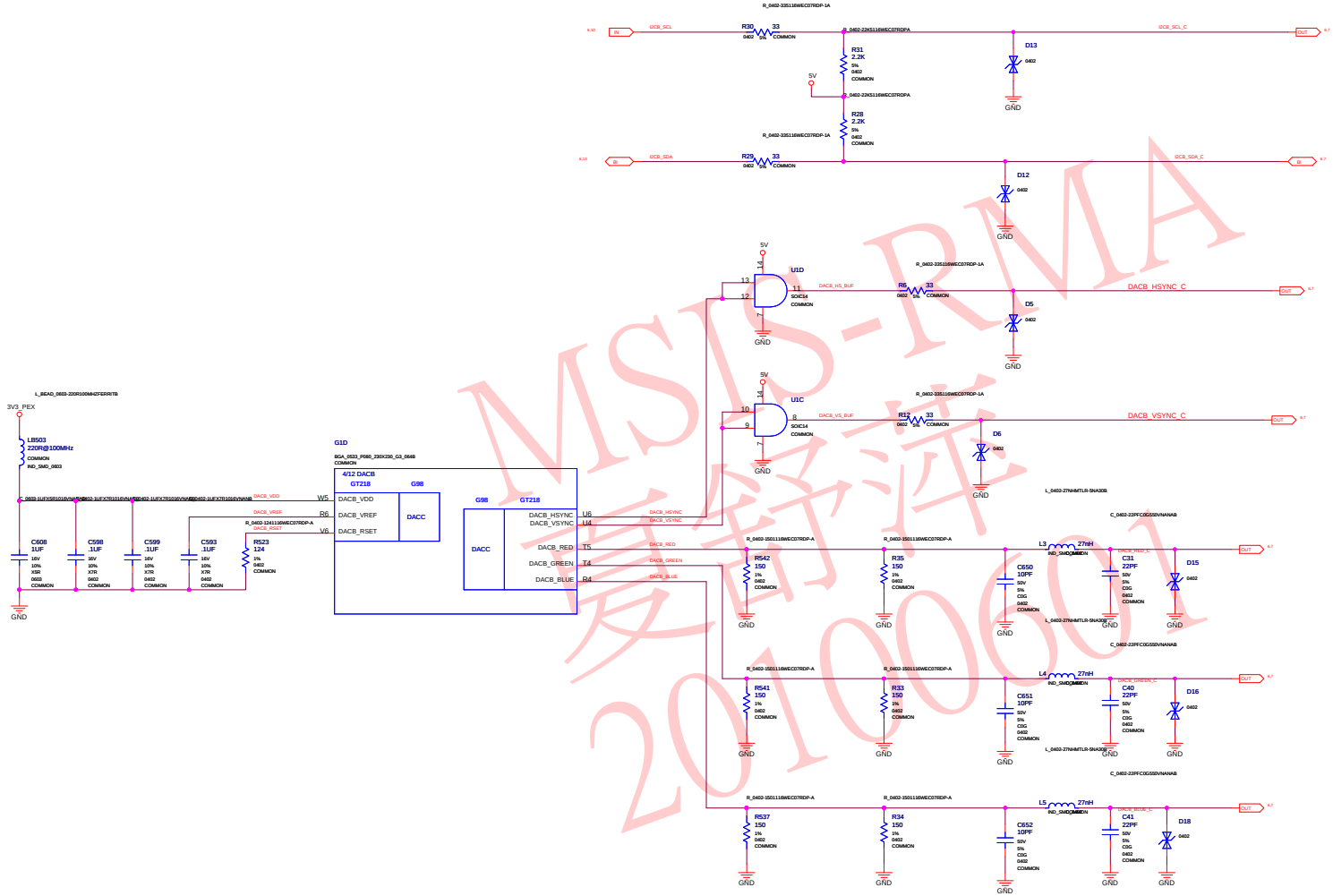
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

DAC B VGA Header



Net Name | CRITICAL | IMPEDANCE

DACB_RED 1 50OHM
DACB_GREEN 1 50OHM
DACB_BLUE 1 50OHM
DACB_RED_C 1 50OHM
DACB_GREEN_C 1 50OHM
DACB_BLUE_C 1 50OHM
DACB_HSYNC 2 50OHM
DACB_VSYNC 2 50OHM
DACB_HSYNC_C 2 50OHM
DACB_VSYNC_C 2 50OHM
DACB_HS_BUF 2 50OHM
DACB_VS_BUF 2 50OHM

Net Name | MIN_WIDTH | MAX_WIDTH

I2CB_SCL
I2CB_SDA
I2CB_SCL_C
I2CB_SDA_C

Net Name | VOLTAGE | MAX_CURRENT

DACB_VREF 1.2V 12MIL
DACB_RSET 12MIL

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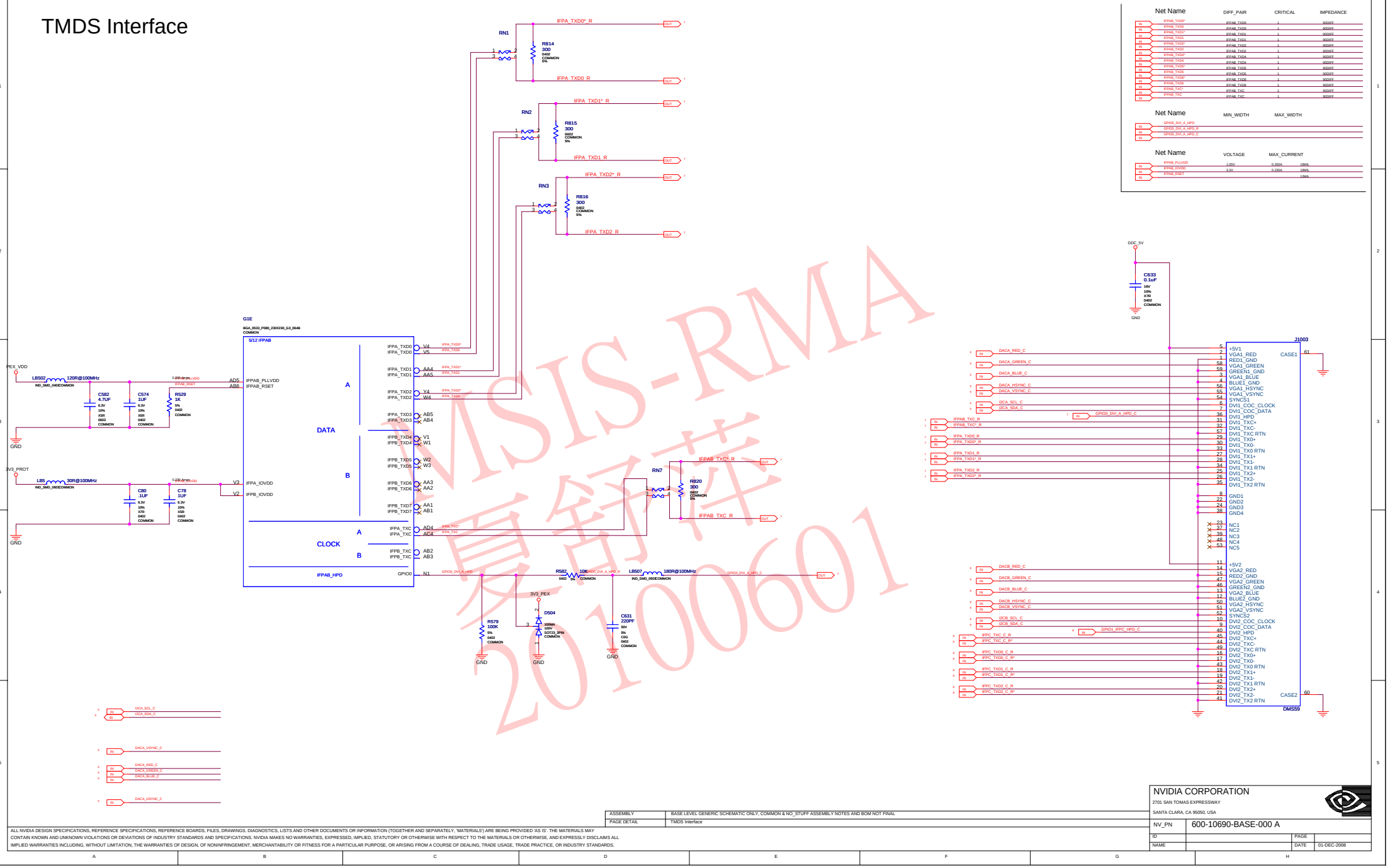
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

TMDS Interface



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

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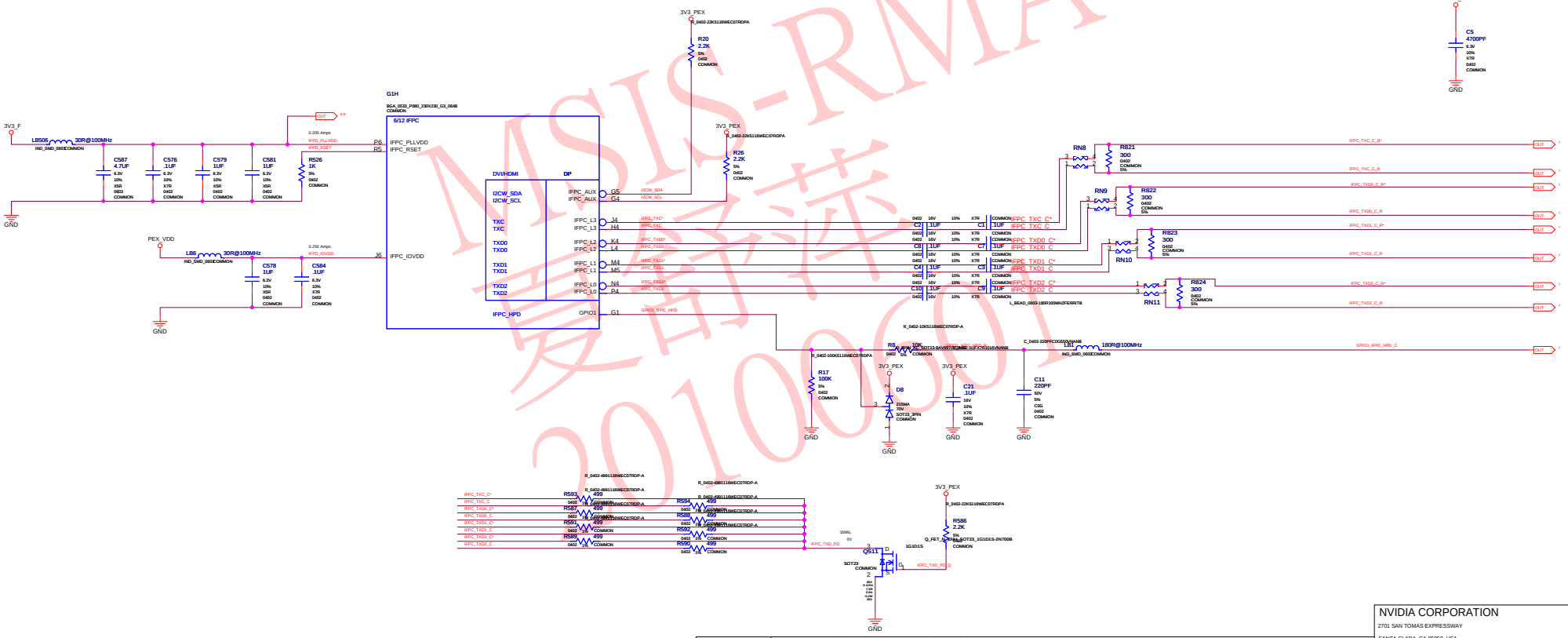
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

Link C



Net Name	MIN_WIDTH	MAX_WIDTH
GPIO_DP_HPD_C		
GPIO_DP_HPD_R		
GPIO19_IFPD_HPD		
IFPD_AUX_SEL		
DP_MODE*		
DP_MODE_C		

Net Name	VOLTAGE	MAX_CURRENT	
IFPD_PLLVDD	3.3V	0.200A	10MIL
IFPD_IOVDD	1.05V	0.250A	10MIL
IFPD_RSET			12MIL

Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IFPD_AUX*	IFPD_AUX	1	90OHM
IFPD_AUX	IFPD_AUX	1	90OHM
IFPD_AUX_BYP*	IFPD_AUX_BYP	1	90OHM
IFPD_AUX_BYP	IFPD_AUX_BYP	1	90OHM
IFPD_AUX_C*	IFPD_AUX_C	1	90OHM
IFPD_AUX_C	IFPD_AUX_C	1	90OHM
IFPD_L3*	IFPD_L3	1	90OHM
IFPD_L3	IFPD_L3	1	90OHM
IFPD_L2*	IFPD_L2	1	90OHM
IFPD_L2	IFPD_L2	1	90OHM
IFPD_L1*	IFPD_L1	1	90OHM
IFPD_L1	IFPD_L1	1	90OHM
IFPD_L0*	IFPD_L0	1	90OHM
IFPD_L0	IFPD_L0	1	90OHM
IFPD_L3_C*	IFPD_L3_C	1	90OHM
IFPD_L3_C	IFPD_L3_C	1	90OHM
IFPD_L2_C*	IFPD_L2_C	1	90OHM
IFPD_L2_C	IFPD_L2_C	1	90OHM
IFPD_L1_C*	IFPD_L1_C	1	90OHM
IFPD_L1_C	IFPD_L1_C	1	90OHM
IFPD_L0_C*	IFPD_L0_C	1	90OHM
IFPD_L0_C	IFPD_L0_C	1	90OHM

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

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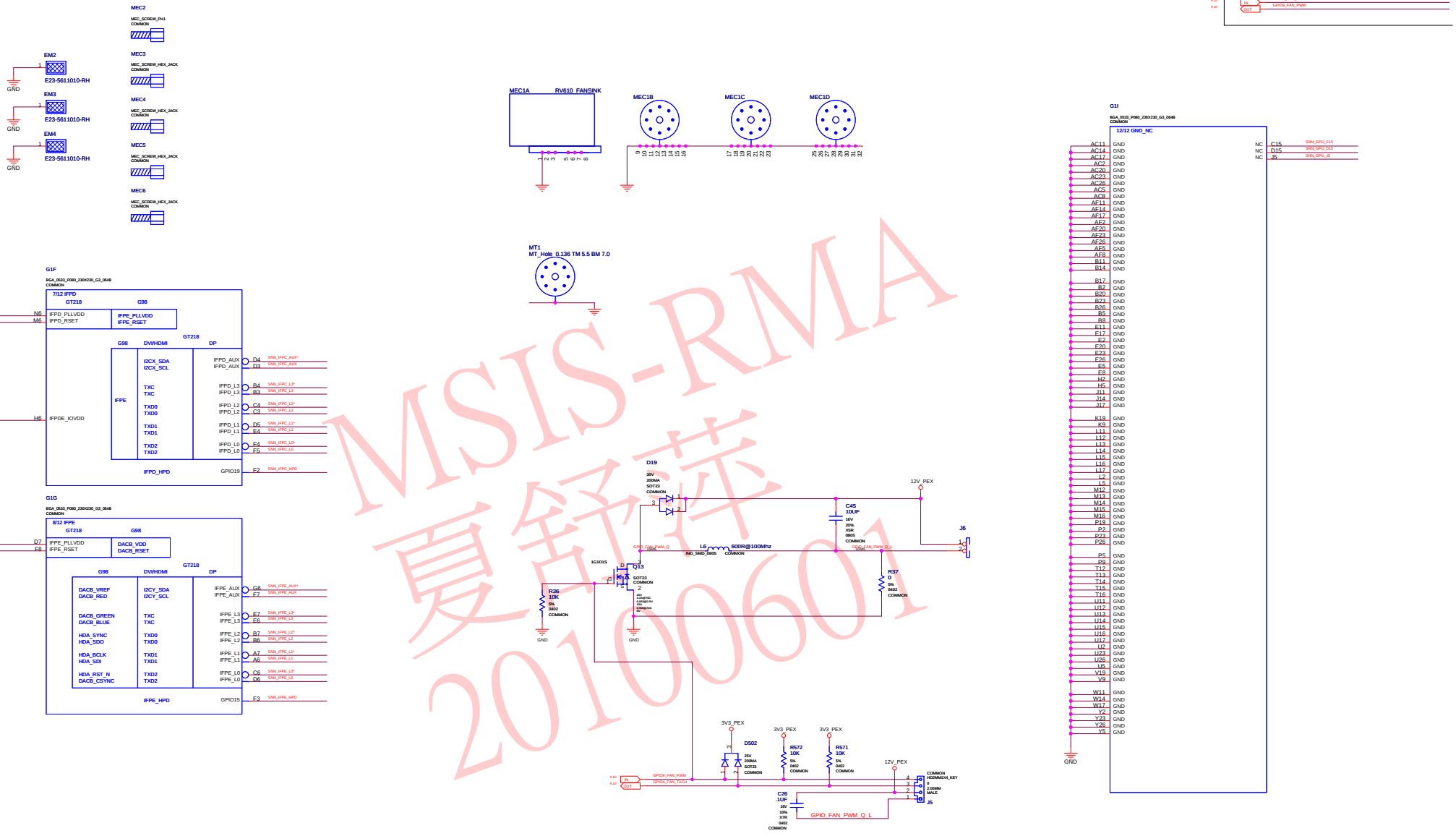
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

IFPC, IFPE Interface, Fan, Mechanical



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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NV_PN	600-10690-BASE-000 A		
ID		PAGE	
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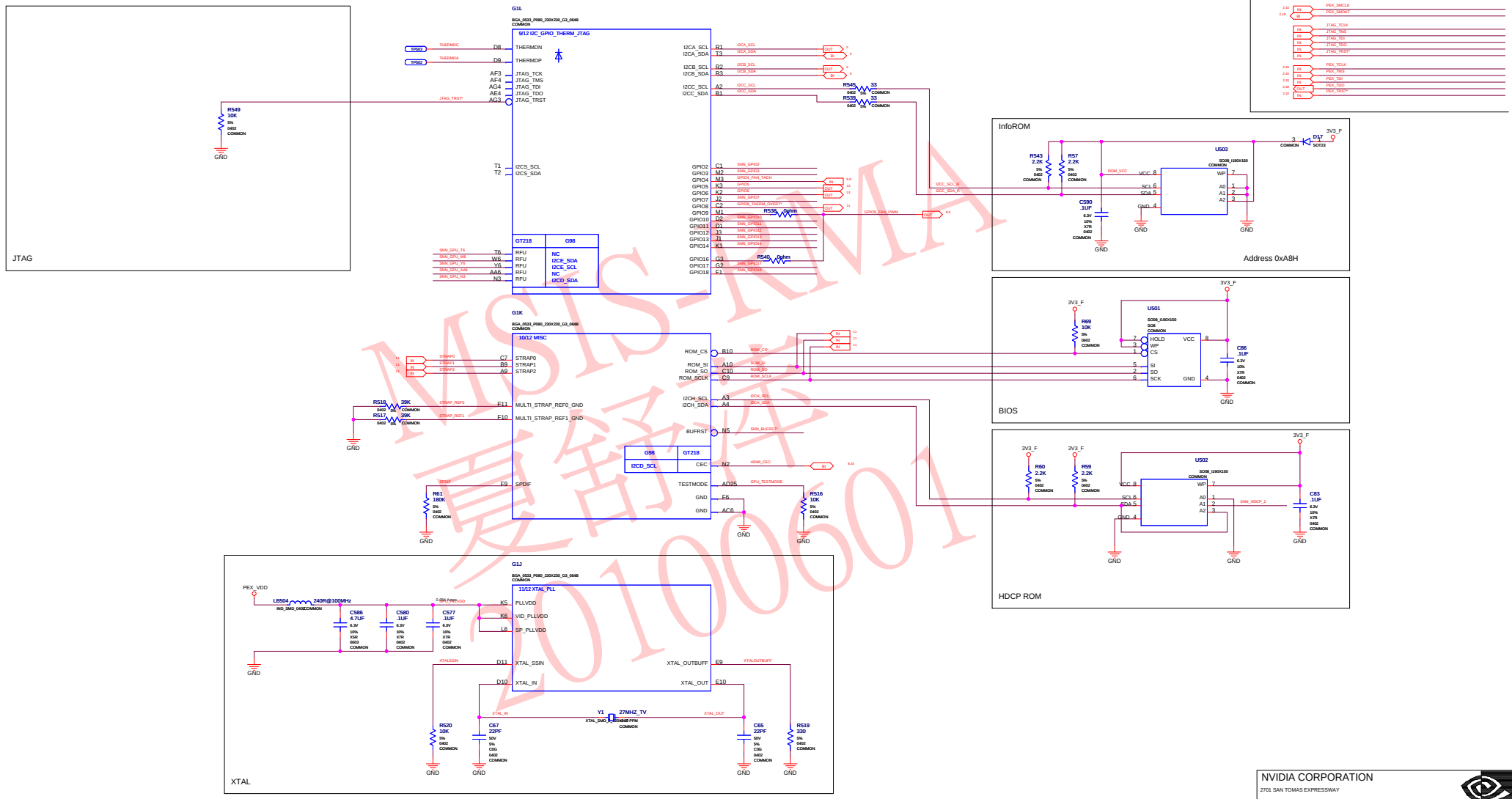
XTAL, ROM, SPDIF, JTAG



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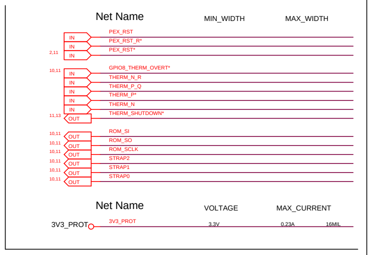
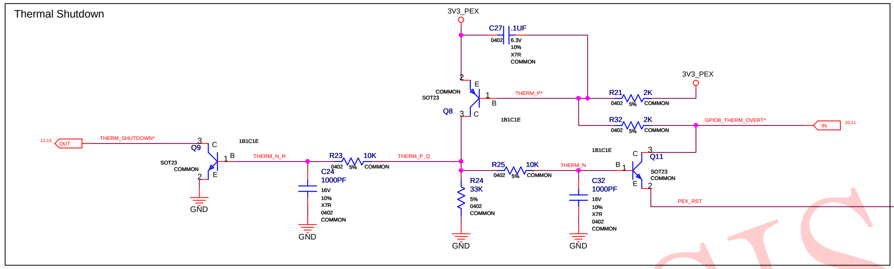
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

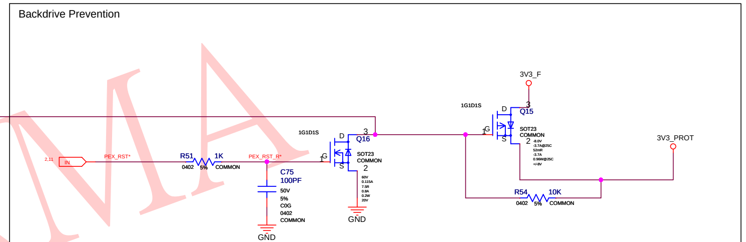
Thermal Protection, IFP_IOVDD, Straps



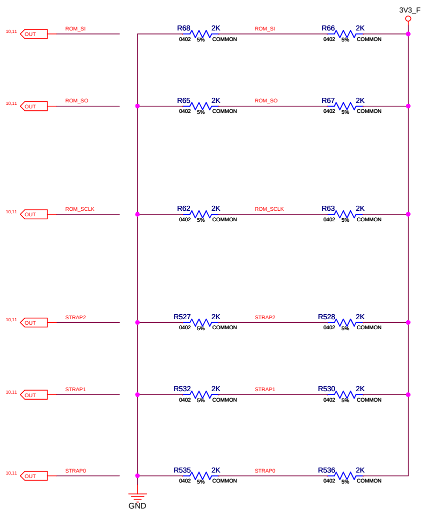
Thermal Shutdown



Backdrive Prevention



3V3_PROT = 3.3V @ 230mA



GT218 Straps MLS Mode

Bit	Signal	Values		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	0x9E		
		1	0x9C		
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	1000	DSKTOP_HTHRS
		0001	MOBILE_DEFAULT	1001	MOBILE_HTHRS_NAMP
02:	3GIO_PADCFG_LUT_ADR[2]	0010	MOBILE_NTHRS_LLAMP	1010	MOBILE_HTHRS_LLAMP
		0011	MOBILE_NTHRS_LAMP	1011	MOBILE_HTHRS_LAMP
01:	3GIO_PADCFG_LUT_ADR[1]	0100	MOBILE_NTHRS_HAMP	1100	MOBILE_HTHRS_HAMP
		0101	MOBILE_NTHRS_HHAMP	1101	MOBILE_HTHRS_HHAMP
00:	3GIO_PADCFG_LUT_ADR[0]	0110	MOBILE_NTHRS_HHHAMP	1110	MOBILE_HTHRS_HHHAMP
		0111	MOBILE_NTHRS_HHHHAMP	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
45K 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
45K 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
3GIO_PADCFG_LUT_ADR[2]	1100	MOBILE_HTHRS_HAMP
	1101	MOBILE_HTHRS_HHAMP
	1110	MOBILE_HTHRS_HHHAMP
	1111	MOBILE_HTHRS_HHHHAMP
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[2]	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

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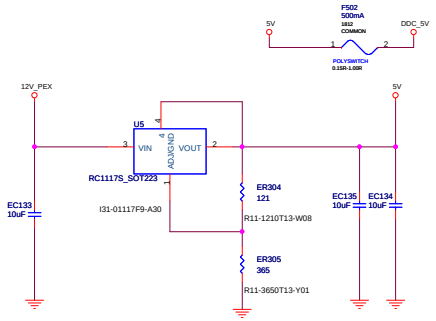
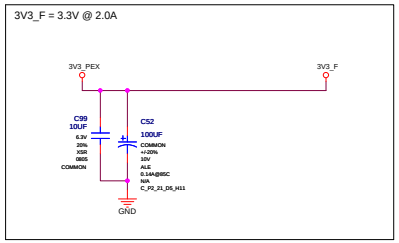
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Thermal Protection, IFP_IOVDD, Straps

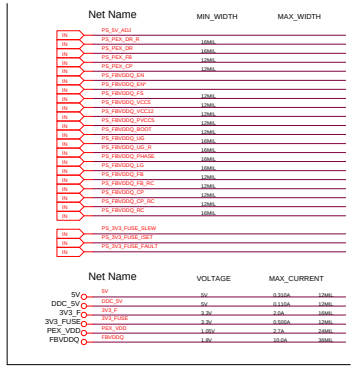
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

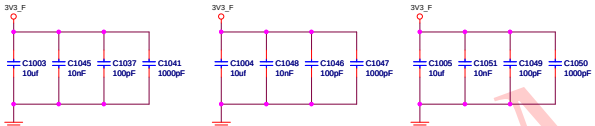
Power Supply I: FBVDD/Q, PEX_VDD, 5V, 3V3_F

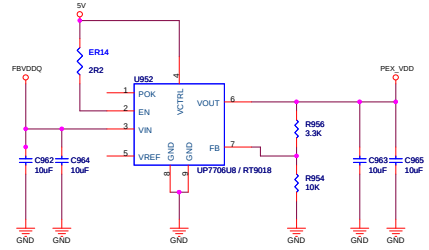


Vout=1.25V* [1+(ER305/ER304)]

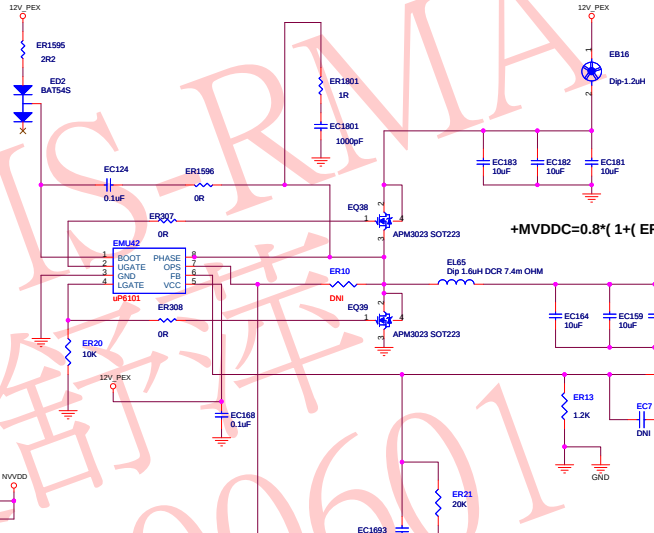






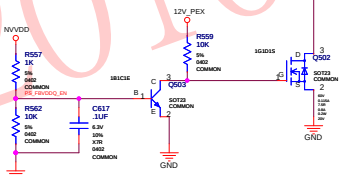


Vout=0.8V * (1+ R995 / R954)



PEX_VDD = 1.05V @ 2.7A

Memory Power Seq



FBVDDQ Power Sequencing

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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NV_PN	600-10690-BASE-000 A		
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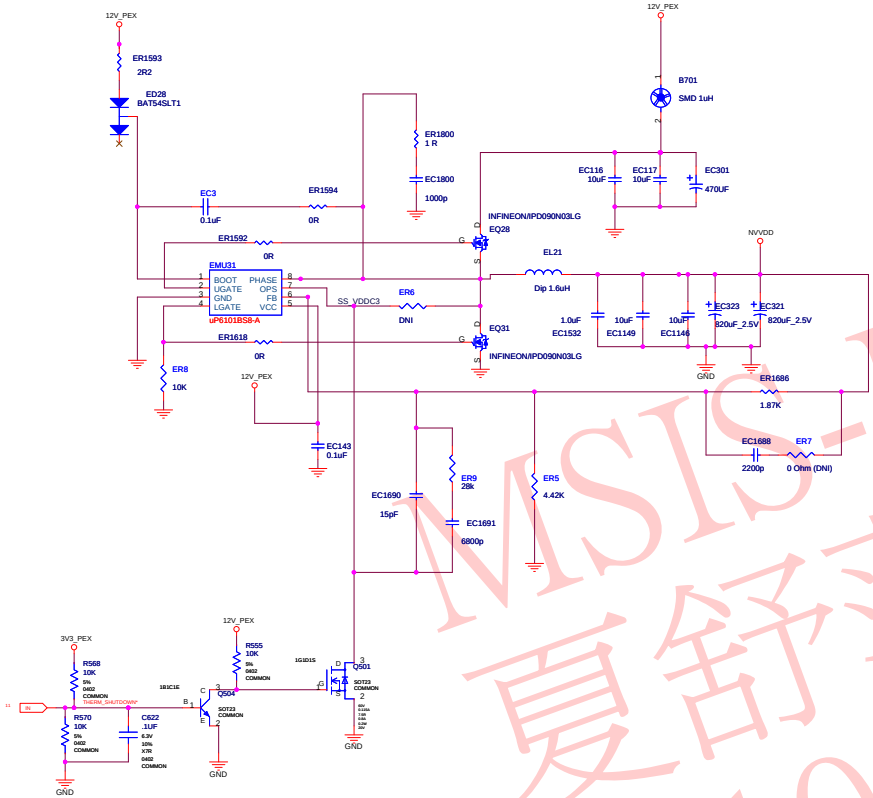
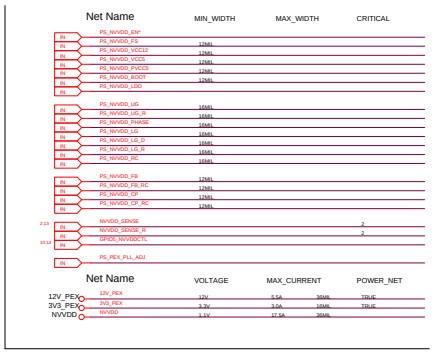
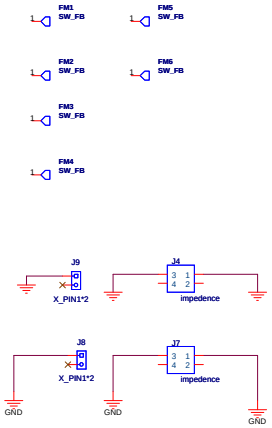
Power Supply II: PLLVDD, NVVDD







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

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10690-BASE-000 A		
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Title: Basenet Report
Design: design
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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
DACB_BLUE 6.1G< 6.4C
DACB_BLUE_C 6.1G< 6.5E
DACB_GREEN 6.1G< 6.4C
DACB_GREEN_C 6.1G< 6.4E
DACB_HSYNC 6.1G< 6.4C
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
DACB_RSET 6.2G< 6.4B
DACB_VREF 6.2G< 6.4B
DACB_VSYNC 6.1G< 6.4C
DACB_VSYNC_C 6.1G< 6.3E
DACB_VS_BUF 6.1G< 6.3D
DDC_5V 12.2H
DP_MODE* 8.1F< 8.2F
DP_MODE_C 8.1F< 8.3G
FBA_CLK0 3.1G> 3.4D> 4.2A< 4.2B< 4.4A<
FBA_CLK0* 3.1G> 3.4D> 4.2A< 4.2B< 4.5A<
FBA_CLK1 3.1G> 3.4D> 4.2D< 4.2F< 4.5A<
FBA_CLK1* 3.1G> 3.4D> 4.2D< 4.2F< 4.5A<
FBA_CMD<0> 3.2C 3.2G 4.1A 4.1C
FBA_CMD<30..0> 3.1G> 3.2D> 4.1A<>
FBA_CMD<1> 3.2C 3.2G 4.1A 4.1C 4.1E 4.1F
FBA_CMD<2> 3.2C 3.2H 4.1A 4.1C
FBA_CMD<3> 3.2C 3.2H 4.2A 4.2C 4.2E 4.2F
FBA_CMD<4> 3.2C 3.3G 4.1E 4.1F
FBA_CMD<5> 3.3C 3.3G 4.1E 4.1F
FBA_CMD<6> 3.3C 3.3H 4.1E 4.1F
FBA_CMD<7> 3.3C 3.3F 4.2E 4.2F
FBA_CMD<8> 3.3C 3.3H 4.1E 4.1F
FBA_CMD<9> 3.3C 3.3E 4.2A 4.2C 4.2E 4.2F
FBA_CMD<10> 3.3C 3.3E 4.1A 4.1C 4.1E 4.1F
FBA_CMD<11> 3.3C 3.3F 4.1A 4.1C 4.1E 4.1F
FBA_CMD<12> 3.3C 3.3F 4.2A 4.2C 4.2E 4.2F
FBA_CMD<13> 3.3C 3.3G 4.1E 4.1F
FBA_CMD<14> 3.3C 3.3G 4.2A 4.2C 4.2E 4.2F
FBA_CMD<15> 3.2E 3.3C 4.3A 4.3C 4.3E 4.3F
FBA_CMD<16> 3.3C 3.3H 4.2A 4.2C 4.2E 4.2F
FBA_CMD<17> 3.3C 3.3H 4.2A 4.2C 4.2E 4.2F
FBA_CMD<18> 3.2F 3.3C 4.2A 4.2C
FBA_CMD<19> 3.3C 3.4E 4.1A 4.1C 4.1E 4.1F
FBA_CMD<20> 3.3C 3.4E 4.2A 4.2C 4.2E 4.2F
FBA_CMD<21> 3.3C 3.4F 4.2A 4.2C 4.2E 4.2F
FBA_CMD<22> 3.3C 3.4F 4.1A 4.1C
FBA_CMD<23> 3.3C 3.4G 4.2A 4.2C 4.2E 4.2F
FBA_CMD<24> 3.3C 3.4G 4.1A 4.1C
FBA_CMD<25> 3.3C 3.4H 4.1A 4.1C 4.1E 4.1F

FBA_CMD<26> 3.3C 3.4H 4.2A 4.2C 4.2E 4.2F
FBA_CMD<27> 3.3C 3.4H 4.2A 4.2C 4.2E 4.2F
FBA_CMD<28> 3.3C 3.3E 4.3E 4.3F
FBA_CMD<29> 3.3C 3.4H 4.1A 4.1C
FBA_CMD<30> 3.2E 3.3C 4.3A 4.3C
FBA_D<0> 3.1B 4.4B
FBA_D<63..0> 3.1A<> 3.1G<> 4.4A<>
FBA_D<1> 3.1B 4.4B
FBA_D<2> 3.1B 4.4B
FBA_D<3> 3.1B 4.4B
FBA_D<4> 3.1B 4.4B
FBA_D<5> 3.1B 4.4B
FBA_D<6> 3.1B 4.4B
FBA_D<7> 3.1B 4.4B
FBA_D<8> 3.1B 4.4B
FBA_D<9> 3.1B 4.5B
FBA_D<10> 3.1B 4.5B
FBA_D<11> 3.2B 4.5B
FBA_D<12> 3.2B 4.5B
FBA_D<13> 3.2B 4.5B
FBA_D<14> 3.2B 4.5B
FBA_D<15> 3.2B 4.5B
FBA_D<16> 3.2B 4.4C
FBA_D<17> 3.2B 4.4C
FBA_D<18> 3.2B 4.4C
FBA_D<19> 3.2B 4.4C
FBA_D<20> 3.2B 4.4C
FBA_D<21> 3.2B 4.4C
FBA_D<22> 3.2B 4.4C
FBA_D<23> 3.2B 4.4C
FBA_D<24> 3.2B 4.4C
FBA_D<25> 3.2B 4.5C
FBA_D<26> 3.2B 4.5C
FBA_D<27> 3.2B 4.5C
FBA_D<28> 3.2B 4.5C
FBA_D<29> 3.2B 4.5C
FBA_D<30> 3.2B 4.5C
FBA_D<31> 3.2B 4.5C
FBA_D<32> 3.2B 4.4D
FBA_D<33> 3.2B 4.4D
FBA_D<34> 3.2B 4.4D
FBA_D<35> 3.2B 4.4D
FBA_D<36> 3.2B 4.4D
FBA_D<37> 3.2B 4.4D
FBA_D<38> 3.2B 4.4D
FBA_D<39> 3.2B 4.4D
FBA_D<40> 3.2B 4.4D
FBA_D<41> 3.3B 4.5D
FBA_D<42> 3.3B 4.5D
FBA_D<43> 3.3B 4.5D
FBA_D<44> 3.3B 4.5D
FBA_D<45> 3.3B 4.5D
FBA_D<46> 3.3B 4.5D
FBA_D<47> 3.3B 4.5D
FBA_D<48> 3.3B 4.4E
FBA_D<49> 3.3B 4.4E
FBA_D<50> 3.3B 4.4E
FBA_D<51> 3.3B 4.4E
FBA_D<52> 3.3B 4.4E
FBA_D<53> 3.3B 4.4E
FBA_D<54> 3.3B 4.4E
FBA_D<55> 3.3B 4.4E
FBA_D<56> 3.3B 4.4E
FBA_D<57> 3.3B 4.5E
FBA_D<58> 3.3B 4.5E
FBA_D<59> 3.3B 4.5E
FBA_D<60> 3.3B 4.5E
FBA_D<61> 3.3B 4.5E
FBA_D<62> 3.3B 4.5E
FBA_D<63> 3.3B 4.5E
FBA_DEBUG 3.2G< 3.4C
FBA_DQM<0> 3.3B 4.4B
FBA_DQM<7..0> 3.1G> 3.3A> 4.4A<
FBA_DQM<1> 3.3B 4.5B
FBA_DQM<2> 3.3B 4.4C
FBA_DQM<3> 3.3B 4.5C
FBA_DQM<4> 3.3B 4.4D
FBA_DQM<5> 3.4B 4.5D
FBA_DQM<6> 3.4B 4.4E
FBA_DQM<7> 3.4B 4.5E
FBA_DQS_RN<0> 3.1G 3.4B 4.4B
FBA_DQS_RN<7..0> 3.1G<> 3.4A<> 4.4A<>
FBA_DQS_RN<1> 3.1G 3.4B 4.5B
FBA_DQS_RN<2> 3.1G 3.4B 4.4C
FBA_DQS_RN<3> 3.1G 3.4B 4.5C
FBA_DQS_RN<4> 3.1G 3.4B 4.4D
FBA_DQS_RN<5> 3.1G 3.4B 4.5D
FBA_DQS_RN<6> 3.1G 3.4B 4.4E
FBA_DQS_RN<7> 3.1G 3.4B 4.5E
FBA_DQS_WP<0> 3.1G 3.4B 4.4B
FBA_DQS_WP<7..0> 3.1G<> 3.4A<> 4.4A<>
FBA_DQS_WP<1> 3.1G 3.4B 4.5B
FBA_DQS_WP<2> 3.1G 3.4B 4.4C
FBA_DQS_WP<3> 3.1G 3.4B 4.5C

FBA_DQS_WP<4> 3.1G 3.4B 4.4D
FBA_DQS_WP<5> 3.1G 3.4B 4.5D
FBA_DQS_WP<6> 3.1G 3.4B 4.4E
FBA_DQS_WP<7> 3.1G 3.4B 4.5E
FBA_ZQ0 4.1G< 4.3A
FBA_ZQ1 4.1G< 4.3C
FBA_ZQ2 4.1G< 4.3E
FBA_ZQ3 4.1G< 4.3F
FBVDDQ 12.2H
FB_CAL_PD_VDDQ 3.2G< 3.4C
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_NVDDCTL 10.2E> 13.1G< 13.5D<
GPIO5_NVDDCTL_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<

NVDD 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<
PEX_RX1 2.2D 2.4A<
PEX_RX1* 2.2D 2.4A<
PEX_RX2 2.2D 2.4A<
PEX_RX2* 2.3D 2.4A<
PEX_RX3 2.3D 2.4A<
PEX_RX3* 2.3D 2.4A<
PEX_RX4 2.3D 2.4A<
PEX_RX4* 2.3D 2.4A<
PEX_RX5 2.3D 2.4A<
PEX_RX5* 2.3D 2.4A<
PEX_RX6 2.3D 2.5A<
PEX_RX6* 2.3D 2.5A<
PEX_RX7 2.3D 2.5A<
PEX_RX7* 2.4D 2.5A<
PEX_RX8 2.4D 2.5A<
PEX_RX8* 2.4D 2.5A<
PEX_RX9 2.4D 2.5A<
PEX_RX9* 2.4D 2.5A<
PEX_RX10 2.4D 2.5A<
PEX_RX10* 2.4D 2.5A<
PEX_RX11 2.4D 2.5A<
PEX_RX11* 2.4D 2.5A<
PEX_RX12 2.4D 2.5A<
PEX_RX12* 2.5A< 2.5D
PEX_RX13 2.5A< 2.5D
PEX_RX13* 2.5A< 2.5D
PEX_RX14 2.5A< 2.5D
PEX_RX14* 2.5A< 2.5D
PEX_RX15 2.5A< 2.5D
PEX_RX15* 2.5A< 2.5D
PEX_SMCLK 2.1D> 10.1G< 10.3B<
PEX_SMDAT 2.2D<> 10.1G<> 10.3B<>
PEX_TCLK 2.1D> 10.2A< 10.2G<
PEX_TDI 2.1D> 10.2A< 10.2G<
PEX_TDO 2.1D< 10.2A> 10.2G>
PEX_TERMP 2.1G< 2.5F
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
PEX_TX0 2.2A< 2.2E
PEX_TX0* 2.2A< 2.2E
PEX_TX1 2.2A< 2.2E
PEX_TX1* 2.2A< 2.2E
PEX_TX2 2.2A< 2.2E
PEX_TX2* 2.2A< 2.2E
PEX_TX3 2.2A< 2.3E
PEX_TX3* 2.2A< 2.3E
PEX_TX4 2.2A< 2.3E
PEX_TX4* 2.2A< 2.3E
PEX_TX5 2.2A< 2.3E
PEX_TX5* 2.2A< 2.3E
PEX_TX6 2.2A< 2.3E
PEX_TX6* 2.2A< 2.3E
PEX_TX7 2.2A< 2.3E
PEX_TX7* 2.3D 2.4A<
PEX_TX8 2.2A< 2.4E
PEX_TX8* 2.2A< 2.4E
PEX_TX9 2.3A< 2.4E
PEX_TX9* 2.3A< 2.4E
PEX_TX10 2.3A< 2.4E
PEX_TX10* 2.3A< 2.4E
PEX_TX11 2.3A< 2.4E
PEX_TX11* 2.3A< 2.4E
PEX_TX12 2.3A< 2.4E
PEX_TX12* 2.3A< 2.4E
PEX_TX13 2.3A< 2.5E
PEX_TX13* 2.3A< 2.5E
PEX_TX14 2.3A< 2.5E
PEX_TX14* 2.3A< 2.5E
PEX_TX15 2.3A< 2.5E
PEX_TX15* 2.3A< 2.5E
PEX_TXX0 2.2D 2.3A<
PEX_TXX0* 2.2D 2.3A<
PEX_TXX1 2.2D 2.3A<
PEX_TXX1* 2.2D 2.3A<
PEX_TXX2 2.2D 2.3A<
PEX_TXX2* 2.2D 2.3A<
PEX_TXX3 2.3A< 2.3D
PEX_TXX3* 2.3A< 2.3D
PEX_TXX4 2.3A< 2.3D
PEX_TXX4* 2.3A< 2.3D
PEX_TXX5 2.3A< 2.3D
PEX_TXX5* 2.3A< 2.3D
PEX_TXX6 2.3A< 2.3D
PEX_TXX6* 2.3A< 2.3D
PEX_TXX7 2.3A< 2.3D
PEX_TXX7* 2.3D 2.4A<
PEX_TXX8 2.4A< 2.4D
PEX_TXX8* 2.4A< 2.4D
PEX_TXX9 2.4A< 2.4D
PEX_TXX9* 2.4A< 2.4D
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_PVCCS 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_NVDD_BOOT 13.1G< 13.3C
PS_NVDD_CP 13.1G< 13.3C
PS_NVDD_CP_RC 13.1G< 13.4D
PS_NVDD_EN* 13.1G< 13.4B
PS_NVDD_FB 13.1G< 13.3C
PS_NVDD_FB_RC 13.1G< 13.4F
PS_NVDD_FS 13.1G< 13.3C
PS_NVDD_LDO 13.1G< 13.3C
PS_NVDD_LG 13.1G< 13.3C
PS_NVDD_LG_D 13.1G< 13.3D
PS_NVDD_LG_R 13.1G< 13.4E
PS_NVDD_PHASE 13.1G< 13.3C
PS_NVDD_PVCCS 13.1G< 13.3C
PS_NVDD_RC 13.1G< 13.4F
PS_NVDD_UG 13.1G< 13.3C
PS_NVDD_UG_R 13.1G< 13.3E
PS_NVDD_VCCS 13.1G< 13.3C
PS_NVDD_VCC12 13.1G< 13.3C
PS_PEX_CP 12.1G< 12.4C
PS_PEX_DR 12.1G< 12.3D
PS_PEX_DR_R 12.1G< 12.3B
PS_PEX_FB 12.1G< 12.4D
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> 11.3B
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