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

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

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY

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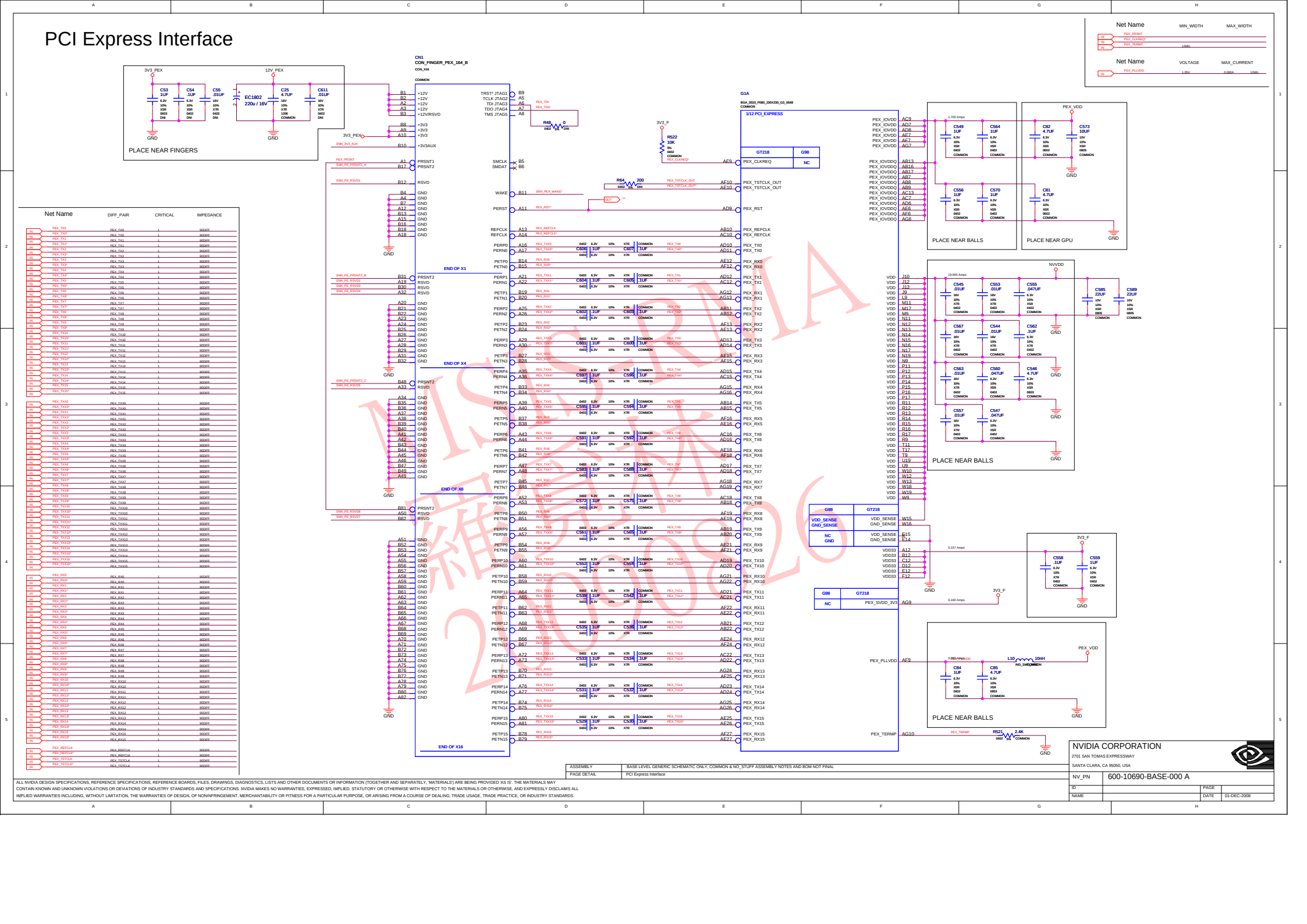
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

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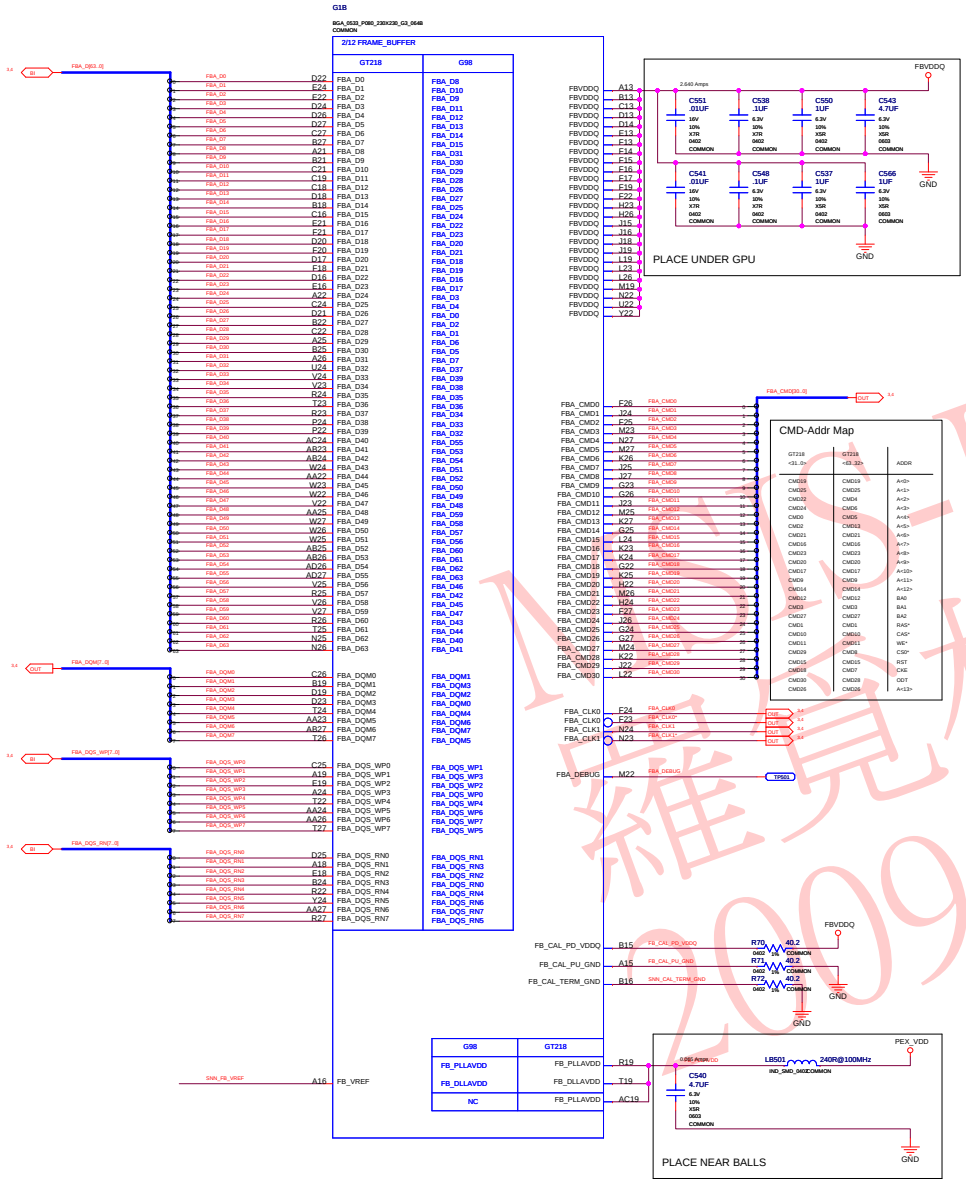
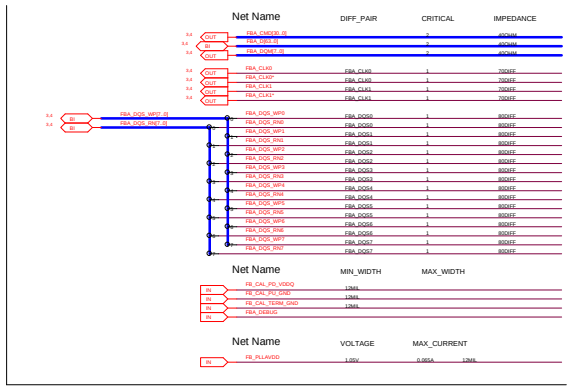
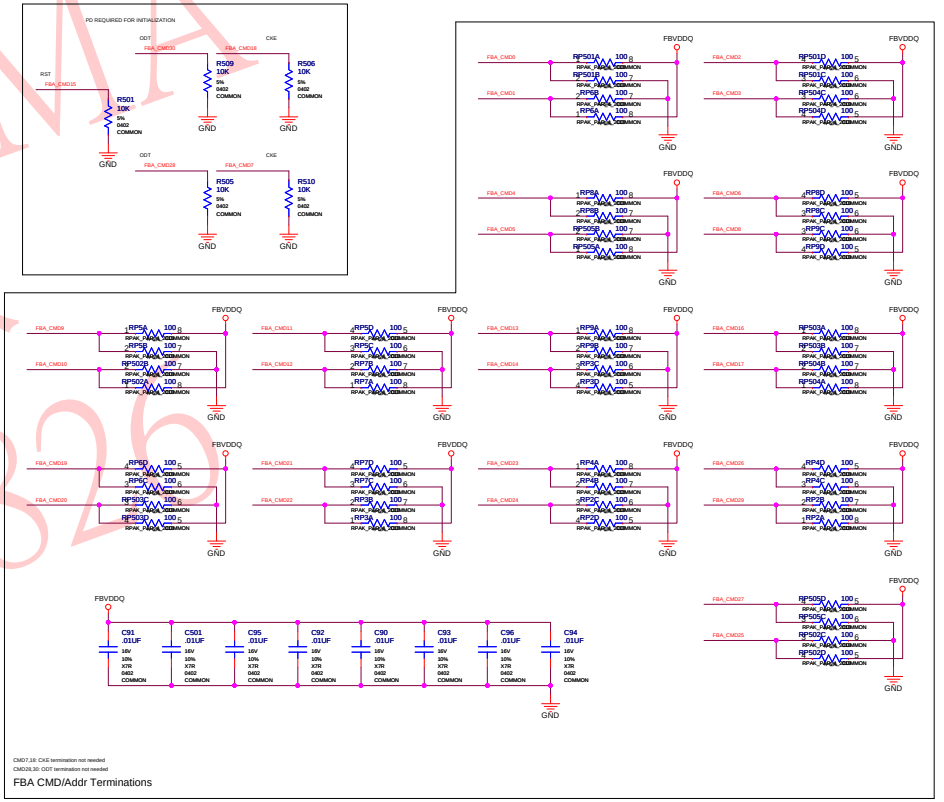
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

Frame Buffer Interface







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

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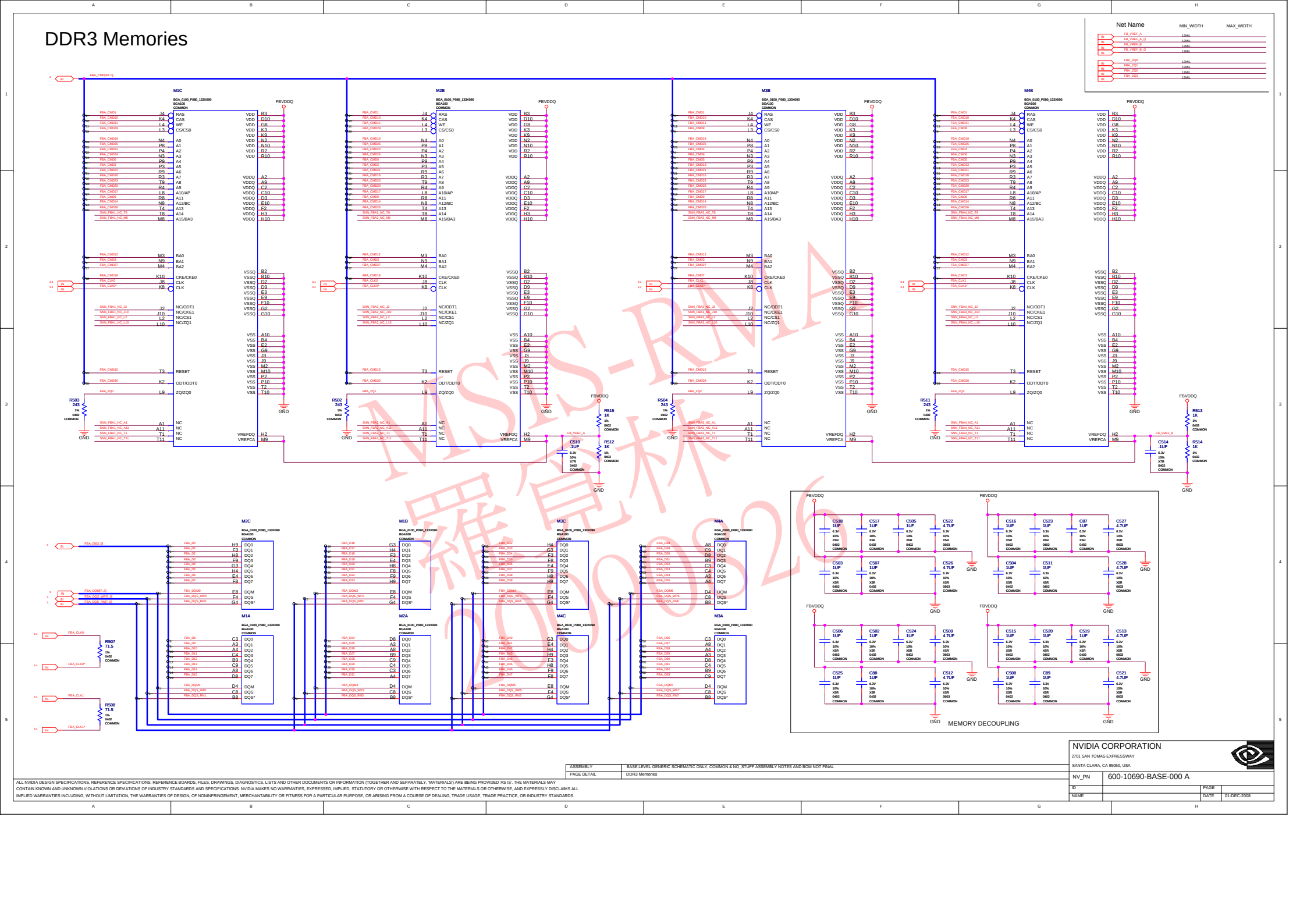
NAME		DATE	01-DEC-2008

DDR3 Memories



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

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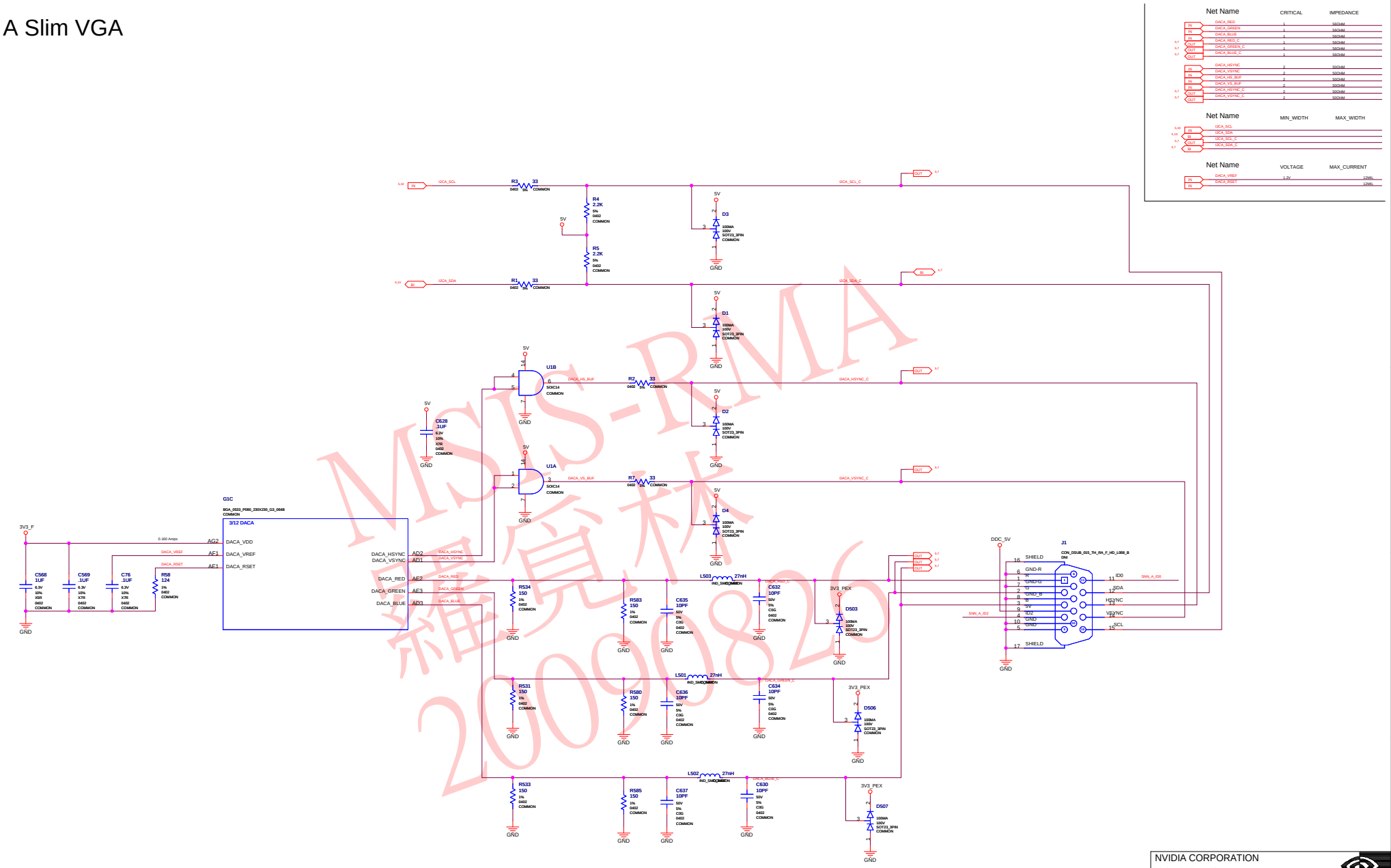
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

DAC A Slim VGA



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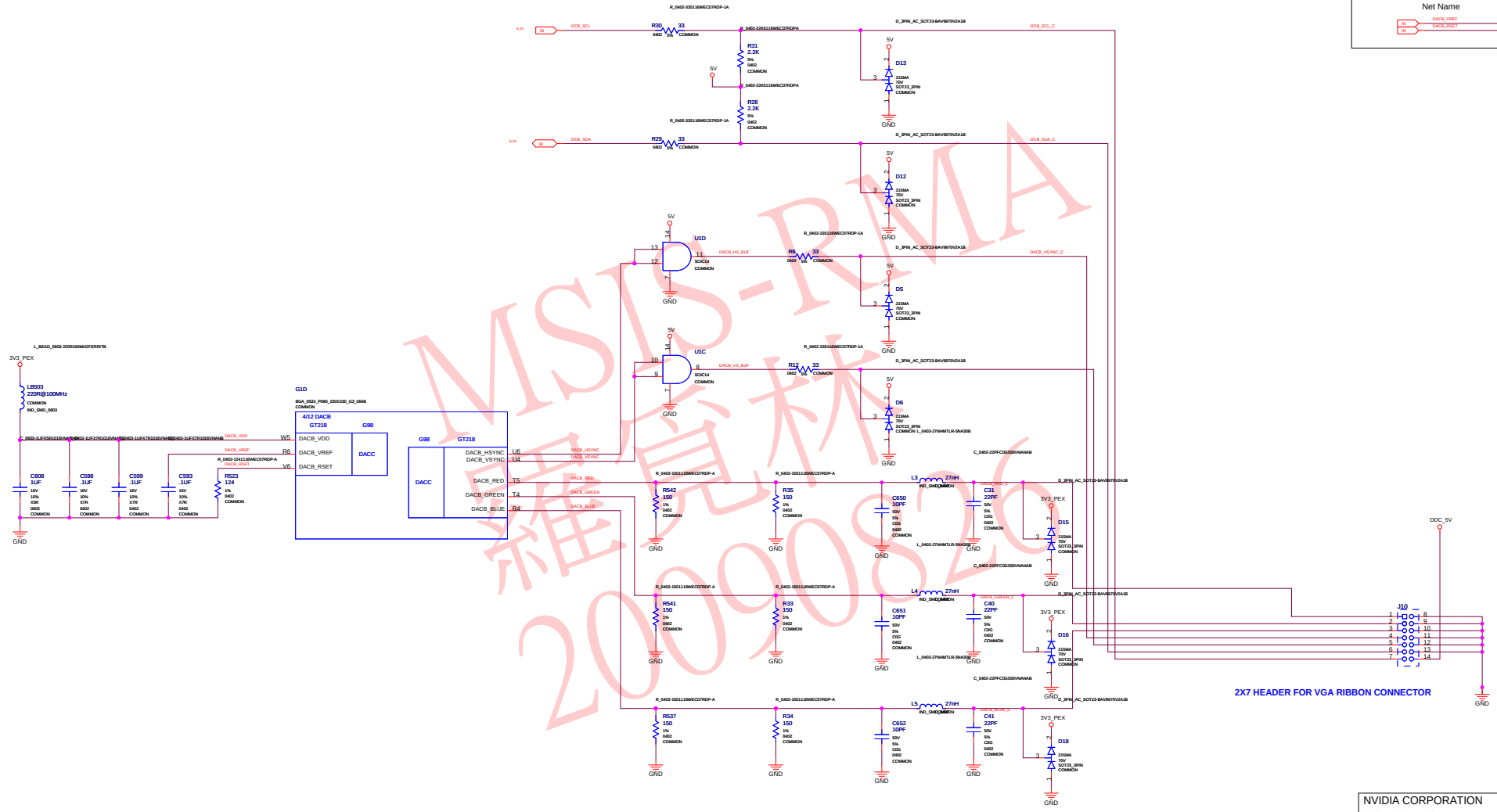
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

DAC B VGA Header



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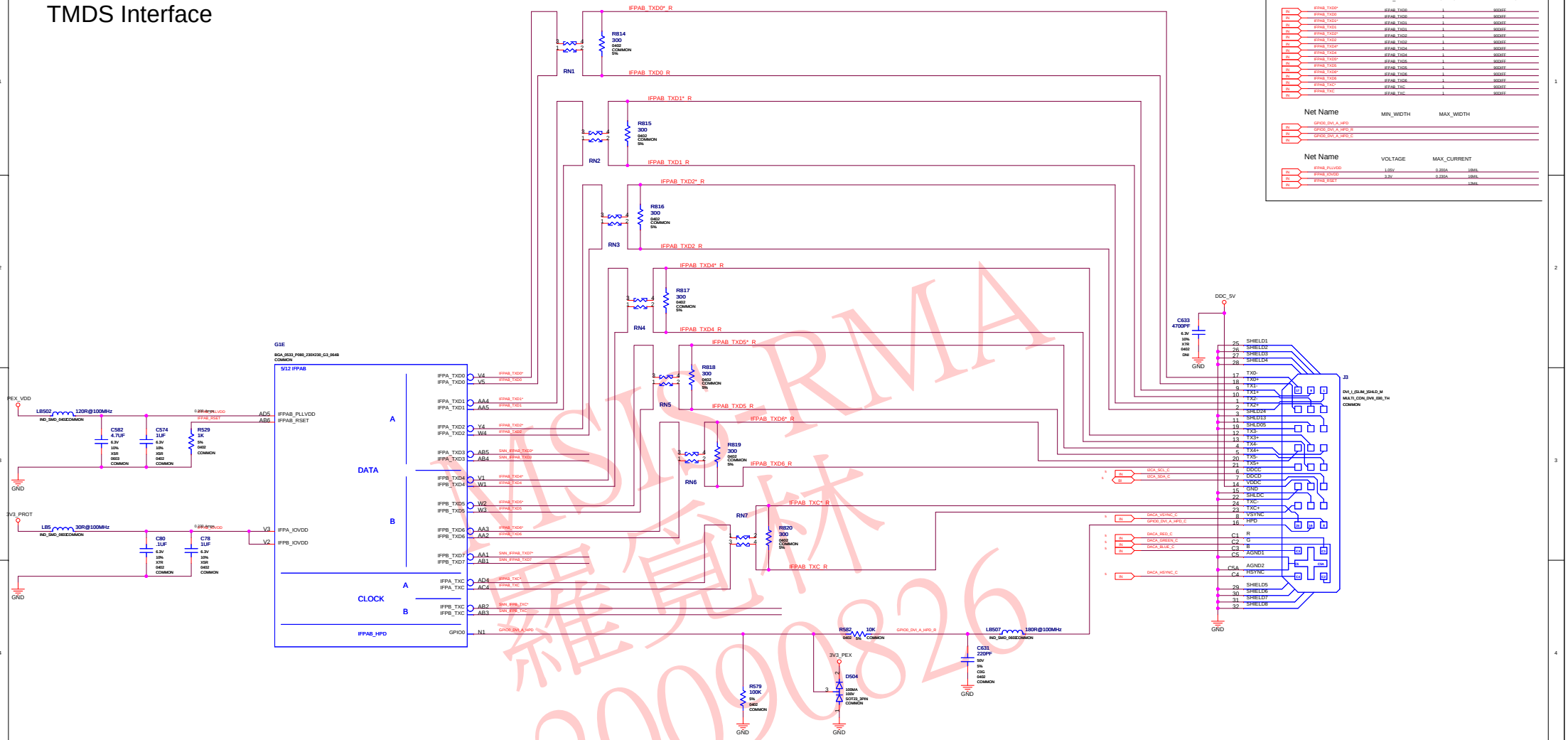
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

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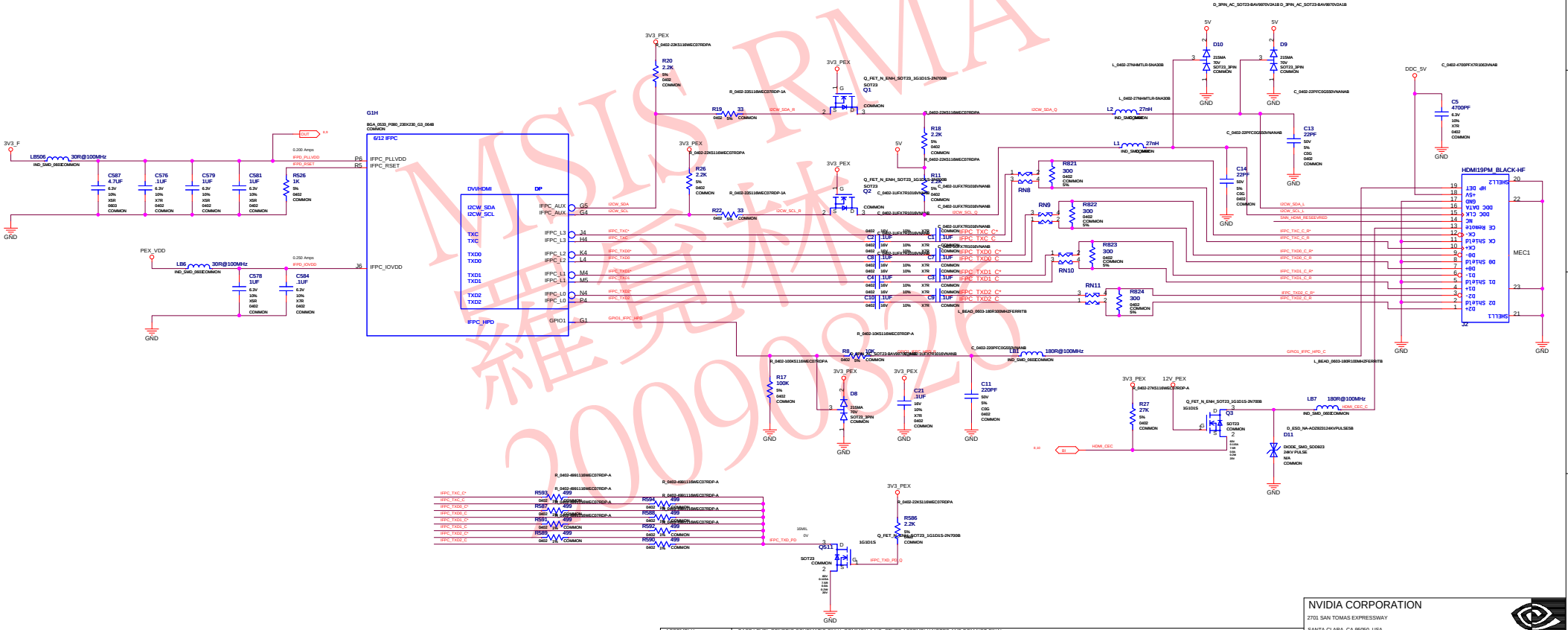
NV_PN	600-10690-BASE-000 A		
ID		PAGE	
NAME		DATE	01-DEC-2008

HDMI Connector



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
IFPD_IOVDD	1.05V	0.250A
IFPD_RSET		

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
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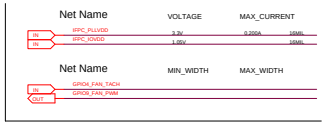
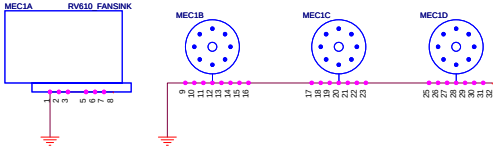
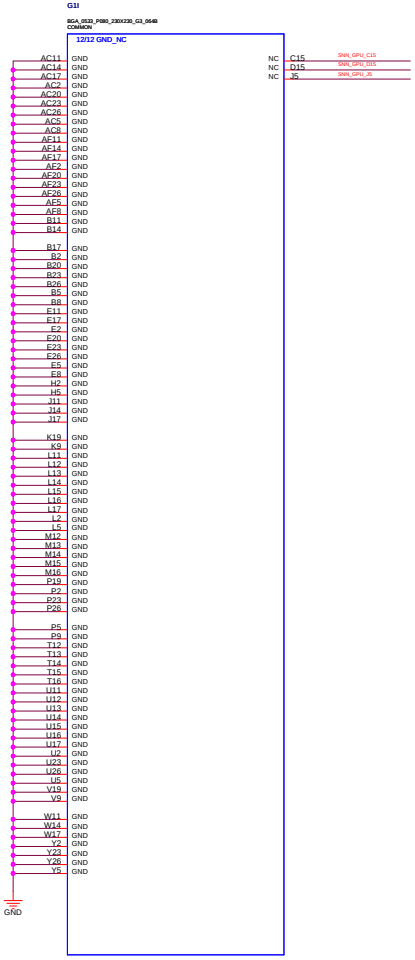
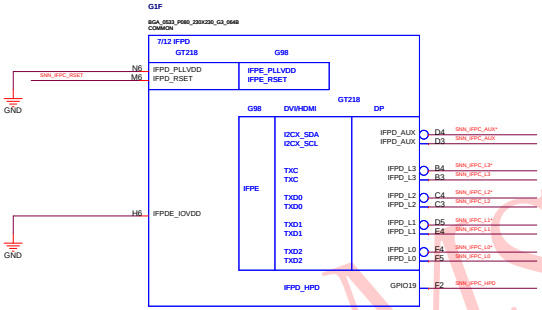
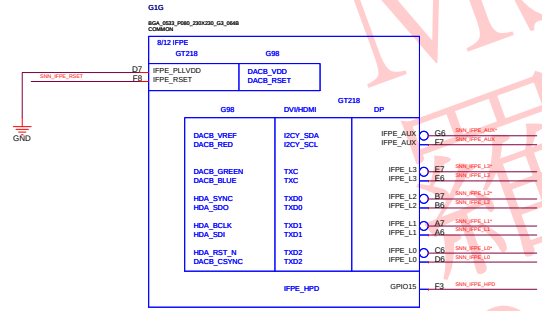
IFPC, IFPE Interface, Fan, Mechanical

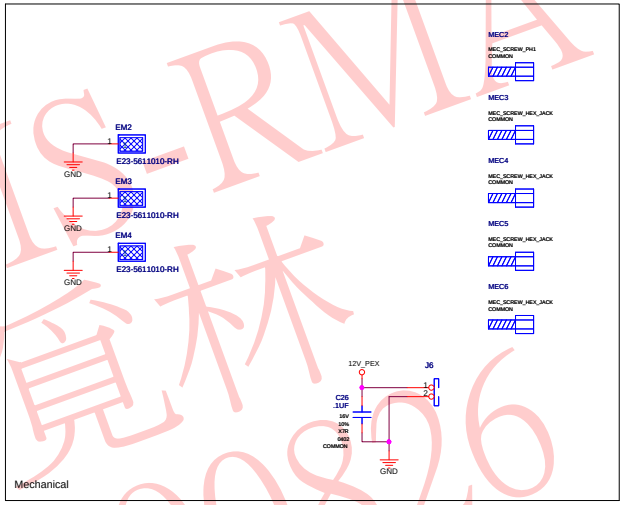












ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPC, IFPE Interface, Fan, Mechanical

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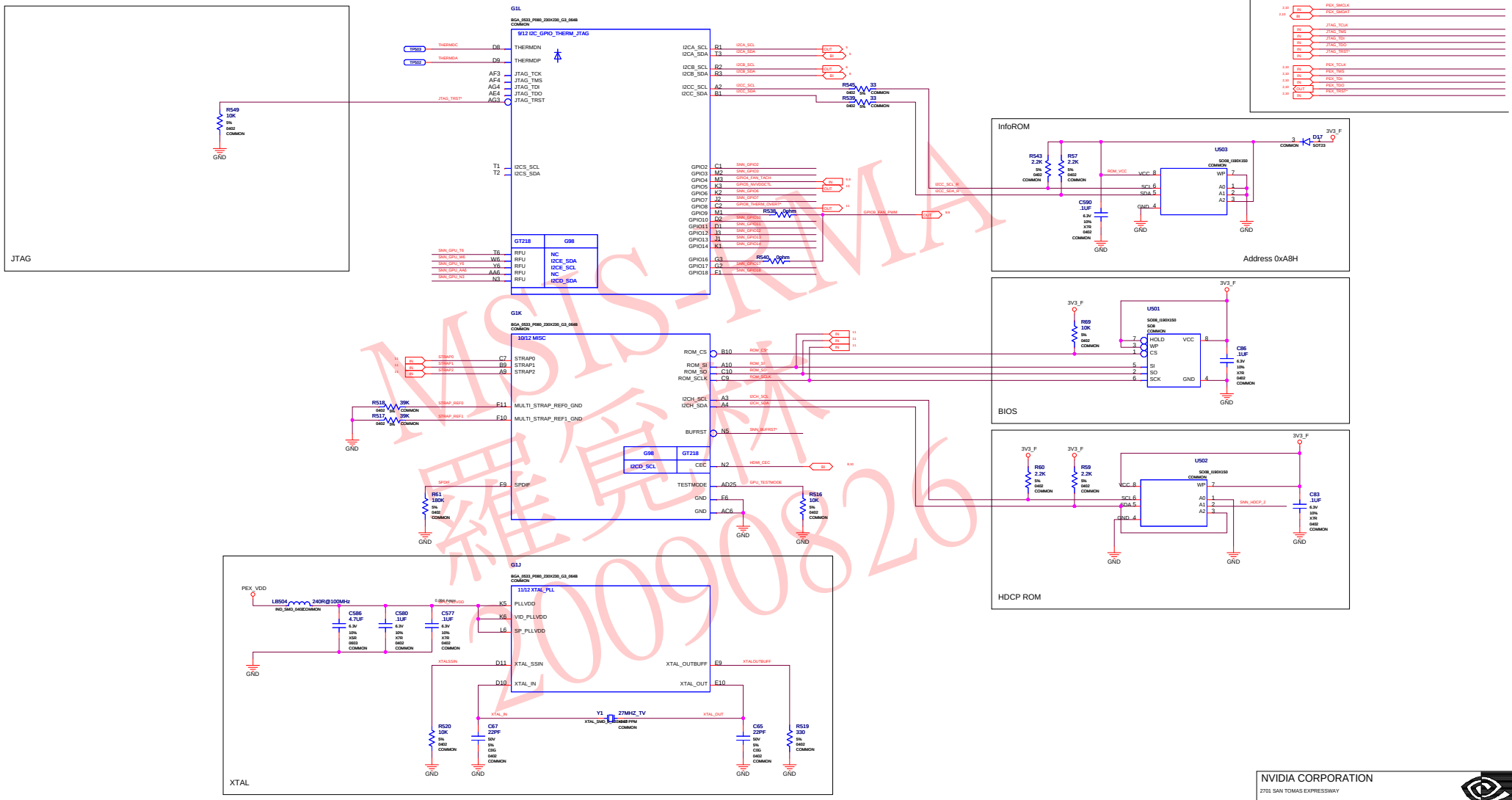
XTAL, ROM, SPDIF, JTAG



Net Name	CRITICAL	IMPEDANCE
XTALOUTBUFF	1	50OHM
XTAL_OUT	1	50OHM
XTAL_IN	1	50OHM
XTALSSIN	1	50OHM

Net Name	VOLTAGE	MAX_CURRENT
GPU_PLLVDD	1.05V	0.08A

Net Name	MIN_WIDTH	MAX_WIDTH

Net Name	MIN_WIDTH	MAX_WIDTH
ROM_CS*		
GPU_TESTMODE		
SPDIF		
I2CC_SCL		
I2CC_SDA		
I2CC_SCL_R		
I2CC_SDA_R		
I2CH_SCL		
I2CH_SDA		
I2CS_SCL		
I2CS_SDA		
STRAP_REF0		
STRAP_REF1		
THERMDC	12MIL	
THERMDA	12MIL	
PEX_SMCLK		
PEX_SMDAT		
JTAG_TCLK		
JTAG_TMS		
JTAG_TDI		
JTAG_TDO		
JTAG_TRST*		
PEX_TCLK		
PEX_TMS		
PEX_TDI		
PEX_TDO		
PEX_TRST*		

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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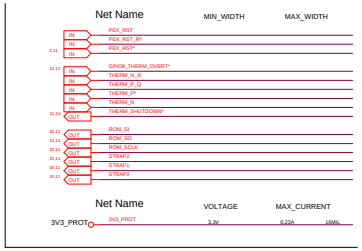
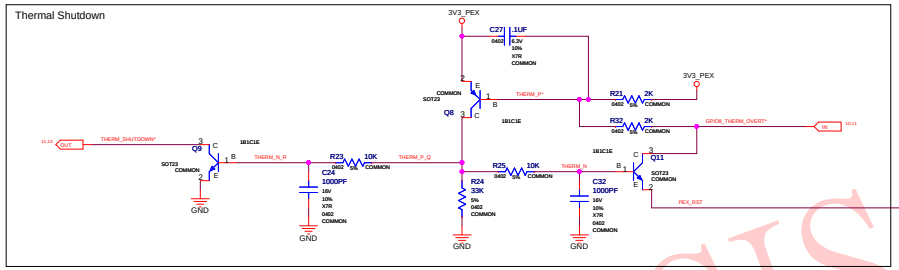
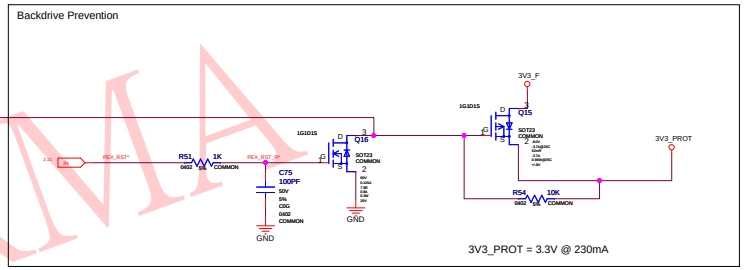
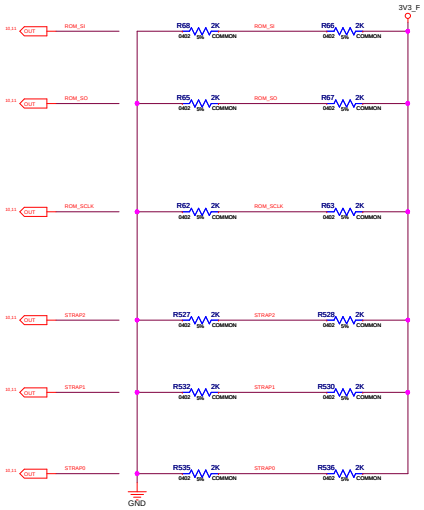
Thermal Protection, IFP_IOVDD, Straps









GT218 Straps MLS Mode

Bit	Signal	Values			
03:	RAMCFG[3]	0000	Elpida		
02:	RAMCFG[2]	0001	Samsung, Micron		
01:	RAMCFG[1]	0010	Qimonda		
00:	RAMCFG[0]	0011	Hynix		
		0100	Nanya		
03:	XCLK_417	0	277 (Default)		
02:	FB[0]	0	256M (Default)		
01:	SMB_ALT_ADDR	0	0x8C		
		1	0x8C		
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
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	1000	DSKTOP_HTHRS
		0001	MOBILE_DEFAULT	1001	MOBILE_HTHRS_NAMP
	3GIO_PADCFG_LUT_ADR[2]	0010	MOBILE_NTHRS_LLAMP	1010	MOBILE_HTHRS_LLAMP
		0011	MOBILE_NTHRS_LAMP	1011	MOBILE_HTHRS_LAMP
		0100	MOBILE_NTHRS_HAMP	1100	MOBILE_HTHRS_HAMP
		0101	MOBILE_NTHRS_HHAMP	1101	MOBILE_HTHRS_HHAMP
		0110	MOBILE_NTHRS_HHHAMP	1110	MOBILE_HTHRS_HHHAMP
		0111	MOBILE_NTHRS_HHHHAMP	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[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

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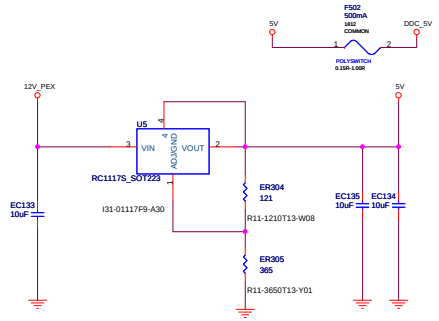
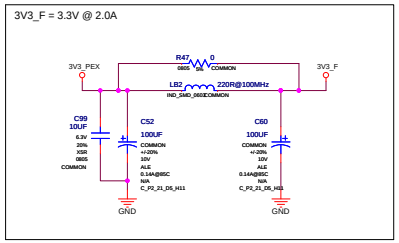
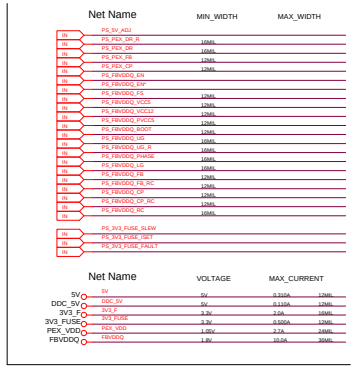
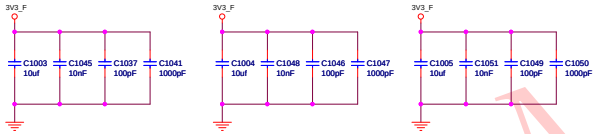
Power Supply I: FBVDD/Q, PEX_VDD, 5V, 3V3_F

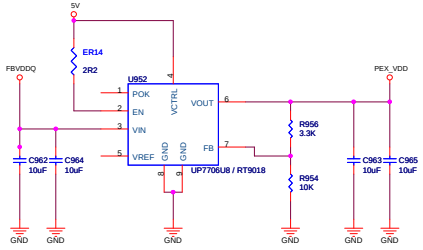


Vout=1.25V* [1+(ER305/ER304)]

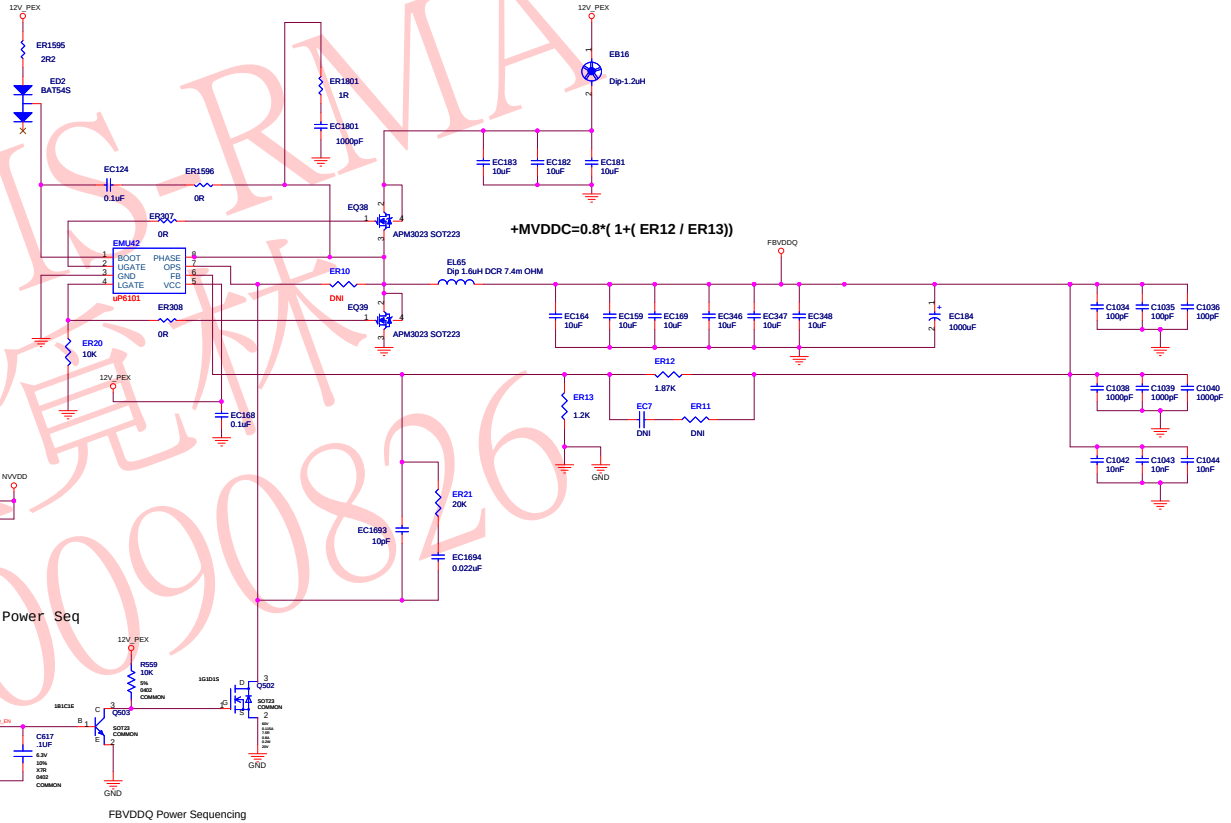








Vout=0.8V * (1+ R995 / R954)



+MVDDC=0.8*(1+(ER12 / ER13))

PEX_VDD = 1.05V @ 2.7A

Memory Power Seq

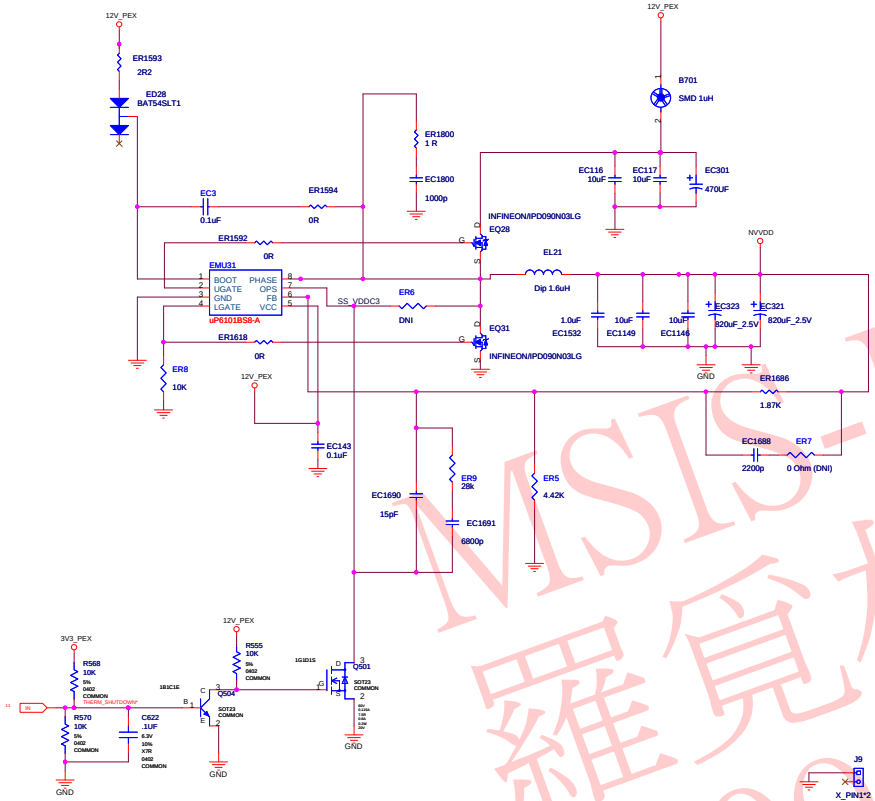
FBVDDQ Power Sequencing

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

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

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

Power Supply II: PLLVDD, NVVDD



Net Name	MIN_WIDTH	MAX_WIDTH	CRITICAL
PS_NVVDD_ENP			
PS_NVVDD_FS	12MIL		
PS_NVVDD_VCC12	12MIL		
PS_NVVDD_VCC5	12MIL		
PS_NVVDD_PVCC5	12MIL		
PS_NVVDD_BOOT	12MIL		
PS_NVVDD_LDO			
PS_NVVDD_UG	16MIL		
PS_NVVDD_UG_R	16MIL		
PS_NVVDD_PHASE	16MIL		
PS_NVVDD_LG	16MIL		
PS_NVVDD_LG_D	16MIL		
PS_NVVDD_LG_R	16MIL		
PS_NVVDD_RC	16MIL		
PS_NVVDD_FB	12MIL		
PS_NVVDD_FB_RC	12MIL		
PS_NVVDD_CP	12MIL		
PS_NVVDD_CP_RC	12MIL		
NVVDD_SENSE			2
NVVDD_SENSE_R			2
GPIO8_NVVDDCTL			
PS_PEX_PLL_ADJ			

Net Name	VOLTAGE	MAX_CURRENT	POWER_NET
12V_PEX	12V_PEX	12V 9.5A 36MIL	TRUE
3V3_PEX	3V3_PEX	3.3V 3.0A 16MIL	TRUE
NVVDD	NVVDD	1.1V 17.5A 36MIL	

NVVDD = 0.9V @ 11.1A

NVVDD w/NVVDD<->PEX_VDD = 13.8A
NVVDD = 0.95V @ 12.3A
NVVDD w/NVVDD<->PEX_VDD = 15.0A
NVVDD = 1.0V @ 13.5A
NVVDD w/NVVDD<->PEX_VDD = 16.2A
NVVDD = 1.05V @ 14.8A
NVVDD w/NVVDD<->PEX_VDD = 17.5A

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		
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
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_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<
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 2.5A<
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* 2.2A< 2.3E
PEX_TX8 2.2A< 2.4E
PEX_TX8* 2.2A< 2.4E
PEX_TX9 2.3A< 2.4E
PEX_TX9* 2.3A< 2.4E
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PS_3V3_FUSE_SLEW 12.1G< 12.3F
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SNN_GPU_Y6 10.3C
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THERM_P_Q 11.1G< 11.2B
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XTAL_IN 10.1F< 10.5C
XTAL_OUT 10.1F< 10.5D

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R576 [8.4E]
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R578 [8.3D]
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U505 [13.3C]
U506 [12.3G]
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