P672: GT215-128bit, 32Mx32 GDDR5

DL-DVI, VGA, HDMI

PCB 4.0

09/01 change PAGE 04_FBA 32Mx32 GDDR5--Lower Half -------- x16 mode
Add PAGE 04_FBA 32Mx32 GDDR5--Upper Half -------- x16 mode
change PAGE 04_FBC 32Mx32 GDDR5--Lower Half -------- x16 mode
Add PAGE 07_FBC 32Mx32 GDDR5--Upper Half -------- x16 mode
Add PAGE 05 DECOUPLING CAP
Add PAGE 08 DECOUPLING CAP
Add PAGE 17 GPIO10_VREF_SEL

PCB 4.1

11/10 Add PAGE 20 C2001,C2002 for EMI
11/11 Add PAGE 20 C2003,C2004,C2005 for EMI

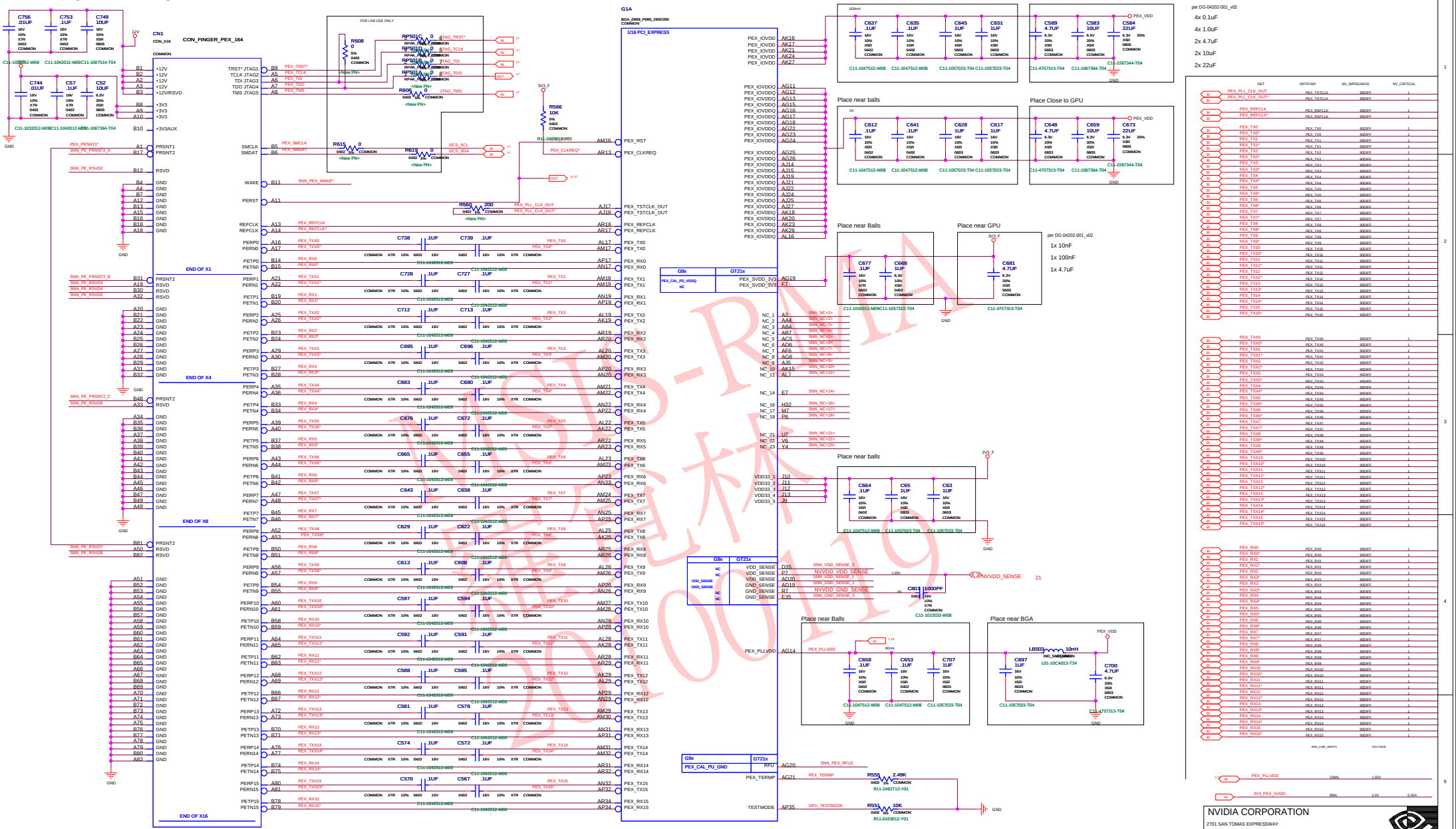
REV	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10672-base-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-10672-0001-100	GT215-450, 550/1375MHz 512MB 32Mx16 BGA170 1800MHz GDDR5 DVI-I/VGA/HDMI
2	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
3	<UNDEFINED>	<UNDEFINED>	<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	TABLE OF CONTENTS

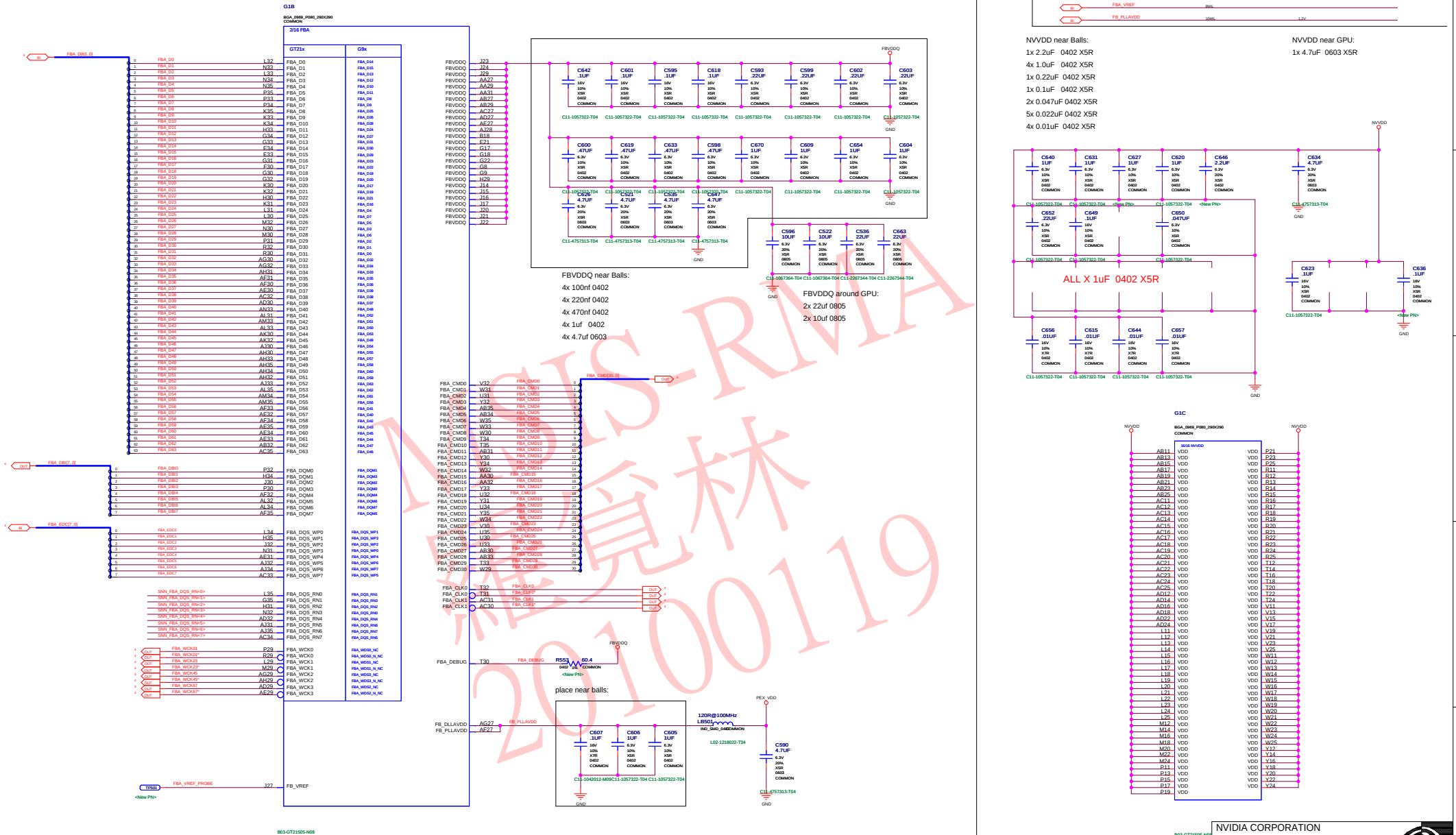
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

PEX x16 INTERFACE



MEMORY Partition A - GPU, FBVDD/Q & NVVDD DECOUPLING



NET | MIN_LINE_WIDTH | VOLTAGE

FBA_VREF | 8MIL
FB_PLLAVDD | 20MIL | 1.2V

NVVDD near Balls:
1x 2.2uF 0402 X5R
4x 1.0uF 0402 X5R
1x 0.22uF 0402 X5R
1x 0.1uF 0402 X5R
2x 0.047uF 0402 X5R
5x 0.022uF 0402 X5R
4x 0.01uF 0402 X5R

NVVDD near GPU:
1x 4.7uF 0603 X5R

G1C

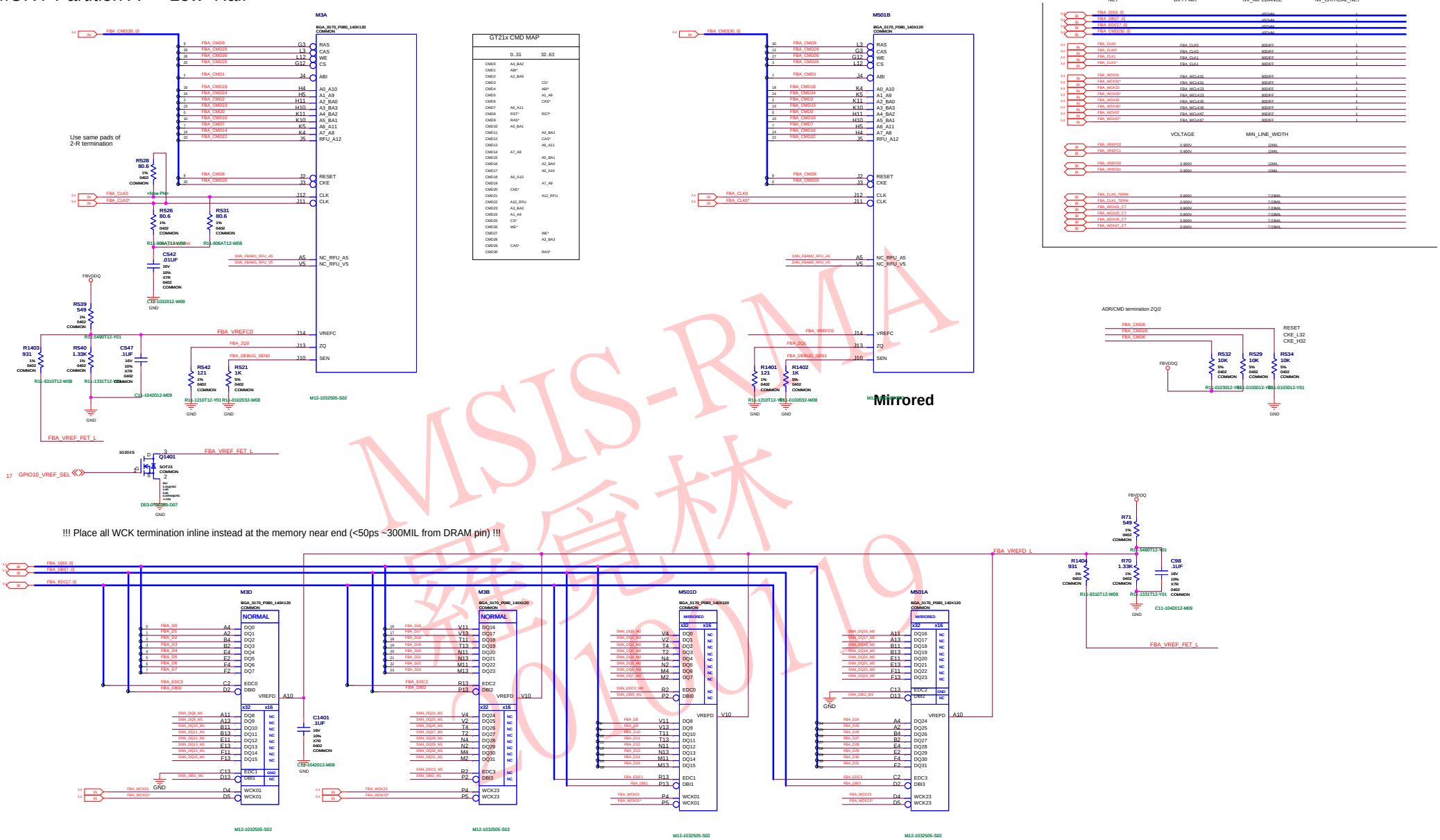
B03-GT21505-N08

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA MEMORY INTERFACE, GPU NVVDD & FBVDDQ DECOUPLING CAPS

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

MEMORY Partition A --- Low Half



NET	DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET
FBA_DB[1..0]		40OHM	1
FBA_DBI[7..0]		40OHM	1
FBA_EDC[7..0]		40OHM	1
FBA_CMD[30..0]		40OHM	1
FBA_CLK0	FBA_CLK0	80DIFF	1
FBA_CLK0*	FBA_CLK0	80DIFF	1
FBA_CLK1	FBA_CLK1	80DIFF	1
FBA_CLK1*	FBA_CLK1	80DIFF	1
FBA_WCK01	FBA_WCLK01	80DIFF	1
FBA_WCK01*	FBA_WCLK01	80DIFF	1
FBA_WCK23	FBA_WCLK23	80DIFF	1
FBA_WCK23*	FBA_WCLK23	80DIFF	1
FBA_WCK45	FBA_WCLK45	80DIFF	1
FBA_WCK45*	FBA_WCLK45	80DIFF	1
FBA_WCK67	FBA_WCLK67	80DIFF	1
FBA_WCK67*	FBA_WCLK67	80DIFF	1

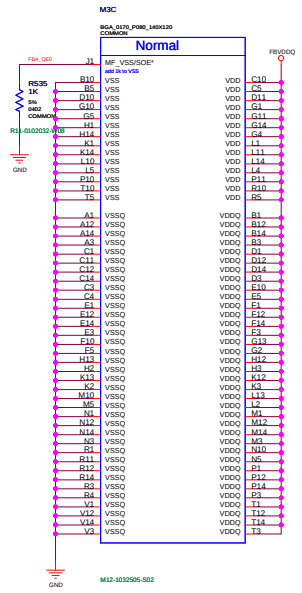
	VOLTAGE	MIN_LINE_WIDTH
FBA_VREFC0	0.900V	12MIL
FBA_VREFC1	0.900V	12MIL
FBA_VREFD0	0.900V	12MIL
FBA_VREFD1	0.900V	12MIL
FBA_CLK0_TERM	0.900V	7.03MIL
FBA_CLK1_TERM	0.900V	7.03MIL
FBA_WCK01_CT	0.900V	7.03MIL
FBA_WCK23_CT	0.900V	7.03MIL
FBA_WCK45_CT	0.900V	7.03MIL
FBA_WCK67_CT	0.900V	7.03MIL

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA 32Mx32 GDDR5 MEMORIES, FBA CLK TERMS

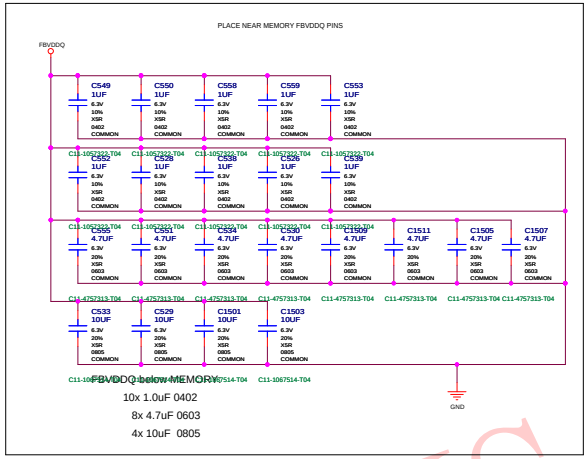
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

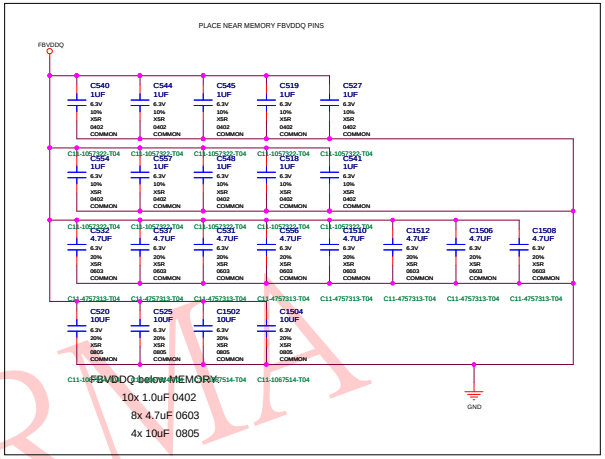
MEMORY Partition A - Decoupling



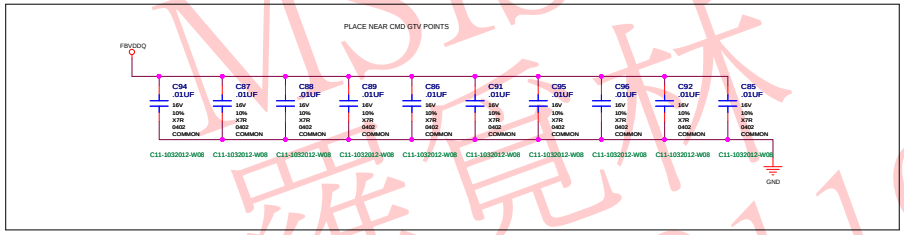
Decoupling for FBA 0..31

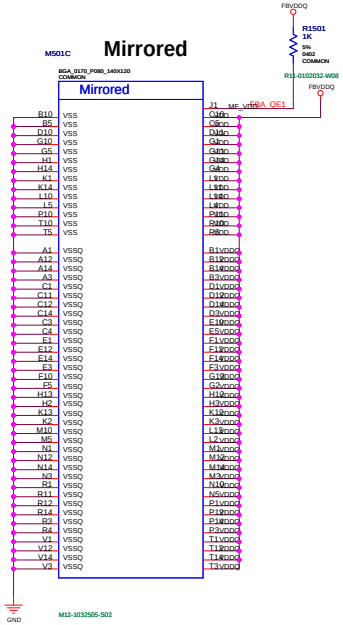


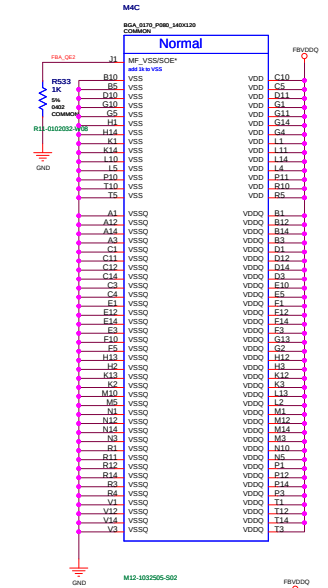
Decoupling for FBA 32..63

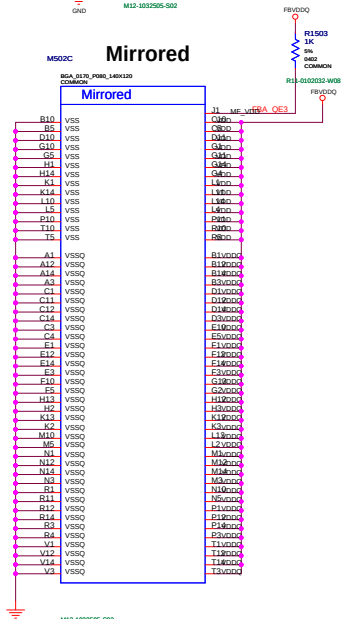


Return path coupling GND/FBVDDQ for FBA







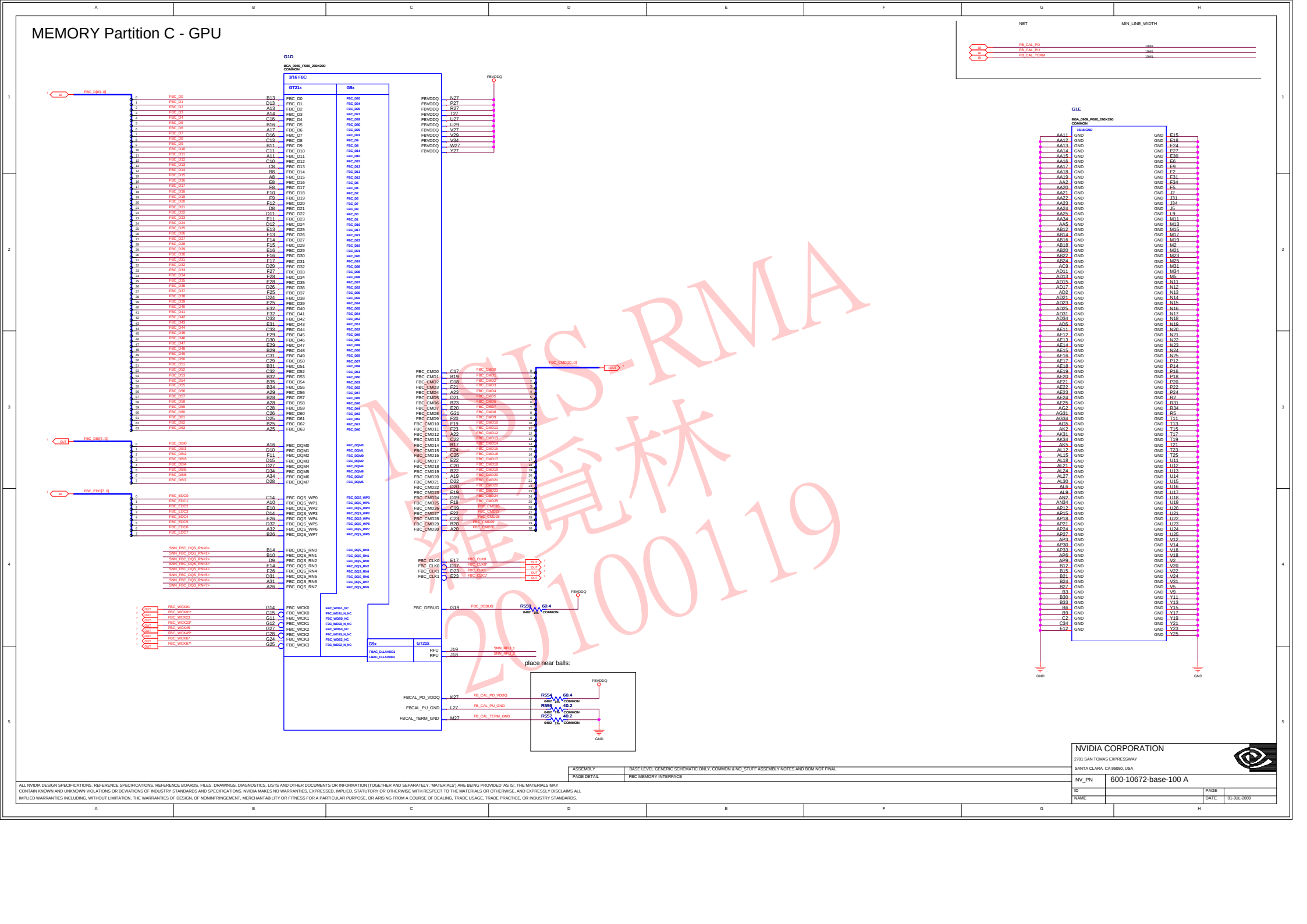


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA MEMORY FBVDDQ DECOUPLING CAPS

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

MEMORY Partition C - GPU

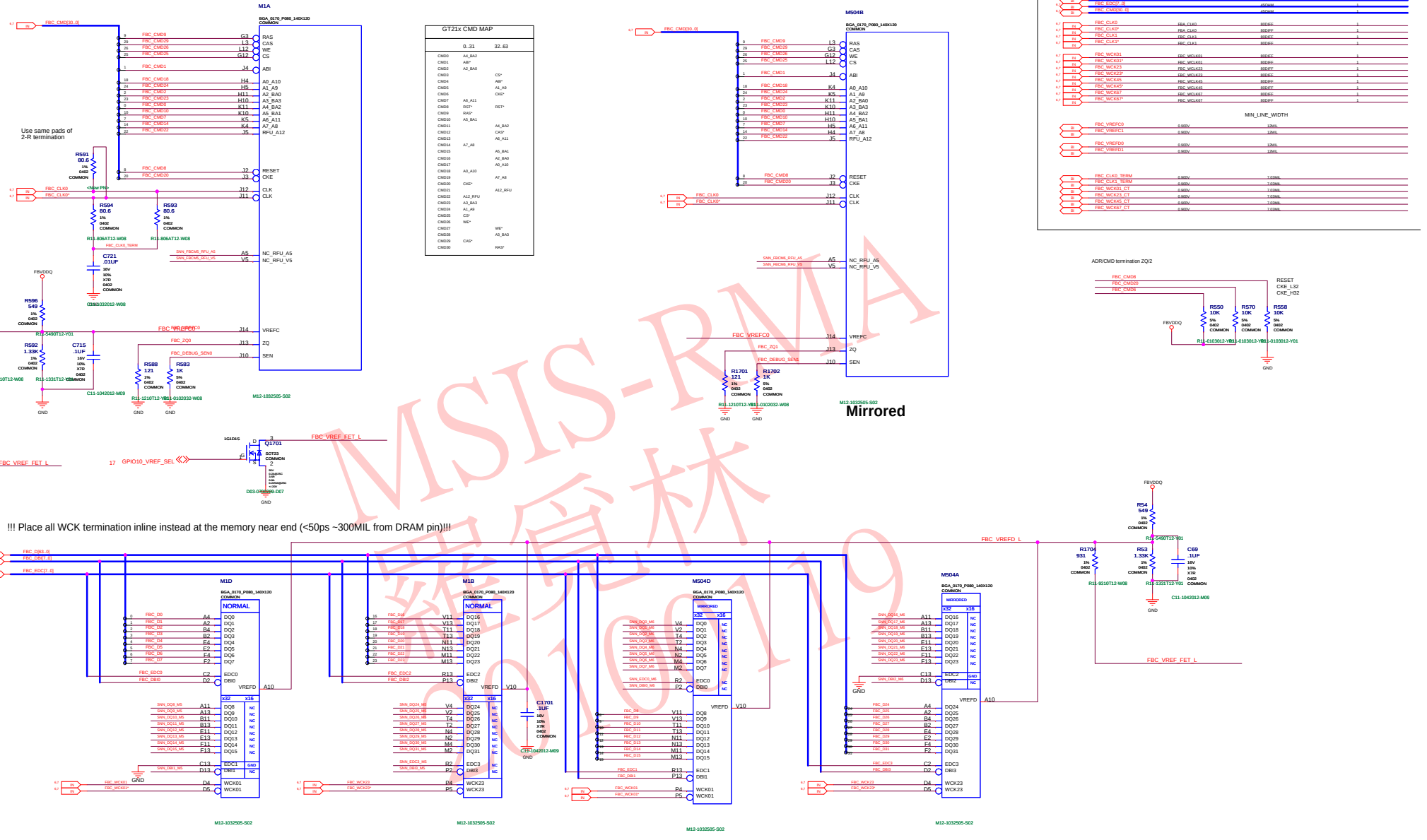


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBC MEMORY INTERFACE

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

MEMORY Partition C --- Lower Half



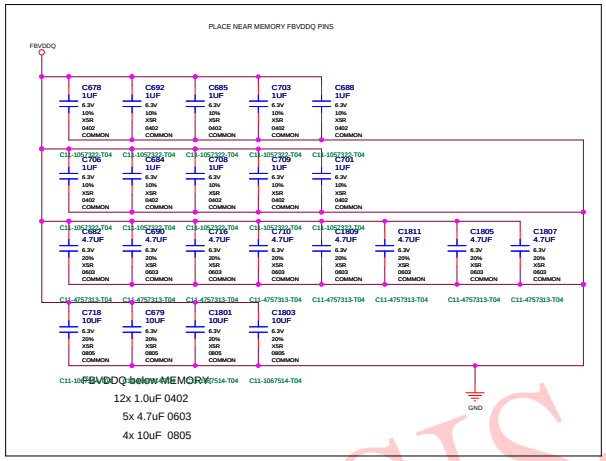
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBC 32MX32 GDDR5 MEMORIES, FBC CLK TERMS

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

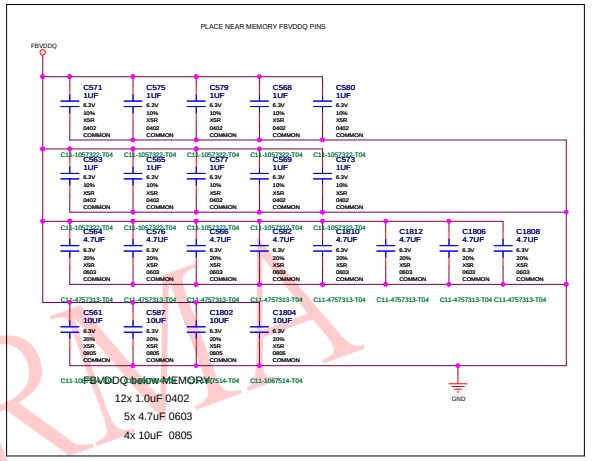
NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

MEMORY PARTITION C DECOUPLING

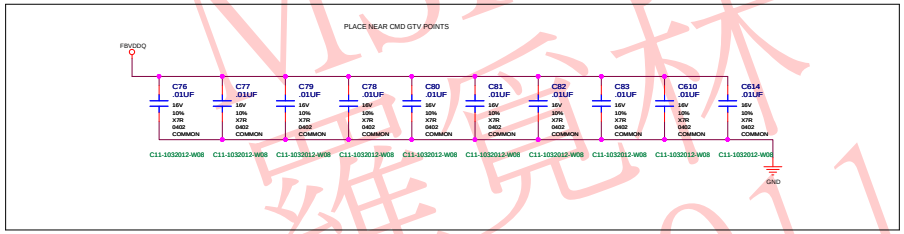
Decoupling for FBC 0..31



Decoupling for FBC 32..63



Return path coupling GND/FBVDDQ for FBC



M1C — Normal

M2C — Normal

M504C — Mirrored

M503C — Mirrored

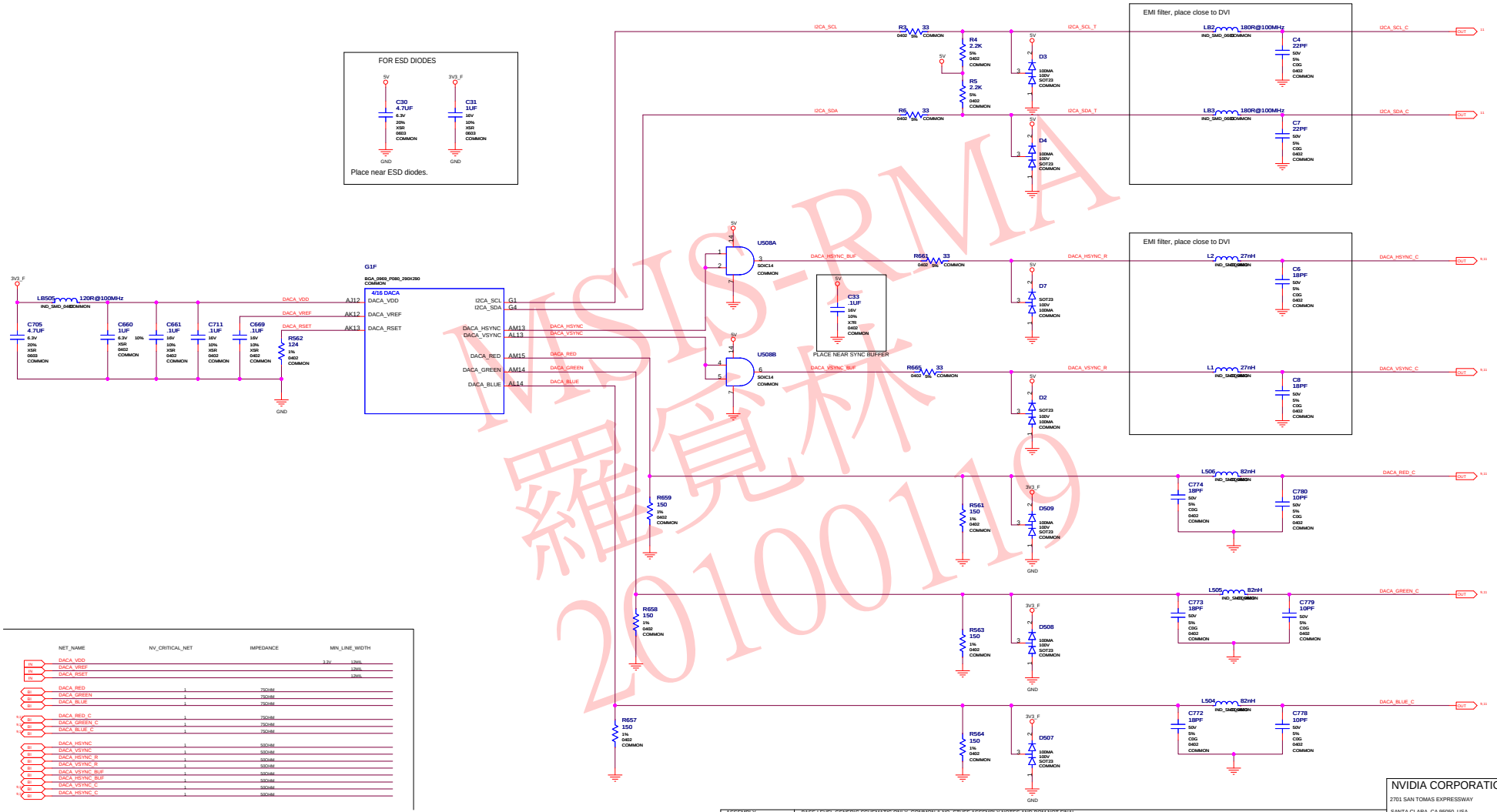
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBC MEMORY FBVDDQ DECOUPLING CAPS

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

Primary Display (DACA), DVI-I (South)

DACA FILTER



NET_NAME	NV_CRITICAL_NET	IMPEDANCE	MIN_LINE_WIDTH
DACA_VDD			3.3V 12MIL
DACA_VREF			12MIL
DACA_RSET			12MIL
DACA_RED	1	75OHM	
DACA_GREEN	1	75OHM	
DACA_BLUE	1	75OHM	
DACA_RED_C	1	75OHM	
DACA_GREEN_C	1	75OHM	
DACA_BLUE_C	1	75OHM	
DACA_HSYNC	1	50OHM	
DACA_VSYNC	1	50OHM	
DACA_HSYNC_R	1	50OHM	
DACA_VSYNC_R	1	50OHM	
DACA_VSYNC_BUF	1	50OHM	
DACA_HSYNC_BUF	1	50OHM	
DACA_VSYNC_C	1	50OHM	
DACA_HSYNC_C	1	50OHM	

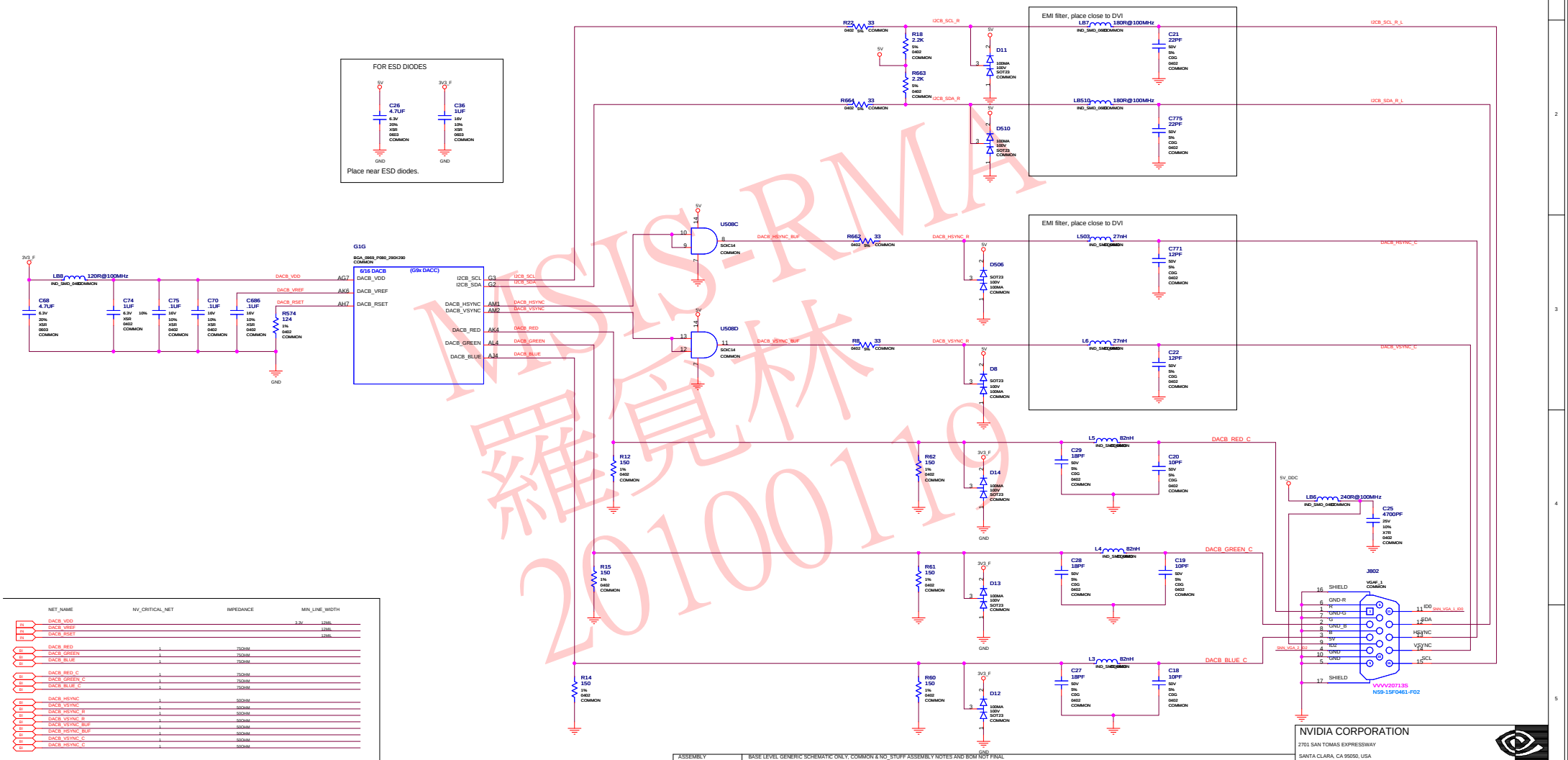
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACA (PRIMARY DVI-I)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

Secondary Display (DACB), VGA (Mid)

DACB FILTER



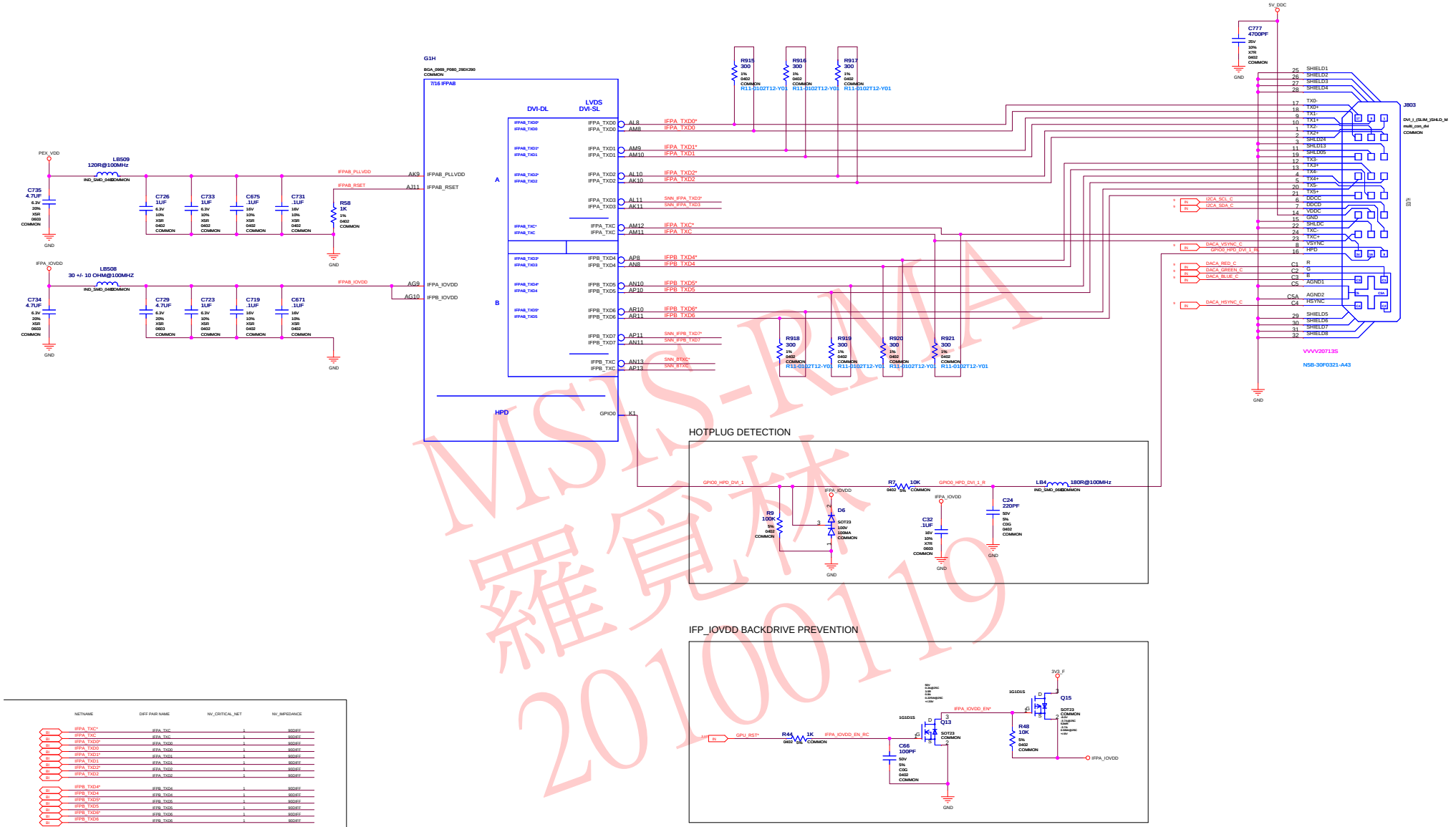
NET_NAME	NV_CRITICAL_NET	IMPEDANCE	MIN_LINE_WIDTH
DACB_VDD			3.3V 12MIL
DACB_VREF			12MIL
DACB_RSET			12MIL
DACB_RED	1	75OHM	
DACB_GREEN	1	75OHM	
DACB_BLUE	1	75OHM	
DACB_RED_C	1	75OHM	
DACB_GREEN_C	1	75OHM	
DACB_BLUE_C	1	75OHM	
DACB_HSYNC	1	50OHM	
DACB_VSYNC	1	50OHM	
DACB_HSYNC_R	1	50OHM	
DACB_VSYNC_R	1	50OHM	
DACB_HSYNC_BUF	1	50OHM	
DACB_VSYNC_BUF	1	50OHM	
DACB_VSYNC_C	1	50OHM	
DACB_HSYNC_C	1	50OHM	

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	DACB (SECONDARY VGA)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

LINK A/B: TMDS, Primary DVI-I DL (South)



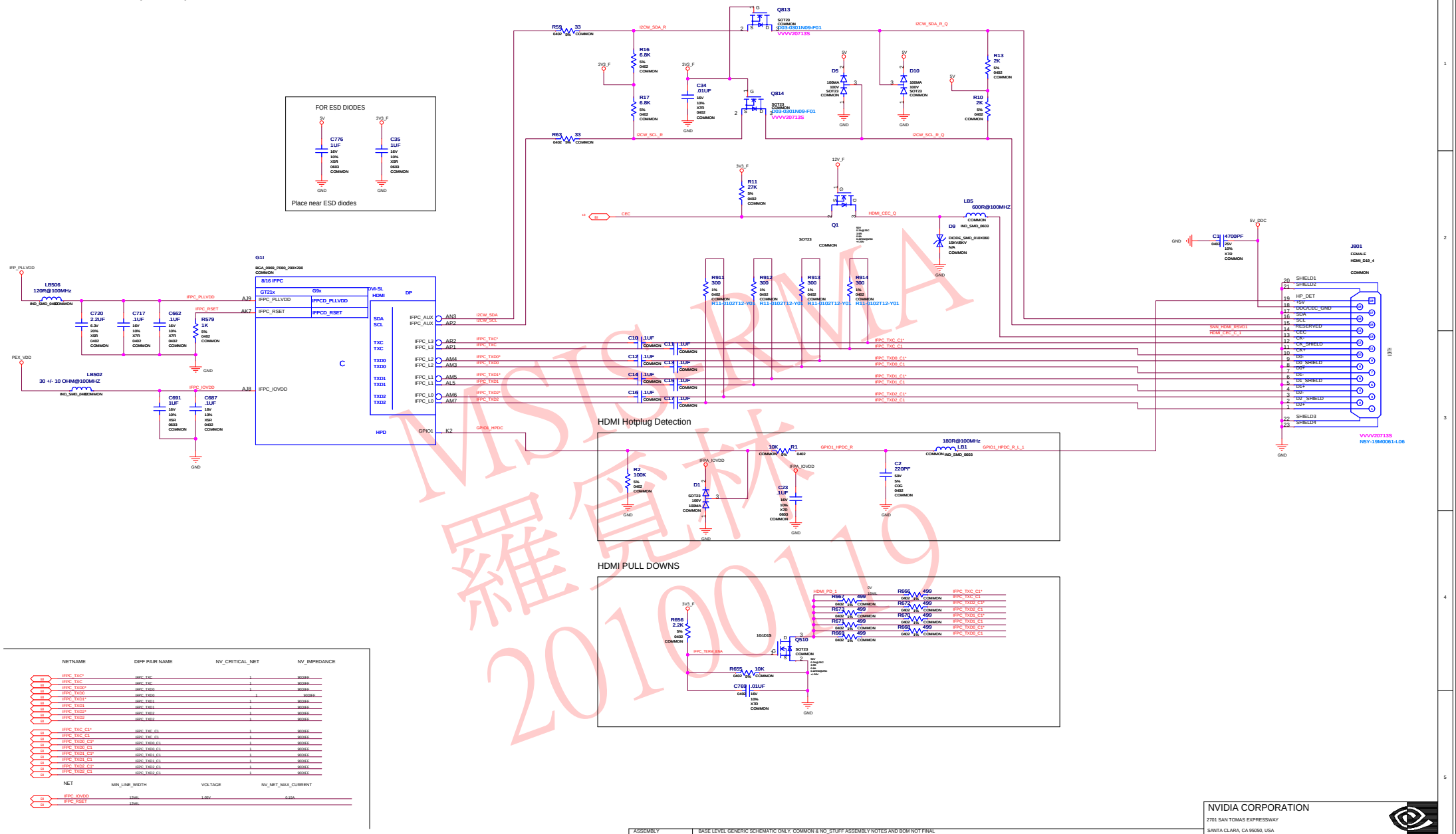
NETNAME	DIFF PAIR NAME	NV_CRITICAL_NET	NV_IMPEDANCE
IFPA_TXC*	IFPA_TXC	1	90DIFF
IFPA_TXC	IFPA_TXC	1	90DIFF
IFPA_TXD0*	IFPA_TXD0	1	90DIFF
IFPA_TXD0	IFPA_TXD0	1	90DIFF
IFPA_TXD1*	IFPA_TXD1	1	90DIFF
IFPA_TXD1	IFPA_TXD1	1	90DIFF
IFPA_TXD2*	IFPA_TXD2	1	90DIFF
IFPA_TXD2	IFPA_TXD2	1	90DIFF
IFPB_TXD4*	IFPB_TXD4	1	90DIFF
IFPB_TXD4	IFPB_TXD4	1	90DIFF
IFPB_TXD5*	IFPB_TXD5	1	90DIFF
IFPB_TXD5	IFPB_TXD5	1	90DIFF
IFPB_TXD6*	IFPB_TXD6	1	90DIFF
IFPB_TXD6	IFPB_TXD6	1	90DIFF
IFPAB_PLLVDD	12MIL		1.05V
IFPAB_IOVDD	12MIL		3.3V
IFPAB_RSET	12MIL		

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	TMDS LINK A/B: DVI-I (SOUTH)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

LINK C: HDMI (North)

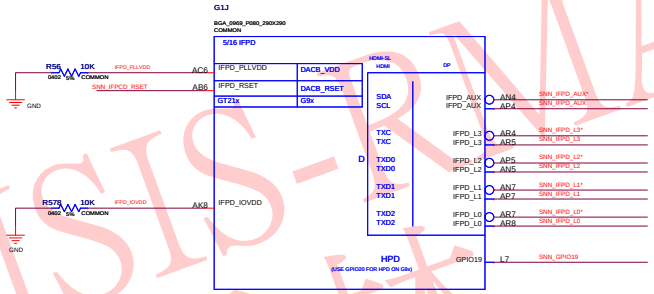


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	LINK C: HDMI (NORTH)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

LINK D: UNUSED

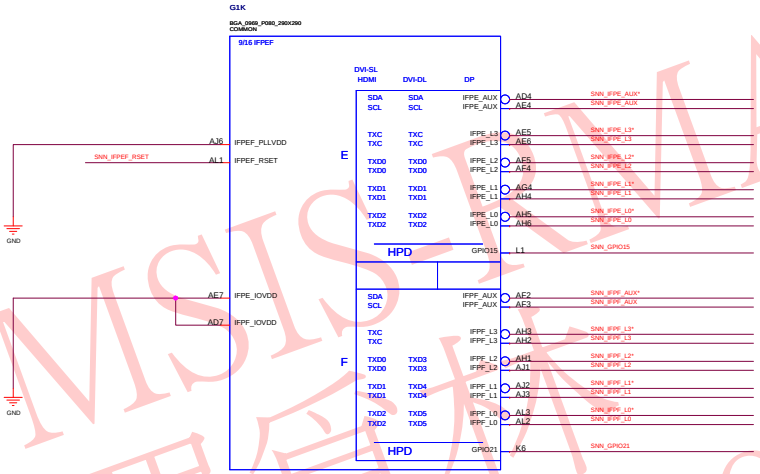


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	LINK D (UNUSED)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

LINK E/F: (UNUSED)

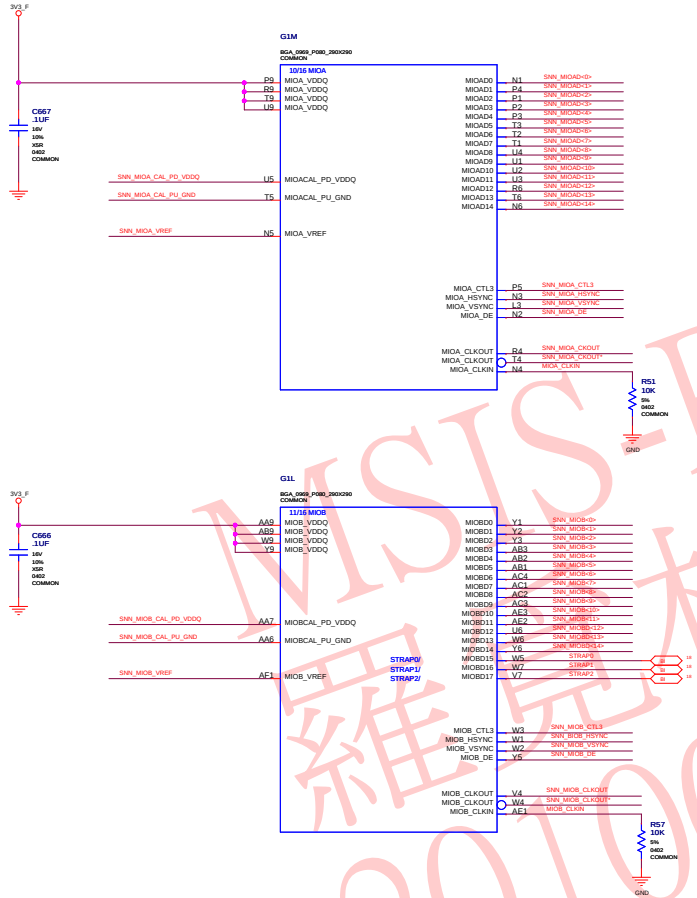


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	LINK E/F: (UNUSED)

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

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

MIOA/B UNUSED



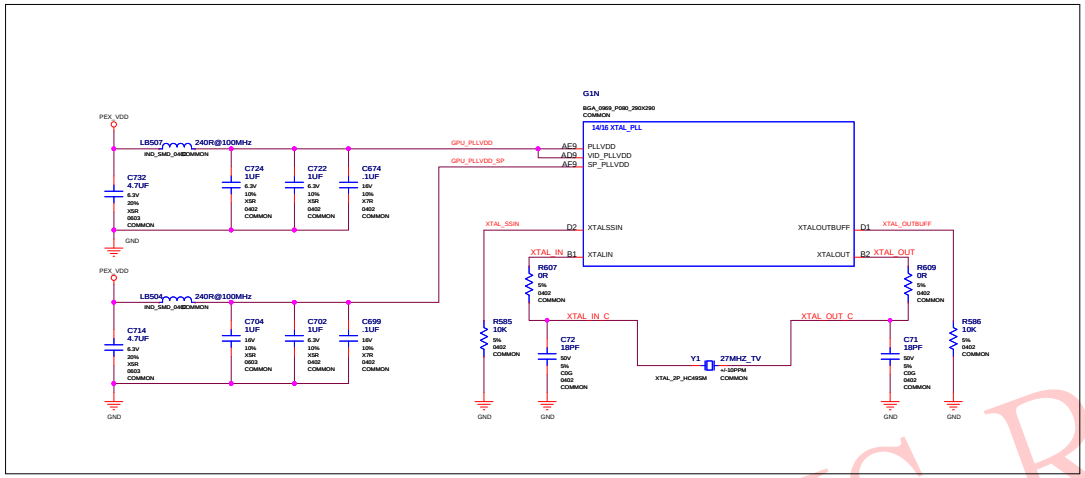
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MIOA & MIOB (UNUSED)

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

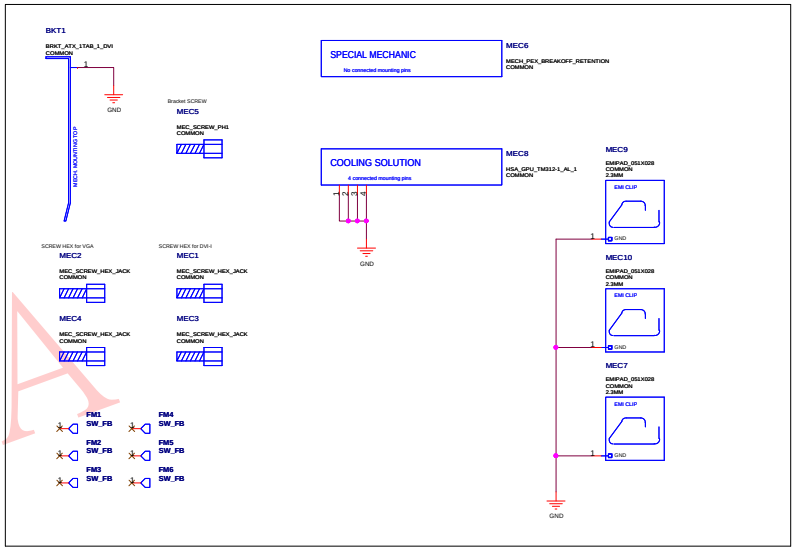
NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

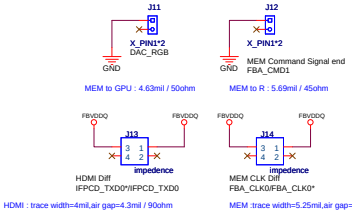
XTAL, MECHANICALS

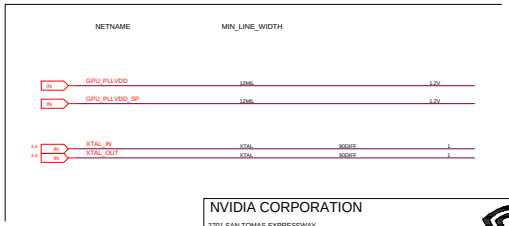
XTAL/GPU_PLLVDD



MECHANICALS & THERMALS







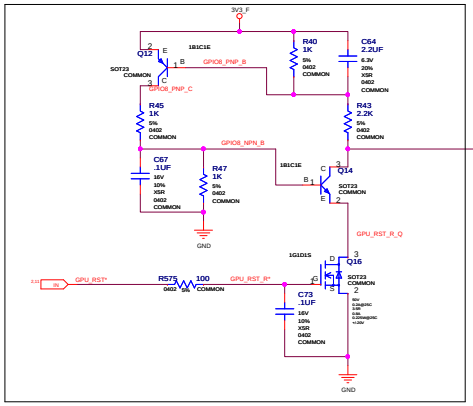
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	XTAL, MECHANICALS, THERMALS

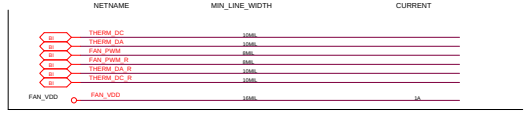
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

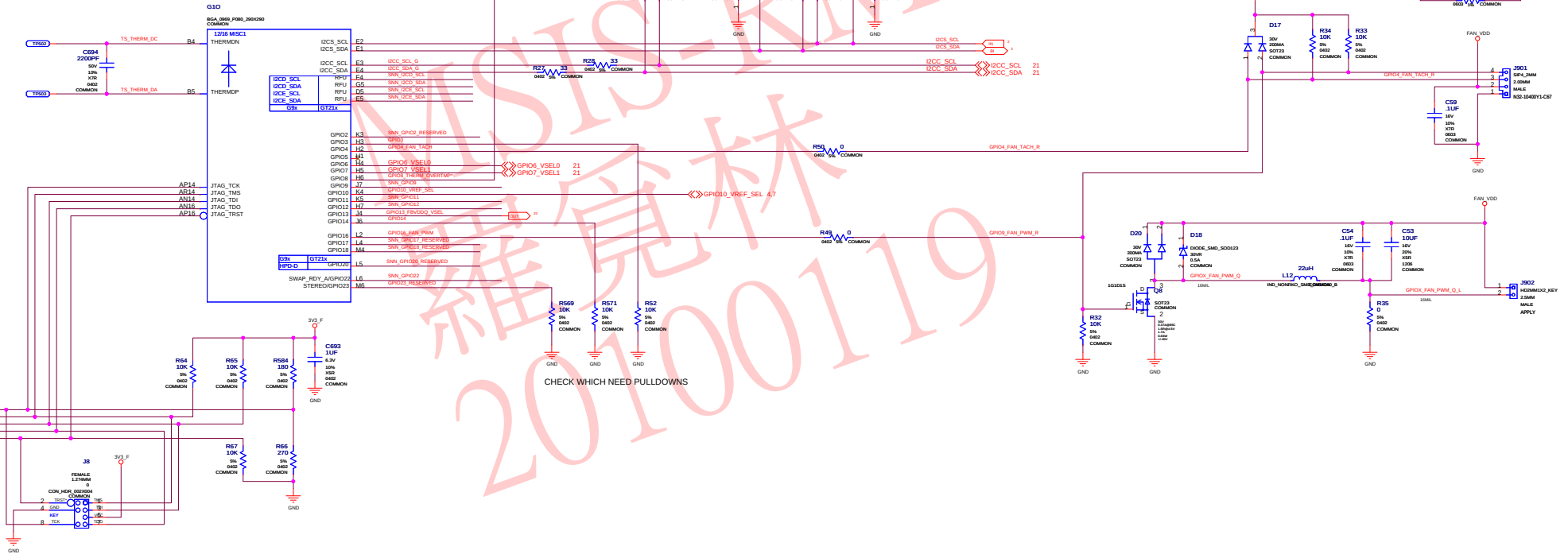
NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

THERM ALERT, FAN CONTROL, GPIO & JTAG

THERM ALERT LATCH







ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FAN CONTROL, THERMAL ALERT, GPIO, JTAG

NVIDIA CORPORATION
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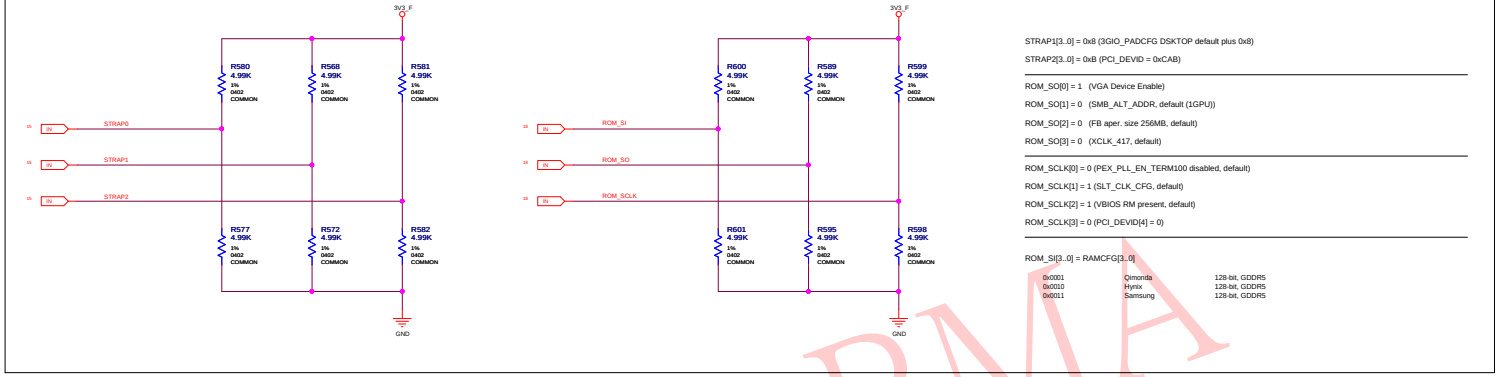
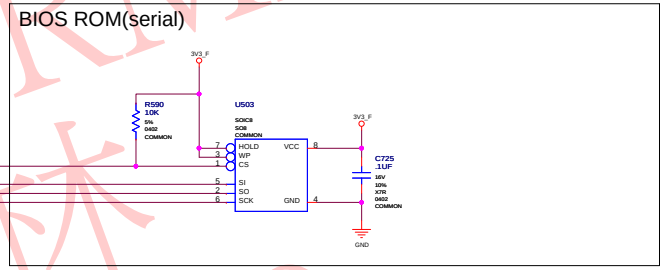
NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

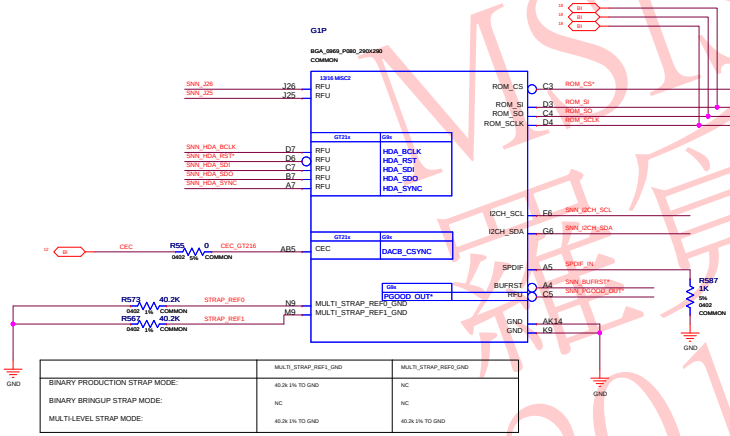
STRAPPING, VBIOS, INFOROM

STRAPPING OPTIONS



BIOS ROM(serial)





	MULTI_STRAP_REF1_GND	MULTI_STRAP_REF0_GND
BINARY PRODUCTION STRAP MODE:	40.2k 1% TO GND	NC
BINARY BRINGUP STRAP MODE:	NC	NC
MULTI-LEVEL STRAP MODE:	40.2k 1% TO GND	40.2k 1% TO GND

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	VBIOS ROM, INFOROM, STRAPPING OPTIONS

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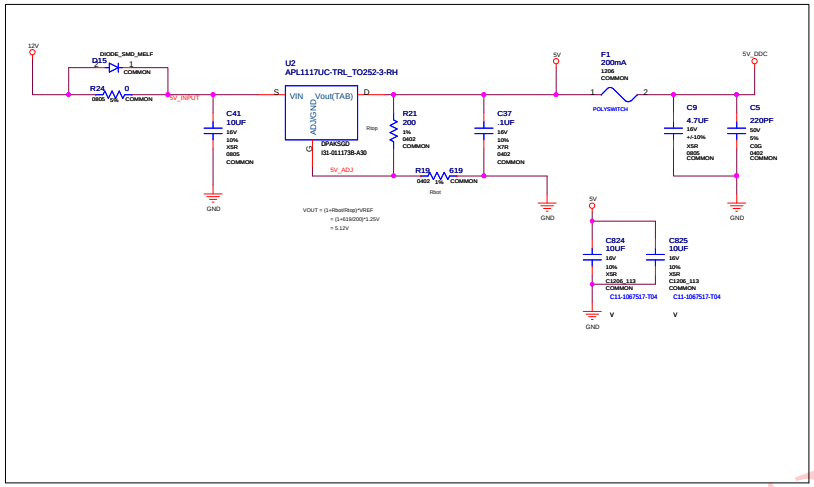
SANTA CLARA, CA 95050, USA

NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

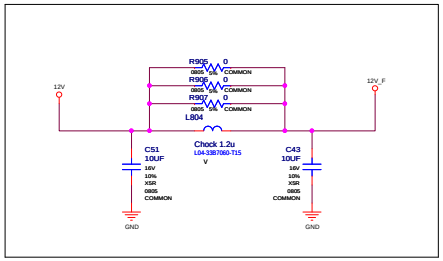
POWER SUPPLY: 5V, 5V_DDC, 1V8, INPUT FILTER

5V REGULATOR

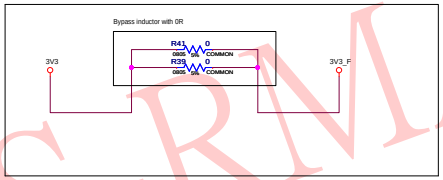


5V DDC

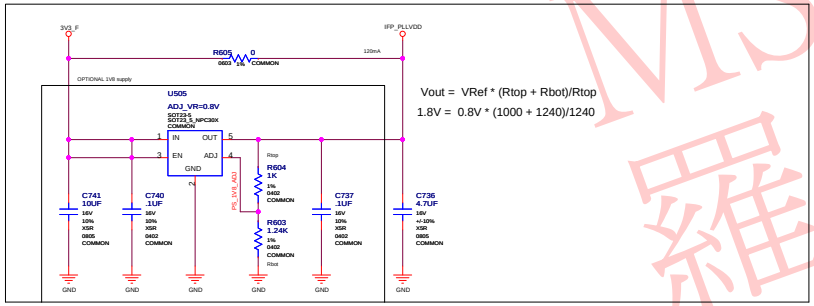
12V filter



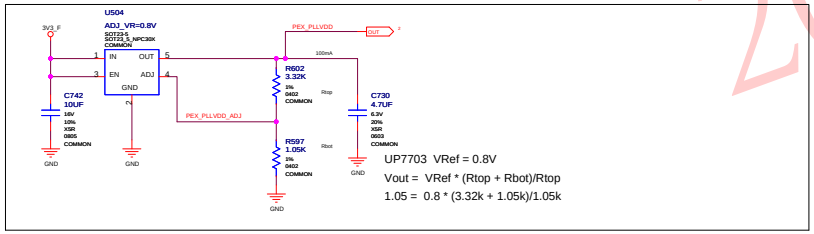
3.3V filter



IFPCEF PLLVDD supply



PEX_PLLVDD (optional)



NETNAME	MAX_CURRENT	MIN_LINE_WIDTH	VOLTAGE
5V_FUSED	0.1A	12MIL	5V
5V_INPUT	0.2A	12MIL	5V
PS_1V8_ADJ		10MIL	1.8V
IFPA_IOVDD	0.3A	12MIL	3.2V
12V	6A	20MIL	12V
3V3	3A	12MIL	3.2V
3V3_F	4A	20MIL	3.3V
5V	0.3A	12MIL	5V
5V_DDC	0.1A	12MIL	5V
GND		10MIL	0V

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	5V, DDC5V, IFP PLLVDD, IFP IOVDD, 3V3 FILTER, 12V FILTER

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NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

POWER SUPPLY: FBVDDQ, PEX_VDD

FBVDDQ Power Supply 1.35-1.50V@15A

Irms = 5.3A @ 1.5V / 15A (1.0uH)

FBVDDQ = 1.5V / 15A

PEXVDD LINEAR

PEXVDD GATING

GPIO13	
FBVDDQ = 1.35V	0
FBVDDQ = 1.55V	1

FBVDDQ = VREF * (1 + (Rtop / Rbot))
1.358V = 0.8V * (1 + (698 / 1K))

FBVDDQ = VREF * (1 + (Rtop / Rbot ll Rbot1))
1.548V = 0.8V * (1 + (698 / (1K ll 2.94K))

NET	MIN_LINE_WIDTH	VOLTAGE	NV_NET_MAX_CURRENT
NVVDD	20MIL	1.0V	40A
FBVDDQ	20MIL	1.5V	15A
PEX_VDD	20MIL	1.05V	3A

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBVDDQ SINGLE PHASE SWITCHER; PEX_VDD LINEAR

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NV_PN	600-10672-base-100 A		
ID		PAGE	
NAME		DATE	01-JUL-2009

Title: Basenet Report
Design: design
Date: Jun 9 10:09:58 2009

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

3V3 19.1G
3V3_F 19.1G
3V3_INFOROM 18.4F
3V3_PEX_SVDD 2.5G
3V3_PRSNT 21.2A
5V 19.1G
5V_ADJ 19.2B
5V_DDC 19.1G
5V_DDC_VGA 10.3G
5V_FUSED 19.1G
5V_INPUT 19.1A 19.1G
5V_PHASE 19.2B
12V 19.1G
12V_F 19.1G
12V_PRSNT 21.2A
CEC 12.2D 18.4B
CEC_GT216 18.4B
DACA_BLUE 9.3C 9.5A
DACA_BLUE_C 9.5A 9.5H 11.2G
DACA_GREEN 9.3C 9.5A
DACA_GREEN_C 9.4H 9.5A 11.2G
DACA_HSYNC 9.3C 9.5A
DACA_HSYNC_BUF 9.3D 9.5A
DACA_HSYNC_C 9.3H 9.5A 11.2G
DACA_HSYNC_R 9.3F 9.5A
DACA_RED 9.3C 9.5A
DACA_RED_C 9.4H 9.5A 11.2G
DACA_RSET 9.3B 9.5A
DACA_VDD 9.3B 9.5A
DACA_VREF 9.3B 9.5A
DACA_VSYNC 9.3C 9.5A
DACA_VSYNC_BUF 9.3D 9.5A
DACA_VSYNC_C 9.3H 9.5A 11.2G
DACA_VSYNC_R 9.3F 9.5A
DACB_BLUE 10.3C 10.5A
DACB_BLUE_C 10.5A 10.5G
DACB_GREEN 10.3C 10.5A
DACB_GREEN_C 10.4G 10.5A
DACB_HSYNC 10.3C 10.5A
DACB_HSYNC_BUF 10.3D 10.5A
DACB_HSYNC_C 10.3H 10.5A
DACB_HSYNC_R 10.3E 10.5A
DACB_RED 10.3C 10.5A
DACB_RED_C 10.4G 10.5A
DACB_RSET 10.3B 10.5A
DACB_VDD 10.3B 10.5A
DACB_VREF 10.3B 10.5A
DACB_VSYNC 10.3C 10.5A
DACB_VSYNC_BUF 10.3D 10.5A
DACB_VSYNC_C 10.3H 10.5A
DACB_VSYNC_R 10.3E 10.5A
FAN_PWM 17.1G
FAN_PWM_R 17.1G
FAN_VDD 17.1G
FBA_CLK0 3.4D 4.1F 4.2A
FBA_CLK0* 3.4D 4.1F 4.2A
FBA_CLK0_TERM 4.2B 4.2F
FBA_CLK1 3.4D 4.1F 4.2D
FBA_CLK1* 3.4D 4.1F 4.2D
FBA_CLK1_TERM 4.2E 4.2F
FBA_CMD<0> 3.3C 4.1B
FBA_CMD<30..0> 3.3D 4.1A 4.1D 4.1F
FBA_CMD<1> 3.3C 4.1B
FBA_CMD<2> 3.3C 4.1B
FBA_CMD<3> 3.3C 4.1E
FBA_CMD<4> 3.3C 4.1E
FBA_CMD<5> 3.3C 4.1E
FBA_CMD<6> 3.3C 4.2E 4.2G
FBA_CMD<7> 3.3C 4.1B
FBA_CMD<8> 3.3C 4.2B 4.2E 4.2G
FBA_CMD<9> 3.3C 4.1B
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FBA_CMD<18> 3.3C 4.1B
FBA_CMD<19> 3.3C 4.1E
FBA_CMD<20> 3.3C 4.2B 4.2G
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FBA_CMD<22> 3.3C 4.1B
FBA_CMD<23> 3.3C 4.1B
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FBA_CMD<25> 3.3C 4.1B
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FBA_CMD<27> 3.4C 4.1E
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FBA_CMD<29> 3.4C 4.1B
FBA_CMD<30> 3.4C 4.1E
FBA_D<0> 3.1B 4.4B
FBA_D<63..0> 3.1A 4.1F 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 4.4B
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FBA_D<18> 3.2B 4.4C
FBA_D<19> 3.2B 4.4C
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FBA_D<24> 3.2B 4.4C
FBA_D<25> 3.2B 4.4C
FBA_D<26> 3.2B 4.4C
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
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FBA_DBI<7..0> 3.3A 4.1F 4.4A
FBA_DBI<1> 3.3B 4.5B
FBA_DBI<2> 3.3B 4.4C
FBA_DBI<3> 3.3B 4.5C
FBA_DBI<4> 3.3B 4.4D
FBA_DBI<5> 3.3B 4.5D
FBA_DBI<6> 3.3B 4.4E
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FBA_DEBUG 3.4D
FBA_DEBUG_SEN0 4.3B
FBA_DEBUG_SEN1 4.3E
FBA_EDC<0> 3.4B 4.4B
FBA_EDC<7..0> 3.4A 4.1F 4.4A
FBA_EDC<1> 3.4B 4.5B
FBA_EDC<2> 3.4B 4.4C
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FBA_VREFD0 4.2F 4.4F
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FBA_VREF_PROBE 3.5B
FBA_WCK01 3.4A 4.1F 4.5A
FBA_WCK01* 3.4A 4.1F 4.5A
FBA_WCK01_CT 4.2F 4.5B
FBA_WCK23 3.4A 4.1F 4.5C
FBA_WCK23* 3.4A 4.1F 4.5C
FBA_WCK23_CT 4.2F 4.5C
FBA_WCK45 3.4A 4.1F 4.5D
FBA_WCK45* 3.4A 4.1F 4.5D
FBA_WCK45_CT 4.2F 4.5D
FBA_WCK67 3.4A 4.1F 4.5E
FBA_WCK67* 3.4A 4.1F 4.5E
FBA_WCK67_CT 4.2F 4.5E
FBA_ZQ0 4.2B
FBA_ZQ1 4.2E
FBC_CLK0 6.4D 7.1G 7.2A
FBC_CLK0* 6.4D 7.1G 7.2A
FBC_CLK0_TERM 7.2B 7.2G
FBC_CLK1 6.4D 7.1G 7.2D
FBC_CLK1* 6.4D 7.1G 7.2D
FBC_CLK1_TERM 7.2E 7.2G
FBC_CMD<0> 6.3C 7.1B
FBC_CMD<30..0> 6.3D 7.1A 7.1D 7.1G
FBC_CMD<1> 6.3C 7.1B
FBC_CMD<2> 6.3C 7.1B
FBC_CMD<3> 6.3C 7.1E
FBC_CMD<4> 6.3C 7.1E
FBC_CMD<5> 6.3C 7.1E
FBC_CMD<6> 6.3C 7.2E 7.2G
FBC_CMD<7> 6.3C 7.1B
FBC_CMD<8> 6.3C 7.2B 7.2E 7.2G
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FBC_CMD<13> 6.3C 7.1E
FBC_CMD<14> 6.3C 7.1B
FBC_CMD<15> 6.3C 7.1E
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FBC_CMD<17> 6.3C 7.1E
FBC_CMD<18> 6.3C 7.1B
FBC_CMD<19> 6.3C 7.1E
FBC_CMD<20> 6.3C 7.2B 7.2G
FBC_CMD<21> 6.3C 7.1E
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FBC_CMD<27> 6.4C 7.1E
FBC_CMD<28> 6.4C 7.1E
FBC_CMD<29> 6.4C 7.1B
FBC_CMD<30> 6.4C 7.1E
FBC_D<0> 6.1A 7.4B
FBC_D<63..0> 6.1A 7.1G 7.4A
FBC_D<1> 6.1A 7.4B
FBC_D<2> 6.1A 7.4B
FBC_D<3> 6.1A 7.4B
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FBC_D<15> 6.2A 7.5B
FBC_D<16> 6.2A 7.4C
FBC_D<17> 6.2A 7.4C
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GPIO23_RESERVED 17.4C
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GPU_PLLVDD_SP 16.1B 16.5G
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GPU_RST_R_Q 17.2B
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HDMI_PD_1 12.4E
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NVIDIA CORPORATION
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Title: Cnxf Part
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Design: design
Date: Jun 9
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R1619 [6.4D]
R1620 [9.4E]
R1621 [9.3B]
R1622 [7.2G]
R1623 [9.4E]
R1624 [9.5E]
R1625 [11.2B]
R1627 [18.4B]
R1628 [13.3C]
R1630 [12.3B]
R1631 [18.4B]
R1632 [13.2C]
R1633 [7.3B]
R1634 [10.4D]
R1635 [2.1C]
R1636 [17.4E]
R1637 [10.3B]
R1638 [10.5D]
R1639 [17.4D]
R1640 [2.1B]
R1641 [16.2D]
R1642 [10.4D]
R1644 [17.4D]
R1645 [17.3E]
R1646 [17.4D]
R1647 [16.2C]
R1648 [7.2B]
R1649 [7.2B]
R1650 [7.2B]
R1651 [19.5B]
R1652 [19.5B]
R1653 [17.1B]

R1655 [19.4B]
R1656 [17.4D]
R1657 [19.4B]
R1658 [17.2E]
R1659 [17.1B]
R1660 [17.2C]
R1661 [18.2B]
R1662 [19.3B]
R1663 [18.2C]
R1664 [17.1B]
R1665 [18.1C]
R1666 [18.1B]
R1667 [17.2B]
R1668 [18.1C]
R1669 [17.2E]
R1670 [18.2D]
R1671 [18.2C]
R1672 [18.1D]
R1673 [17.2B]
R1674 [11.5F]
R1675 [18.1E]
R1676 [18.2E]
R1677 [18.2E]
R1678 [18.1E]
R1679 [18.3E]
R1680 [2.1D]
R1681 [17.4B]
R1687 [12.1D]
R1688 [12.1D]
R1689 [12.1D]
R1690 [12.1D]
R1691 [10.5E]
R1692 [10.4E]
R1693 [10.4E]
R1700 [9.5D]
R1701 [9.4D]
R1702 [9.4D]
R1703 [12.4E]
R1704 [12.4D]
R1707 [12.1F]
R1708 [12.1F]
RP1 [2.1C 2.1C 2.1C 2.1C]
TP1501 [3.5B]
TP1502 [17.3A]
TP1503 [17.3A]
U1 [19.2B]
U8 [21.3D]
U502 [20.2C]
U507 [9.3D 9.3D]
U507 [10.3D 10.3D]
U1001 [12.1G]
U1003 [19.1B]
U1006 [18.4F]
U1504 [19.5A]
U1505 [19.4A]
U1506 [18.3E]
Y1001 [16.2C]
Y1002 [16.2C]

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	<edit here to insert page detail>

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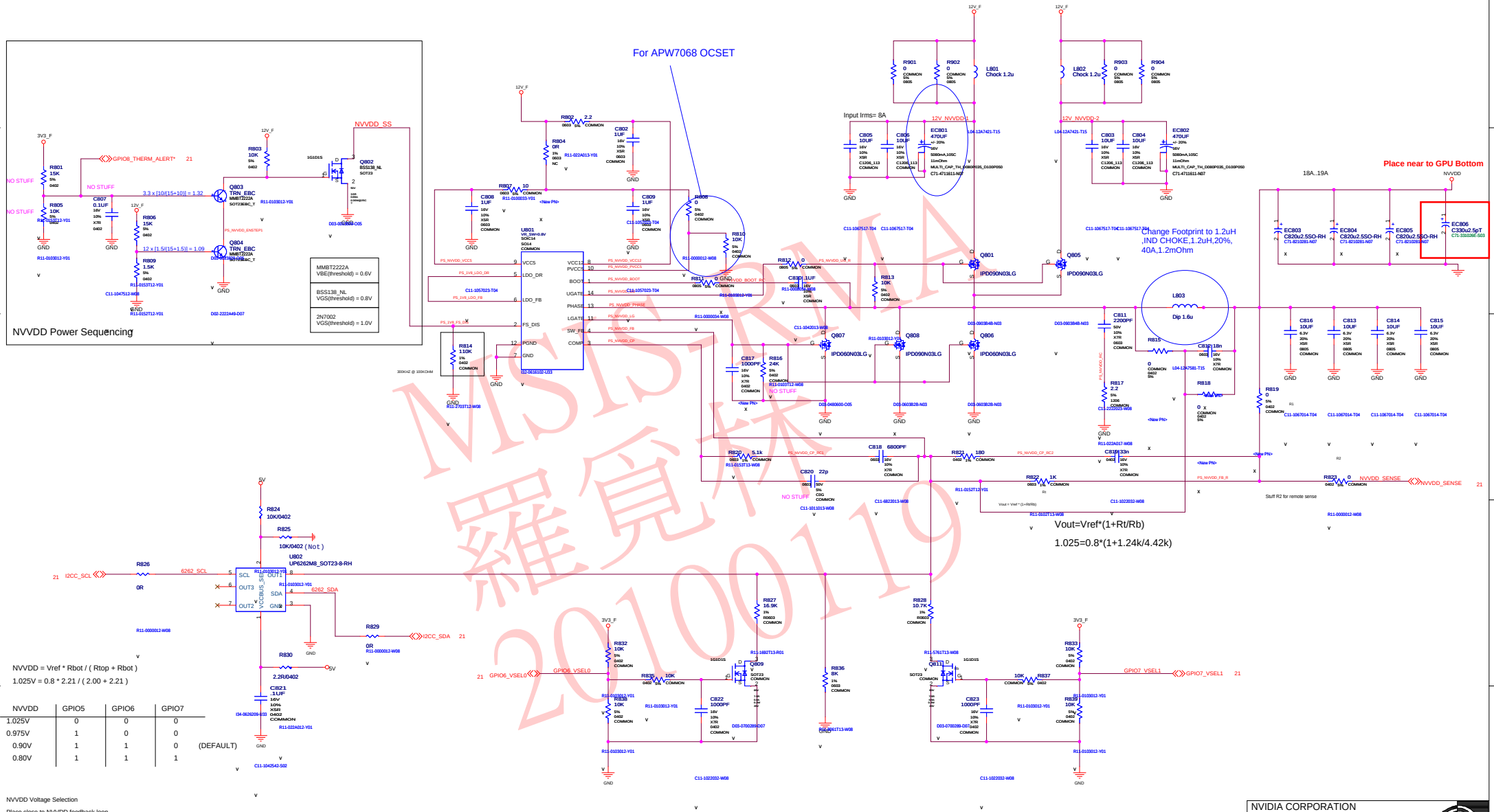
NAME	<ENGINEER>	DATE	01-JUL-2009

Power Supply III: NVVDD



NVVDD	GPIO5	GPIO6	GPIO7
1.025V	0	0	0
0.975V	1	0	0
0.90V	1	1	0
0.80V (DEFAULT)	1	1	1

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	NVVDD POWER SUPPLY

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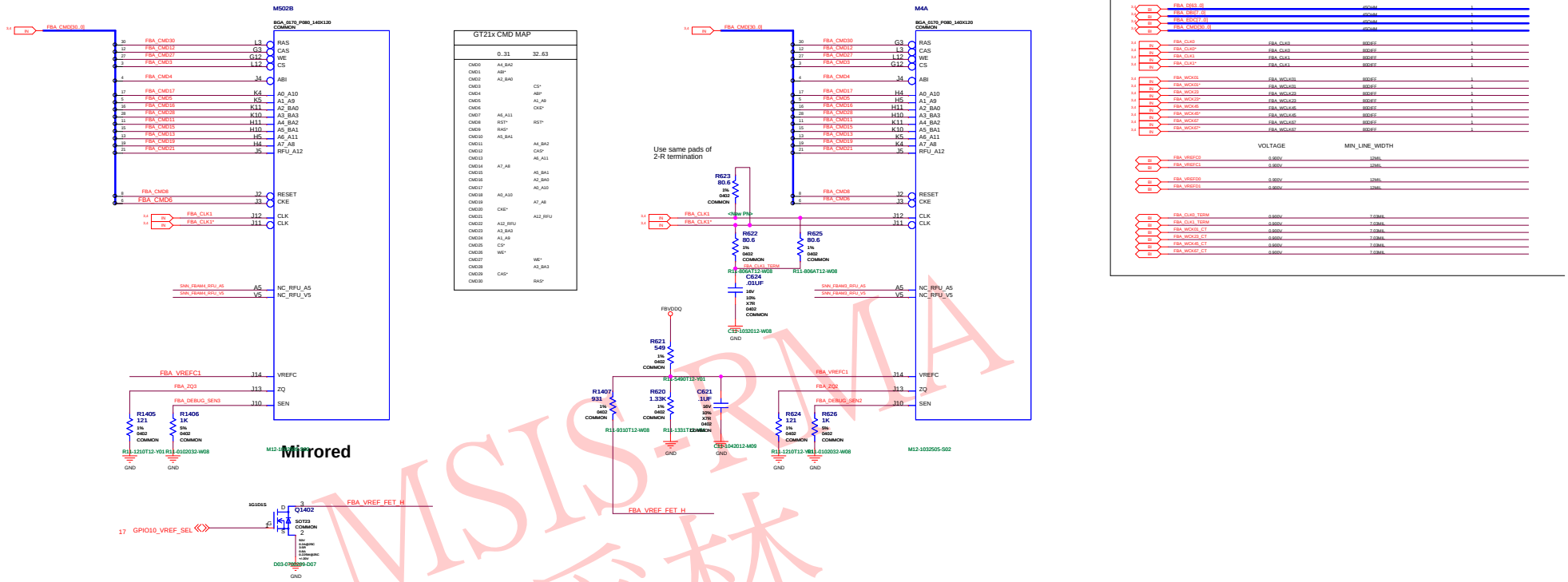
MEMORY Partition A -Upper Half



NET	DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET
FBA_DBI1_0		40OHM	1
FBA_DBI7_0		40OHM	1
FBA_EDC17_0		40OHM	1
FBA_CMD30_0		40OHM	1
FBA_CLK0	FBA_CLK0	80DIFF	1
FBA_CLK0*	FBA_CLK0	80DIFF	1
FBA_CLK1	FBA_CLK1	80DIFF	1
FBA_CLK1*	FBA_CLK1	80DIFF	1
FBA_WCK01	FBA_WCK01	80DIFF	1
FBA_WCK01*	FBA_WCK01	80DIFF	1
FBA_WCK23	FBA_WCK23	80DIFF	1
FBA_WCK23*	FBA_WCK23	80DIFF	1
FBA_WCK45	FBA_WCK45	80DIFF	1
FBA_WCK45*	FBA_WCK45	80DIFF	1
FBA_WCK67	FBA_WCK67	80DIFF	1
FBA_WCK67*	FBA_WCK67	80DIFF	1

	VOLTAGE	MIN_LINE_WIDTH
FBA_VREFC0	0.900V	12MIL
FBA_VREFC1	0.900V	12MIL
FBA_VREFD0	0.900V	12MIL
FBA_VREFD1	0.900V	12MIL
FBA_CLK0_TERM	0.900V	7.03MIL
FBA_CLK1_TERM	0.900V	7.03MIL
FBA_WCK01_CT	0.900V	7.03MIL
FBA_WCK23_CT	0.900V	7.03MIL
FBA_WCK45_CT	0.900V	7.03MIL
FBA_WCK67_CT	0.900V	7.03MIL

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA 32Mx32 GDDR5 MEMORIES, FBA CLK TERMS

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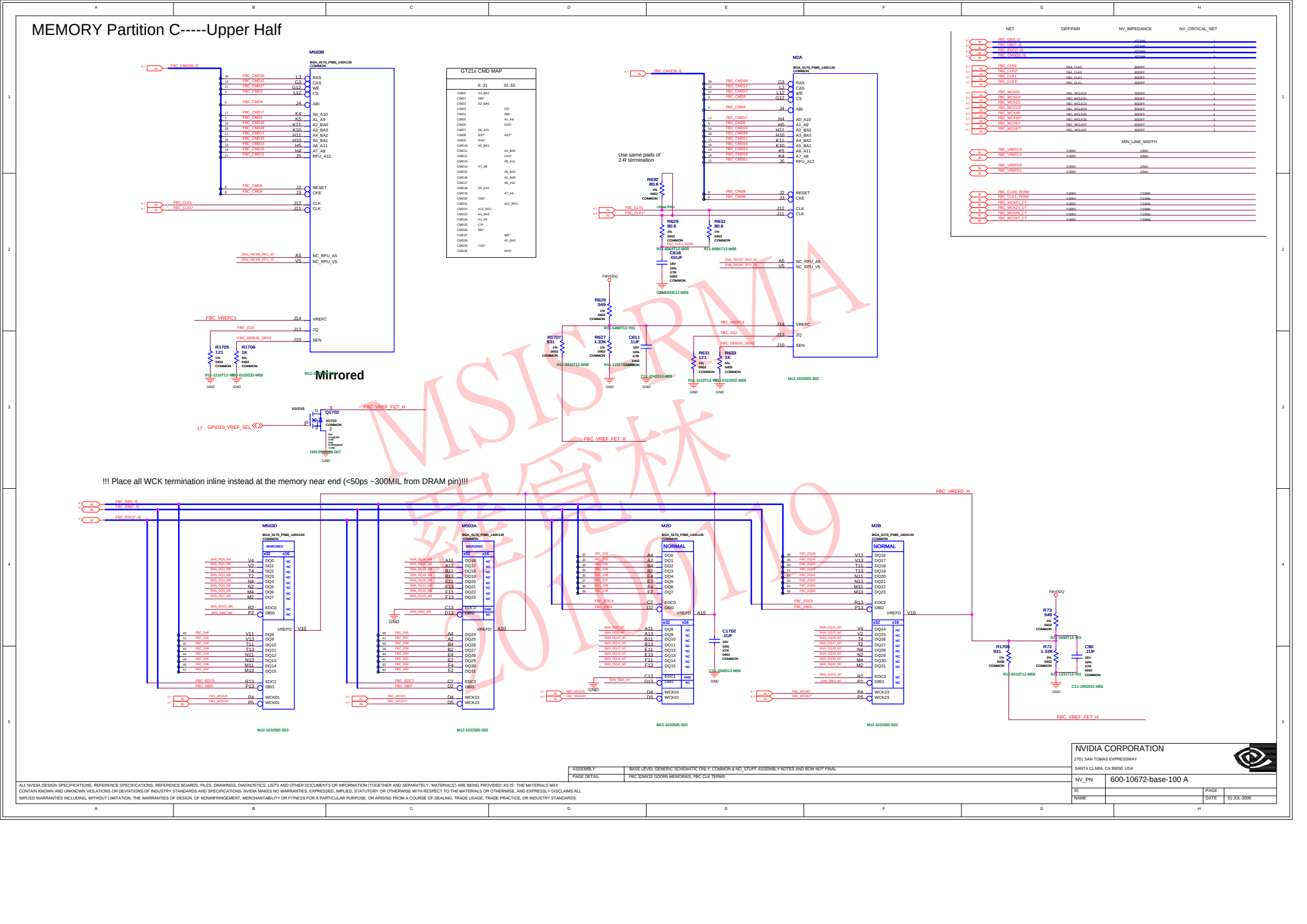
MEMORY Partition C-----Upper Half



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBC 32MX32 GDDR5 MEMORIES, FBC CLK TERMS

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NAME		DATE	01-JUL-2009