P672: GT215-128bit, 32Mx32 GDDR5

DL-DVI, VGA, HDMI

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Page 2: PCI EXPRESS INTERFACE, PEX_VDD DECOUPLING CAPS
Page 3: FBA MEMORY INTERFACE, GPU NVVDD & FBVDDQ DECOUPLING CAPS
Page 4: FBA 32Mx32 GDDR5 MEMORIES, FBA CLK TERMS
Page 5: FBA MEMORY FBVDDQ DECOUPLING CAPS
Page 6: FBC MEMORY INTERFACE
Page 7: FBC 32MX32 GDDR5 MEMORIES, FBC CLK TERMS
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Page 9: DACA (PRIMARY DVI-I)
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Page 11: TMDS LINK A/B: DVI-I (SOUTH)
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Page 21: NVVDD DUAL PHASE SWITCHER
Page 22: BaseNet Report 1
Page 23: BaseNet Report 2
Page 24: CREFER Parts

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

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BOM	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
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	TABLE OF CONTENTS

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NV_PN	600-10672-base-100 A		
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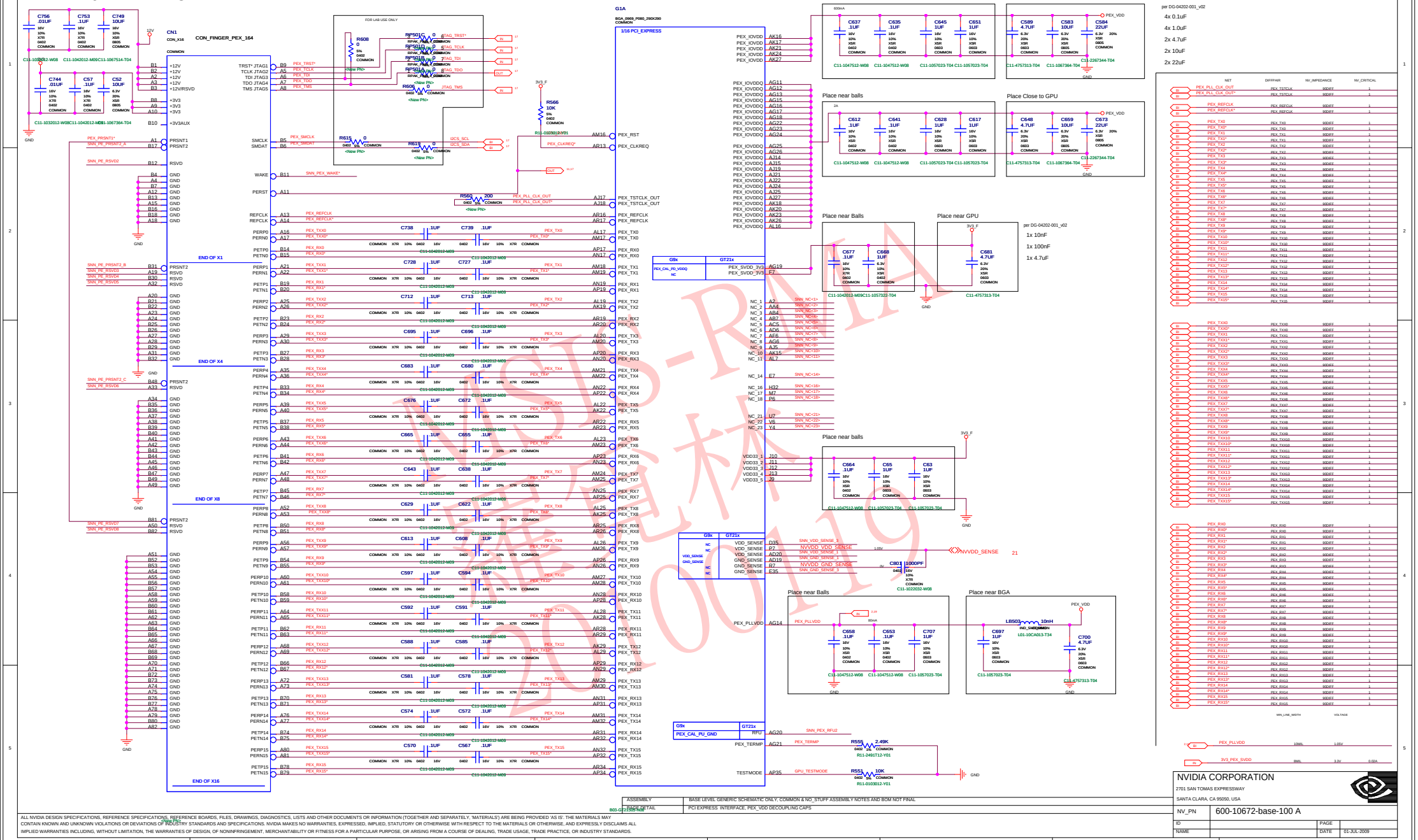
PEX x16 INTERFACE



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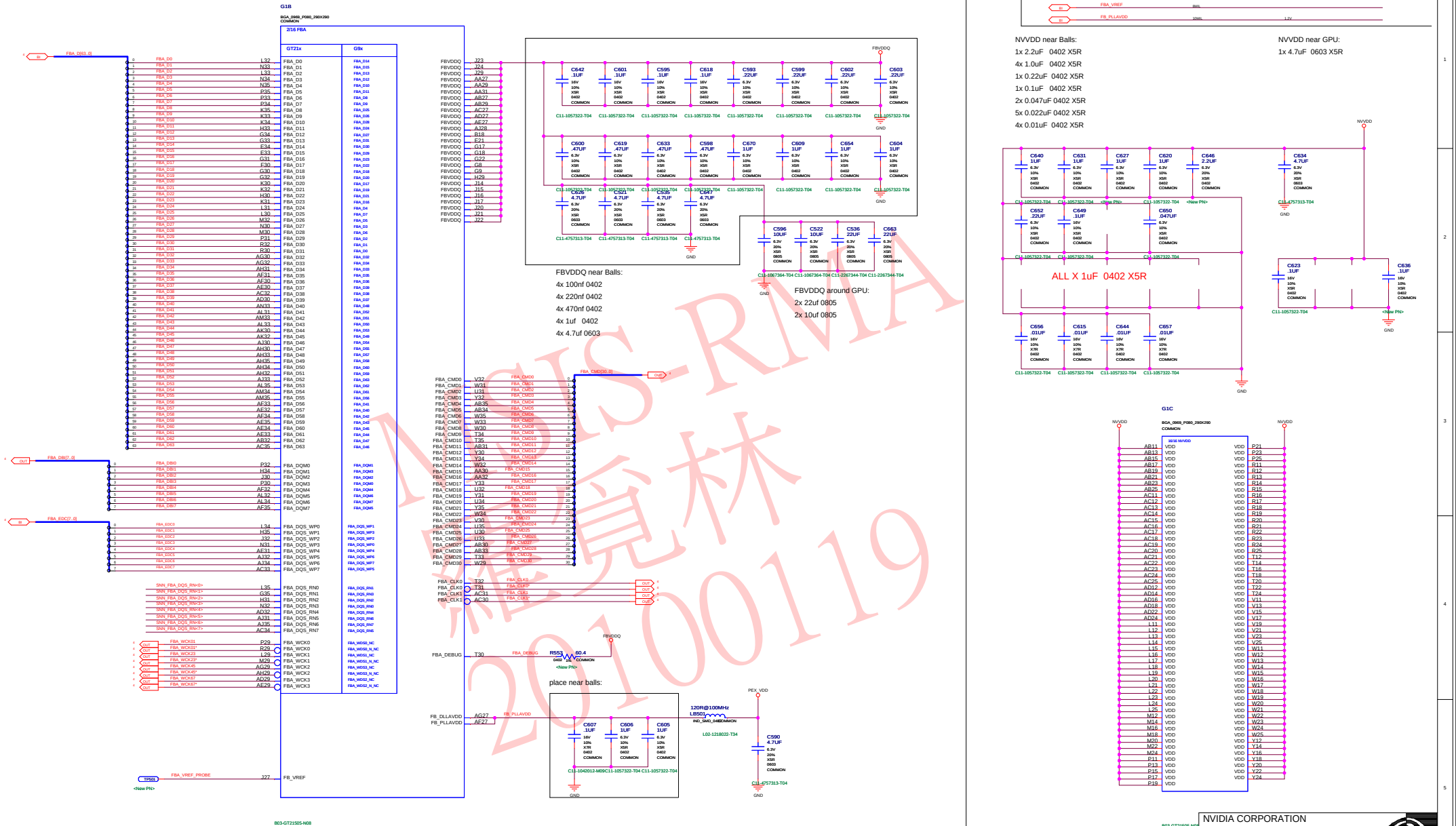
MEMORY Partition A - GPU, FBVDD/Q & NVVDD DECOUPLING



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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

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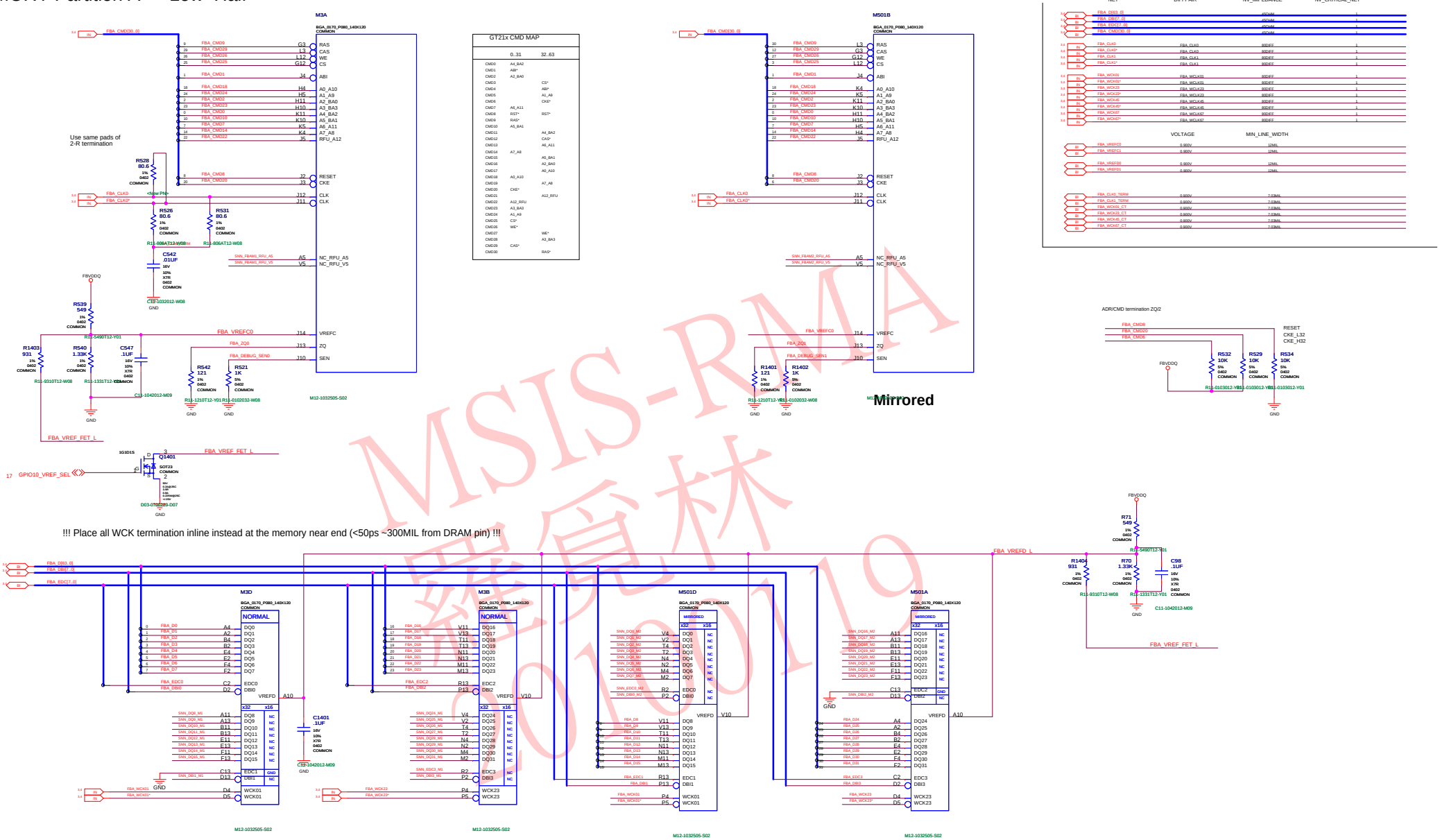
MEMORY Partition A --- Low Half



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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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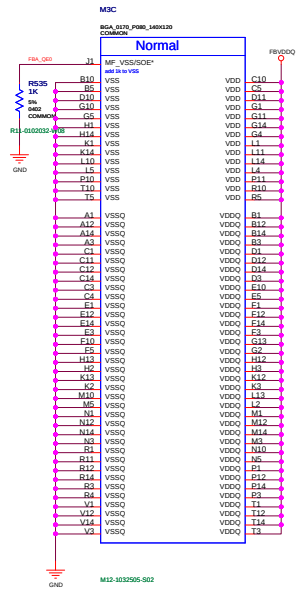
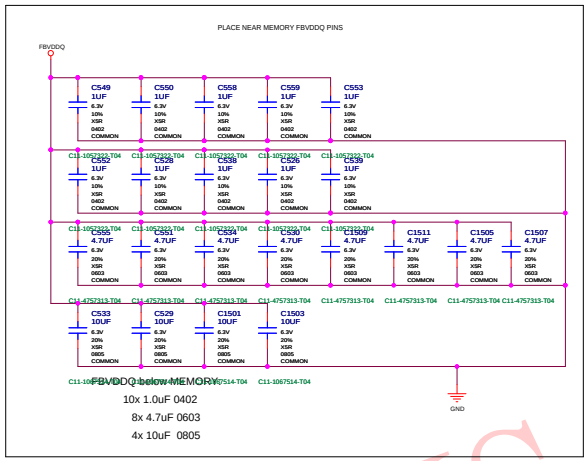
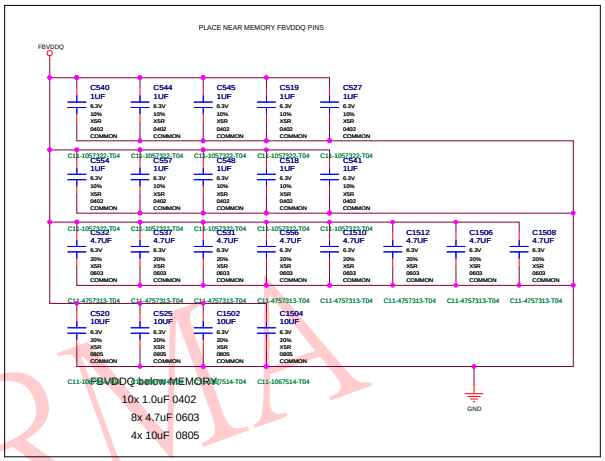
MEMORY Partition A - Decoupling

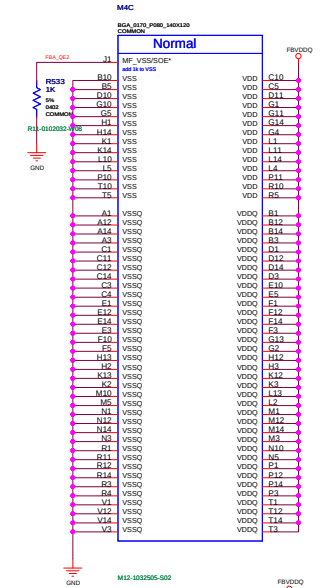


Decoupling for FBA 0..31

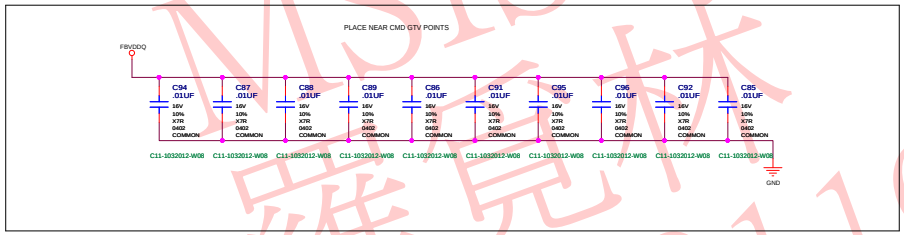


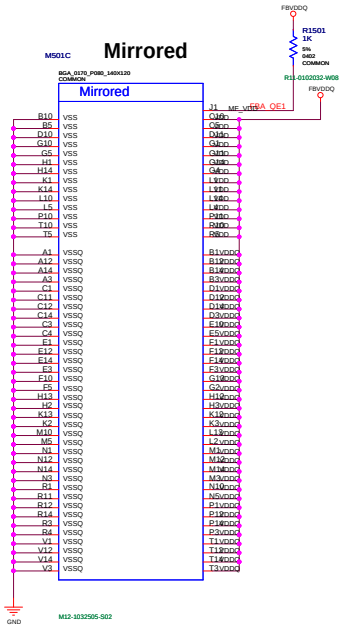
Decoupling for FBA 32..63

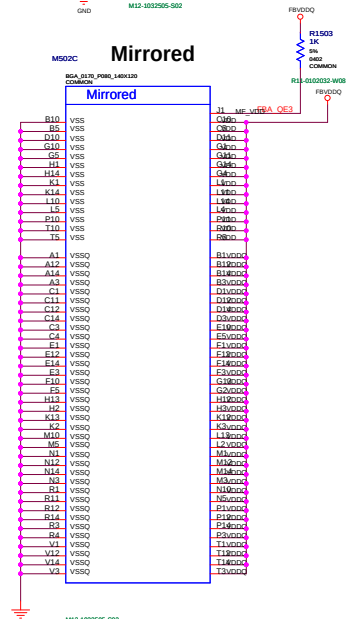




Return path coupling GND/FBVDDQ for FBA







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

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MEMORY Partition C - GPU

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PAGE DETAIL	FBC MEMORY INTERFACE

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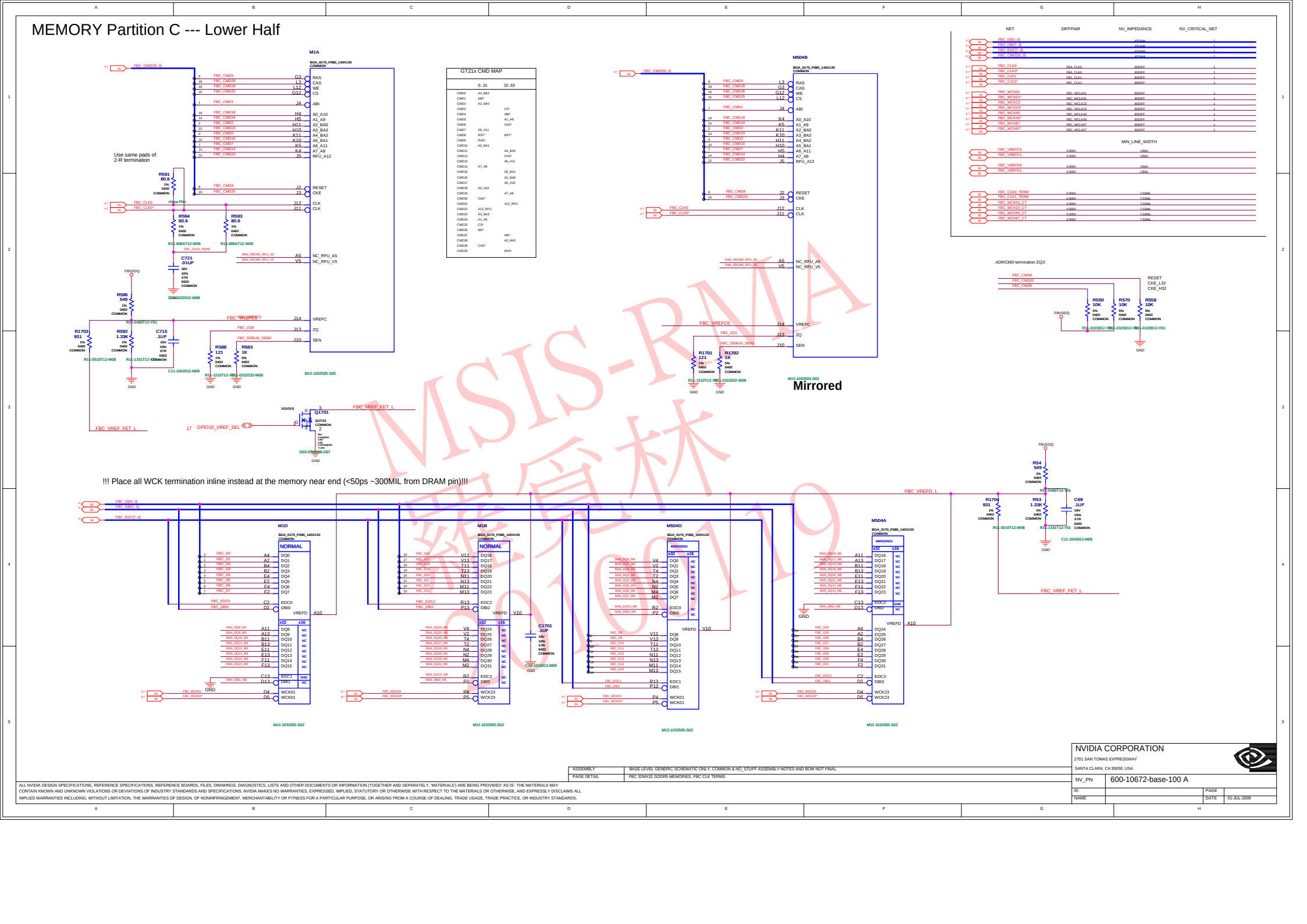
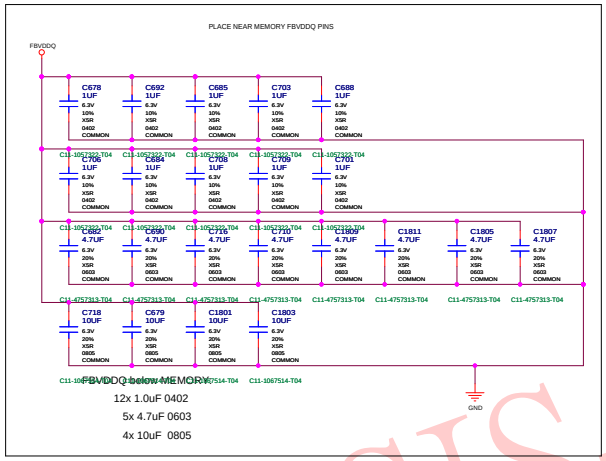
MEMORY Partition C --- Lower Half

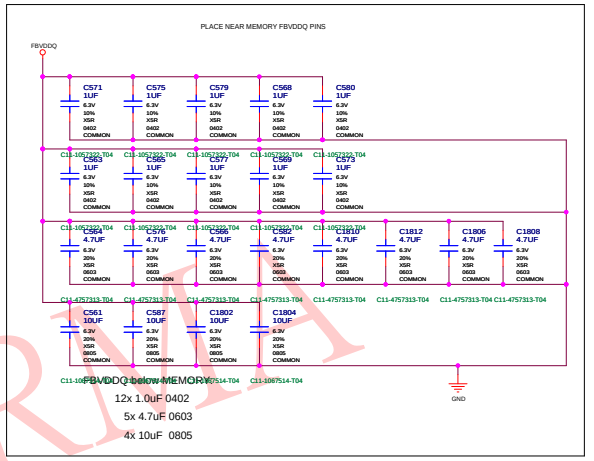


MEMORY PARTITION C DECOUPLING

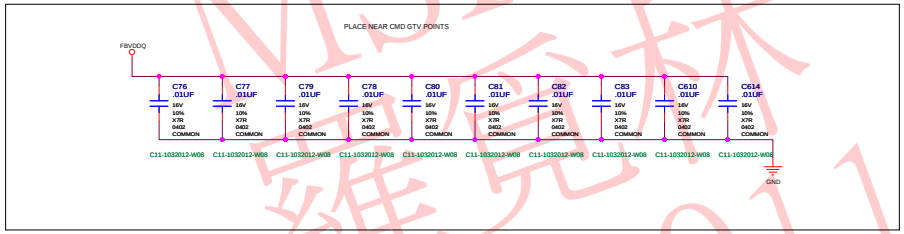
Decoupling for FBC 0..31



Decoupling for FBC 32..63



Return path coupling GND/FBVDDQ for FBC



M1C — Normal

M2C — Normal

M504C — Mirrored

M503C — Mirrored

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

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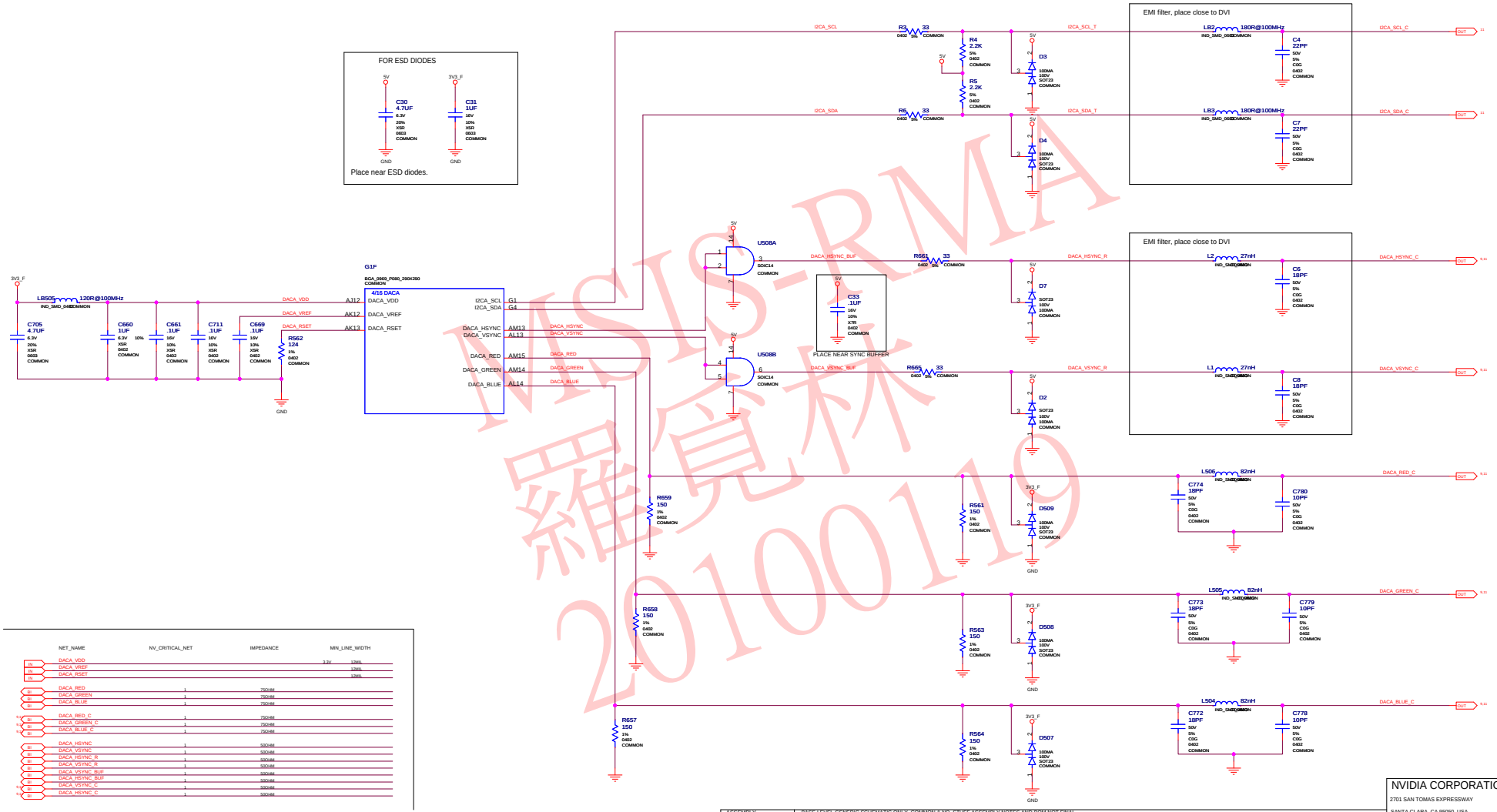
Primary Display (DACA), DVI-I (South)

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)

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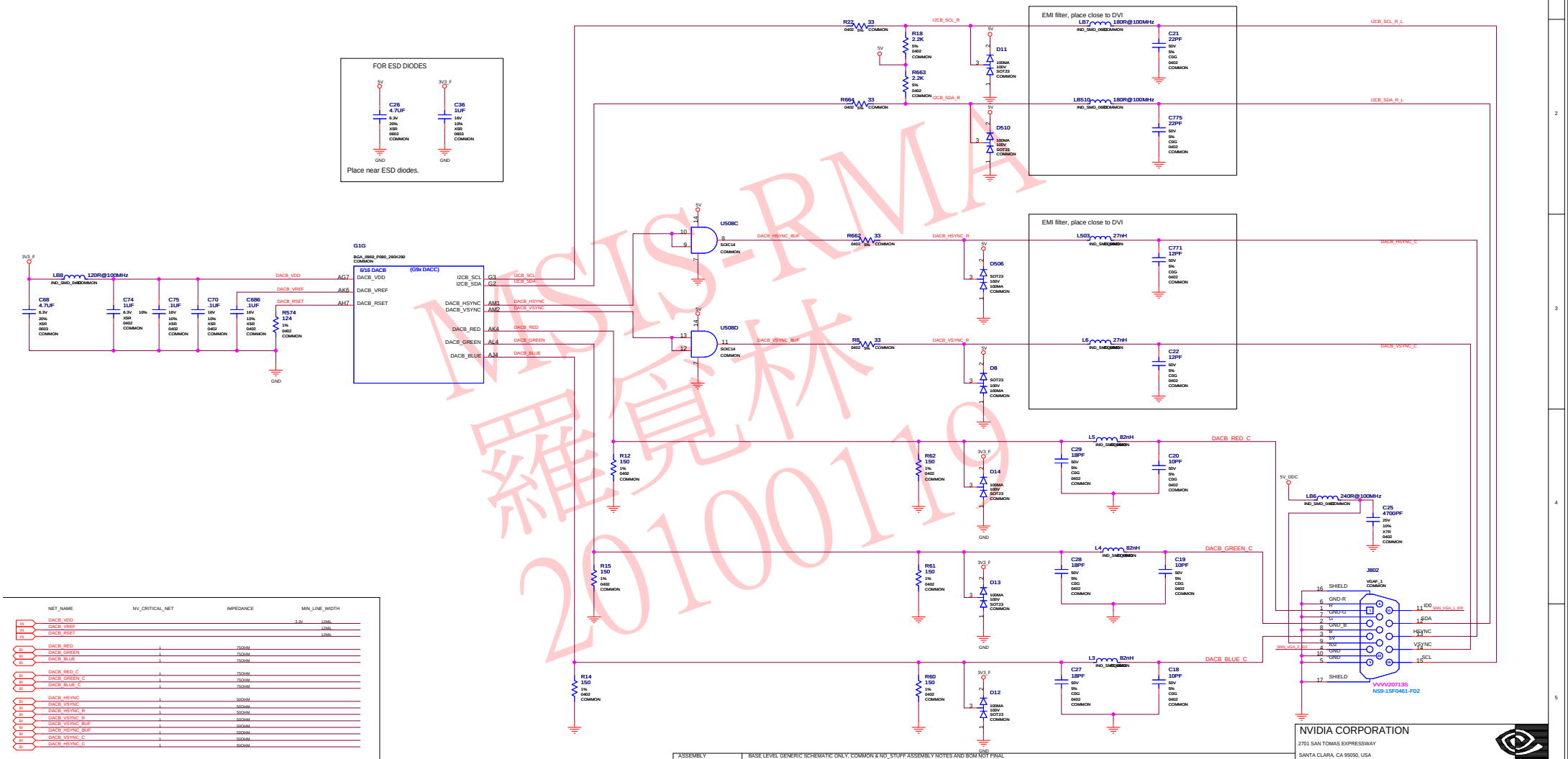
Secondary Display (DACB), VGA (Mid)

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)

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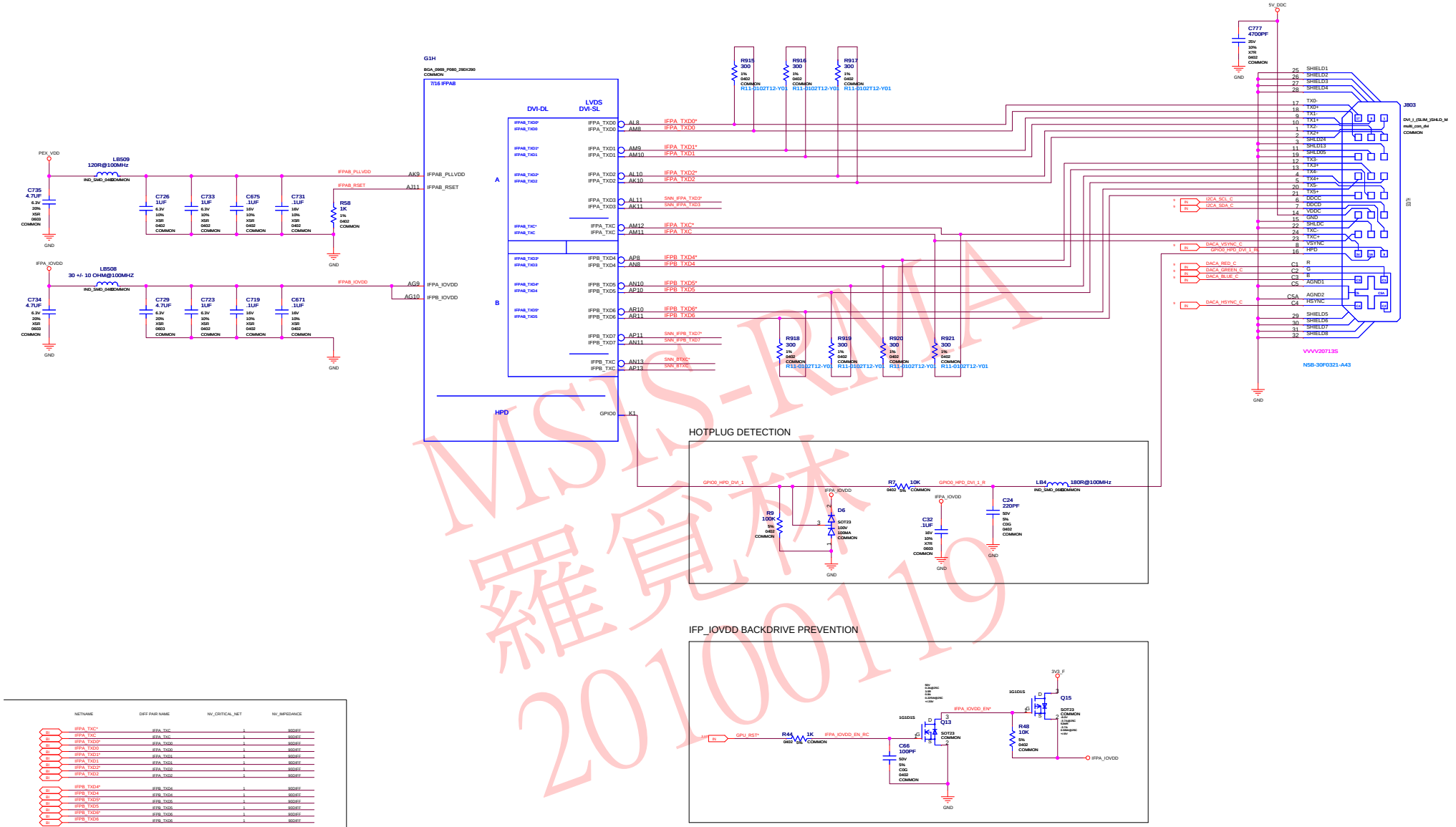
LINK A/B: TMDS, Primary DVI-I DL (South)



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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)

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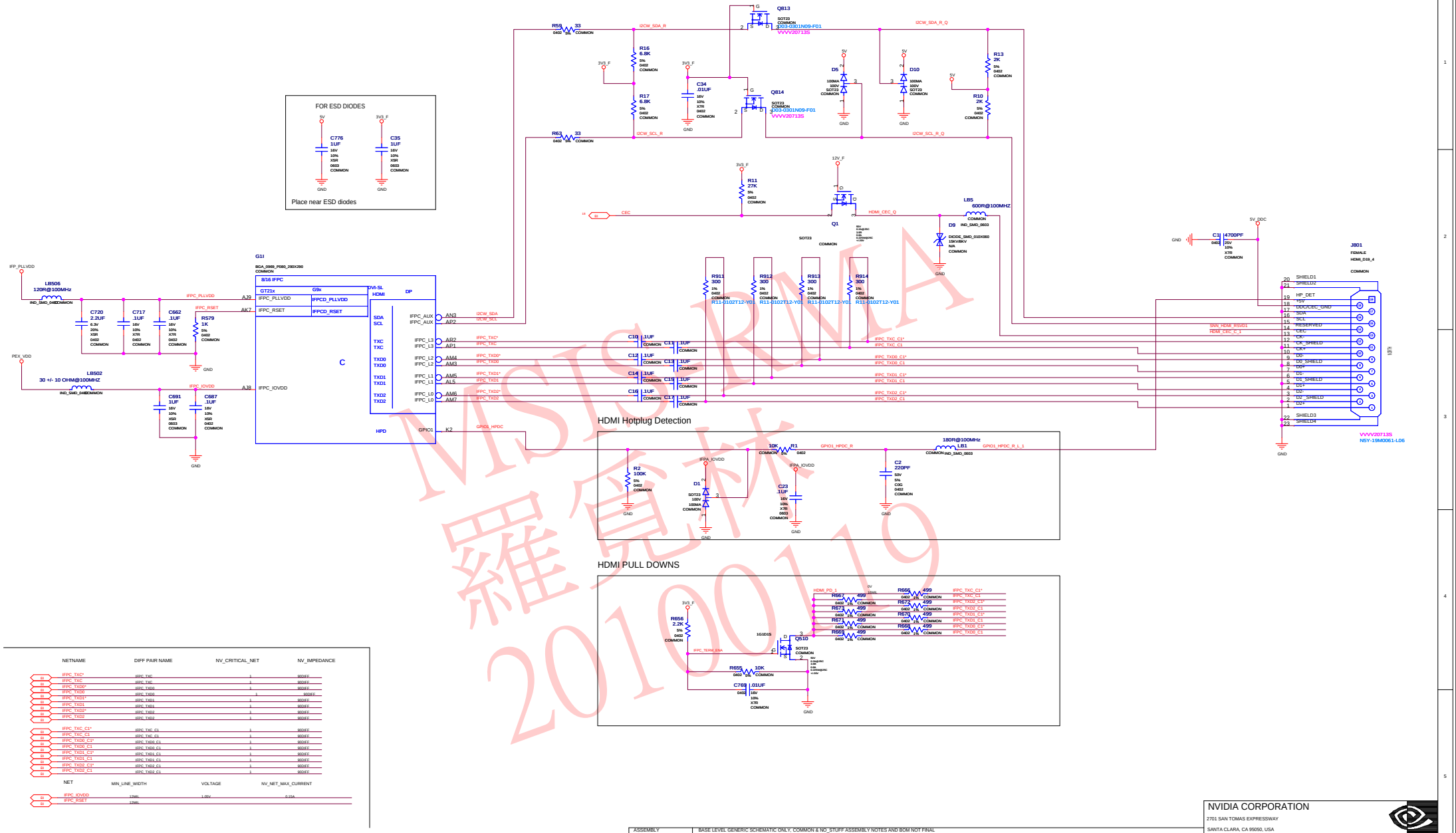
LINK C: HDMI (North)



NETNAME	DIFF PAIR NAME	NV_CRITICAL_NET	NV_IMPEDANCE
IFPC_TXC*	IFPC_TXC	1	90DIFF
IFPC_TXC	IFPC_TXC	1	90DIFF
IFPC_TXD0*	IFPC_TXD0	1	90DIFF
IFPC_TXD0	IFPC_TXD0	1	90DIFF
IFPC_TXD1*	IFPC_TXD1	1	90DIFF
IFPC_TXD1	IFPC_TXD1	1	90DIFF
IFPC_TXD2*	IFPC_TXD2	1	90DIFF
IFPC_TXD2	IFPC_TXD2	1	90DIFF
IFPC_TXC_C1*	IFPC_TXC_C1	1	90DIFF
IFPC_TXC_C1	IFPC_TXC_C1	1	90DIFF
IFPC_TXD0_C1*	IFPC_TXD0_C1	1	90DIFF
IFPC_TXD0_C1	IFPC_TXD0_C1	1	90DIFF
IFPC_TXD1_C1*	IFPC_TXD1_C1	1	90DIFF
IFPC_TXD1_C1	IFPC_TXD1_C1	1	90DIFF
IFPC_TXD2_C1*	IFPC_TXD2_C1	1	90DIFF
IFPC_TXD2_C1	IFPC_TXD2_C1	1	90DIFF

NET	MIN_LINE_WIDTH	VOLTAGE	NV_NET_MAX_CURRENT
IFPC_IOVDD	12Mil	1.05V	0.15A
IFPC_RSET	12Mil		

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

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ID		PAGE	
NAME		DATE	01-JUL-2009

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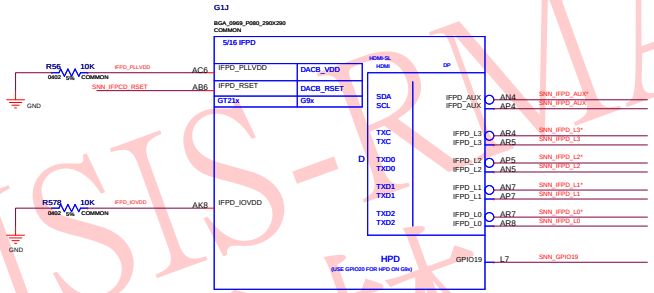
LINK D: UNUSED



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PAGE DETAIL	LINK D (UNUSED)

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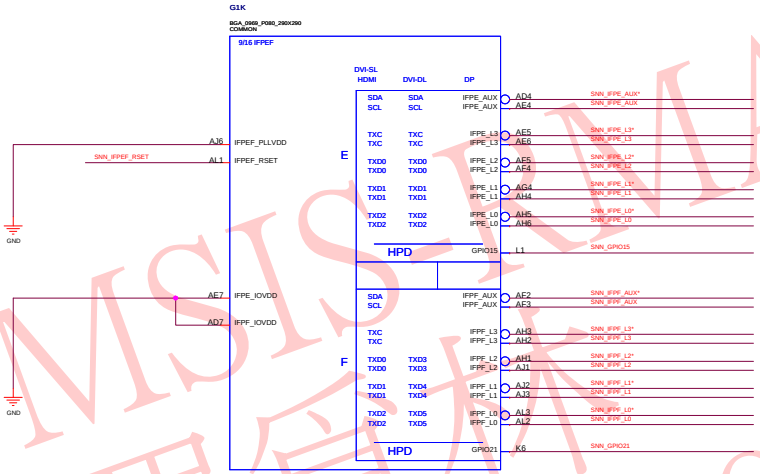
LINK E/F: (UNUSED)



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

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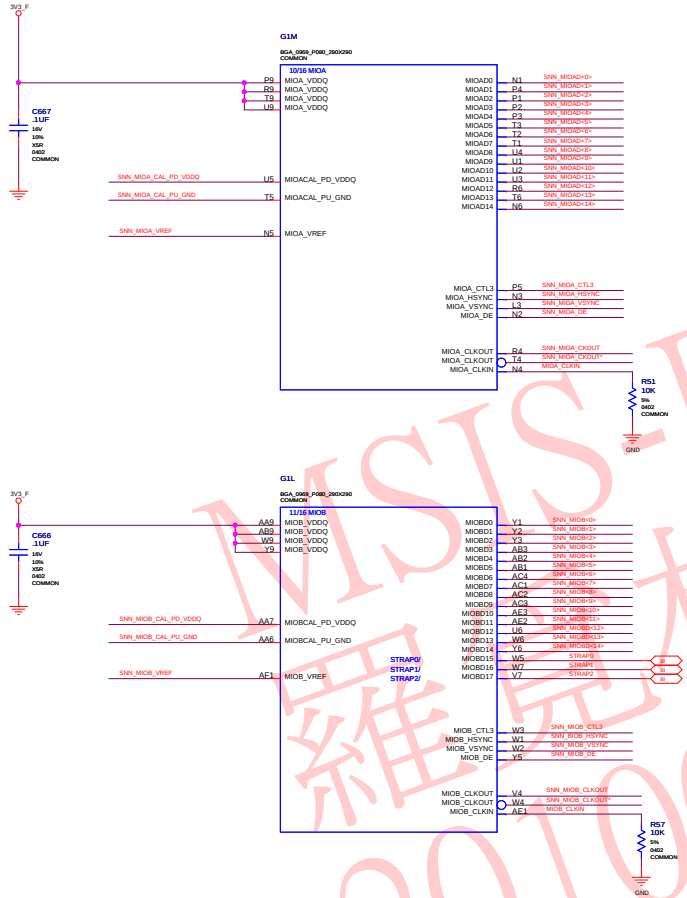
ID		PAGE	
NAME		DATE	01-JUL-2009

MIOA/B UNUSED



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

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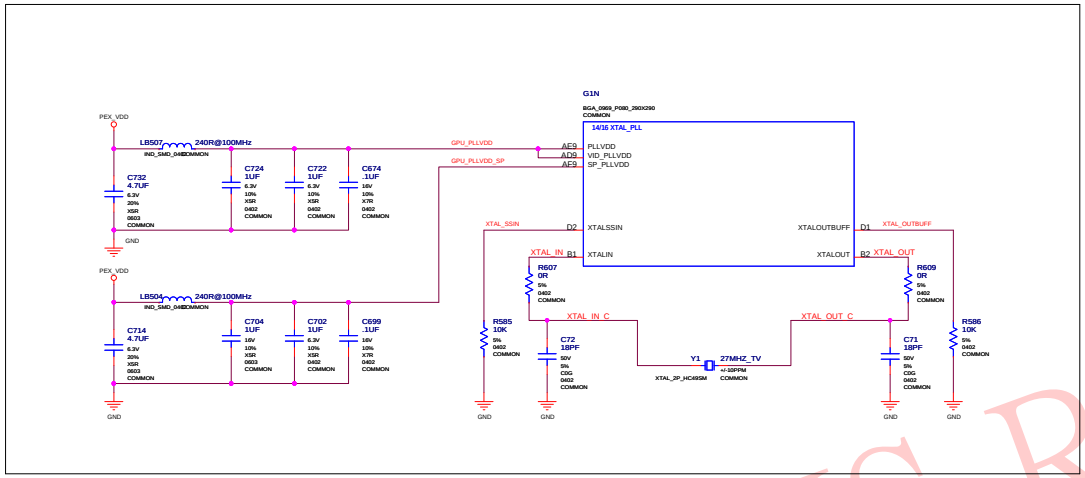
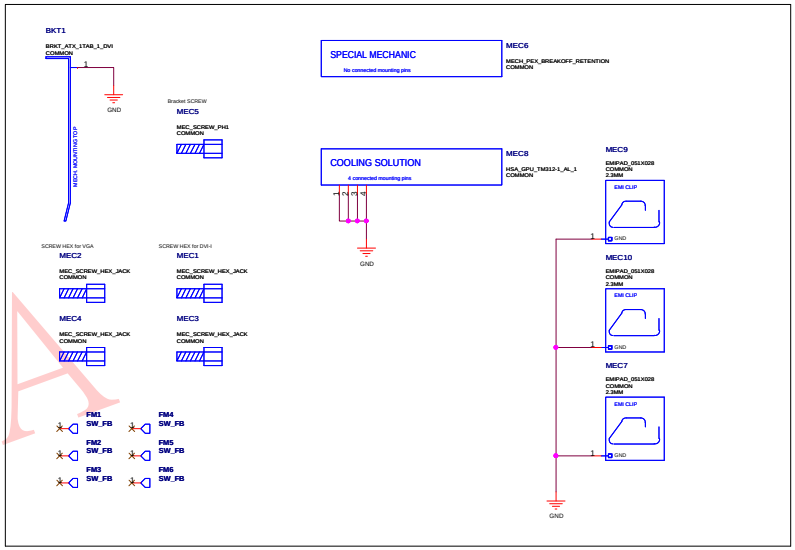
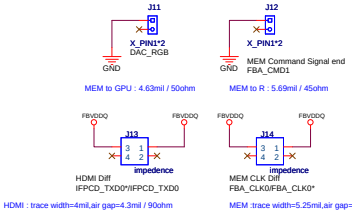
XTAL, MECHANICALS

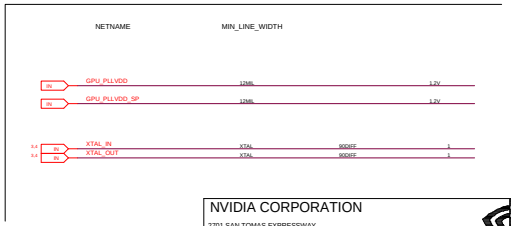
XTAL/GPU_PLLVDD



MECHANICALS & THERMALS







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PAGE DETAIL	XTAL, MECHANICALS, THERMALS

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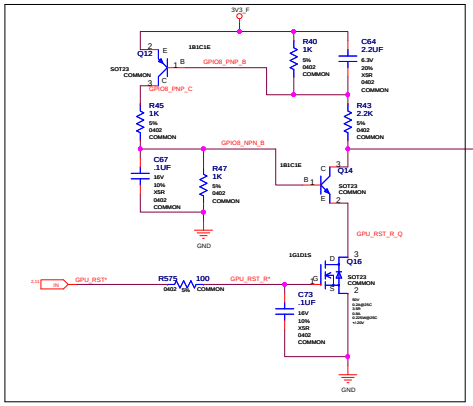
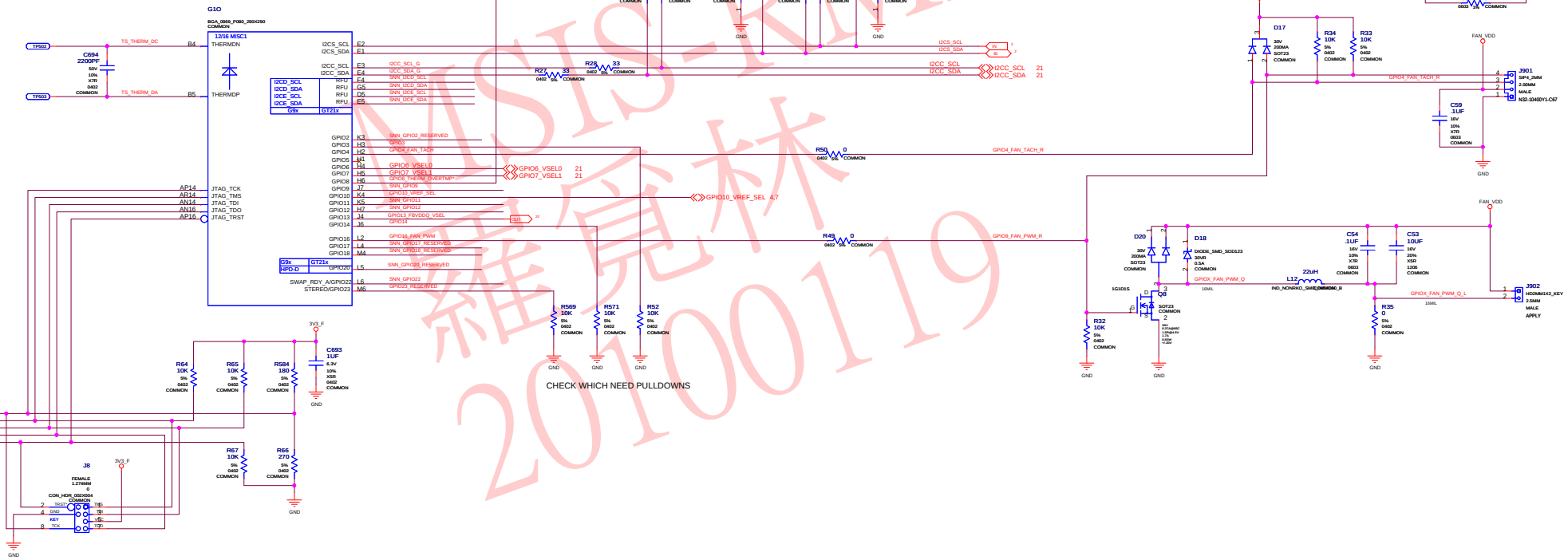
THERM ALERT, FAN CONTROL, GPIO & JTAG

THERM ALERT LATCH





NETNAME	MIN_LINE_WIDTH	CURRENT
THERM_DC	10MIL	
THERM_DA	10MIL	
FAN_PWM	8MIL	
FAN_PWM_R	8MIL	
THERM_DA_R	10MIL	
THERM_DC_R	10MIL	
FAN_VDD	16MIL	1A

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

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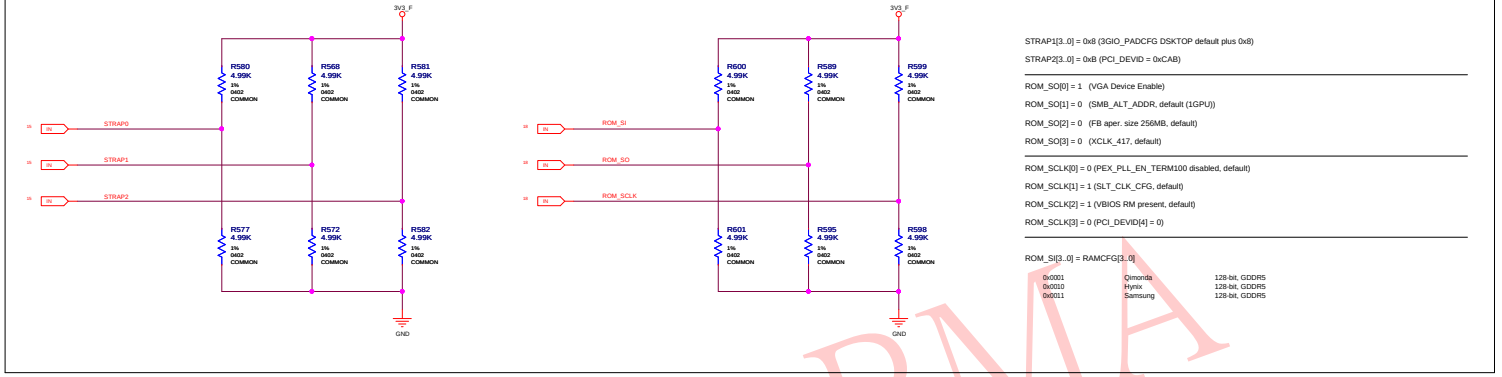
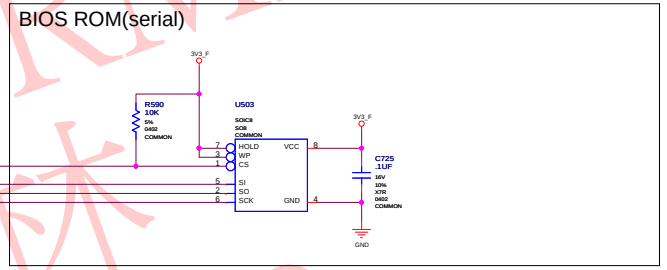
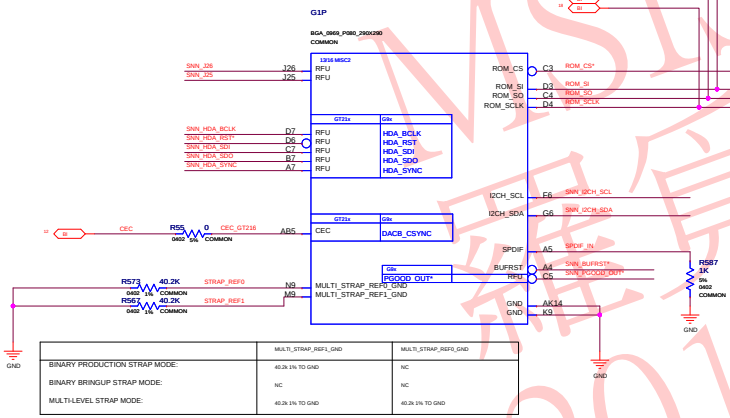
STRAPPING, VBIOS, INFOROM

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

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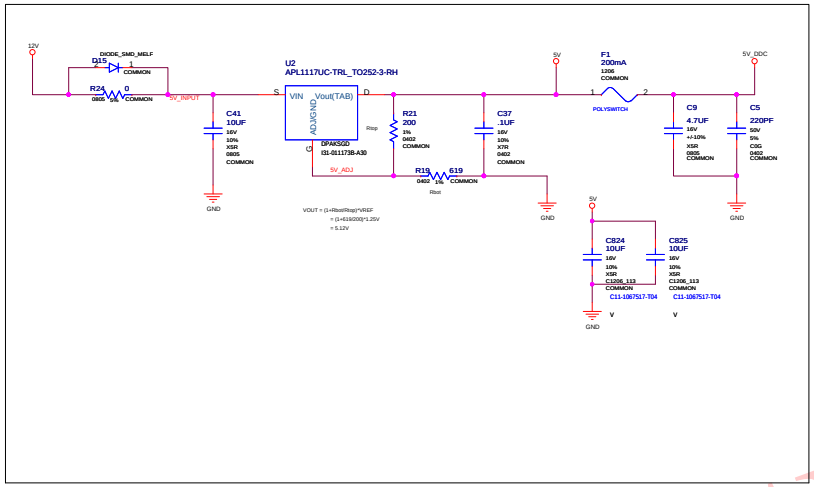
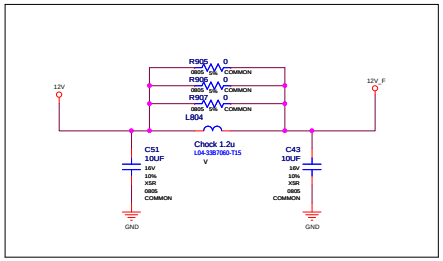
POWER SUPPLY: 5V, 5V_DDC, 1V8, INPUT FILTER

5V REGULATOR

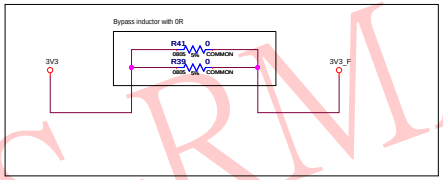


5V DDC

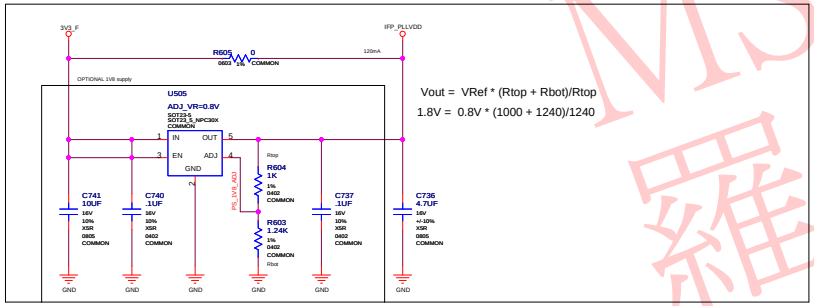
12V filter



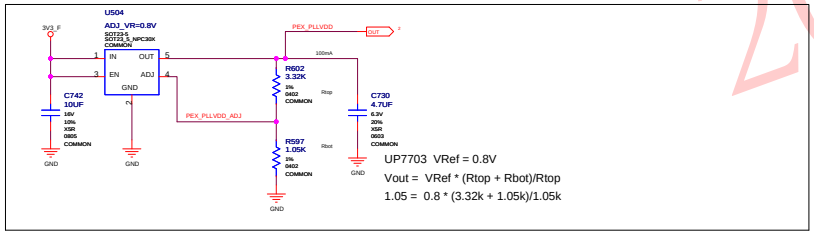
3.3V filter



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

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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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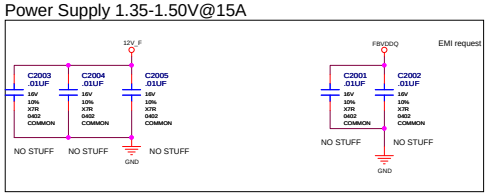
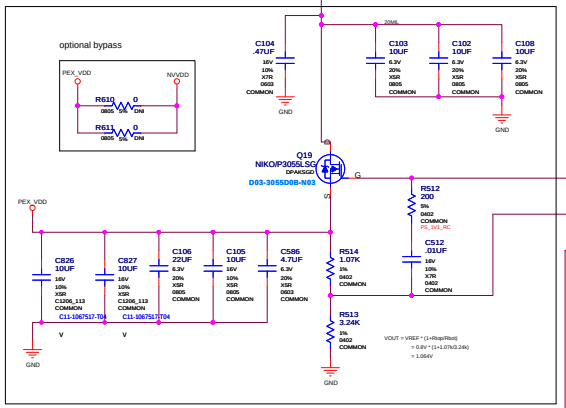
POWER SUPPLY: FBVDDQ, PEX_VDD

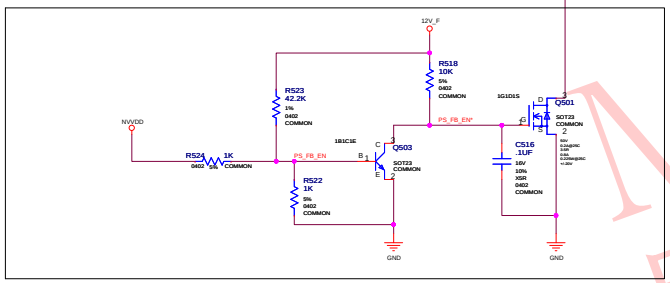
FBVDDQ Power Supply 1.35-1.50V@15A



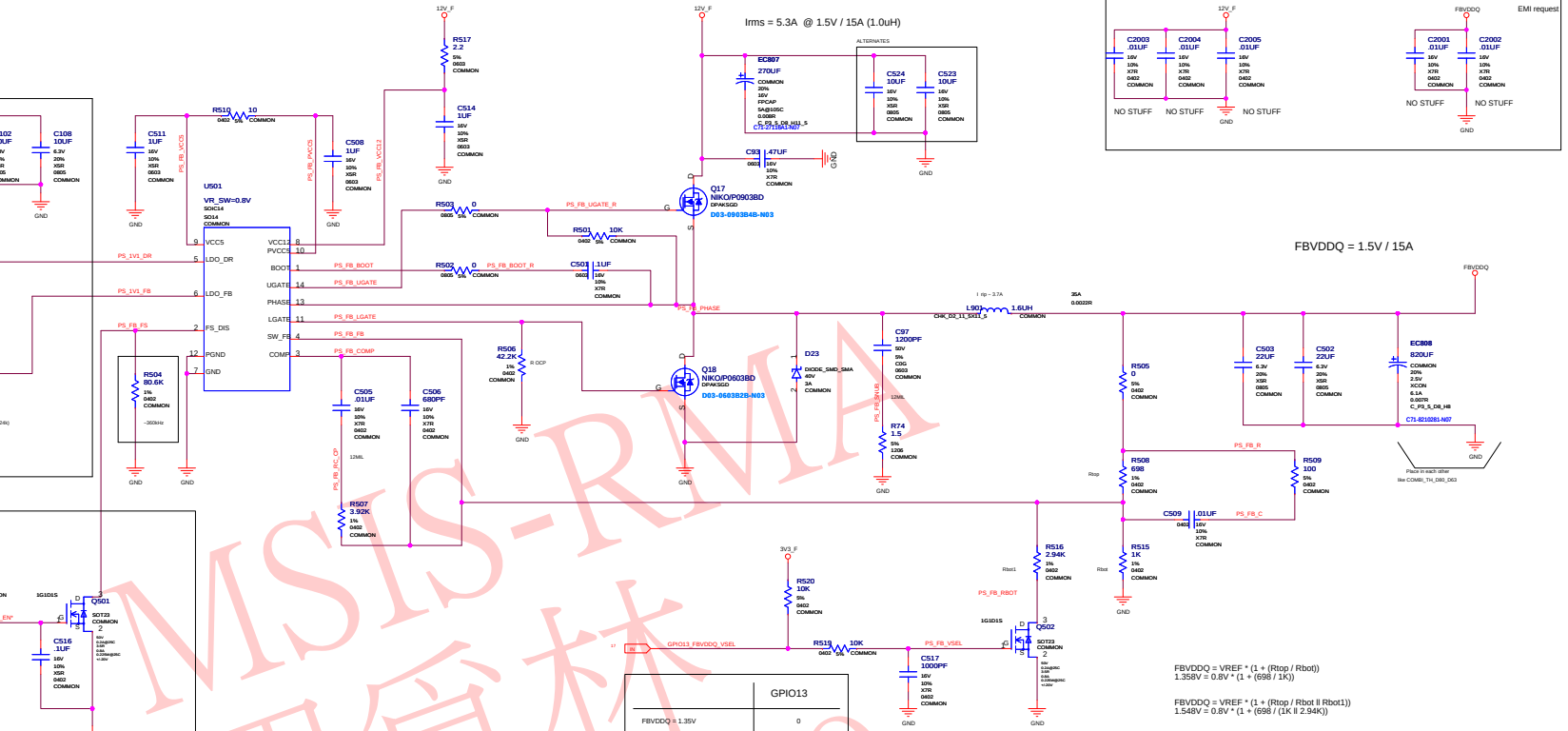
PEXVDD LINEAR



PEXVDD GATING



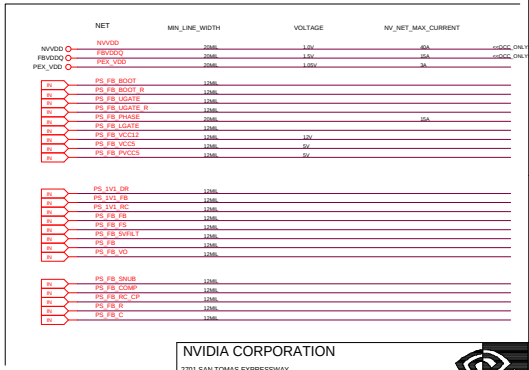
FBVDDQ = 1.5V / 15A



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))



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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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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
FBA_CMD<10> 3.3C 4.1B
FBA_CMD<11> 3.3C 4.1E
FBA_CMD<12> 3.3C 4.1E
FBA_CMD<13> 3.3C 4.1E
FBA_CMD<14> 3.3C 4.1B
FBA_CMD<15> 3.3C 4.1E
FBA_CMD<16> 3.3C 4.1E
FBA_CMD<17> 3.3C 4.1E
FBA_CMD<18> 3.3C 4.1B
FBA_CMD<19> 3.3C 4.1E
FBA_CMD<20> 3.3C 4.2B 4.2G
FBA_CMD<21> 3.3C 4.1E
FBA_CMD<22> 3.3C 4.1B
FBA_CMD<23> 3.3C 4.1B
FBA_CMD<24> 3.3C 4.1B
FBA_CMD<25> 3.3C 4.1B
FBA_CMD<26> 3.4C 4.1B
FBA_CMD<27> 3.4C 4.1E
FBA_CMD<28> 3.4C 4.1E
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
FBA_D<10> 3.1B 4.4B
FBA_D<11> 3.1A 4.5B
FBA_D<12> 3.1B 4.5B
FBA_D<13> 3.1B 4.5B
FBA_D<14> 3.1B 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 4.4C
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
FBA_D<38> 3.2B 4.4D
FBA_D<39> 3.2B 4.4D
FBA_D<40> 3.2B 4.4D
FBA_D<41> 3.2B 4.4D
FBA_D<42> 3.2B 4.5D
FBA_D<43> 3.2B 4.5D
FBA_D<44> 3.3B 10.5A
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
FBA_D<49> 3.3B
FBA_D<50> 3.3B
FBA_D<51> 3.3B
FBA_D<52> 3.3B
FBA_D<53> 3.3B
FBA_D<54> 3.3B
FBA_D<55> 3.3B
FBA_D<56> 3.3B
FBA_D<57> 3.3B
FBA_D<58> 3.3B
FBA_D<59> 3.3B
FBA_D<60> 3.3B
FBA_D<61> 3.3B
FBA_D<62> 3.3B
FBA_D<63> 3.3B
FBA_DBI<0> 3.3B 4.4B
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
FBA_DBI<7> 3.3B 4.5E
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
FBA_EDC<3> 3.4B 4.5C
FBA_EDC<4> 3.4B 4.4D
FBA_EDC<5> 3.4B 4.5D
FBA_EDC<6> 3.4B 4.4E
FBA_EDC<7> 3.4B 4.5E
FBA_VREF 3.1F
FBA_VREFC0 4.1F 4.2B
FBA_VREFC1 4.1F 4.2E
FBA_VREFD0 4.2F 4.4F
FBA_VREFD1 4.2F 4.4F
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
FBC_CMD<9> 6.3C 7.1B
FBC_CMD<10> 6.3C 7.1B
FBC_CMD<11> 6.3C 7.1E
FBC_CMD<12> 6.3C 7.1E
FBC_CMD<13> 6.3C 7.1E
FBC_CMD<14> 6.3C 7.1B
FBC_CMD<15> 6.3C 7.1E
FBC_CMD<16> 6.3C 7.1E
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
FBC_CMD<22> 6.3C 7.1B
FBC_CMD<23> 6.4C 7.1B
FBC_CMD<24> 6.4C 7.1B
FBC_CMD<25> 6.4C 7.1B
FBC_CMD<26> 6.4C 7.1B
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
FBC_D<4> 6.1A 7.4B
FBC_D<5> 6.1A 7.4B
FBC_D<6> 6.1A 7.4B
FBC_D<7> 6.1A 7.4B
FBC_D<8> 6.1A 7.4B
FBC_D<9> 6.1A 7.4B
FBC_D<10> 6.1A 7.4B
FBC_D<11> 6.1A 7.4B
FBC_D<12> 6.1A 7.5B
FBC_D<13> 6.1A 7.5B
FBC_D<14> 6.1A 7.5B
FBC_D<15> 6.2A 7.5B
FBC_D<16> 6.2A 7.4C
FBC_D<17> 6.2A 7.4C
FBC_D<18> 6.2A 7.4C
FBC_D<19> 6.2A 7.4C
FBC_D<20> 6.2A 7.4C
FBC_D<21> 6.2A 7.4C
FBC_D<22> 6.2A 7.4C
FBC_D<23> 6.2A 7.4C
FBC_D<24> 6.2A 7.4C
FBC_D<25> 6.2A 7.4C
FBC_D<26> 6.2A 7.4C
FBC_D<27> 6.2A 7.4C
FBC_D<28> 6.2A 7.5C
FBC_D<29> 6.2A 7.5C
FBC_D<30> 6.2A 7.5C
FBC_D<31> 6.2A 7.5C
FBC_D<32> 6.2A 7.4D
FBC_D<33> 6.2A 7.4D
FBC_D<34> 6.2A 7.4D
FBC_D<35> 6.2A 7.4D
FBC_D<36> 6.2A 7.4D
FBC_D<37> 6.2A 7.4D
FBC_D<38> 6.2A 7.4D
FBC_D<39> 6.2A 7.4D
FBC_D<40> 6.2A 7.4D
FBC_D<41> 6.2A 7.4D
FBC_D<42> 6.2A 7.4D
FBC_D<43> 6.2A 7.4D
FBC_D<44> 6.2A 7.5D
FBC_D<45> 6.3A 7.5D
FBC_D<46> 6.3A 7.5D
FBC_D<47> 6.3A 7.5D
FBC_D<48> 6.3A
FBC_D<49> 6.3A
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FBC_D<51> 6.3A
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FBC_D<59> 6.3A
FBC_D<60> 6.3A
FBC_D<61> 6.3A
FBC_D<62> 6.3A
FBC_D<63> 6.3A
FBC_DBI<0> 6.3A 7.4B
FBC_DBI<7..0> 6.3A 7.1G 7.4A
FBC_DBI<1> 6.3A 7.5B
FBC_DBI<2> 6.3A 7.4C
FBC_DBI<3> 6.3A 7.5C
FBC_DBI<4> 6.3A 7.4D
FBC_DBI<5> 6.3A 7.5D
FBC_DBI<6> 6.3A 7.4E
FBC_DBI<7> 6.3A 7.5E
FBC_DEBUG 6.4C
FBC_DEBUG_SEN0 7.3B
FBC_DEBUG_SEN1 7.3E
FBC_EDC<0> 6.4A 7.4B
FBC_EDC<7..0> 6.4A 7.1G 7.4A
FBC_EDC<1> 6.4A 7.5B
FBC_EDC<2> 6.4A 7.4C
FBC_EDC<3> 6.4A 7.5C
FBC_EDC<4> 6.4A 7.4D
FBC_EDC<5> 6.4A 7.5D
FBC_EDC<6> 6.4A 7.4E
FBC_EDC<7> 6.4A 7.5E
FBC_VREFC0 7.1G 7.2B
FBC_VREFC1 7.1G 7.2E
FBC_VREFD0 7.1G 7.4F
FBC_VREFD1 7.2G 7.4F
FBC_WCK01 6.4A 7.1G 7.5A
FBC_WCK01* 6.4A 7.1G 7.5A
FBC_WCK01_CT 7.2G 7.5B
FBC_WCK23 6.4A 7.1G 7.5C
FBC_WCK23* 6.4A 7.1G 7.5C
FBC_WCK23_CT 7.2G 7.5C
FBC_WCK45 6.4A 7.1G 7.5D
FBC_WCK45* 6.4A 7.1G 7.5D
FBC_WCK45_CT 7.2G 7.5D
FBC_WCK67 6.4A 7.1G 7.5E
FBC_WCK67* 6.5A 7.1G 7.5E
FBC_WCK67_CT 7.2G 7.5F
FBC_ZQ0 7.2B
FBC_ZQ1 7.3E
FBVDDQ 20.4A
FB_CAL_PD 6.1G
FB_CAL_PD_VDDQ 6.5C
FB_CAL_PU 6.1G
FB_CAL_PU_GND 6.5C
FB_CAL_TERM 6.1G
FB_CAL_TERM_GND 6.5C
FB_PLLAVDD 3.1F 3.5C
GPIO0_HPD_DVI_1 11.3D
GPIO0_HPD_DVI_1_R 11.3E
GPIO0_HPD_DVI_1_RL 11.2G
GPIO1_HPDC 12.3C
GPIO1_HPDC_R 12.3E
GPIO1_HPDC_R_L_1 12.3F
GPIO9 17.3C
GPIO4_FAN_TACH 17.3C
GPIO4_FAN_TACH_R 17.3F 17.3H
GPIO5_VSEL0 17.3D 21.1A
GPIO5_VSEL_R 21.1A
GPIO6_VSEL1 17.3D 21.4A
GPIO6_VSEL1_R 21.4A
GPIO7_VSEL2 17.3D 21.3A
GPIO9_NPN_B 17.2B
GPIO9_PNP_B 17.1B
GPIO9_PNP_C 17.1B
GPIO9_THERM_ALERT* 17.2E 21.3A
GPIO9_THERM_OVERTM 17.3C
I²*
GPIO9_FAN_PWM_R 17.3H 17.4F
GPIO10_VREF_SEL 17.3C
GPIO13_FBVDDQ_VSEL 17.4D 20.4E
GPIO14 17.4C
GPIO16_FAN_PWM 17.4C
GPIO23_RESERVED 17.4C
GPIOX_FAN_PWM_Q 17.4G
GPIOX_FAN_PWM_Q_L 17.4H
GPU_PLLVDD 16.1B 16.5G
GPU_PLLVDD_SP 16.1B 16.5G
GPU_RST* 2.2D 11.5D 17.2A
GPU_RST_R* 17.2B
GPU_RST_R_Q 17.2B
GPU_TESTMODE 2.5E
HDMI_CEC_C_1 12.3G
HDMI_CEC_Q 12.2E
HDMI_PD_1 12.4E
I2CA_SCL 9.2D 9.3C
I2CA_SCL_C 9.2H 11.2G
I2CA_SCL_T 9.2F
I2CA_SDA 9.2D 9.3C
I2CA_SDA_C 9.2H 11.2G
I2CA_SDA_T 9.2F
I2CB_SCL 10.3C
I2CB_SCL_R 10.2E
I2CB_SCL_R_L 10.2H
I2CB_SDA 10.3C
I2CB_SDA_R 10.2E
I2CB_SDA_R_L 10.2H
I2CC_SCL 17.3F 18.4D
I2CC_SCL_G 17.3C
I2CC_SCL_ROM 18.4E
I2CC_SDA 17.3F 18.4D
I2CC_SDA_G 17.3C
I2CC_SDA_ROM 18.4E
I2CS_SCL 2.1C 17.3F
I2CS_SDA 2.2C 17.3F
I2CW_SCL 12.2C
I2CW_SCL_R 12.1D 12.1G
I2CW_SCL_R_Q 12.1F 12.1H
I2CW_SDA 12.2C
I2CW_SDA_R 12.1D 12.1G
I2CW_SDA_R_Q 12.1F 12.1H
IFPAB_IOVDD 11.2B 11.5A
IFPAB_PLLVDD 11.2B 11.5A
IFPAB_RSET 11.2B 11.5A
IFPA_IOVDD 19.1G
IFPA_IOVDD_EN* 11.4E
IFPA_IOVDD_EN_RC 11.4E
IFPA_TXC 11.2D 11.5A
IFPA_TXC* 11.2D 11.4A
IFPA_TXD0 11.1D 11.5A
IFPA_TXD0* 11.1D 11.5A
IFPA_TXD1 11.1D 11.5A
IFPA_TXD1* 11.1D 11.5A
IFPA_TXD2 11.2D 11.5A
IFPA_TXD2* 11.2D 11.5A
IFPA_TXD4 11.2D 11.5A
IFPA_TXD4* 11.2D 11.5A
IFPB_TXD5 11.2D 11.5A
IFPB_TXD5* 11.2D 11.5A
IFPB_TXD6 11.2D 11.5A
IFPB_TXD6* 11.2D 11.5A
IFPC_IOVDD 12.3B 12.5A
IFPC_PLLVDD 12.2B
IFPC_RSET 12.2B 12.5A
IFPC_TERM_ENA 12.4D
IFPC_TXC 12.3C 12.4A
IFPC_TXC* 12.3C 12.4A
IFPC_TXC_C1 12.3E 12.4F 12.5A
IFPC_TXC_C1* 12.3E 12.4F 12.5A
IFPC_TXD0 12.3C 12.5A
IFPC_TXD0* 12.3C 12.5A
IFPC_TXD0_C1 12.3E 12.4F 12.5A
IFPC_TXD0_C1* 12.3E 12.4F 12.5A
IFPC_TXD1 12.3C 12.5A
IFPC_TXD1* 12.3C 12.5A
IFPC_TXD1_C1 12.3E 12.4F 12.5A
IFPC_TXD1_C1* 12.3E 12.4F 12.5A
IFPC_TXD2 12.3C 12.5A
IFPC_TXD2* 12.3C 12.5A
IFPC_TXD2_C1 12.3E 12.4F 12.5A
IFPC_TXD2_C1* 12.3E 12.4F 12.5A
IFPD_IOVDD 13.3D
IFPD_PLLVDD 13.2D
IFPEF_IOVDD 14.3C
IFPEF_PLLVDD 14.2C
JTAG_TCLK 2.1C 17.4A
JTAG_TDI 2.1C 17.4A
JTAG_TDO 2.1C 17.5A
JTAG_TMS 2.1C 17.4A
JTAG_TRST* 2.1C 17.5A
MIOA_CLKIN 15.2D
MIOA_VDDQ 15.1B
MIOB_CLKIN 15.4D
NVVDD 20.4A
NVVDD_BOOT1 21.3D 21.5A
NVVDD_BOOT1_C 21.3D 21.5A
NVVDD_BOOT2 21.3D 21.5A
NVVDD_BOOT2_C 21.3D 21.5A
NVVDD_CMP 21.4C 21.5B
NVVDD_CSN 21.4D
NVVDD_CSP 21.4D
NVVDD_EAP 21.4C 21.5B
NVVDD_ENA 21.3C
NVVDD_ENA1 21.2A
NVVDD_ENA2 21.2B
NVVDD_ENA3 21.2A
NVVDD_FB 21.5B 21.5C
NVVDD_FBRTN 21.4C 21.5B
NVVDD_FB_R 21.5B 21.5D
NVVDD_GND_SENSE 2.4F 21.4A
NVVDD_IOFS 21.3C
NVVDD_LG1 21.3D 21.5A
NVVDD_LG2 21.3D 21.5A
NVVDD_PH1 21.3D 21.5A
NVVDD_PH2 21.3D 21.5A
NVVDD_PSI 21.3C
NVVDD_PSI_R 21.1B
NVVDD_RB1 21.4B
NVVDD_RC1 21.4C 21.5B
NVVDD_RC2 21.5B 21.5C
NVVDD_REFIN 21.3C 21.5B
NVVDD_RSET 21.3C
NVVDD_SENSE 2.4F 21.4A
NVVDD_SNUB1 21.3G 21.5B
NVVDD_SNUB2 21.5B 21.5G
NVVDD_SS 21.4C 21.5B
NVVDD_UG1 21.3D 21.5A
NVVDD_UG1_R 21.3E 21.5A
NVVDD_UG2 21.3D 21.5A
NVVDD_UG2_R 21.4E 21.5A
NVVDD_VCC9 21.3C 21.5A
NVVDD_VCC12 21.2C 21.5A
NVVDD_VID 21.3C
NVVDD_VREF 21.4C 21.5B
PEX_CLKREQ* 2.1D
PEX_PLLVDD 2.4E 2.5G 19.5B
PEX_PLLVDD_ADJ 19.5A
PEX_PLL_CLK_OUT 2.1G 2.2C
PEX_PLL_CLK_OUT* 2.1G 2.2C
PEX_PRSNT1* 2.1A
PEX_REFCLK 2.1G 2.2B
PEX_REFCLK* 2.1G 2.2B
PEX_RX0 2.2B 2.4G
PEX_RX0* 2.2B 2.4G
PEX_RX1 2.2B 2.4G
PEX_RX1* 2.2B 2.4G
PEX_RX2 2.2B 2.4G
PEX_RX2* 2.3B 2.4G
PEX_RX3 2.3B 2.4G
PEX_RX3* 2.3B 2.4G
PEX_RX4 2.3B 2.4G
PEX_RX4* 2.3B 2.4G
PEX_RX5 2.3B 2.4G
PEX_RX5* 2.3B 2.4G
PEX_RX6 2.3B 2.4G
PEX_RX6* 2.3B 2.4G
PEX_RX7 2.4B 2.4G
PEX_RX7* 2.4B 2.4G
PEX_RX8 2.4B 2.4G
PEX_RX8* 2.4B 2.4G
PEX_RX9 2.4B 2.4G
PEX_RX9* 2.4B 2.4G
PEX_RX10 2.4B 2.4G
PEX_RX10* 2.4B 2.4G
PEX_RX11 2.4B 2.4G
PEX_RX11* 2.4B 2.4G
PEX_RX12 2.4B 2.5G
PEX_RX12* 2.5B 2.5G
PEX_RX13 2.5B 2.5G
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Design: design
Date: Jun 9
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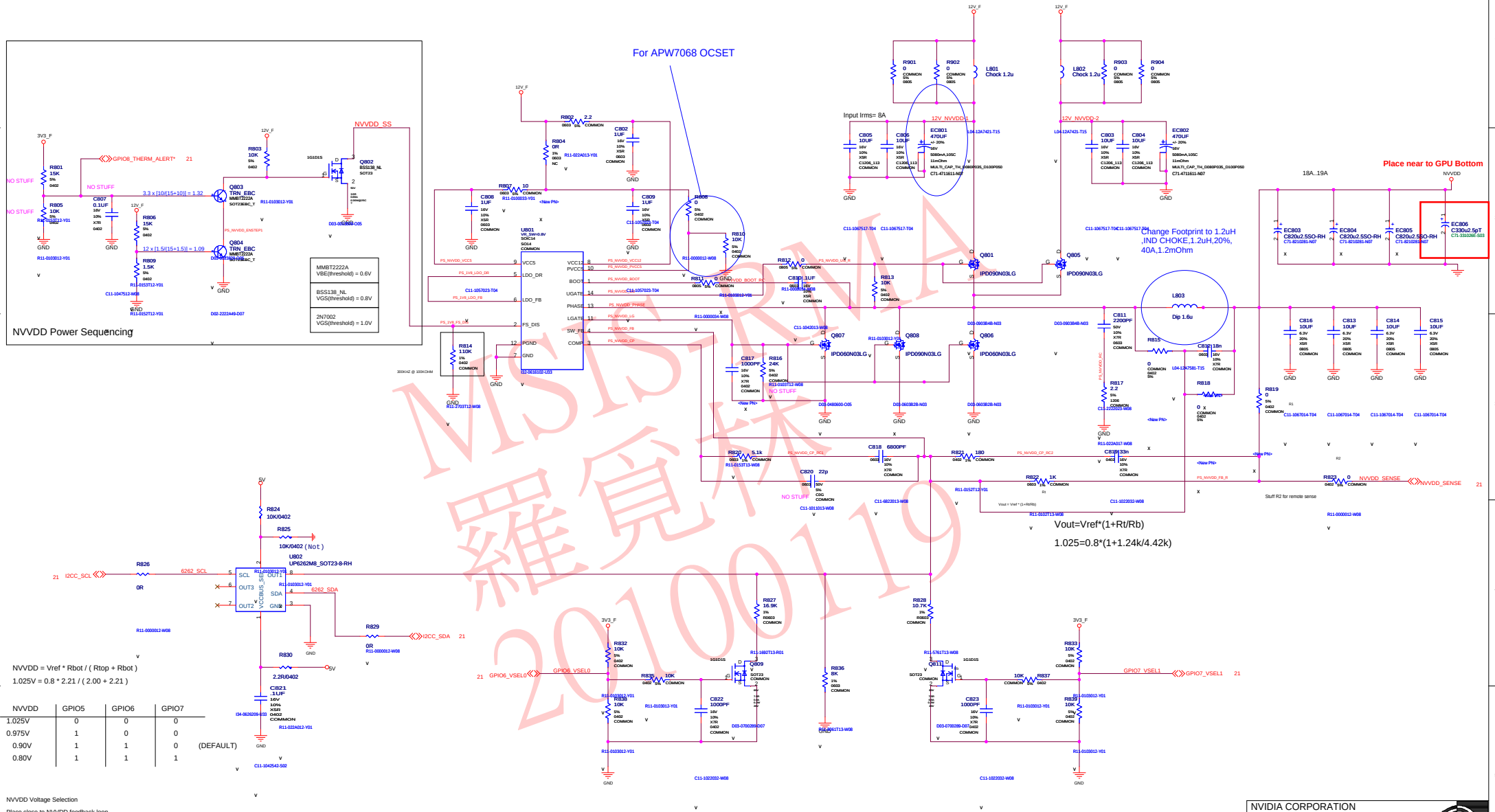
Power Supply III: NVVDD



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

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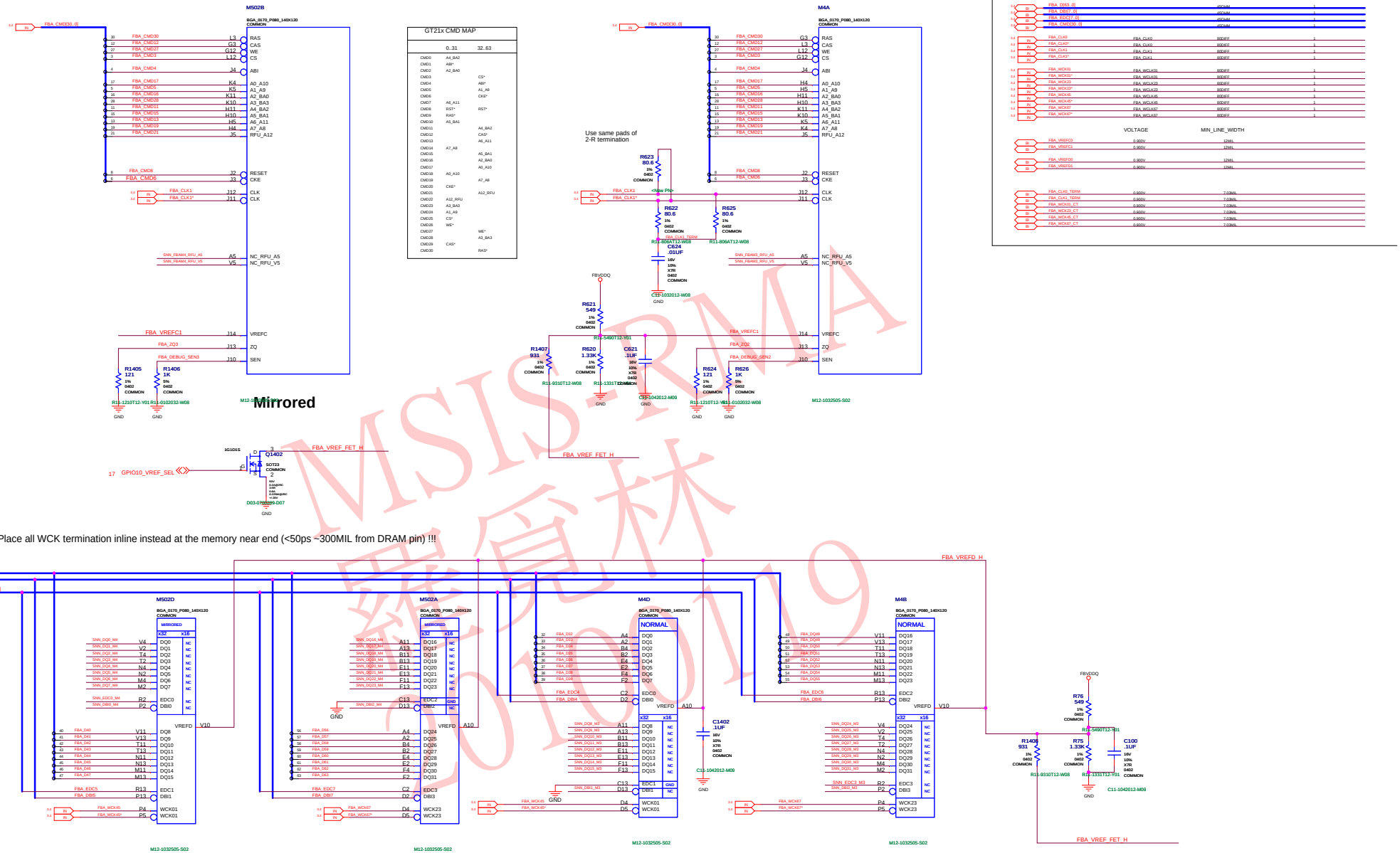
MEMORY Partition A -Upper Half



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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

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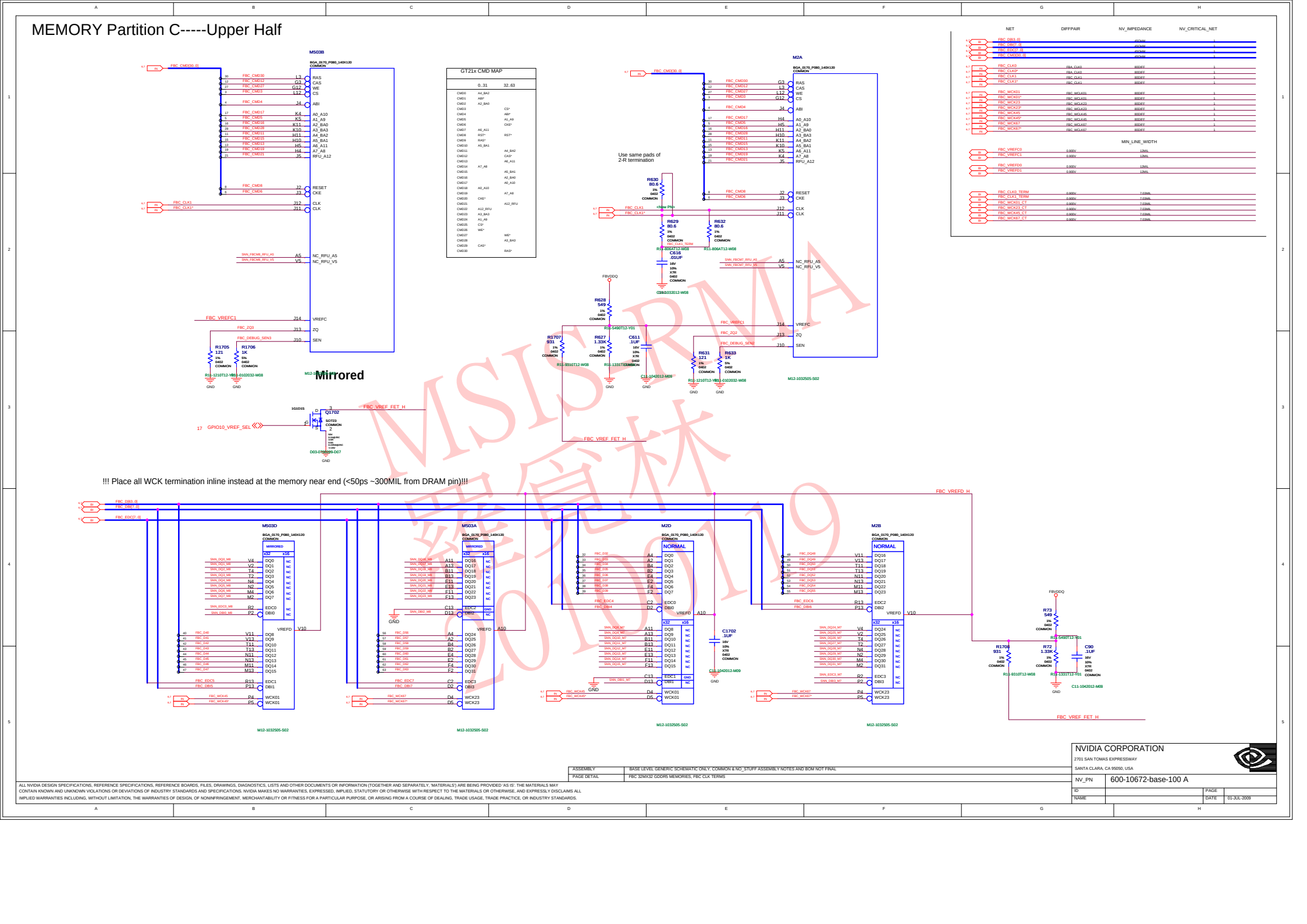
MEMORY Partition C-----Upper Half



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