P681-A01 GT215/216 DESKTOP GB1-128 DDR3
PCI-EXPRESSx16 DL-DVI VGA HDMI

Ver. 0A

05/07

Page 01 1.Remove C690,C70 47uF
Page 10 1.Remove J1 D-Sub
Page 11 1.Remove R16,Q2
Page 12 1.Remove R1,Q1
Page 16 1.Change Crystal Footprint to 2-PIN SMD
2.Remove C71 47uF

05/08

Page 17 1.Remove Thermal Sensor Circuit
Page 18 1.Remove U2,C54,R31,R30,D16 INFOROM circuit
Page 19 1.Remove 3V3 to 1.8V circuit
2.Change 5V REGULATOR Circuit
Page 20 1.Change L8 Footprint to 1.6uH
2.Change Footprint to multi cap for EL 1500uF
Page 21 1.Change NVVDD to UP6161
2.Change L12 footprint to 1.2uH

05/10

Page 05 1. Remove Decoupling for EMI cap
Page 20 1. C84 change Footprint to multi cap

05/11

Page 21 1.Add C39 270uF
2.Add R922,R924 for APW7068 OCSET
Page 16 1.Add XTALIN R566 Risister
Add XTALOUT R573 Risister
Page 02 1.Change C51 to 0805 1UF and ADD C54 0805 1UF
Page 03 1.C642,C666,C633 change to .01UF
Page 05 1.Remove C516,C525,C549,C556,C541,C512
Remove C513,C546,C540,C528,C547,C507
Remove C544,C545,C520,C523,C532,C508
Remove C535,C526,C543,C553,C537,C88
Page 08 1.Remove C566,C567,C576,C578,C82,C564
Remove C619,C592,C586,C585,C622,C574
Remove C705,C706,C680,C729,C691,C683
Remove C742,C738,C731,C725,C743,C728
Page 20 1.Remove C86,C562,C563,C87

05/12

Page 17 1.Remove 4-PIN FAN Circuit
Page 12 1.Change Q509 to Q513,Q514 SOT23 footprint
Page 16 1.Change FAN Screw hole
Page 20 1.Add C102 820uF

05/14

Page 21 1.Remove D94 scottky diode

05/19

Page 11 1.Add EMI bridge
Page 12 2.Add EMI bridge

05/21

Page 03 1.Add RP24 termination risister
Page 06 2.Add RP23 termination risister

05/26

SWAP CMD
Page 03/06 RP5.1，RP5.2 FBC_CMD10，RP5.3，RP5.4 FBC_CMD22
RP4.1，RP4.2 FBC_CMD18，RP4.3，RP4.4 FBC_CMD7
RP24.1, RP24.2 FBA_CMD30, RP24.3, RP24.4 FBA_CMD7
RP20.1, RP20.2 FBA_CMD14, RP20.3, RP20.4 FBA_CMD18
RP14.1, RP14.2 FBA_CMD1, RP14.3, RP14.4 FBA_CMD20
RP12.3, RP12.4 FBA_CMD29

05/27

Page 05 1. Add Decoupling for EMI cap C80,C524,C517,C102

Ver. 10

07/31

Page 02 1.Remove JTAG Circuit
Page 09 1.Remove EMI filter,protection diode,C780,C775,C779
Page 10 1.Remove EMI filter,protection diode,C771,C772,C773
Page 12 1.IFP_PLLVDD change netname to 3V3
Page 15 1.Remove R545,C664,R554 of MIOA
Page 17 1.Remove JTAG Circuit
2.Remove FAN PWM Circuit
Page 18 1.Remove HDCP EEROM
Page 19 1.Remove U4 UP7703 Circuit
2.Change 5V Circuit SOT223-->SOT252
Page 20 1.Remove C86,C105,C90
2.Add R917 LMOS Gate risister
3.Add L10
4.Add L9,LB23,LB24
5.Add EL 680UF FootPrint
Page 21 1.Add L13
2.Remove APW7068 OCSET
3.Add GPIO 5,6 Circuit
4.Remove C927,C931

08/04

Page 21 1.Remove C933,C30,C31,C38
2.Change C39 FootPrint for 470uF
3.NVVDD Power Sequencing and PWM power change to 12V from 12V_F

Page 20 1.Add C86,C87,R26
2.Remove C557
3.Power Sequencing and PWM power change to 12V from 12V_F

SKU	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10681-base-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-10681-0001-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/VGA/HDMI
2	SKU0002	600-10681-0002-100.	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 1000MHz DDR3 DVI-I/VGA+HDMI
3	SKU0011	600-10681-0011-100	GT215-300 600/1500MHz 1024MB 64Mx16 BGA100 900MHz DDR3 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	P681-A01 OVERVIEW

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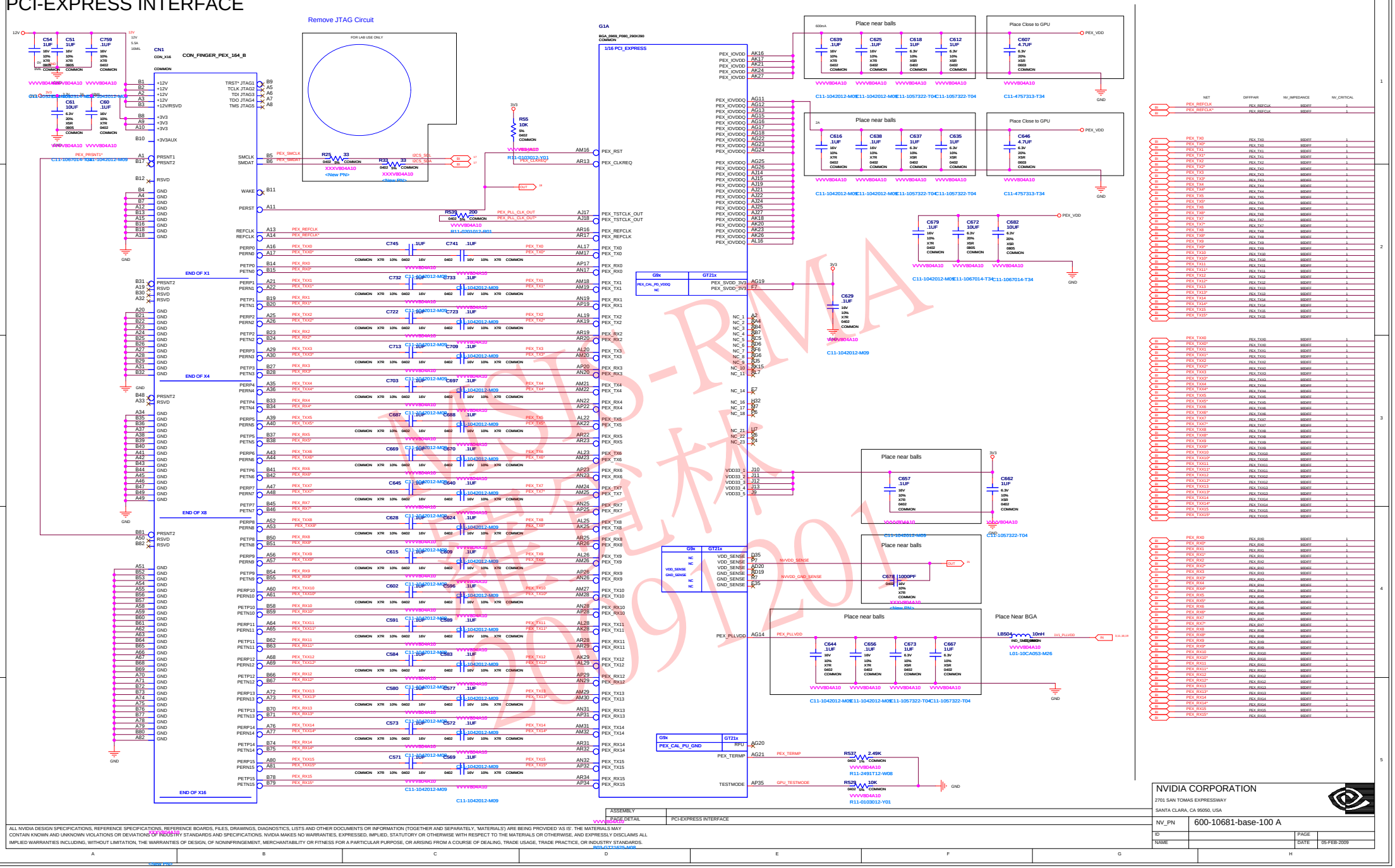
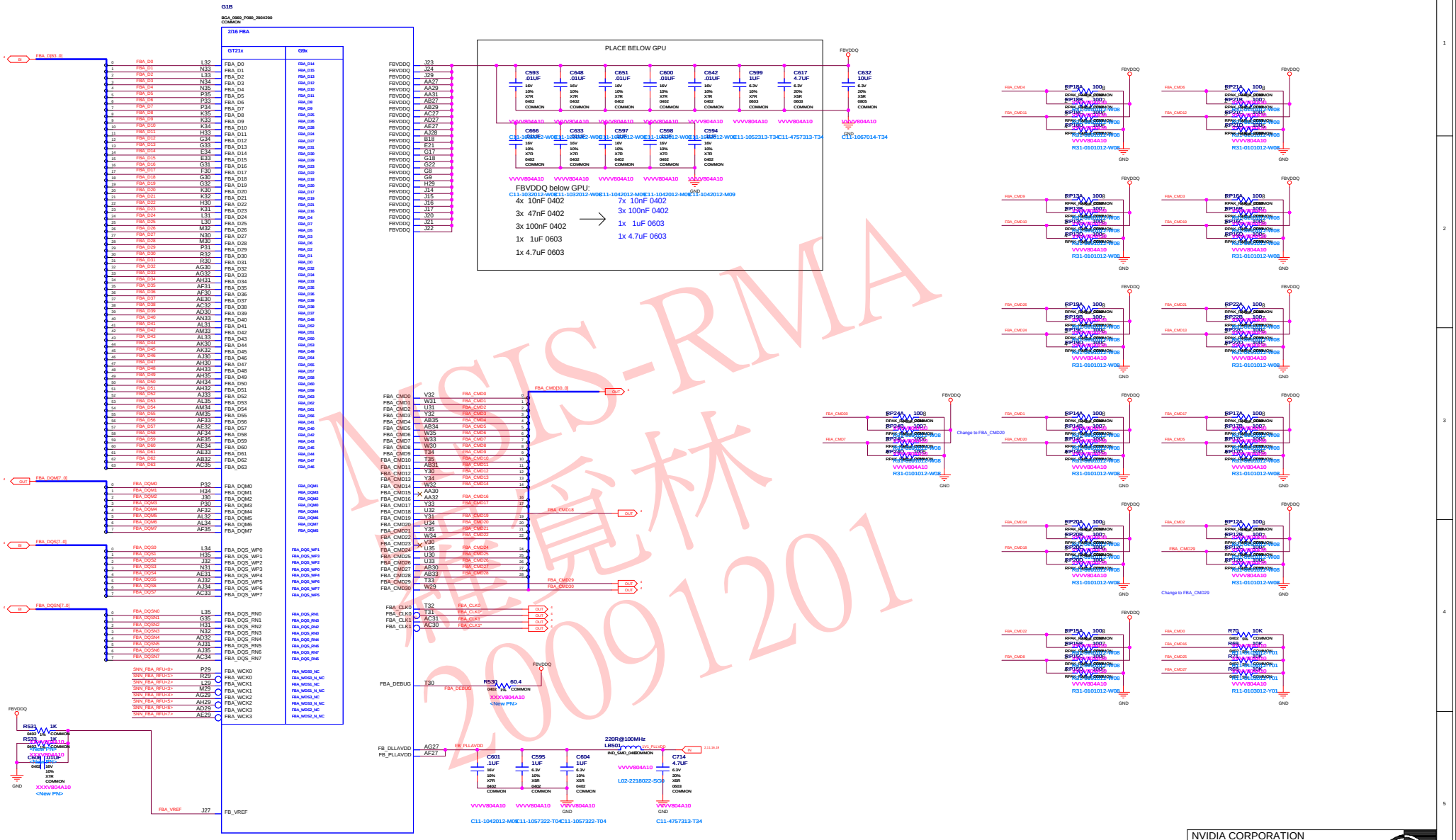
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

PCI-EXPRESS INTERFACE



PARTITION A FRAME BUFFER INTERFACE



ASSEMBLY	
PAGE DETAIL	PARTITION A FRAME BUFFER INTERFACE

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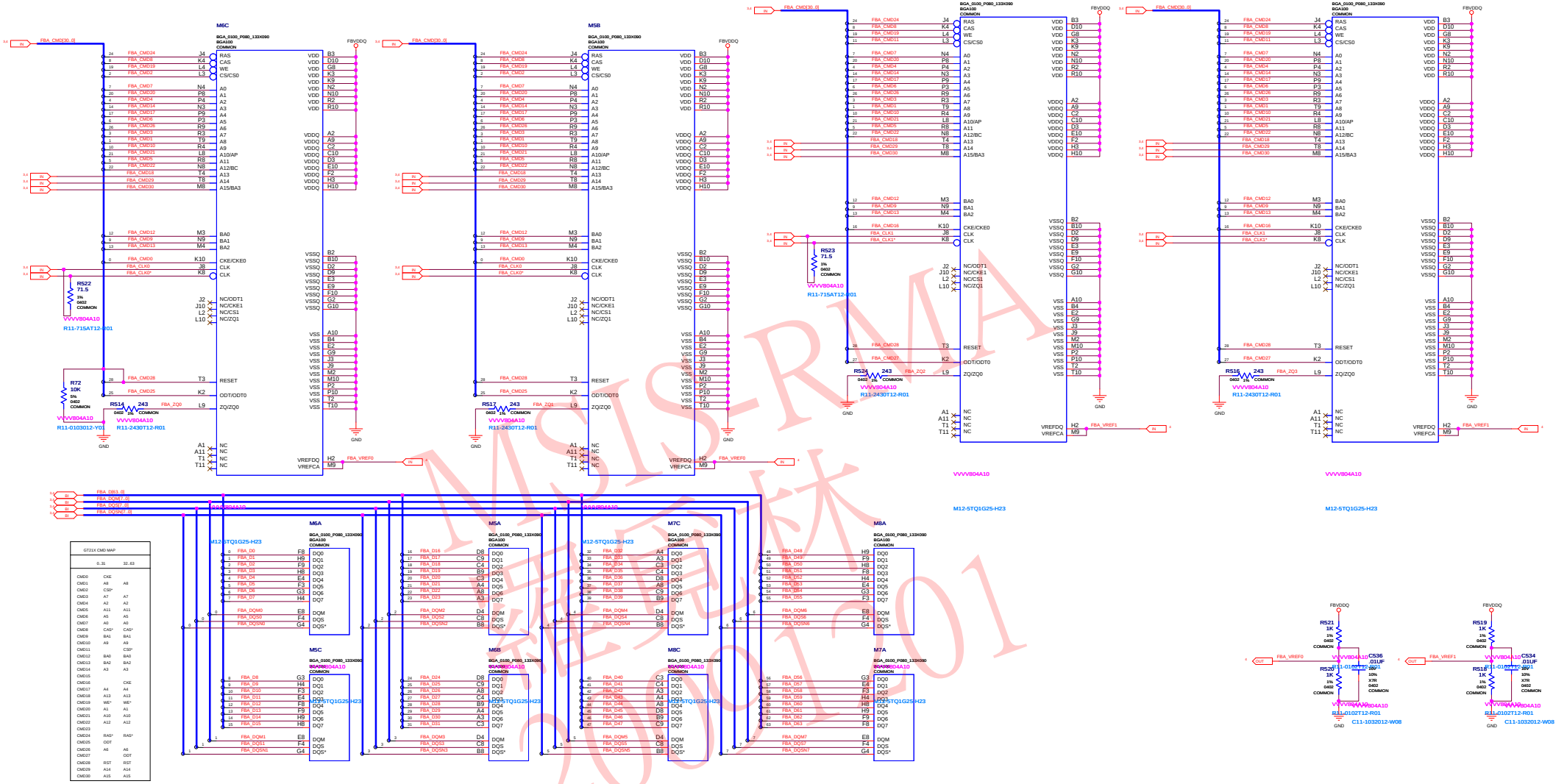
PARTITION A MOMERIES



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PARTITION A MEMORIES

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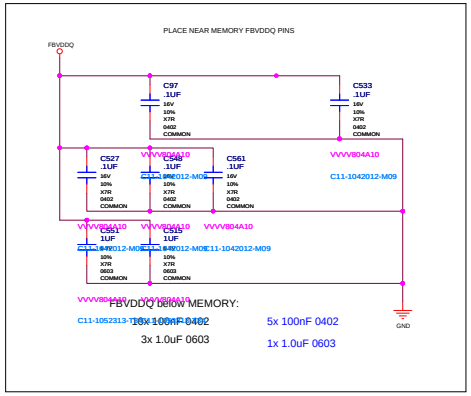
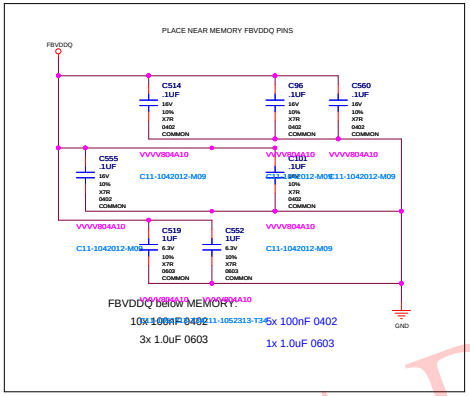
FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

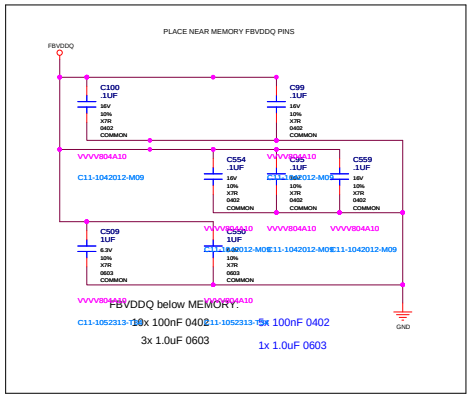
Decoupling for FBA 0..15



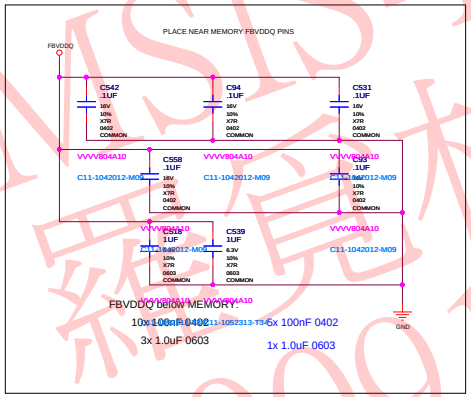
Decoupling for FBA 16..31

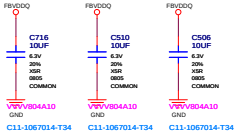


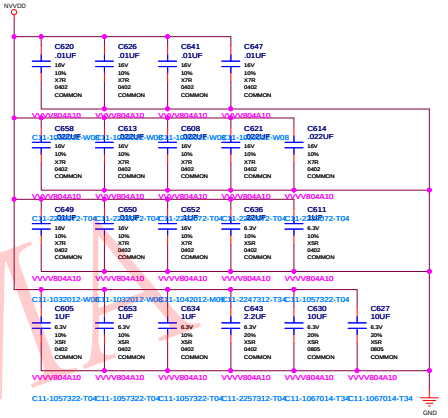
Decoupling for FBA 32..47



Decoupling for FBA 48..63



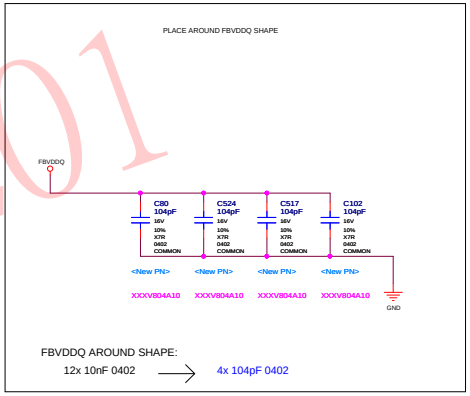


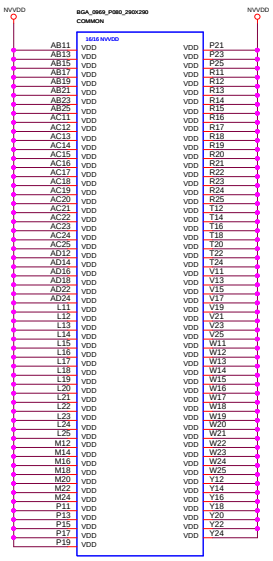


NVVDD under GPU:

4x 0.01uF 0402 X7R	6x 0.01uF 0402 X7R
5x 0.022uF 0402 X7R	
2x 0.047uF 0402 X7R	0x 0.047uF 0402 X7R
1x 0.1uF 0402 X7R	
1x 0.22uF 0402 X7R	
4x 1.0uF 0402 X5R	
1x 2.2uF 0402 X5R	
2x 10uF 0805 X5R	

Decoupling for EMI

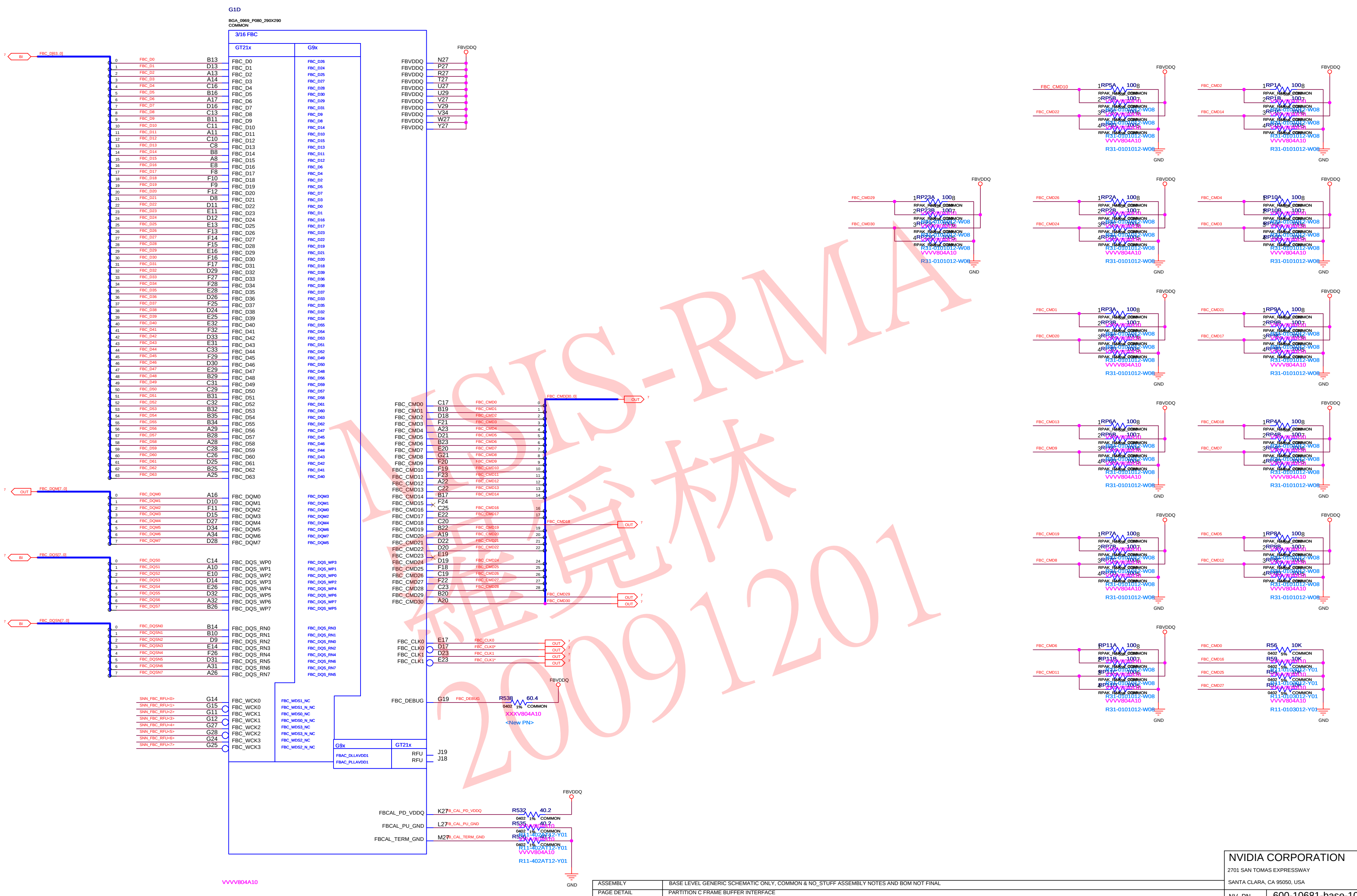




ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

PARTITION C FRAME BUFFER INTERFACE



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY; COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PARTITION C FRAME BUFFER INTERFACE

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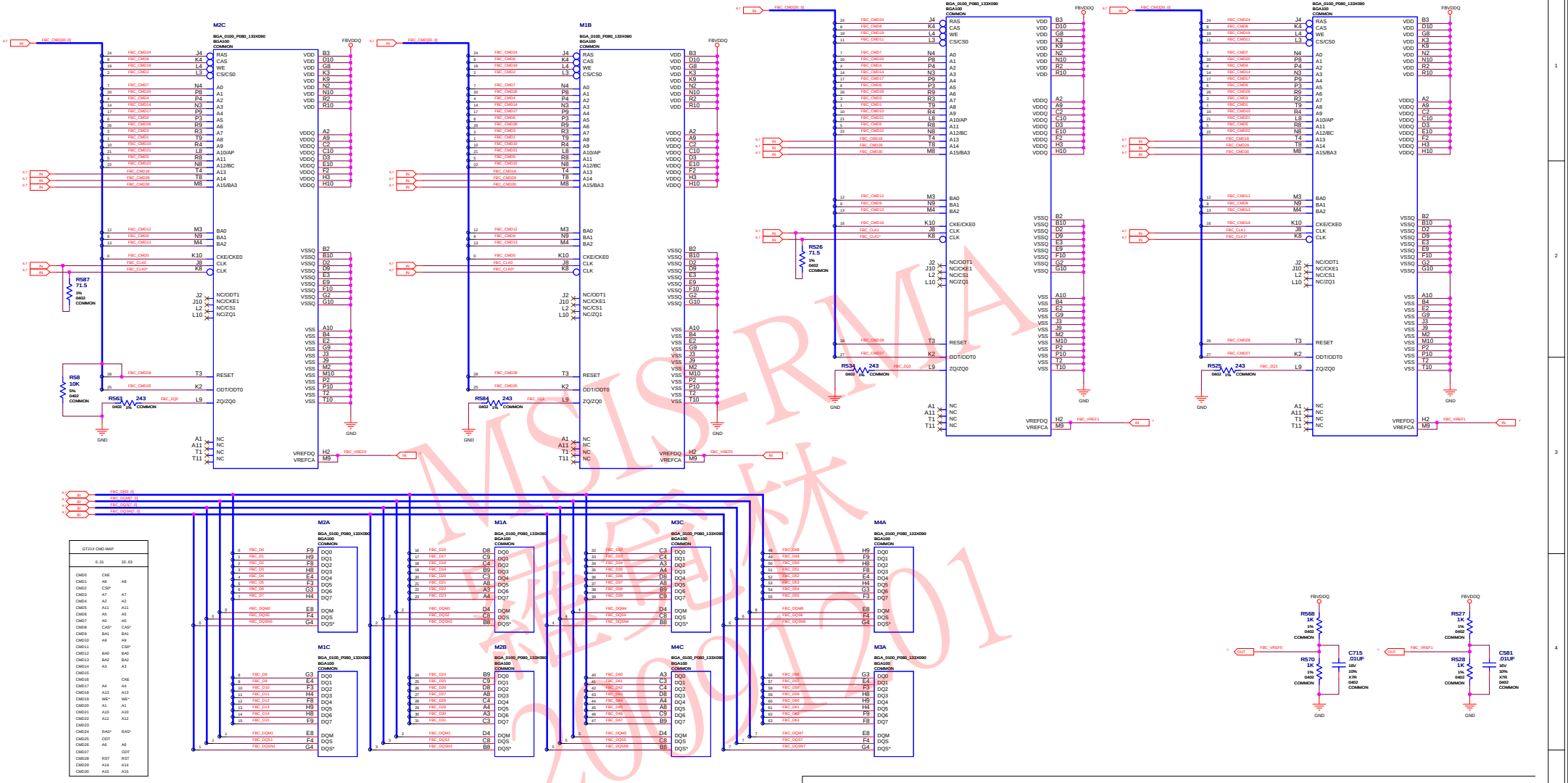
ID | PAGE
NAME | DATE 05-FEB-2009

PARTITION C MOMERIES



NET	DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET
FBC_DQS0	FBC_DQS<0>	80DIFF	1
FBC_DQS0#	FBC_DQS<0>	80DIFF	1
FBC_DQS1	FBC_DQS<1>	80DIFF	1
FBC_DQS1#	FBC_DQS<1>	80DIFF	1
FBC_DQS2	FBC_DQS<2>	80DIFF	1
FBC_DQS2#	FBC_DQS<2>	80DIFF	1
FBC_DQS3	FBC_DQS<3>	80DIFF	1
FBC_DQS3#	FBC_DQS<3>	80DIFF	1
FBC_DQS4	FBC_DQS<4>	80DIFF	1
FBC_DQS4#	FBC_DQS<4>	80DIFF	1
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FBC_DQS6#	FBC_DQS<6>	80DIFF	1
FBC_DQS7	FBC_DQS<7>	80DIFF	1
FBC_DQS7#	FBC_DQS<7>	80DIFF	1

NET	DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET
FBC_CLK0	FBC_CLK<0>	70DIFF	1
FBC_CLK0#	FBC_CLK<0>	70DIFF	1
FBC_CLK1	FBC_CLK<1>	70DIFF	1
FBC_CLK1#	FBC_CLK<1>	70DIFF	1
FBC_DQ[7..0]		40OHM	2
FBC_DQM[7..0]		40OHM	2
FBC_CMD[30..0]		40OHM	1

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PARTITION C MEMORIES

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ID		PAGE	
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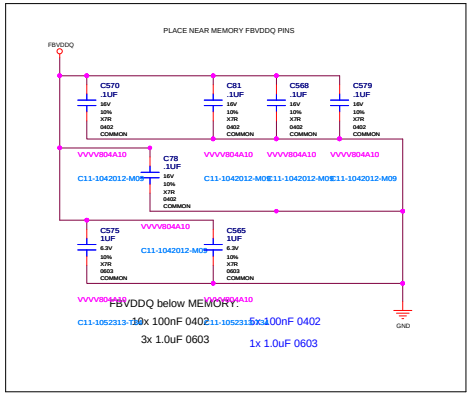
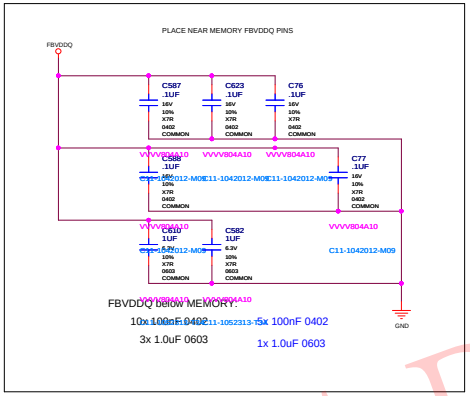
FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

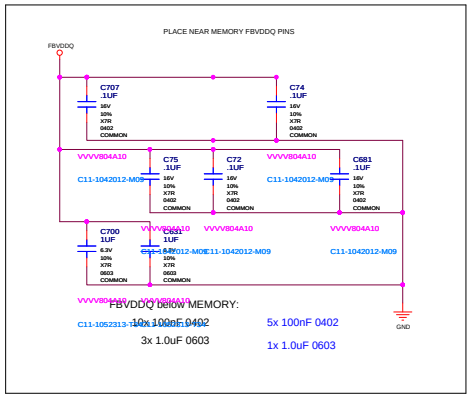
Decoupling for FBC 0..15



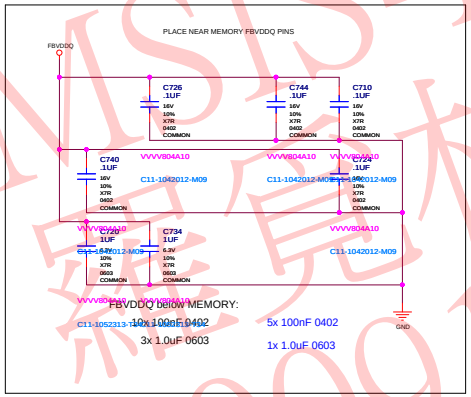
Decoupling for FBC 16..31

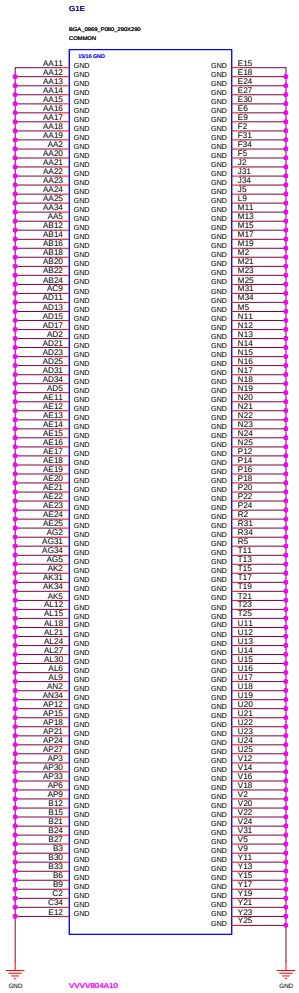


Decoupling for FBC 32..47

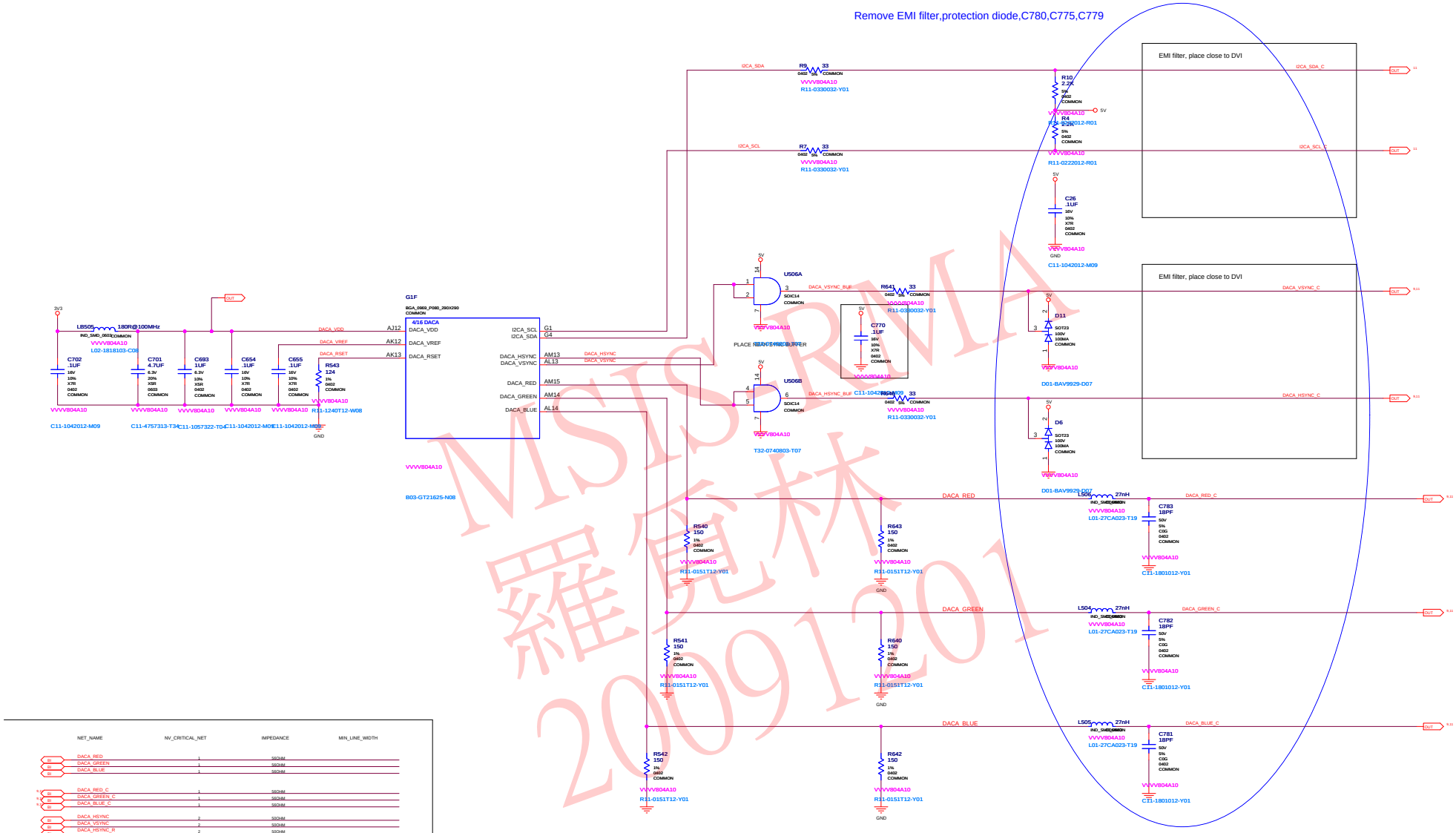


Decoupling for FBC 48..63





DACA (SOUTH DVI-I)



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

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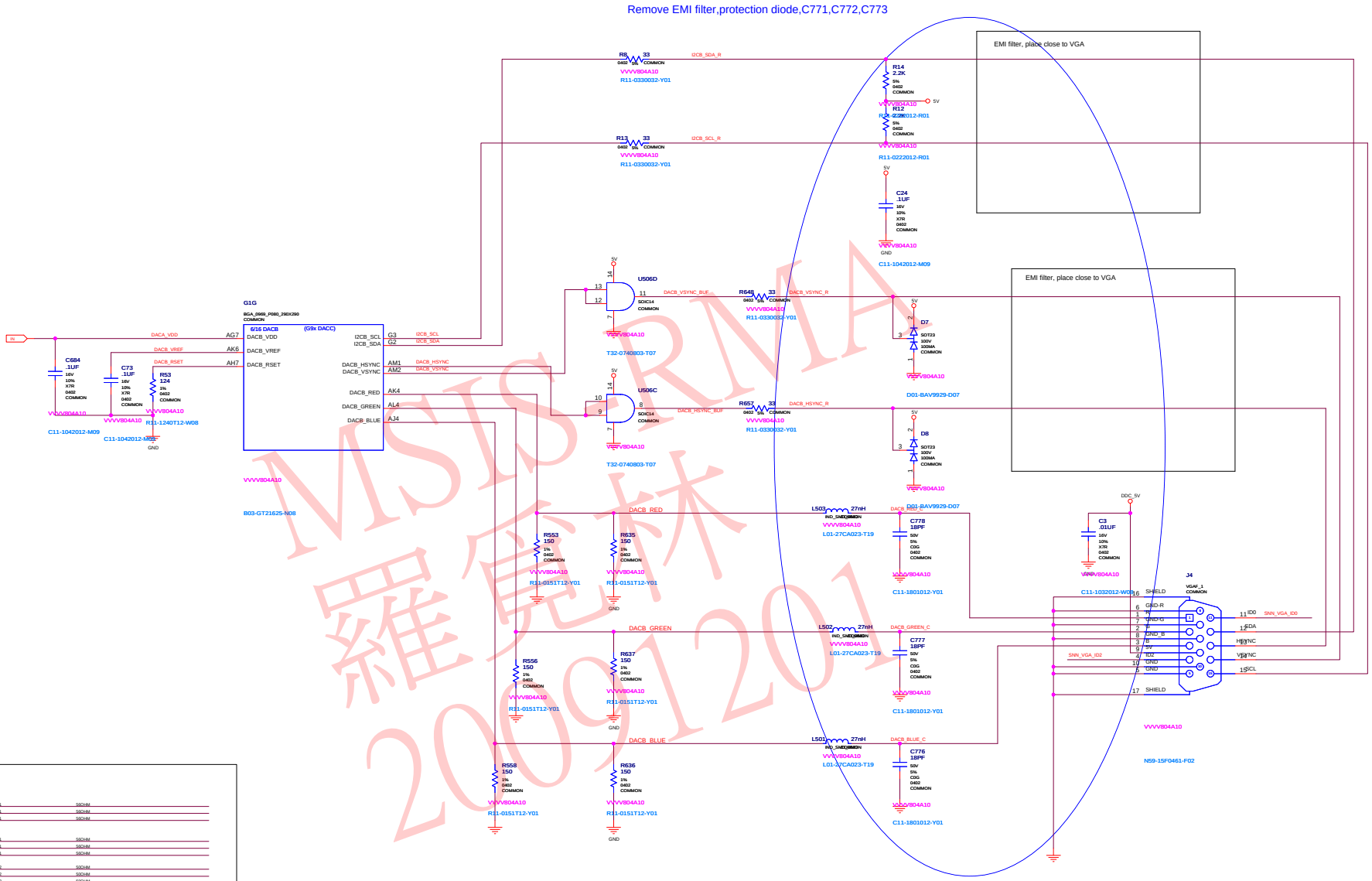
ID		PAGE	
NAME		DATE	05-FEB-2009

DACB (MID VGA)



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

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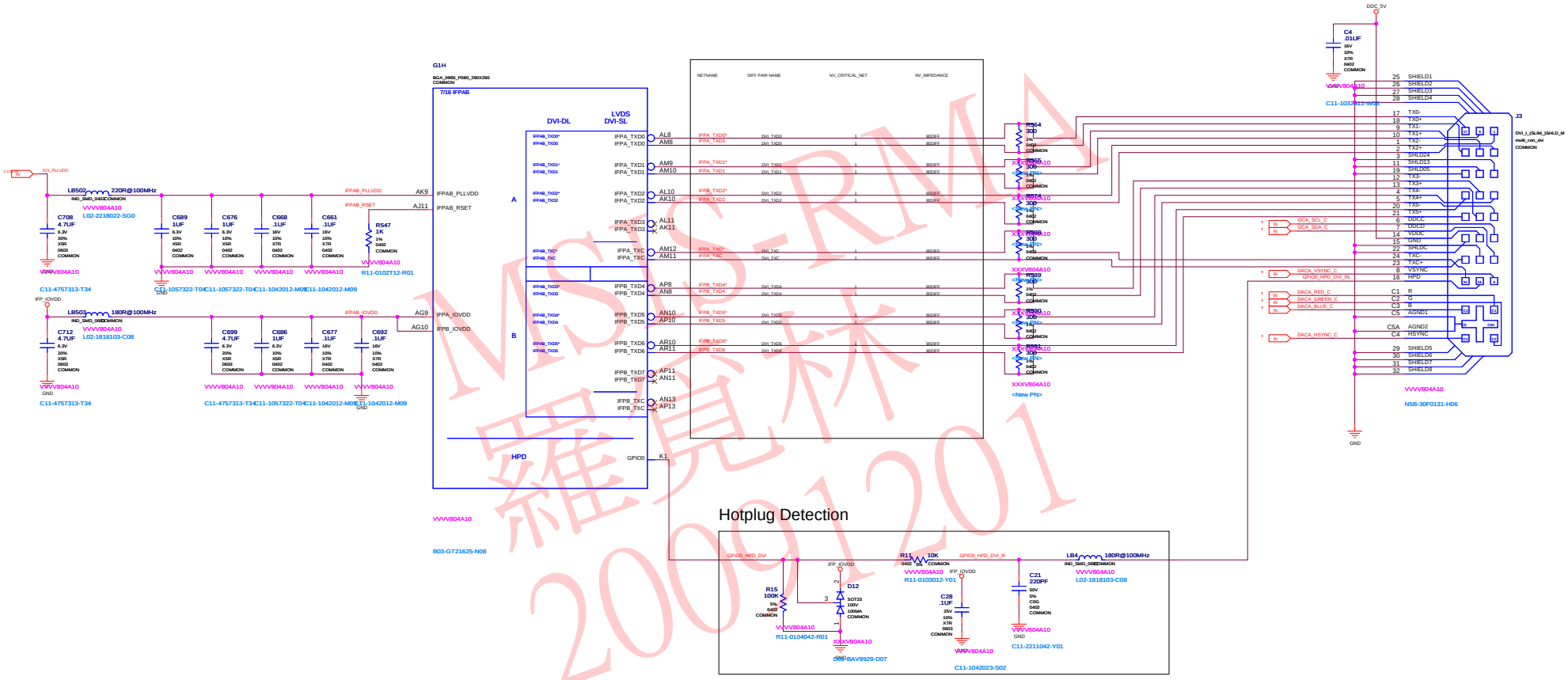
ID		PAGE	
NAME		DATE	05-FEB-2009

IFP AB (SOUTH DVI-I)



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

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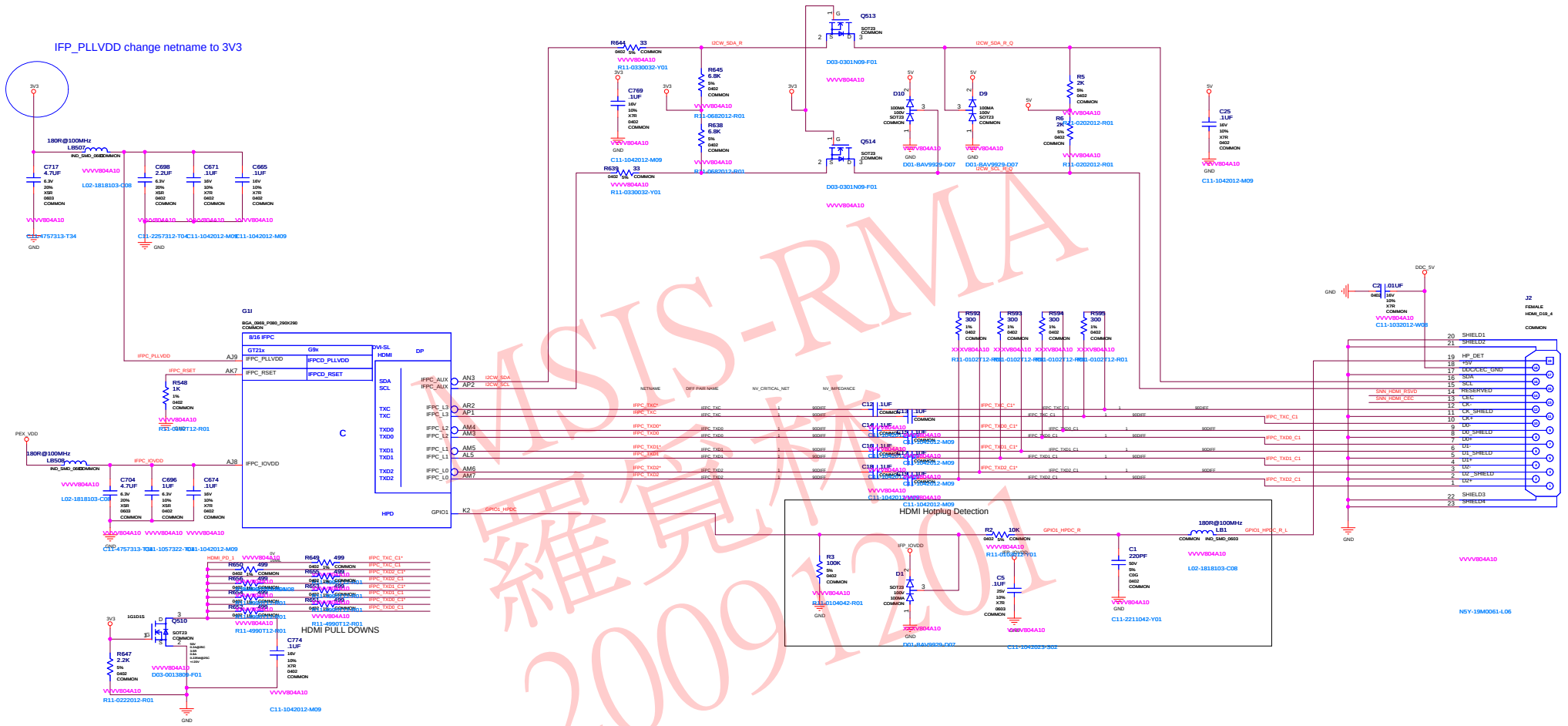
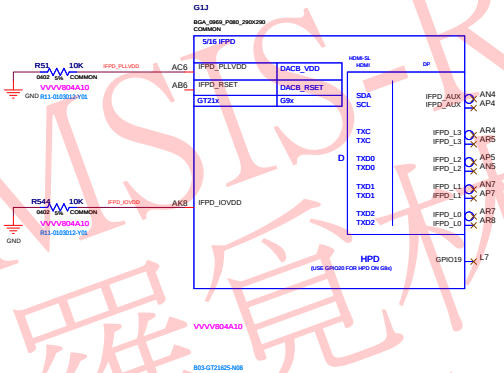
IFP C (NORTH HDMI)



IFP D (UNUSED)



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PAGE DETAIL	IFP D (UNUSED)

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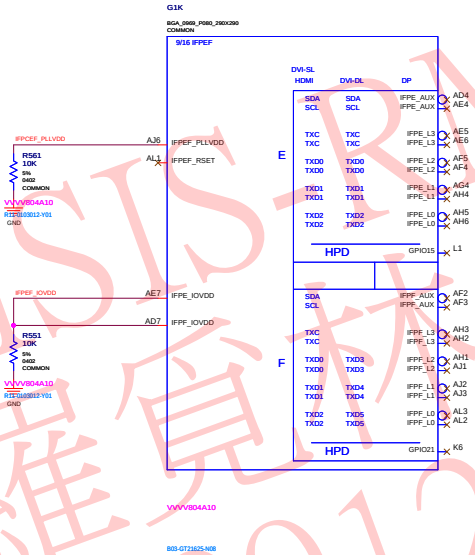
ID		PAGE	
NAME		DATE	05-FEB-2009

IFP EF (UNUSED)



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PAGE DETAIL	IFP EF (UNUSED)

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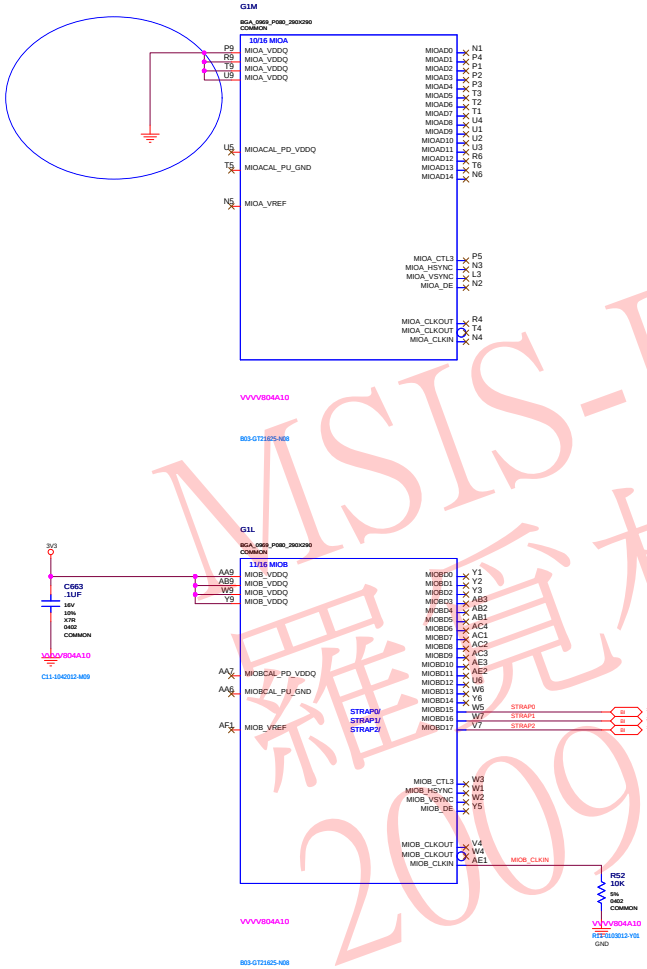
MIOA & MIOB

Remove R545,C664,R554 of MIOA



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

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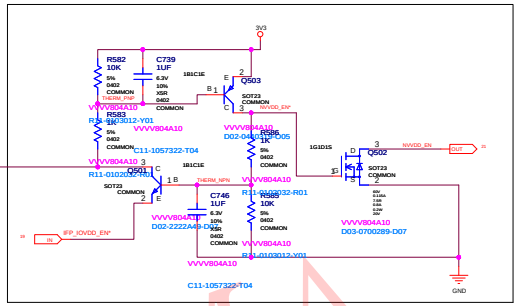
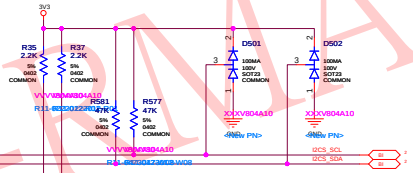
EXTERNAL THERMAL SENSOR, FAN CONTROL, GPIO, JTAG

THERMAL SENSOR

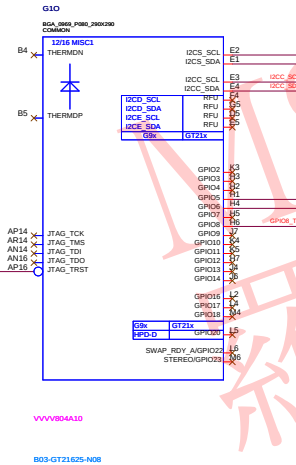
I2C: 0x4CH

OVERTEMP LATCH

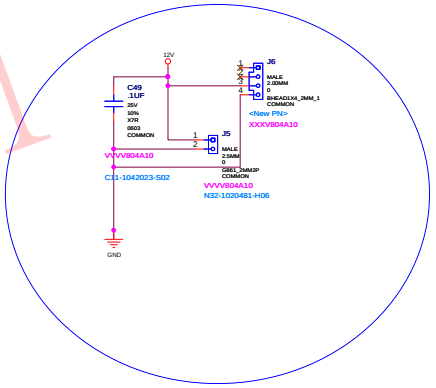




Remove JTAG Circuit



Remove FAN PWM Circuit



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

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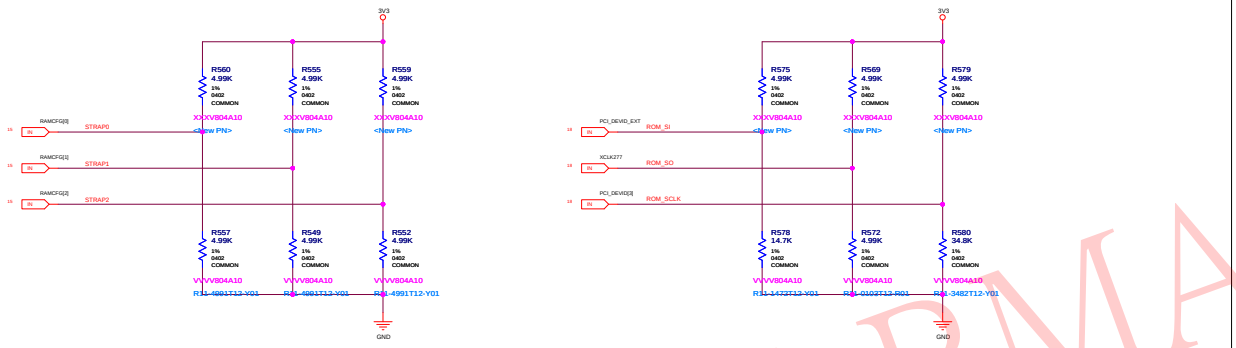
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

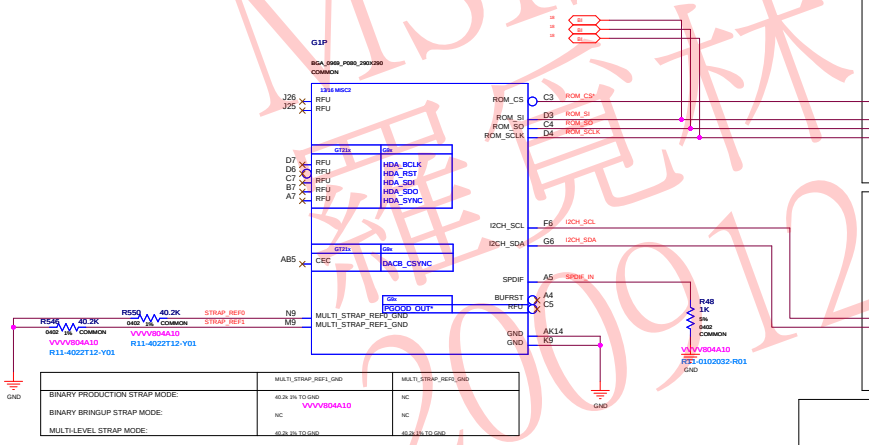
BIOS ROM, HDCP ROM, STRAPPING OPTIONS

STRAPPING OPTIONS



Strap0	USER[3:0]	EDID: 1111	45k PU
Strap1	3GIO_PADCFG[2:0]	DESKTOP: 0000	5k PD
Strap2	PCI_DEVID[3:0]	GT216-200: 0A21 0001	10k PD
ROM_SI	RAMCFG[3:0]	0001 128bit 64Mx16 DDR3 Qimonda 0010 128bit 64Mx16 DDR3 Hynix 0011 128bit 64Mx16 DDR3 Samsung 0101 128bit 128Mx16 DDR3 Qimonda 0110 128bit 128Mx16 DDR3 Hynix 0111 128bit 128Mx16 DDR3 Samsung 1001 64bit 64Mx16 DDR2 Qimonda 1010 64bit 64Mx16 DDR3 Hynix 1011 64bit 64Mx16 DDR3 Samsung 1101 64bit 128Mx16 DDR3 Qimonda 1110 64bit 128Mx16 DDR3 Hynix 1111 64bit 128Mx16 DDR3 Samsung	
ROM_SCLK	3: PCI_DEVID_EXT 2: SUB_VENDOR (1 = BIOS rom present) 1: SLOT_CLK_CFG (1 = common clk MCH/CPU) 0: PEX_PLL_EN_TERM (0 = disable pll term)	0110	35k PD
ROM_SO	3: XLK_417 (0 = POR 277MHz) 2: FB_0_BAR_SIZE (0 = POR 256MB) 1: SMB_ALT_ADDR (0=POR, 1= multiGPU) 0: VGA_DEVICE (0=3D device, 1=POR VGA device)	0001	5k PD

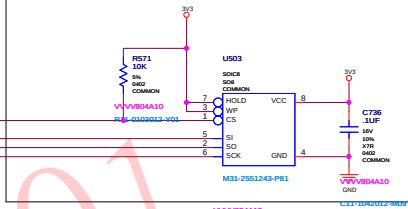
0	PD 5k	8	PU 5k
1	PD 10k	9	PU 10k
2	PD 15k	10	PU 15k
3	PD 20k	11	PU 20k
4	PD 25k	12	PU 25k
5	PD 30k	13	PU 30k
6	PD 35k	14	PU 35k
7	PD 45k	15	PU 45k



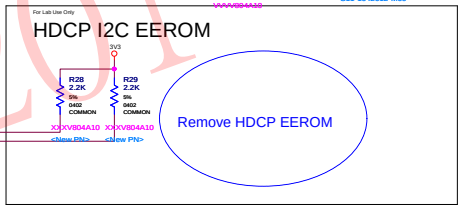
	MULTI_STRAP_REF1_GND	MULTI_STRAP_REF0_GND
BINARY PRODUCTION STRAP MODE:	40.2k 1% TO GND VVVV804A10	NC
BINARY BRINGUP STRAP MODE:	NC	NC
MULTI-LEVEL STRAP MODE:	40.2k 1% TO GND	40.2k 1% TO GND

B03-GT21625-N08

BIOS ROM(serial)



HDCP I2C EEROM



INFOROM

For Lab Use Only

I2C ADDRESS: 0XA8

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

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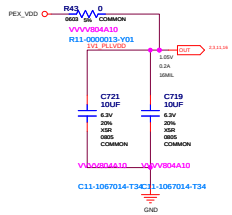
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

LINEAR POWER SUPPLIES

Remove U4 UP7703 Circuit

PEX_PLLVDD SUPPLY (OPTIAN)



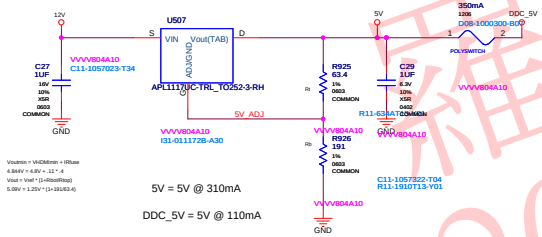
VOUT = Vref * (1 + Rbot / Rtop)
1.053V = 0.8V * (1 + 1k / 3.16k)

IFP_PLLVDD SUPPLY

VOUT = Vref * (1 + Rbot / Rtop)
1.793V = 0.8V * (1 + 1k / 0.806k)

Change 5V Circuit SOT223-->SOT252

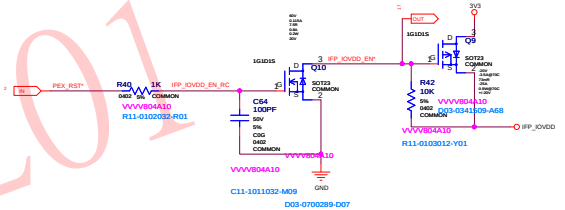
5V & DDC_5V REGULATOR



5V = 5V @ 310mA

DDC_5V = 5V @ 110mA

IFP_IOVDD BACKDRIVE PREVENTION



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

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NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

FBVDDQ/PEXVDD POWER SUPPLY

1.Remove C86,C105,C90
2.Add R917 LMOS Gate risister
3.Add L10
4.Add L9,R23,R24,R26,C86,C87,R26
5.Add EL 680UF FootPrint

PEXVDD = 1.05V @ 3A

Vin Irms = 5.8A @ 1.8V/15A

Vout Iripple = 5.3A @ 300kHz

Vout = Vref * (1 + Rtop / Rbot)

1.05V = 0.8V * (1 + 1.00k / 3.16k)

FBVDDQ = Vref * (1 + Rtop / Rbot)

1.50V = 0.8V * (1 + 1.58k / 1.82k) @ GPIO13 = 0

1.80V = 0.8V * (1 + 1.58k / 1.26k) @ GPIO13 = 1 (DEFAULT)

NEAR FEEDBACK

FAR FEEDBACK

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

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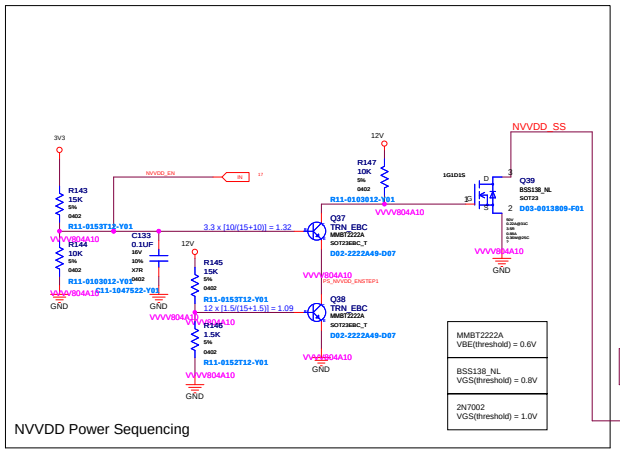
NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

Power Supply III: NVVDD

1.Add L13
2.Remove APW7068 OCSET
3.Add GPIO 5,6 Circuit
4.Remove C927,C931,C933,C30,C38,C31
5.change C39 Footprint for 470uf and 270uf



NVVDD Power Sequencing

Input Irms= 8A

GPIO5	GPIO6	Rbn	Vout
0	1	Rb1	0.9000V
1	0	Rb2	1.0000V
0	0	Rb3	1.0625V

Vout=Vref*(1+Rt/Rb)
Vout=0.8*(1+1.24k/Rbn)

Rb1 = R919 // R545 =8.75K
Rb2 = R919 // R554 =4.61K
Rb3 = R919 // R545 // R554 =3.78K

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

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NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	05-FEB-2009

Title: Basenet Report
Design: p681
Date: Jan 22 13:35:02 2009

Base nets and synonyms for
p681_lib:P681(@p681_lib,p681(sch_1))
Base Signal Location([Zone][dir])

1V1_ADJ 19.2B
1V1_PLLVDD 2.4G 3.5E 11.2A 16.3A
19.2C
1V8_ADJ 19.2F
3V3 2.1A
3V3_INFO 18.5F
5V 19.4C
5V_ADJ 19.4B
12V 2.1A
12V_D 19.4A
12V_F 21.1F
DACA_BLUE 9.4E 9.5A
DACA_BLUE_C 9.4H 9.5A 11.3G
DACA_GREEN 9.4E 9.5A
DACA_GREEN_C 9.4H 9.5A 11.3G
DACA_HSYNC 9.3C 9.5A
DACA_HSYNC_BUF 9.3E 9.5A
DACA_HSYNC_C 9.3H 9.5A 11.3G
DACA_HSYNC_R 9.3E 9.5A
DACA_RED 9.3E 9.5A
DACA_RED_C 9.3H 9.5A 11.3G
DACA_RSET 9.3B
DACA_VDD 9.2B
DACA_VREF 9.3B
DACA_VSYNC 9.3C 9.5A
DACA_VSYNC_BUF 9.2E 9.5A
DACA_VSYNC_C 9.2H 9.5A 11.3G
DACA_VSYNC_R 9.2E 9.5A
DACB_BLUE 10.4D 10.5A
DACB_BLUE_C 10.4F 10.5A
DACB_GREEN 10.4D 10.5A
DACB_GREEN_C 10.4F 10.5A
DACB_HSYNC 10.3C 10.5A
DACB_HSYNC_BUF 10.3E 10.5A
DACB_HSYNC_C 10.3G 10.5A
DACB_HSYNC_R 10.3E 10.5A
DACB_RED 10.3D 10.5A
DACB_RED_C 10.3F 10.5A
DACB_RSET 10.3B
DACB_VDD 10.2B
DACB_VREF 10.2B
DACB_VSYNC 10.3C 10.5A
DACB_VSYNC_BUF 10.2E 10.5A
DACB_VSYNC_C 10.2G 10.5A
DACB_VSYNC_R 10.2E 10.5A
DDC_5V 19.4D
FBA_CLK0 3.4D 4.2A 4.2C 4.5G
FBA_CLK0* 3.4D 4.2A 4.2C 4.5G
FBA_CLK1 3.4D 4.2D 4.2F 4.5G
FBA_CLK1* 3.4D 4.2D 4.2F 4.5G
FBA_CMD<0> 3.3C 3.4G 4.2A 4.2C
FBA_CMD<30..0> 3.3C 4.1A 4.1C 4.1D
4.1F 4.5G
FBA_CMD<1> 3.3C 3.4F 4.1A 4.1C
4.1E 4.1G
FBA_CMD<2> 3.3C 3.4G 4.1A 4.1C
FBA_CMD<3> 3.2G 3.3C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<4> 3.1F 3.3C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<5> 3.3C 3.3G 4.1A 4.1C
4.1E 4.1G
FBA_CMD<6> 3.1G 3.3C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<7> 3.3C 3.4F 4.1A 4.1C
4.1E 4.1G
FBA_CMD<8> 3.3C 3.4F 4.1A 4.1C
4.1E 4.1G
FBA_CMD<9> 3.2F 3.3C 4.2A 4.2C
4.2E 4.2G
FBA_CMD<10> 3.2F 3.3C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<11> 3.1F 3.3C 4.1E 4.1G
FBA_CMD<12> 3.1G 3.3C 4.2A 4.2C
4.2E 4.2G
FBA_CMD<13> 3.3C 3.3G 4.2A 4.2C
4.2E 4.2G
FBA_CMD<14> 3.3C 3.3F 4.1A 4.1C
4.1E 4.1G
FBA_CMD<16> 3.3C 3.4G 4.2E 4.2G
FBA_CMD<17> 3.3C 3.3G 4.1A 4.1C
4.1E 4.1G
FBA_CMD<18> 3.3C 3.4G 4.1E 4.1G
4.2A 4.2C
FBA_CMD<19> 3.2G 3.3C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<20> 3.3F 3.4C 4.1A 4.1C
4.1E 4.1G

FBA_CMD<21> 3.2G 3.4C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<22> 3.4C 3.4F 4.1E 4.1G
4.2A 4.2C
FBA_CMD<24> 3.3F 3.4C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<25> 3.4C 3.4G 4.3A 4.3C
FBA_CMD<26> 3.2F 3.4C 4.1A 4.1C
4.1E 4.1G
FBA_CMD<27> 3.4C 3.4G 4.2E 4.2G
FBA_CMD<28> 3.4C 4.2E 4.2G 4.3A
4.3C
FBA_D<0> 3.1B 4.3B
FBA_D<63..0> 3.1A 4.3A 4.5G
FBA_D<1> 3.1B 4.3B
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
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FBA_D<11> 3.1B 4.4B
FBA_D<12> 3.2B 4.4B
FBA_D<13> 3.2B 4.4B
FBA_D<14> 3.2B 4.4B
FBA_D<15> 3.2B 4.4B
FBA_D<16> 3.2B 4.3C
FBA_D<17> 3.2B 4.3C
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
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FBA_D<27> 3.2B 4.4C
FBA_D<28> 3.2B 4.4C
FBA_D<29> 3.2B 4.4C
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FBA_D<31> 3.2B 4.3D
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FBA_D<58> 3.3B 4.4E
FBA_D<59> 3.3B 4.4E
FBA_D<60> 3.3B 4.4E
FBA_D<61> 3.3B 4.4E
FBA_D<62> 3.3B 4.4E
FBA_D<63> 3.3B 4.4E
FBA_DEBUG 3.4C
FBA_DQM<0> 3.3B 4.4B
FBA_DQM<7..0> 3.3A 4.3A 4.5G
FBA_DQM<1> 3.3B 4.4B
FBA_DQM<2> 3.3B 4.4C
FBA_DQM<3> 3.3B 4.4C
FBA_DQM<4> 3.3B 4.4C
FBA_DQM<5> 3.3B 4.4D
FBA_DQM<6> 3.4B 4.4E
FBA_DQM<7> 3.4B 4.4E
FBA_DQS<0> 3.4B 4.4B 4.5E
FBA_DQS<7..0> 3.4A 4.3A 4.5E
FBA_DQS<1> 3.4B 4.4B 4.5E
FBA_DQS<2> 3.4B 4.4C 4.5E
FBA_DQS<3> 3.4B 4.4C 4.5E
FBA_DQS<4> 3.4B 4.4D 4.5E
FBA_DQS<5> 3.4B 4.4D 4.5E
FBA_DQS<6> 3.4B 4.4E 4.5E
FBA_DQS<7> 3.4B 4.4E 4.5E

FBA_DQSN<0> 3.4B 4.4B 4.5E
FBA_DQSN<7..0> 3.4A 4.3A 4.5E
FBA_DQSN<1> 3.4B 4.4B 4.5E
FBA_DQSN<2> 3.4B 4.4C 4.5E
FBA_DQSN<3> 3.4B 4.4C 4.5E
FBA_DQSN<4> 3.4B 4.4D 4.5E
FBA_DQSN<5> 3.4B 4.4D 4.5E
FBA_DQSN<6> 3.4B 4.4E 4.5E
FBA_DQSN<7> 3.4B 4.4E 4.5E
FBA_VREF 3.5B
FBA_VREF0 4.3C 4.3E 4.4G
FBA_VREF1 4.3F 4.3H 4.4H
FBA_ZQ0 4.3A
FBA_ZQ1 4.3C
FBA_ZQ2 4.3E
FBA_ZQ3 4.3G
FBC_CLK0 6.4D 7.2A 7.2C 7.5G
FBC_CLK0* 6.4D 7.3A 7.2C 7.5G
FBC_CLK1 6.4D 7.2D 7.2F 7.5G
FBC_CLK1* 6.4D 7.2D 7.2F 7.5G
FBC_CMD<0> 6.3C 6.4G 7.2A 7.2C
FBC_CMD<30..0> 6.3D 7.1A 7.1C 7.1D
7.1F 7.5G
FBC_CMD<1> 6.2F 6.3C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<2> 6.1G 6.3C 7.1A 7.1C
FBC_CMD<3> 6.2G 6.3C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<4> 6.2G 6.3C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<5> 6.3C 6.4G 7.1A 7.1C
7.1E 7.1G
FBC_CMD<6> 6.3C 6.4F 7.1A 7.1C
7.1E 7.1G
FBC_CMD<7> 6.3C 6.3G 7.1A 7.1C
7.1E 7.1G
FBC_CMD<8> 6.3C 6.4F 7.1A 7.1C
7.1E 7.1G
FBC_CMD<9> 6.3C 6.3F 7.2A 7.2C
7.2E 7.2G
FBC_CMD<10> 6.3C 6.3G 7.1A 7.1C
7.1E 7.1G
FBC_CMD<11> 6.3C 6.4F 7.1E 7.1G
FBC_CMD<12> 6.3C 6.4G 7.2A 7.2C
7.2E 7.2G
FBC_CMD<13> 6.3C 6.3F 7.2A 7.2C
7.2E 7.2G
FBC_CMD<14> 6.1G 6.3C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<16> 6.3C 6.4G 7.2E 7.2G
FBC_CMD<17> 6.3C 6.3G 7.1A 7.1C
7.1E 7.1G
FBC_CMD<18> 6.1F 6.3C 7.1E 7.1G
7.2A 7.2C
FBC_CMD<19> 6.3C 6.4F 7.1A 7.1C
7.1E 7.1G
FBC_CMD<20> 6.3F 6.4C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<21> 6.2G 6.4C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<22> 6.1F 6.4C 7.1E 7.1G
7.2A 7.2C
FBC_CMD<24> 6.2F 6.4C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<25> 6.4C 6.4G 7.3A 7.3C
FBC_CMD<26> 6.2F 6.4C 7.1A 7.1C
7.1E 7.1G
FBC_CMD<27> 6.4C 6.4G 7.2E 7.2G
FBC_CMD<28> 6.4C 7.2E 7.2G 7.3A
7.3C
FBC_D<0> 6.1B 7.3B
FBC_D<63..0> 6.1A 7.3A 7.5G
FBC_D<1> 6.1B 7.4B
FBC_D<2> 6.1B 7.4B
FBC_D<3> 6.1B 7.4B
FBC_D<4> 6.1B 7.4B
FBC_D<5> 6.1B 7.4B
FBC_D<6> 6.1B 7.4B
FBC_D<7> 6.1B 7.4B
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FBC_D<9> 6.1B 7.4B
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GPIO0_HPD_DVI_R 11.4E
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THERM_OVERTMP* 17.2D
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R505 [20.3B]
R506 [20.3B]
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R509 [20.2D]
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R512 [4.4H]
R513 [4.4G]
R514 [4.4G]
R515 [4.2A]
R516 [4.2E]
R517 [4.3E]
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R522 [2.5F]
R523 [3.4D]
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R525 [6.5D]
R526 [3.5A]
R527 [7.3E]

R528 [6.5D]
R529 [6.5D]
R530 [2.5F]
R531 [6.4D]
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RP2 [6.2G 6.2G 6.2G 6.2G]
RP3 [6.2G 6.3G 6.2G 6.3G]
RP4 [6.3H 6.3H 6.3H 6.3H]
RP5 [6.1G 6.1G 6.1G 6.1G]
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RP7 [6.4G 6.4G 6.4G 6.4G]

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RP9 [6.3H 6.3H 6.2H 6.2H]
RP10 [6.2H 6.2H 6.2H 6.2H]
RP11 [6.4G 6.4G 6.4G 6.4G]
RP12 [3.4H 3.4H 3.4H 3.4H]
RP13 [3.2G 3.2G 3.2G 3.2G]
RP14 [3.3G 3.3G 3.3G 3.3G]
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RP17 [3.3H 3.3H 3.3H 3.3H]
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RP19 [3.3G 3.3G 3.2G 3.2G]
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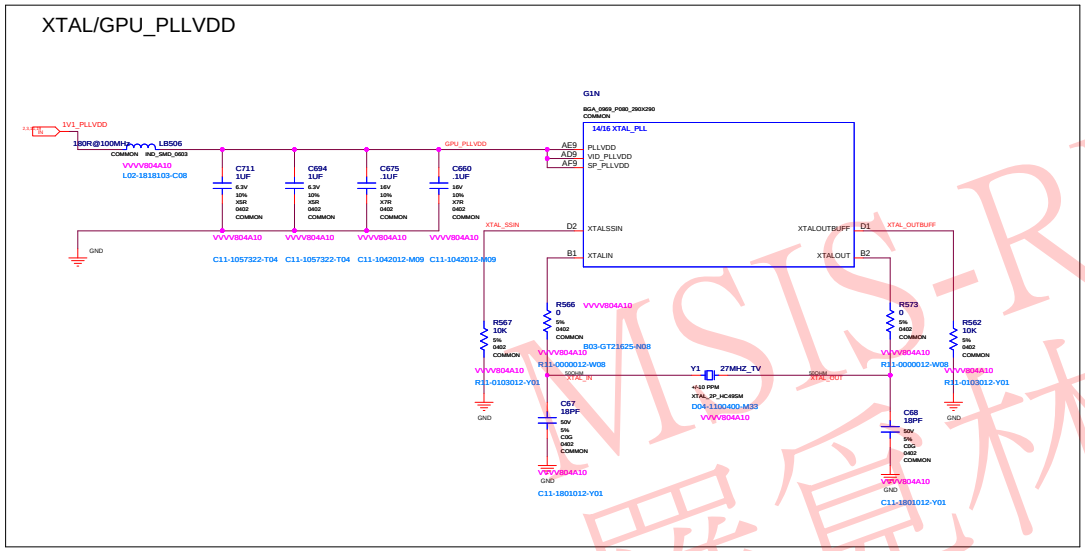

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MEC4 MEC_SCREW_HEX_JACK COMMON
MEC2 MEC_SCREW_HEX_JACK COMMON
E42-5047001-H75
MEC3 MEC_SCREW_PH1 COMMON
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FM5 SW_FB
FM4 SW_FB
FM6 SW_FB
FAN
Socket_D10M
E32-0402750-A58

J11 X_PIN1*2 MEM DATA Signal end FBA_D*
MEM to GPU : 6.82mil / 40ohm
J15 impedence MEM DQS Diff FBA_DQS0/FBA_DQSN0
MEM :trace width=5.8mil,air gap=6.7mil / 80ohm
J14 impedence MEM CLK Diff FBA_CLK0/FBA_CLK0*
MEM :trace width=7mil,air gap=5.1mil / 70ohm

H3A FANSINK
H3B FANSINK
H3C FANSINK
H3D FANSINK