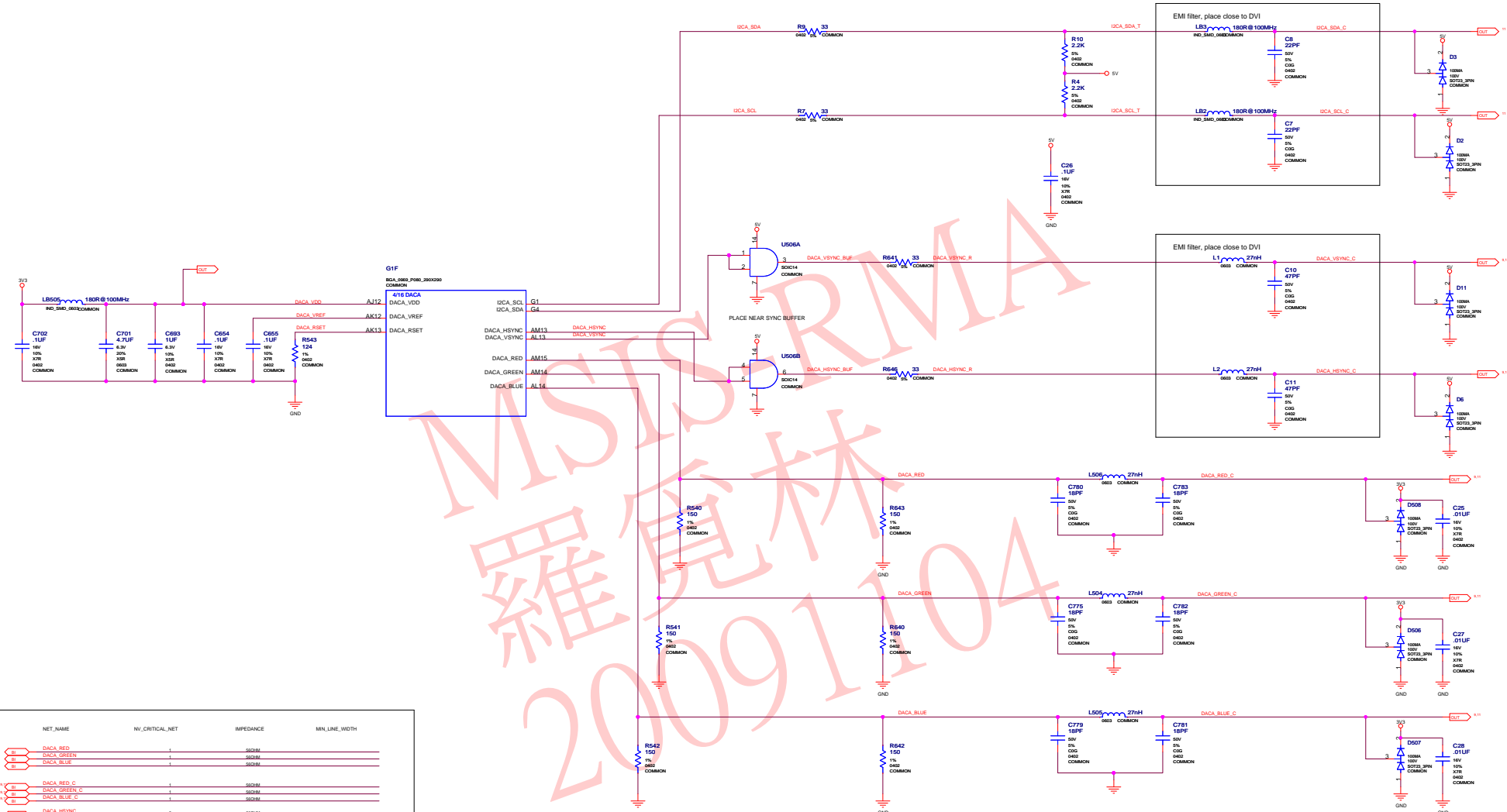


DACA (SOUTH DVI-I)



NET_NAME	NV_CRITICAL_NET	IMPEDANCE	MIN_LINE_WIDTH
DACA_RED	1	500m	
DACA_GREEN	1	500m	
DACA_BLUE	1	500m	
DACA_RED_C	1	500m	
DACA_GREEN_C	1	500m	
DACA_BLUE_C	1	500m	
DACA_HSYNC	2	500m	
DACA_VSYNC	2	500m	
DACA_VSYNC_B	2	500m	
DACA_VSYNC_R	2	500m	
DACA_VSYNC_G	2	500m	
DACA_VSYNC_C	2	500m	
DACA_HSYNC_B	2	500m	
DACA_HSYNC_R	2	500m	
DACA_HSYNC_G	2	500m	
DACA_HSYNC_C	2	500m	

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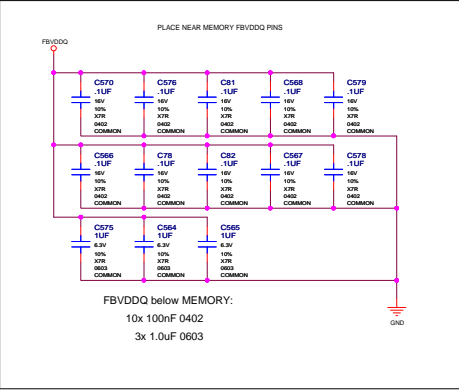
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PAGE/METAL	DACA (SOUTH DVI-I)

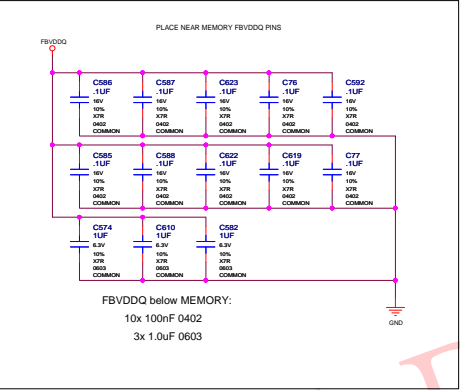
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FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

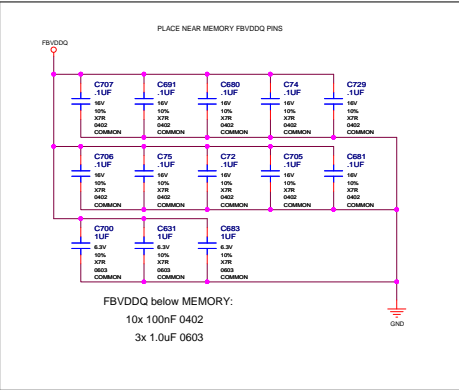
Decoupling for FBC 0..15



Decoupling for FBC 16..31



Decoupling for FBC 32..47



Decoupling for FBC 48..63

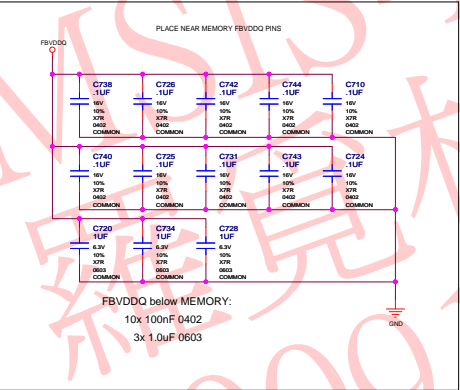
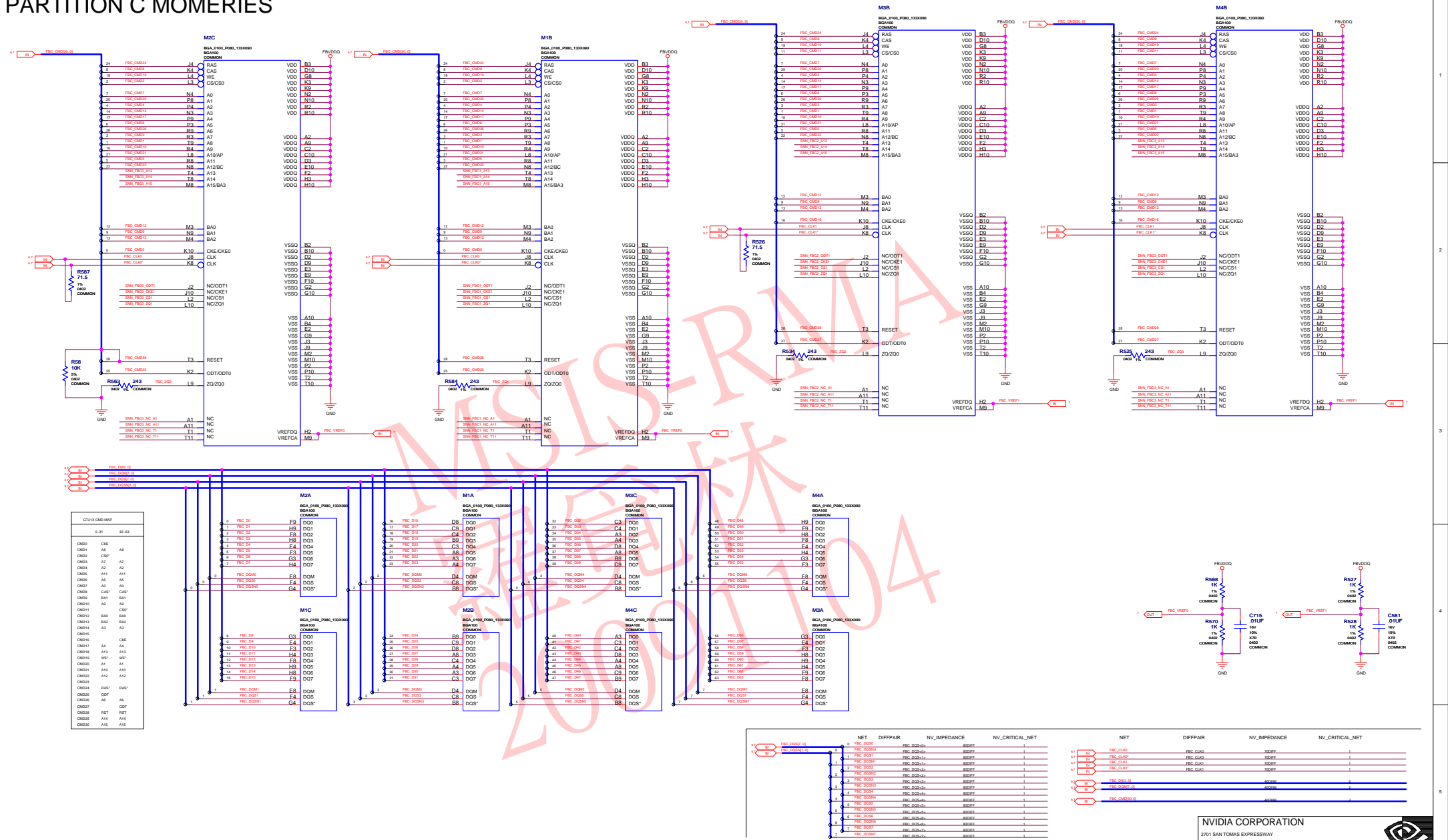


Table listing pins and their connections for the FBVDDQ decoupling circuit.


Pin	Connection
AA11	GND
AA12	GND
AA13	GND
AA14	GND
AA15	GND
AA16	GND
AA17	GND
AA18	GND
AA19	GND
AA20	GND
AA21	GND
AA22	GND
AA23	GND
AA24	GND
AA25	GND
AA26	GND
AA27	GND
AA28	GND
AA29	GND
AA30	GND
AA31	GND
AA32	GND
AA33	GND
AA34	GND
AA35	GND
AA36	GND
AA37	GND
AA38	GND
AA39	GND
AA40	GND
AA41	GND
AA42	GND
AA43	GND
AA44	GND
AA45	GND
AA46	GND
AA47	GND
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AA67	GND
AA68	GND
AA69	GND
AA70	GND
AA71	GND
AA72	GND
AA73	GND
AA74	GND
AA75	GND
AA76	GND
AA77	GND
AA78	GND
AA79	GND
AA80	GND
AA81	GND
AA82	GND
AA83	GND
AA84	GND
AA85	GND
AA86	GND
AA87	GND
AA88	GND
AA89	GND
AA90	GND
AA91	GND
AA92	GND
AA93	GND
AA94	GND
AA95	GND
AA96	GND
AA97	GND
AA98	GND
AA99	GND
AA100	GND

PARTITION C MOMERIES



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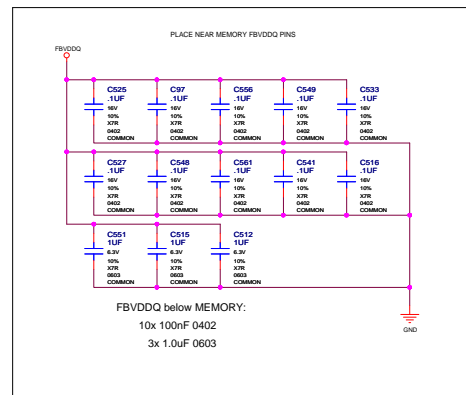
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PAGE DETAIL	PARTITION C MEMORIES

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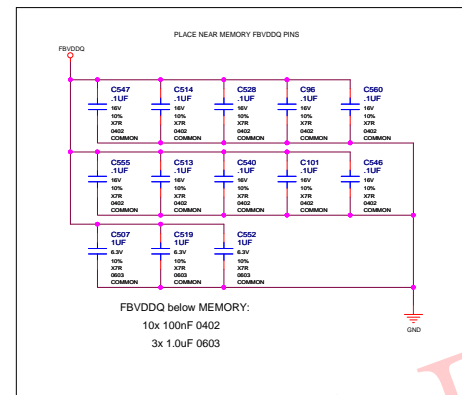


FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

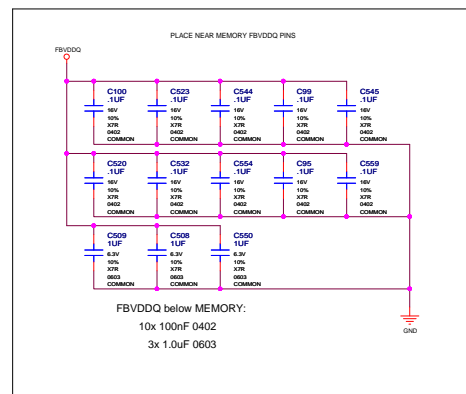
Decoupling for FBA 0..15



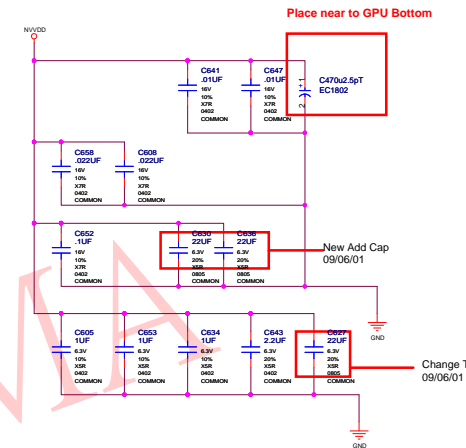
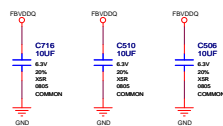
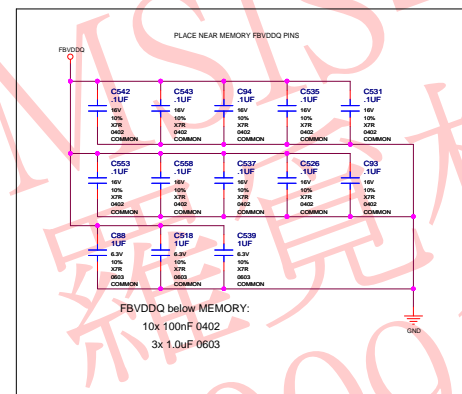
Decoupling for FBA 16..31



Decoupling for FBA 32..47



Decoupling for FBA 48..63



NVVDD under GPU:

4x 0.01uF 0402 X7R
5x 0.0022uF 0402 X7R

2x 0.047uF 0402 X7F

1x 0.1uF 0402 X7R

1x 0.22uF 0402 X7R
4x 1.0uF 0402 X5R

1x 2.2uF 0402 X5R

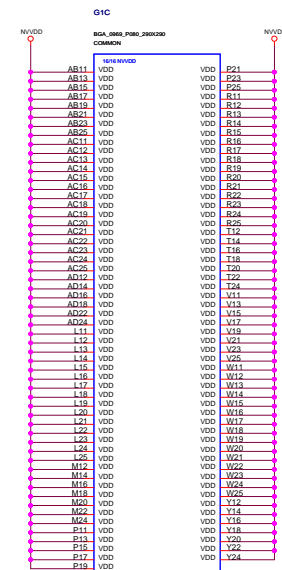
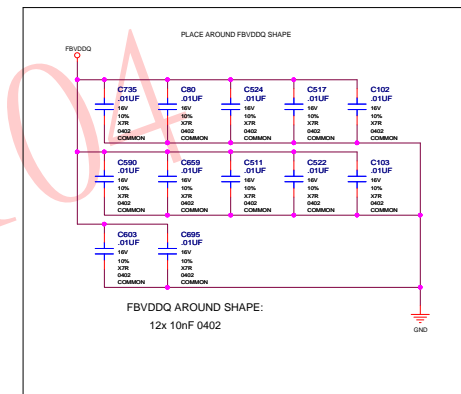
2x 10uF 0805 X5R

or EMI

PLACE AROUND

PLACE AROUND FE

Decoupling for EMI



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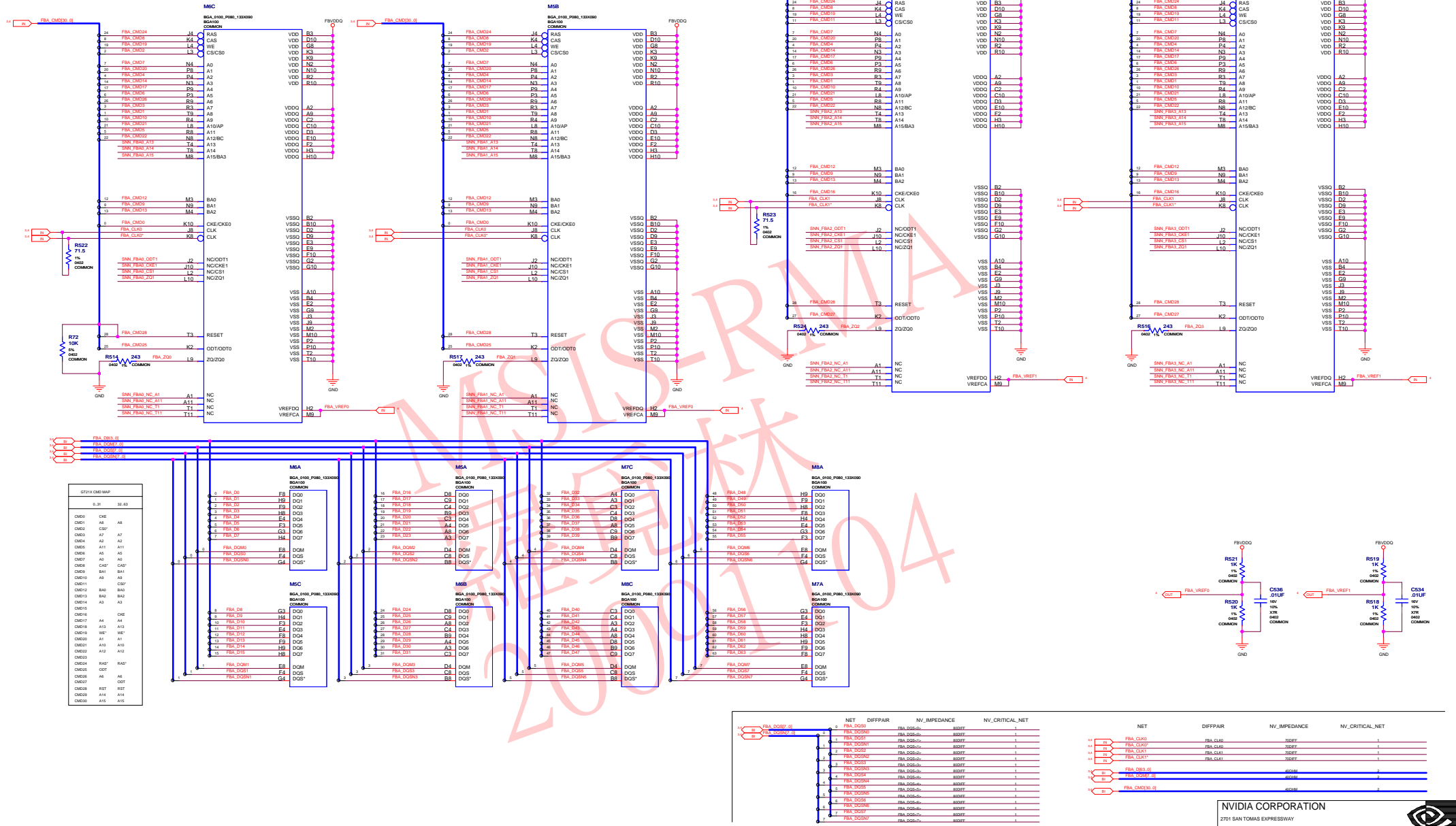
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PARTITION A MOMERIES

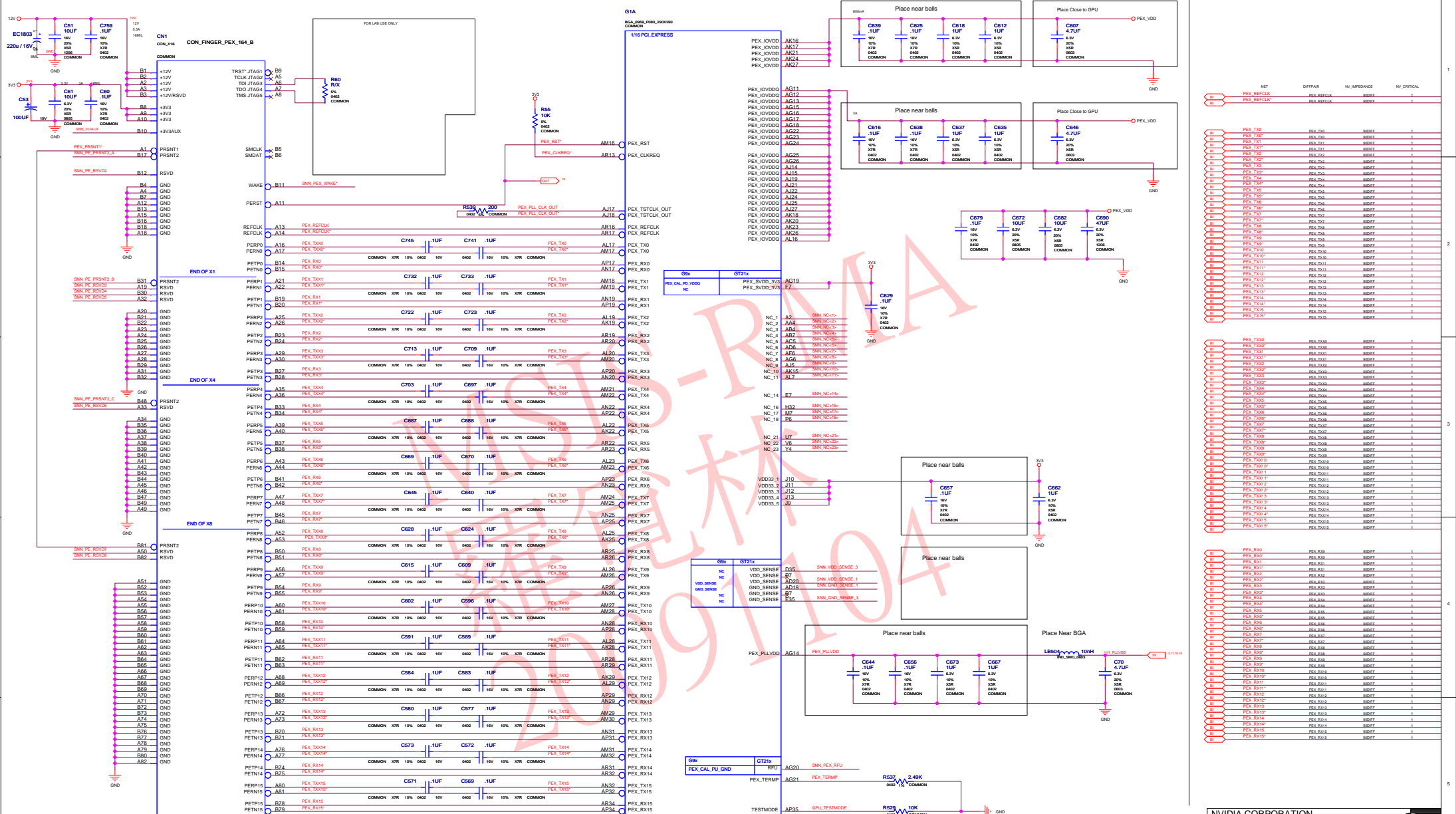



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[illegible]

A		B		C		D		E		F		G		H	
Title: Basepad Report		FBA_CMD<21> 3.20 3.4C 4.1A 4.1C		FBA_D0Bn<0> 3.4B 4.4B 4.5E		FBC_D<25> 6.2B 7.4C		GPIO0_FAN_PWM_Q_L 17.4G		NVDDO_GND_SENSE_R 21.2B 21.4C		PEX_TX00 2.2B 2.3G			
Design: p081		4.1E 4.1G		FBA_D0Bn<7> 3.4A 4.3A 4.5E		FBC_D<26> 6.2B 7.4C		GPIO0_FAN_PWM_R 17.3F		NVDDO_IOPS 21.3C		PEX_TX0P 2.2B 2.3G			
Date: Jan 22 13:35:02 2009		FBA_CMD<21> 3.4C 3.4F 4.1E 4.1G		FBA_D0Bn<1> 3.4B 4.4B 4.5E		FBC_D<27> 6.2B 7.4C		GPIO0_FIBROD_VBEL 17.4D 20.4D		NVDDO_MODE 21.3C		PEX_TX01 2.2B 2.3G			
		4.2A 4.2C		FBA_D0Bn<2> 3.4B 4.4C 4.5E		FBC_D<28> 6.2B 7.4C		GPIO0_FAN_PWM 17.4C		NVDDO_MODE_Q 21.1B		PEX_TX02 2.2B 2.3G			
		FBA_CMD<4> 3.3F 3.4C 4.1A 4.1C		FBA_D0Bn<3> 3.4B 4.4C 4.5E		FBC_D<29> 6.2B 7.4C		GPU_TESTMODE 2.5E		NVDDO_REFIN 21.3C		PEX_TX03 2.2B 2.3G			
		4.1E 4.1G		FBA_D0Bn<4> 3.4B 4.4D 4.5E		FBC_D<30> 6.2B 7.4C		HDA_PIO 11.3C		NVDDO_RESET 21.3C		PEX_TX04 2.2B 2.3G			
		FBA_CMD<5> 3.4C 3.4D 4.3A 4.3C		FBA_D0Bn<5> 3.4B 4.4C 4.5E		FBC_D<31> 6.2B 7.4D		NVDDO_VREF 21.3C		NVDDO_SENSE 2.4F 21.4D		PEX_TX05 2.2B 2.3G			
		FBA_CMD<26> 3.3F 3.4C 4.1A 4.1C		FBA_D0Bn<6> 3.4B 4.4E 4.5E		FBC_D<32> 6.2B 7.3D		NVDDO_SENSE_Q 9.3C 9.3D		NVDDO_SENSE_R 21.4E		PEX_TX06 2.2B 2.3G			
		4.1E 4.1G		FBA_D0Bn<7> 3.4B 4.4E 4.5E		FBC_D<33> 6.2B 7.4D		NVDDO_SCL_C 9.2H 11.3G		NVDDO_SBS 21.3C		PEX_TX07 2.2B 2.3G			
		FBA_CMD<27> 3.4C 3.4D 4.3E 4.3D		FBA_VREF 4.3C 4.3E 4.3F		FBC_D<34> 6.2B 7.4D		NVDDO_VID 21.3C		NVDDO_VID_Q 21.3C		PEX_TX08 2.2B 2.3G			
		FBA_CMD<28> 3.4E 4.2E 4.2D 4.3A		FBA_VREF1 4.3F 4.3A 4.4H		FBC_D<35> 6.2B 7.4D		NVDDO_VBEL2_Q 9.1H 11.3C		NVDDO_VBEL2_R 21.3C		PEX_TX09 2.2B 2.3G			
		4.3C		FBA_Z00 4.3A		FBC_D<36> 6.2B 7.4D		NVDDO_VBEL2_T 6.1F		NVDDO_VBEL3 21.4B		PEX_TX0A 2.2B 2.3G			
		19.2C		FBA_Z01 4.3C		FBC_D<38> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3B		NVDDO_VBEL3_Q 21.3B		PEX_TX0P 2.2B 2.3G			
		19.2F		FBA_Z02 4.3E		FBC_D<39> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		V08_A0 2.1A		FBA_Z03 4.3D		FBC_D<40> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		3_V03_IN0 18.5F		FBC_CLK0 6.4D 7.2A 7.2C 7.5G		FBC_D<41> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		SV 19.4C		FBC_CLK0 6.4D 7.2A 7.2C 7.5G		FBC_D<42> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		FBA_Z04 19.4B		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<43> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		12V 2.1A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<44> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		12V_D 19.4A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<45> 6.2B 7.4D		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		12V_F 21.1F		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<46> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_BLUE 9.4E 9.5A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<47> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_BLUE_C 9.4H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<48> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_GREEN 9.4E 9.5A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<49> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_GREEN_C 9.4H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<50> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC 9.3C 9.5A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<51> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_BUF 9.3E 9.5A		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<52> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<53> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<54> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<55> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<56> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<57> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<58> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<59> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<60> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<61> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<62> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<63> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<64> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<65> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<66> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<67> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<68> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<69> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<70> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<71> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<72> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<73> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<74> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<75> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<76> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<77> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<78> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<79> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<80> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<81> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<82> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<83> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<84> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<85> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<86> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<87> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<88> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<89> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<90> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<91> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<92> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<93> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<94> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<95> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<96> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<97> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C		NVDDO_VBEL3_Q 21.3C		PEX_TX0P 2.2B 2.3G			
		DACA_HYMC_C 9.3H 9.5A 11.3G		FBC_CLK1 6.4D 7.2D 7.2F 7.5G		FBC_D<98> 6.2B 7.4E		NVDDO_VBEL3_Q 21.3C							

PCI-EXPRESS INTERFACE

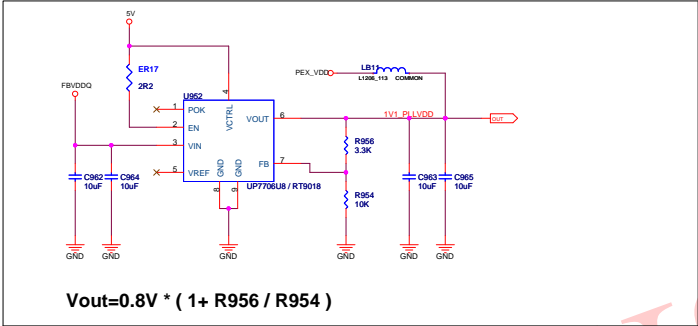


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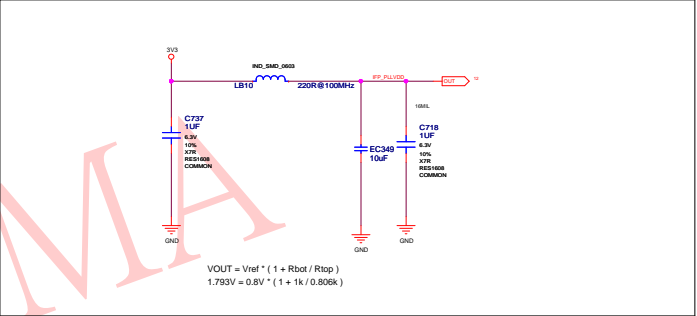
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LINEAR POWER SUPPLIES

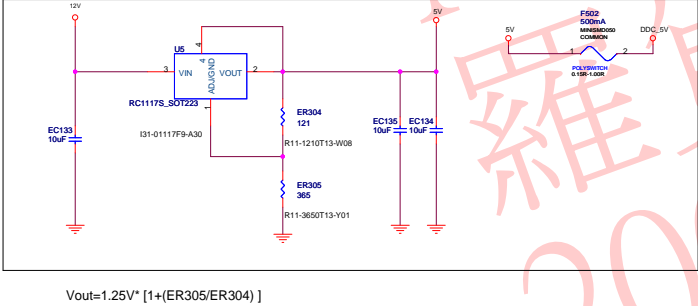
PEX_PLLVDD SUPPLY (OPTIAN)



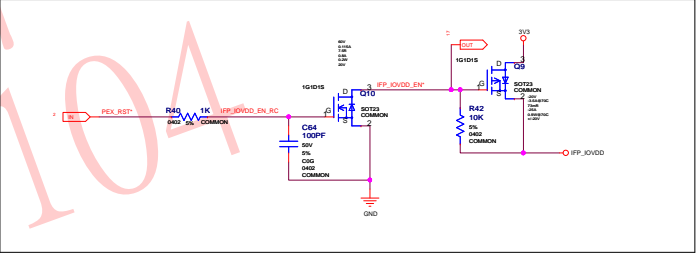
IFP_PLLVDD SUPPLY



5V & DDC_5V REGULATOR



IFP_IOVDD BACKDRIVE PREVENTION

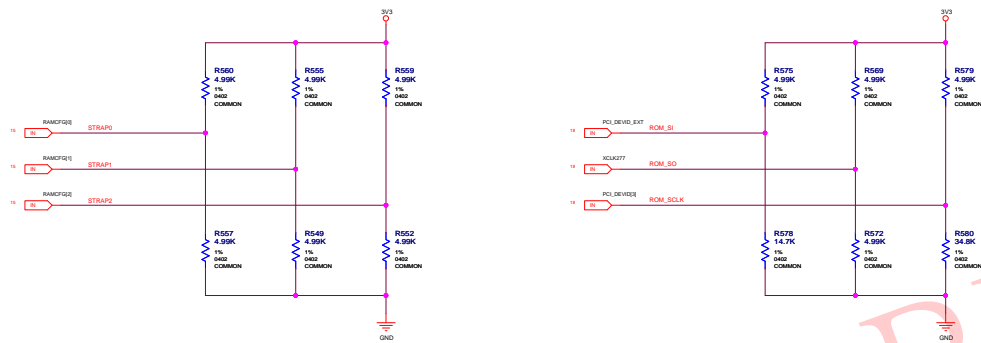


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BIOS ROM, HDCP ROM, STRAPPING OPTIONS

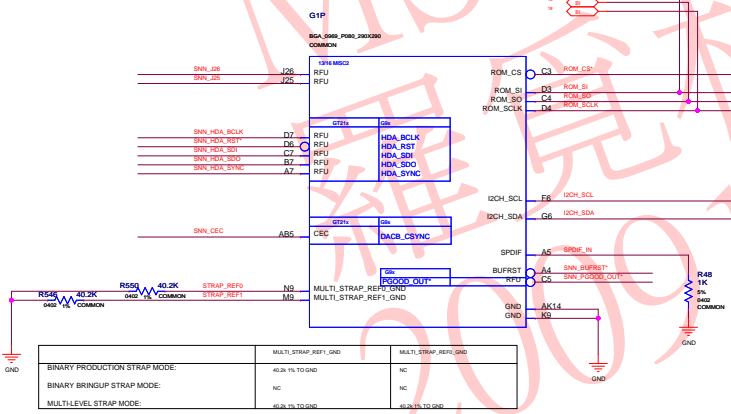
STRAPPING OPTIONS



Strap0	USER(0)	ECID: 1111	45x PU
Strap1	3540_PADCFG2[0]	DESKTOP: 0000	5x PD
Strap2	PCI_DEVICE[0]	GT16:000:0A21:0001	10x PD
ROM_SI	RANKCFG2[0]	0001: 128M 64Mx16 DQ03 Omicron 0010: 128M 64Mx16 DQ03 Hynix 0011: 128M 64Mx16 DQ03 Samsung 0101: 128M 128Mx16 DQ03 Omicron 0110: 128M 128Mx16 DQ03 Hynix 0111: 128M 128Mx16 DQ03 Samsung	1001: 64M 64Mx16 DQ03 Omicron 1010: 64M 64Mx16 DQ03 Hynix 1011: 64M 64Mx16 DQ03 Samsung 1101: 64M 128Mx16 DQ03 Omicron 1110: 64M 128Mx16 DQ03 Hynix 1111: 64M 128Mx16 DQ03 Samsung
ROM_SCLK	2: PCI_DEVICE_EXT 2: SUB_VENDOR (1 = BIOS not present) 1: SCLT_CLK_CFG2 (1 = common on MCHPCP) 0: PCI_CLK_IN_100MHz (0 = enable of bus)	0100	30x PD
ROM_SD	3: XUX_417 (0 = POR 277MHz) 2: FR_0_SAR_SIZE (0 = POR 32MB) 1: SDR_ACT_ADRS (0 = 0x0000, 1 = 0x0001) 0: VGA_DEVICE (0 = 0x00, 1 = 0x01 VGA device)	0000	5x PD

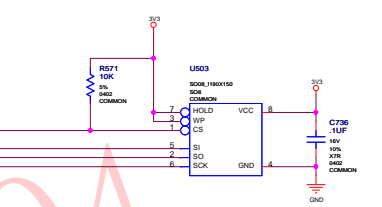
0 PD 5x
1 PD 10x
2 PD 10x
3 PD 20x
4 PD 20x
5 PD 30x
6 PD 30x
7 PD 45x

8 PD 5x
9 PD 10x
10 PD 10x
11 PD 20x
12 PD 20x
13 PD 30x
14 PD 30x
15 PD 45x

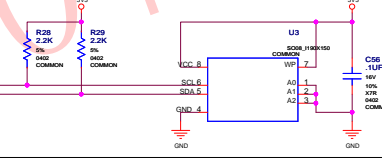


	MULTI_STRAP_REFP_GND	MULTI_STRAP_REFN_GND
BINARY PRODUCTION STRAP MODE:	40x 1% TO GND	NC
BINARY BRINGUP STRAP MODE:	NC	NC
MULTILEVEL STRAP MODE:	0.0A 1% TO GND	0.0A 1% TO GND

BIOS ROM(serial)



HDCP I2C EEROM



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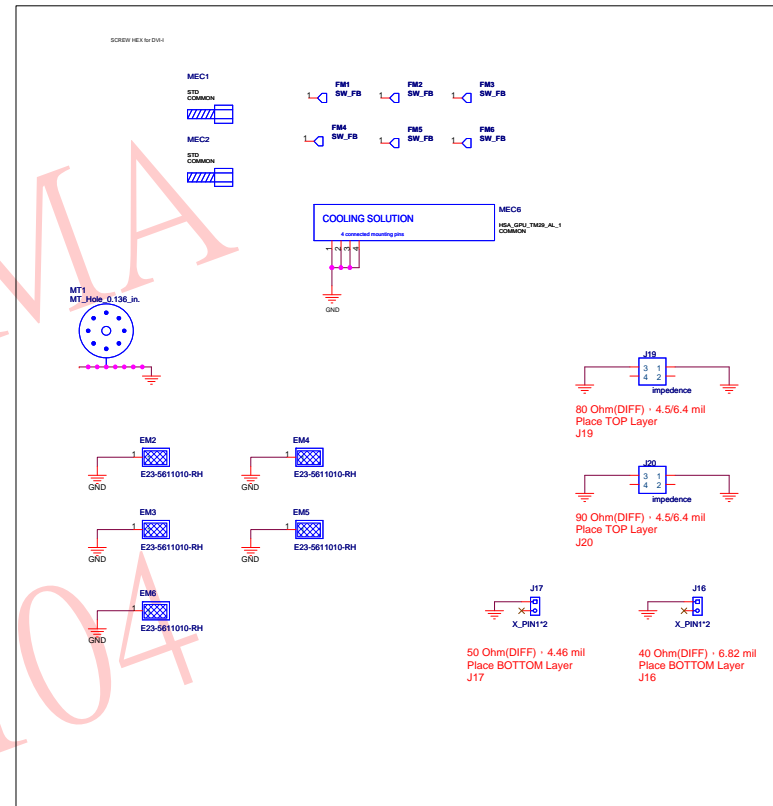
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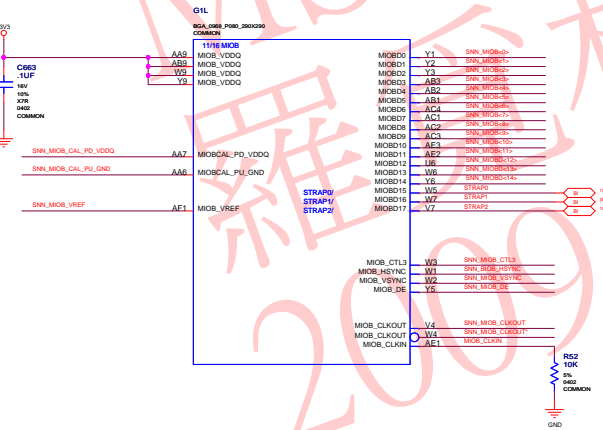
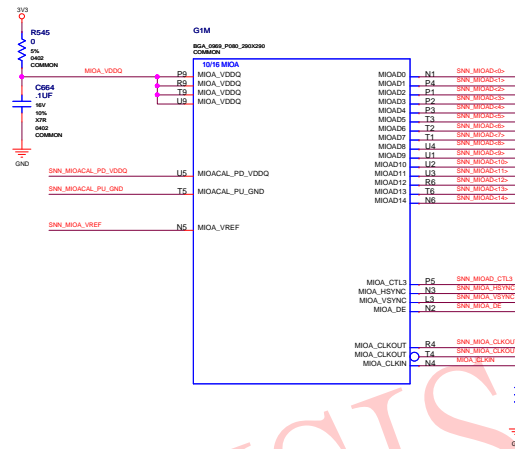
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PAGE DETAIL	XTAL, MECHANICALS, THERMALS

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MIOA & MIOB



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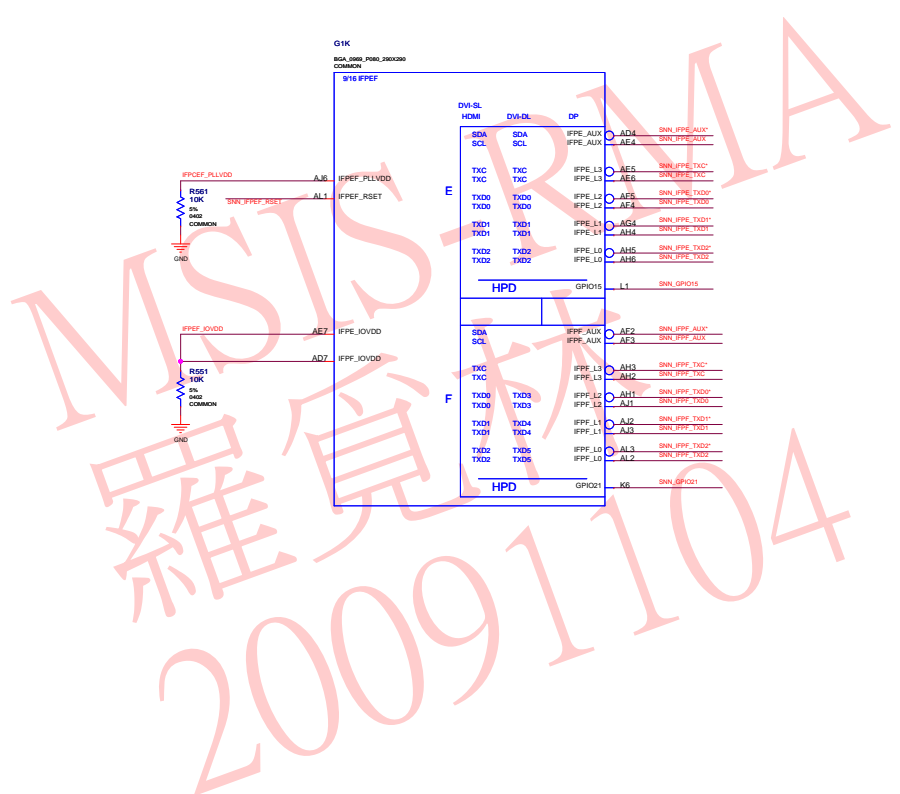
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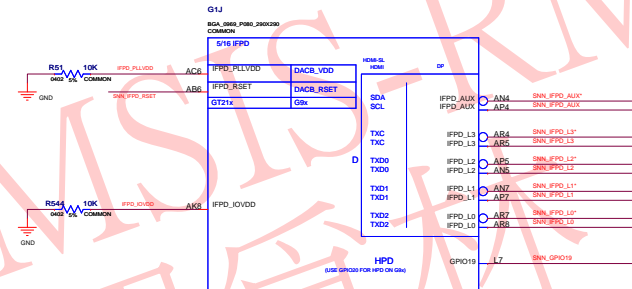
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IFP D (UNUSED)



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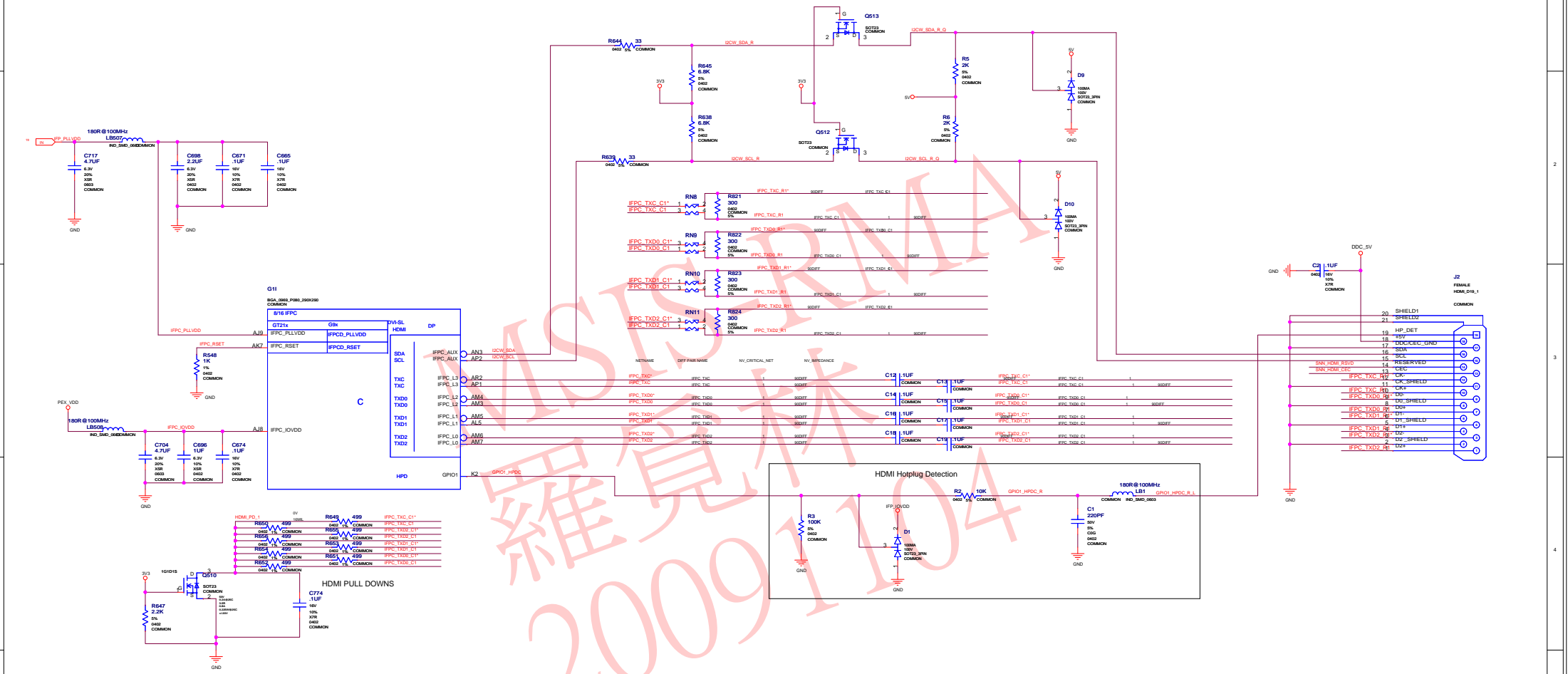


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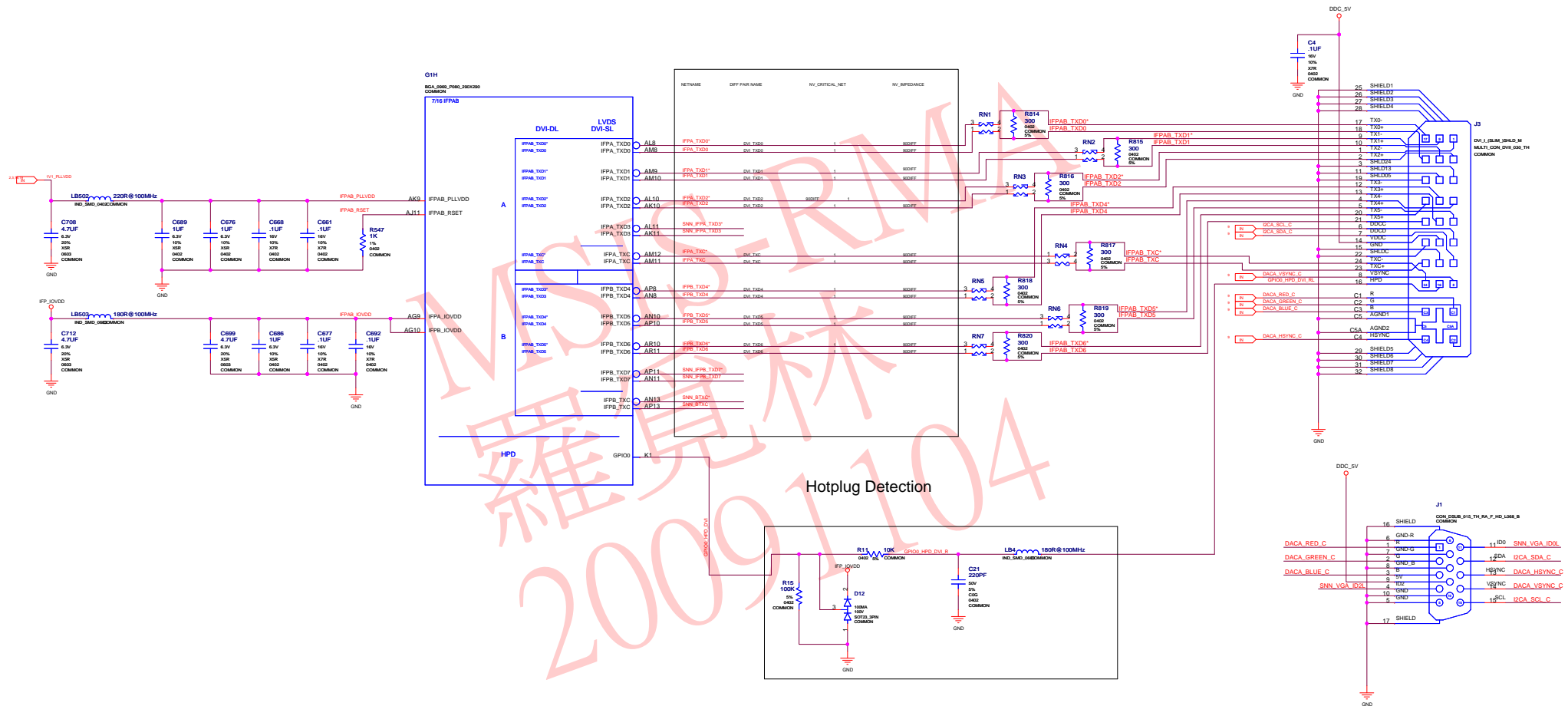
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IFP C (NORTH HDMI)



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IFP AB (SOUTH DVI-I)



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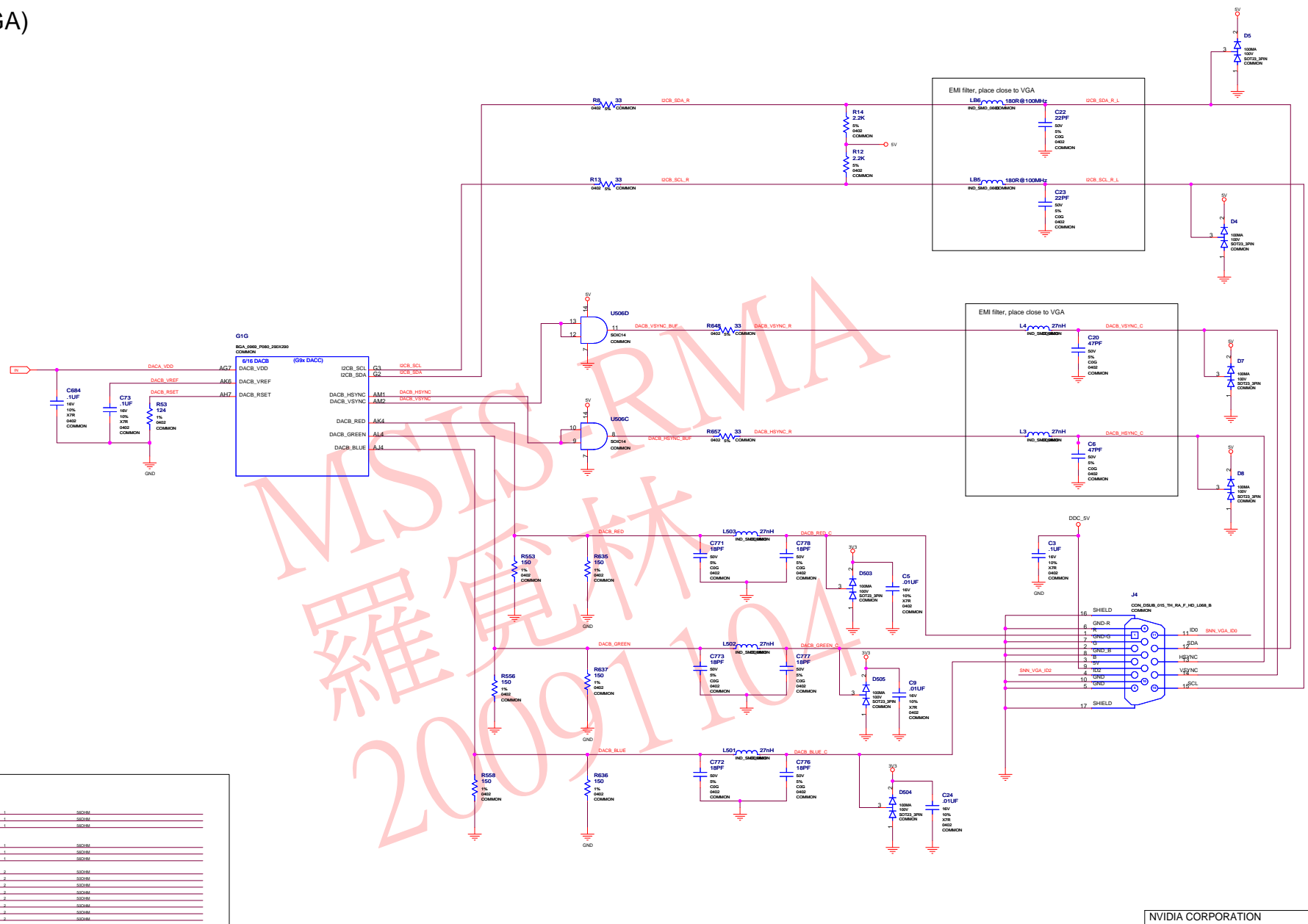


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DACB (MID VGA)



W	DNAB RED	1	50000
B	DNAB GREEN	1	50000
R	DNAB BLUE	1	50000
W	DNAB RED_C	1	50000
B	DNAB GREEN_C	1	50000
R	DNAB BLUE_C	1	50000
W	DNAB HISTINC	2	50000
B	DNAB HISTINC	2	50000
R	DNAB HISTINC	2	50000
W	DNAB HISTINC_B	2	50000
B	DNAB HISTINC_B	2	50000
R	DNAB HISTINC_B	2	50000
W	DNAB HISTINC_BUP	2	50000
B	DNAB HISTINC_BUP	2	50000
R	DNAB HISTINC_BUP	2	50000
W	DNAB HISTINC_C	2	50000
B	DNAB HISTINC_C	2	50000
R	DNAB HISTINC_C	2	50000

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

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NV_PN	600-10681-base-100 A
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P681-A01 GT215/216 DESKTOP GB1-128 DDR3

PCI-EXPRESSx16 DL-DVI VGA HDMI

Page 1: P681-A01 OVERVIEW

Page 2: PCI-EXPRESS INTERFACE

Page 3: PARTITION A FRAME BUFFER INTERFACE

Page 4: PARTITION A MEMORIES

Page 5: FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

Page 6: PARTITION C FRAME BUFFER INTERFACE

Page 7: PARTITION C MEMORIES

Page 8: FBC DECOUPLING CAPS

Page 9: DACA (SOUTH DVI-I)

Page 10: DACB (MID VGA)

Page 11: IFP AB (SOUTH DVI-I)

Page 12: IFP C (NORTH HDMI)

Page 13: IFP D (UNUSED)

Page 14: IFP EF (UNUSED)

Page 15: MIOA & MIOB

Page 16: XTAL, MECHANICALS, THERMALS

Page 17: EXTERNAL THERMAL SENSOR, FAN CONTROL, GPIO, JTAG

Page 18: BIOS ROM, HDCP ROM, STRAPPING OPTIONS

Page 19: LINEAR POWER SUPPLIES

Page 20: FBVDDQ/PEXVDD POWER SUPPLY

Page 21: NVVDD POWER SUPPLY

V199 For Lenovo Schematic Change List 2009/03/31 by STEVEN CHANG

- Page 2: Remove JTAG Component
- Page 10: Move J1 D-SUB Connector to Page 11
- Page 11: Add Slim Type D-SUB Connector
- Page 17: Remove JTAG Connector
- Page 19: Remove IFP_PLLVDD SUPPLY LDO IC
- Page 19: Add UP7706 LDO to Change PEX_VDD Power Supply
- Page 19: Change AP1117 LDO External Schematic Design
- Page 20: Change UP6161 PWM IC to use
UP6101 PWM IC Solution For FBVDDQ Power Supply
- Page 20: Change UP6210 PWM IC to use
RT9232 PWM IC Solution For NVVDD Power Supply
- Page 20: Remove NVVDD SENSE Net

REV	VARIANT	NVPN	ASSEMBLY
0	BASE	600-10681-base-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU001	600-10681-0001-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/VGA/HDMI
2	SKU002	600-10681-0002-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 1000MHz DDR3 DVI-I/VGA/HDMI
3	SKU011	600-10681-0011-100	GT215-300 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/VGA/HDMI
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13	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
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Title: RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6		Date: Tuesday, June 02, 2009 Sheet 13 of 24 Rev 0	
Doc No: 105-8665xx-00A			

CORE REGULATOR NVVDD

