

P1071: GF108, 1024MB x16 DDR3, DVI+HDMI+VGA

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- V230-4.0

1.Base on P1071-A01 sku2 to modify

2.Page 10 add EMI bridge resistor

3.Page 11 add EMI bridge resistor ,removed DP

4.Page 13 Removed JTAG.INFOROM

5.Page 14 Removed 4pin fan circuit

6.Page 15 a.12V₁₂₅5V change to RC1117

b.FBVDD₁₂₅PEXVDD change to UP7706

c. Removed 3V3_FUSE

7.Page 16 change L2 to green choke

8.Page 17 change power solution to UP6205 and add UP6262
- V230-6.0

1.Base on V230-4.0 to modify

2.Page 5 add FBA_VREF1

3.Page 11 HDMI change to DIP

4.Page 15 a.FBVDD₁₂₅PEXVDD change to RT9025

5..Page 17 change power solution to RT8120BGSP
- V230-7.0

1.Base on V230-6.0 to modify

2.Page 4 Add TERMINATION OPTION FOR 8 LOAD CMD LINE

3.Page 5&6 change to DDR2 32x16

4.Page 7 cost down MLCC

5.Page 17 MOS change to J2 J3

del 12V input choke · co-lay EC

del ouput choke&EC co-lay

Add 6262 circuit

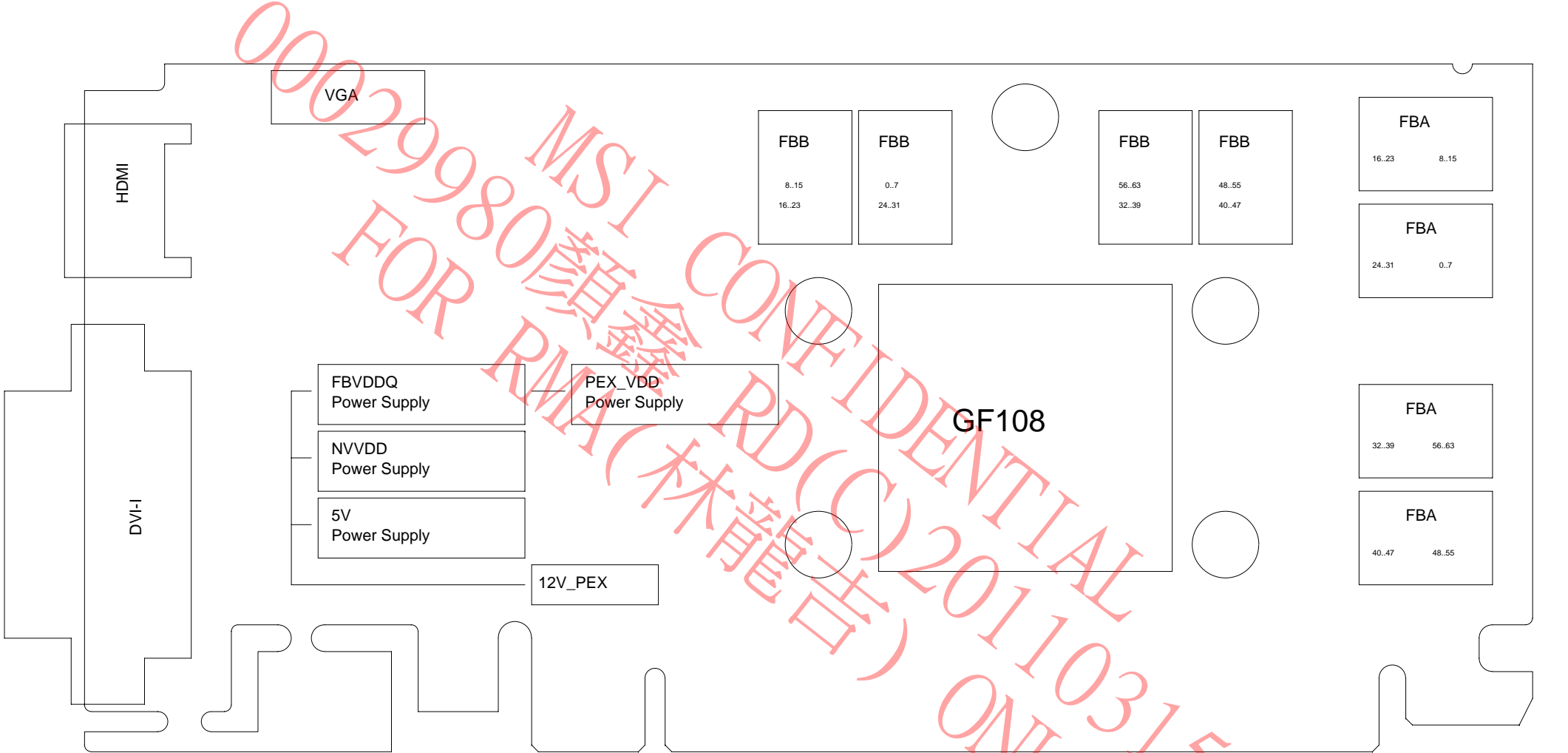
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1	SKU0001	600-11071-0001-100	GF108-300-A1 625/1250/900MHz 1024MB/128MB DDR3, DVI-DL+HDMI+VGA
2	SKU0002	600-11071-0002-100	GF108-300-A1 650/1300/900MHz 1024MB/128MB DDR3, DVI-DL+HDMI+VGA
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PAGE DETAIL	Overview

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Block Diagram

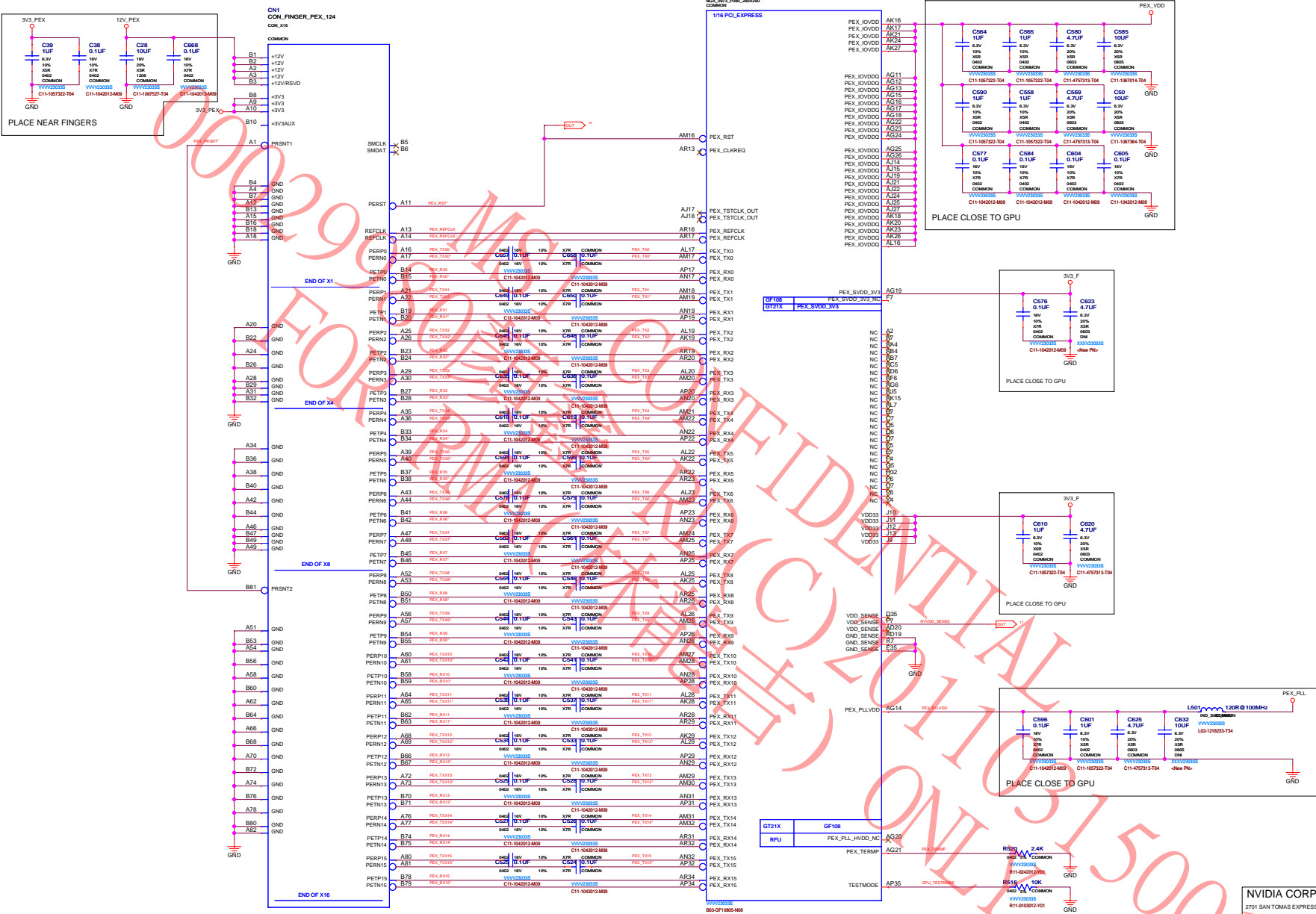


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PCI Express Interface

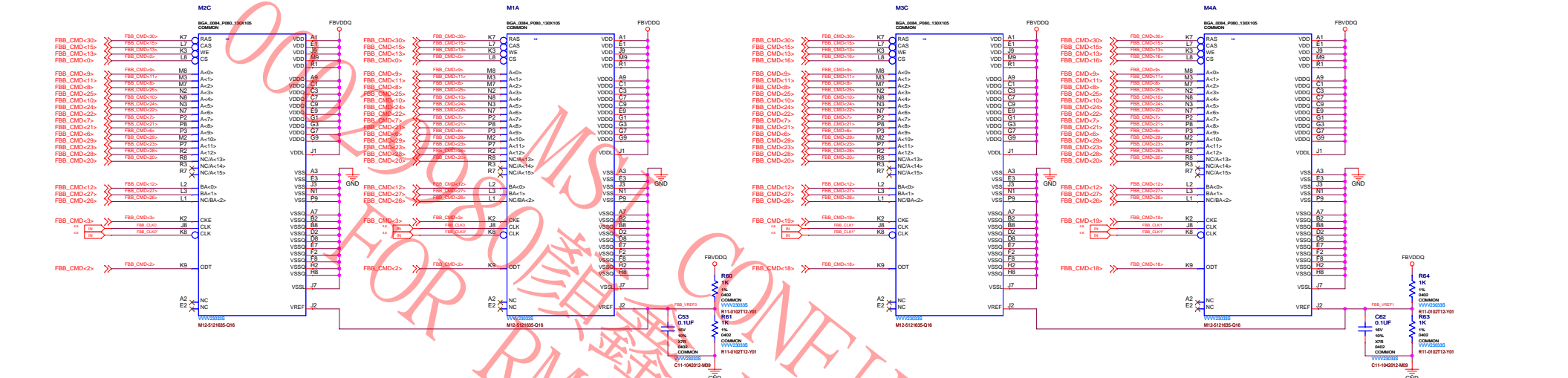


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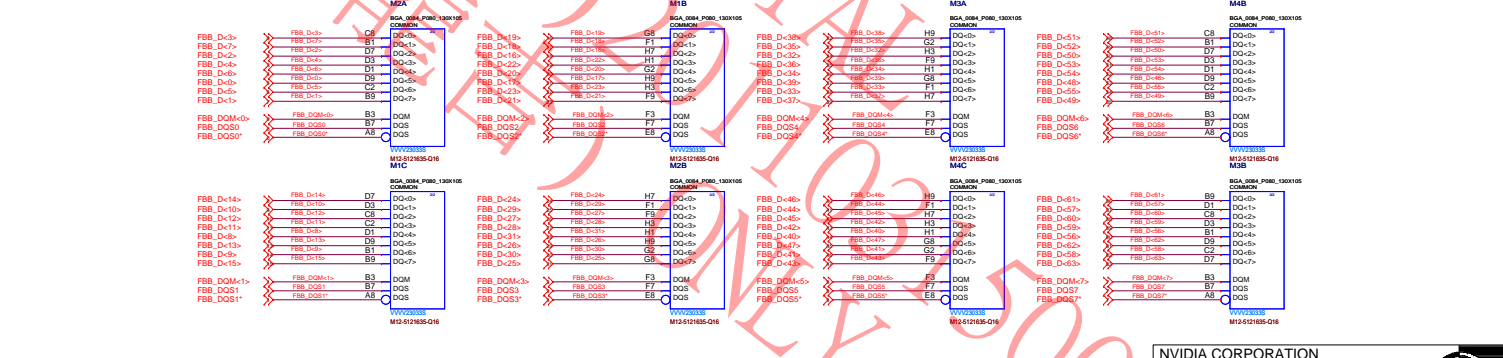
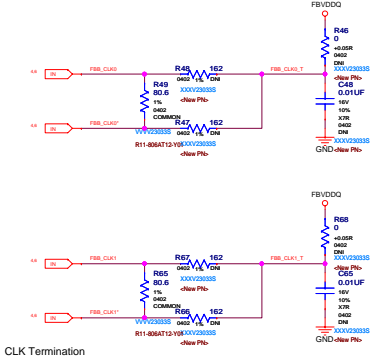
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FBB Partition



CMD Mapping		
CMD	<0-31>	<32-63>
CM00	CS0*	
CM01	CS0*	
CM02	CS0*	
CM03	CS0*	
CM04	CS0*	
CM05	CS0*	
CM06	CS0*	
CM07	CS0*	
CM08	CS0*	
CM09	CS0*	
CM10	CS0*	
CM11	CS0*	
CM12	CS0*	
CM13	CS0*	
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CM96	CS0*	
CM97	CS0*	
CM98	CS0*	
CM99	CS0*	
CM100	CS0*	



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PAGE DETAIL		FBB Partition	

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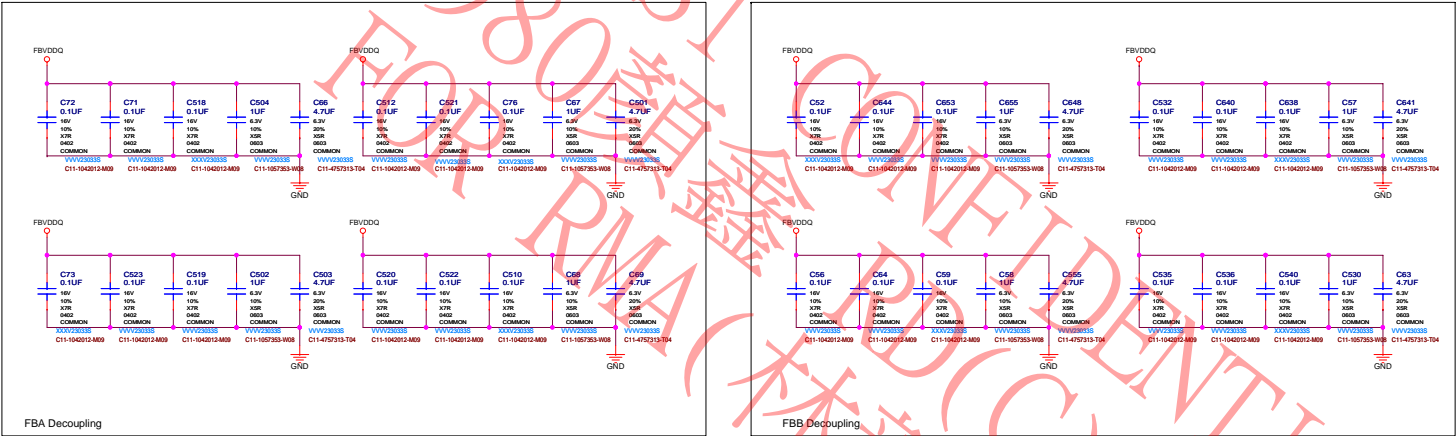
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MS7S(Andy)

Memory Decoupling

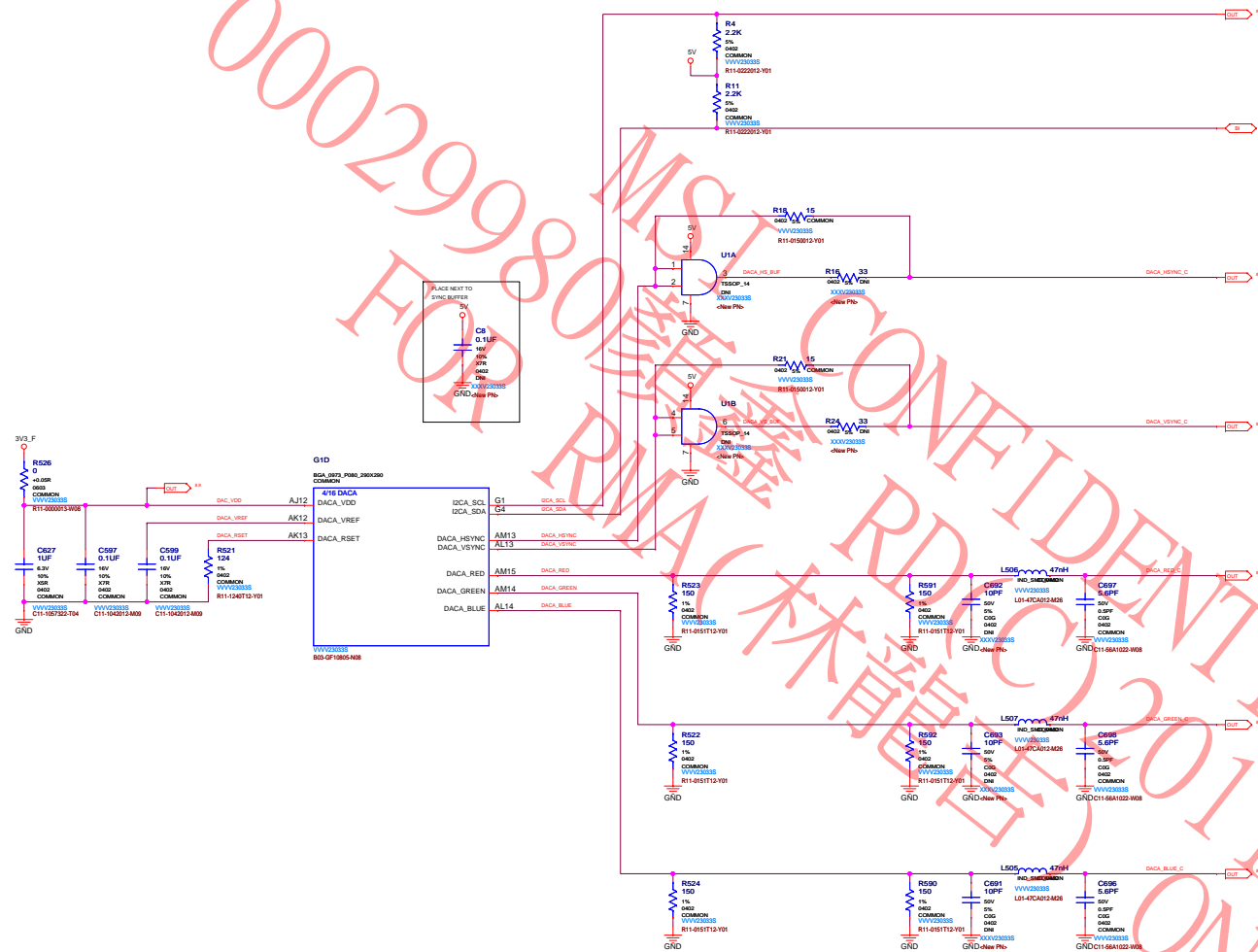


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DACA VGA



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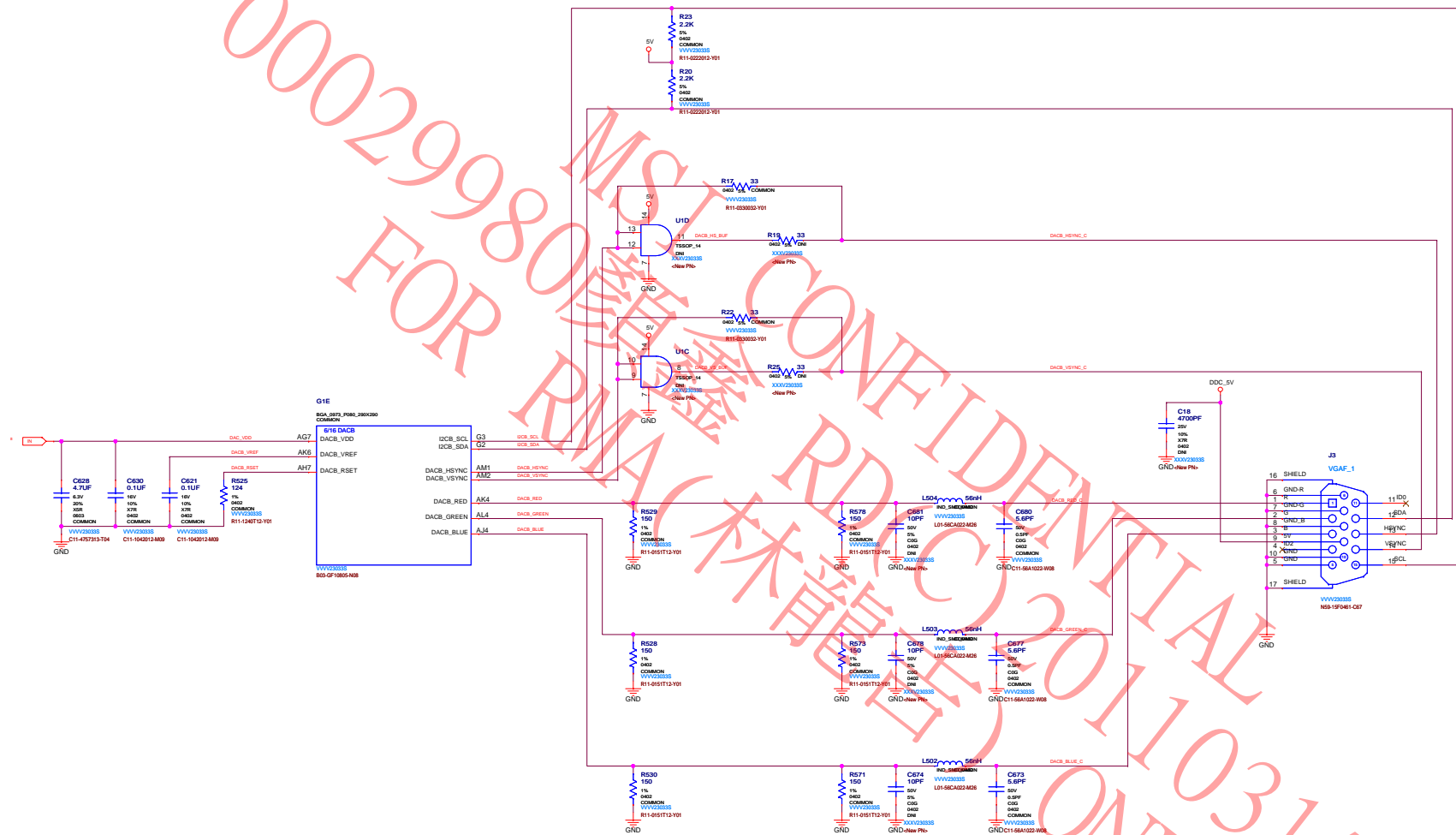
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DACB VGA Header



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PAGE DETAIL	DACB VGA Header

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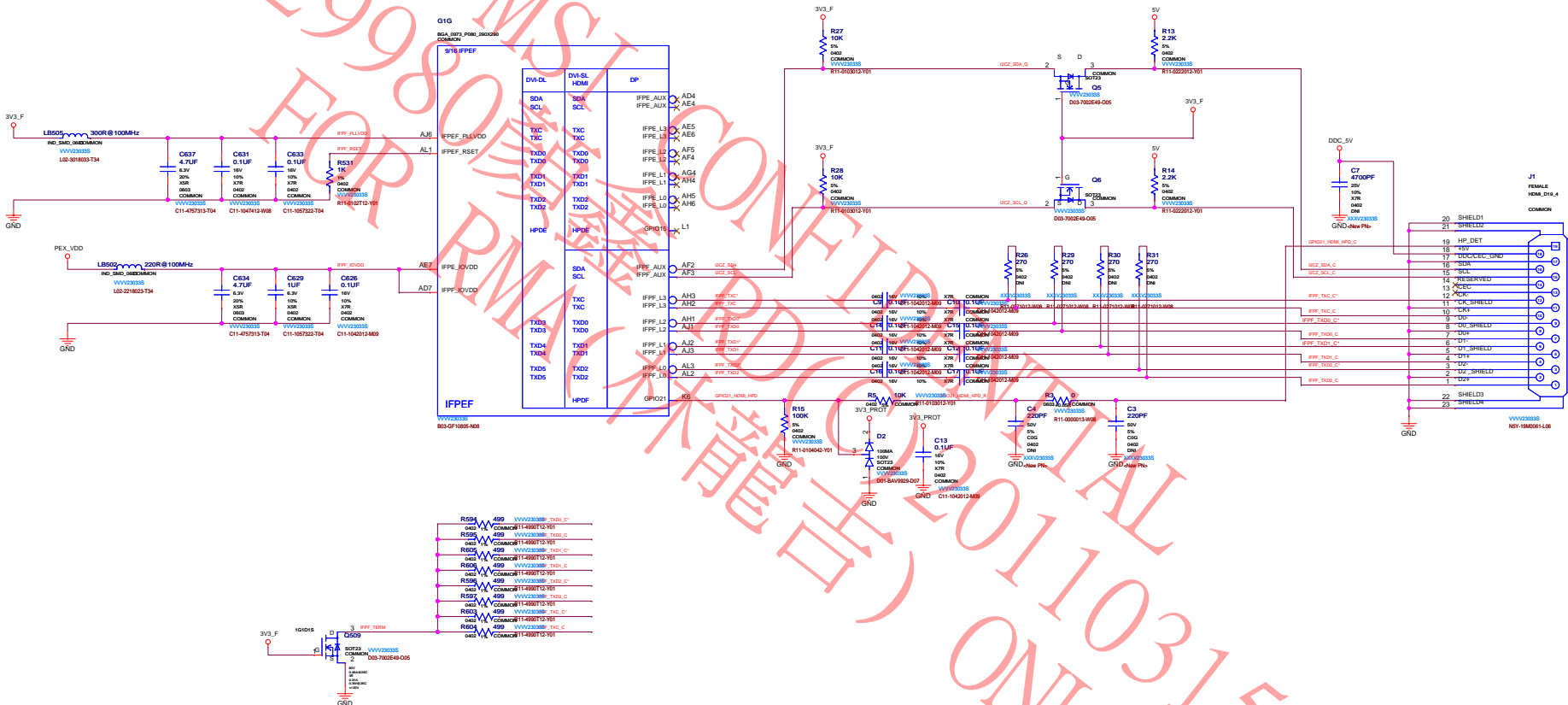
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HDMI Interface



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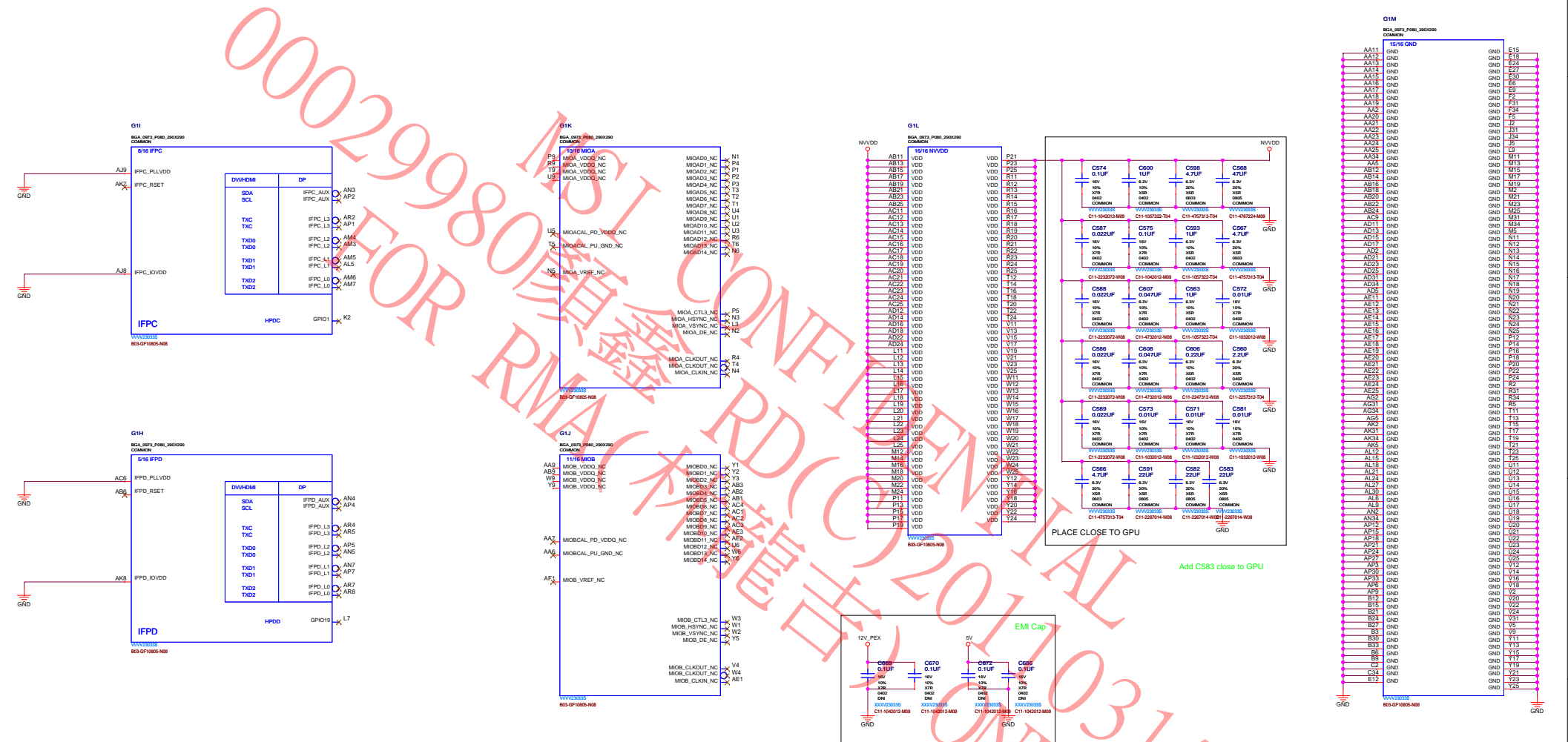
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Unused Interfaces, NVVDD Decoupling

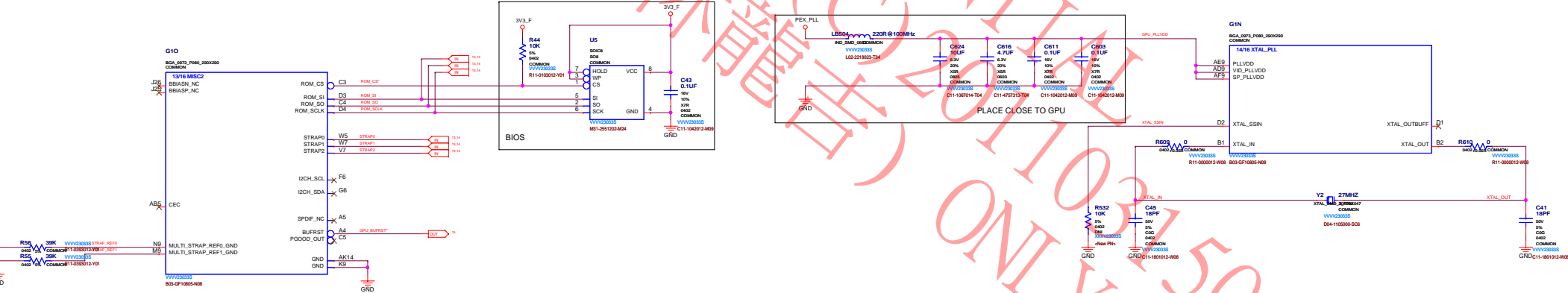
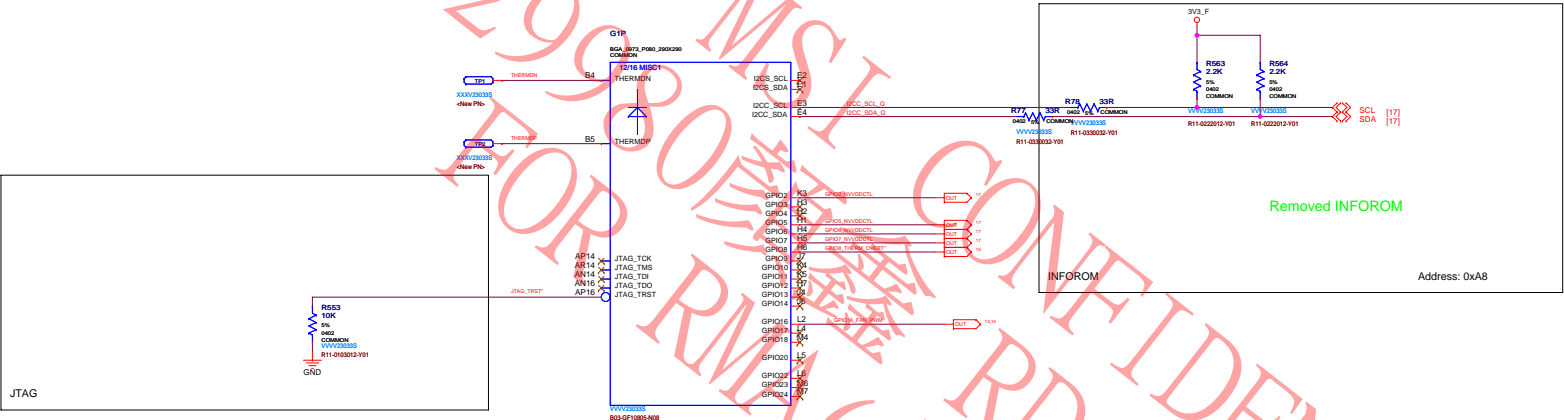


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XTAL, ROM, JTAG, Misc

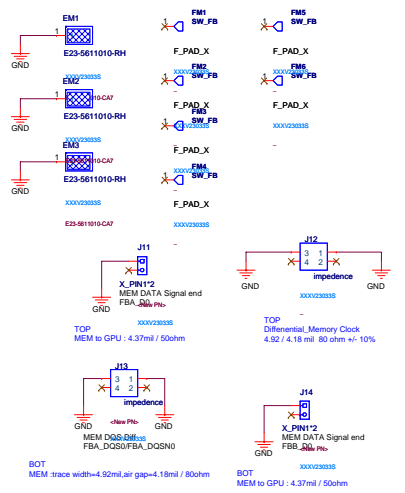
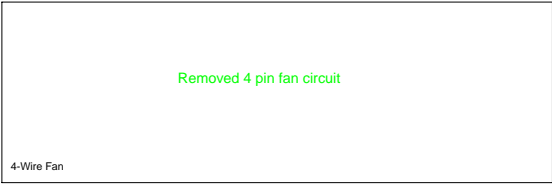
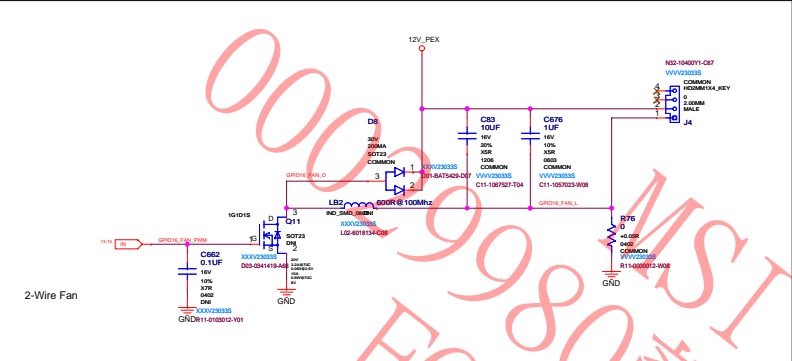


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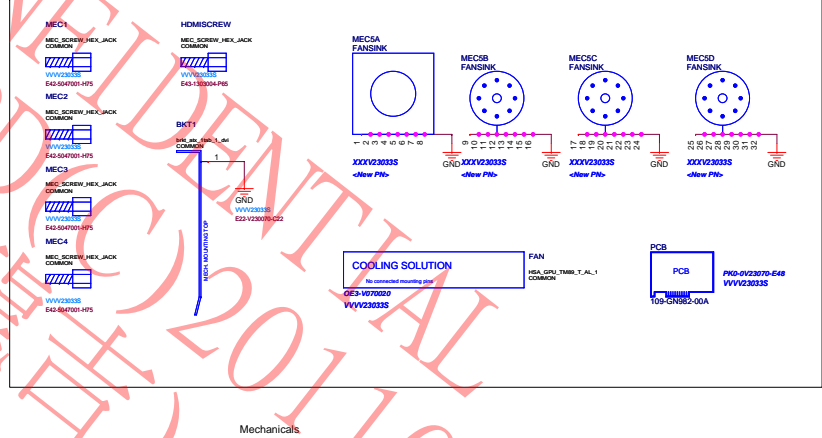
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Straps, Thermal, Mechanical



GF108 Straps

Bit Signal	Values
00 RAMCFG0	0000 10000
01 RAMCFG1	0001 10000
02 RAMCFG2	0010 10000
03 RAMCFG3	0011 10000
04 RAMCFG4	0100 10000
05 RAMCFG5	0101 10000
06 RAMCFG6	0110 10000
07 RAMCFG7	0111 10000
08 RAMCFG8	1000 10000
09 RAMCFG9	1001 10000
10 RAMCFG10	1010 10000
11 RAMCFG11	1011 10000
12 RAMCFG12	1100 10000
13 RAMCFG13	1101 10000
14 RAMCFG14	1110 10000
15 RAMCFG15	1111 10000
16 RAMCFG16	0000 10000
17 RAMCFG17	0001 10000
18 RAMCFG18	0010 10000
19 RAMCFG19	0011 10000
20 RAMCFG20	0100 10000
21 RAMCFG21	0101 10000
22 RAMCFG22	0110 10000
23 RAMCFG23	0111 10000
24 RAMCFG24	1000 10000
25 RAMCFG25	1001 10000
26 RAMCFG26	1010 10000
27 RAMCFG27	1011 10000
28 RAMCFG28	1100 10000
29 RAMCFG29	1101 10000
30 RAMCFG30	1110 10000
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62 RAMCFG62	1110 10000
63 RAMCFG63	1111 10000
64 RAMCFG64	0000 10000
65 RAMCFG65	0001 10000
66 RAMCFG66	0010 10000
67 RAMCFG67	0011 10000
68 RAMCFG68	0100 10000
69 RAMCFG69	0101 10000
70 RAMCFG70	0110 10000
71 RAMCFG71	0111 10000
72 RAMCFG72	1000 10000
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97 RAMCFG97	0001 10000
98 RAMCFG98	0010 10000
99 RAMCFG99	0011 10000
100 RAMCFG100	0100 10000
101 RAMCFG101	0101 10000
102 RAMCFG102	0110 10000
103 RAMCFG103	0111 10000
104 RAMCFG104	1000 10000
105 RAMCFG105	1001 10000
106 RAMCFG106	1010 10000
107 RAMCFG107	1011 10000
108 RAMCFG108	1100 10000
109 RAMCFG109	1101 10000
110 RAMCFG110	1110 10000
111 RAMCFG111	1111 10000



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DATE

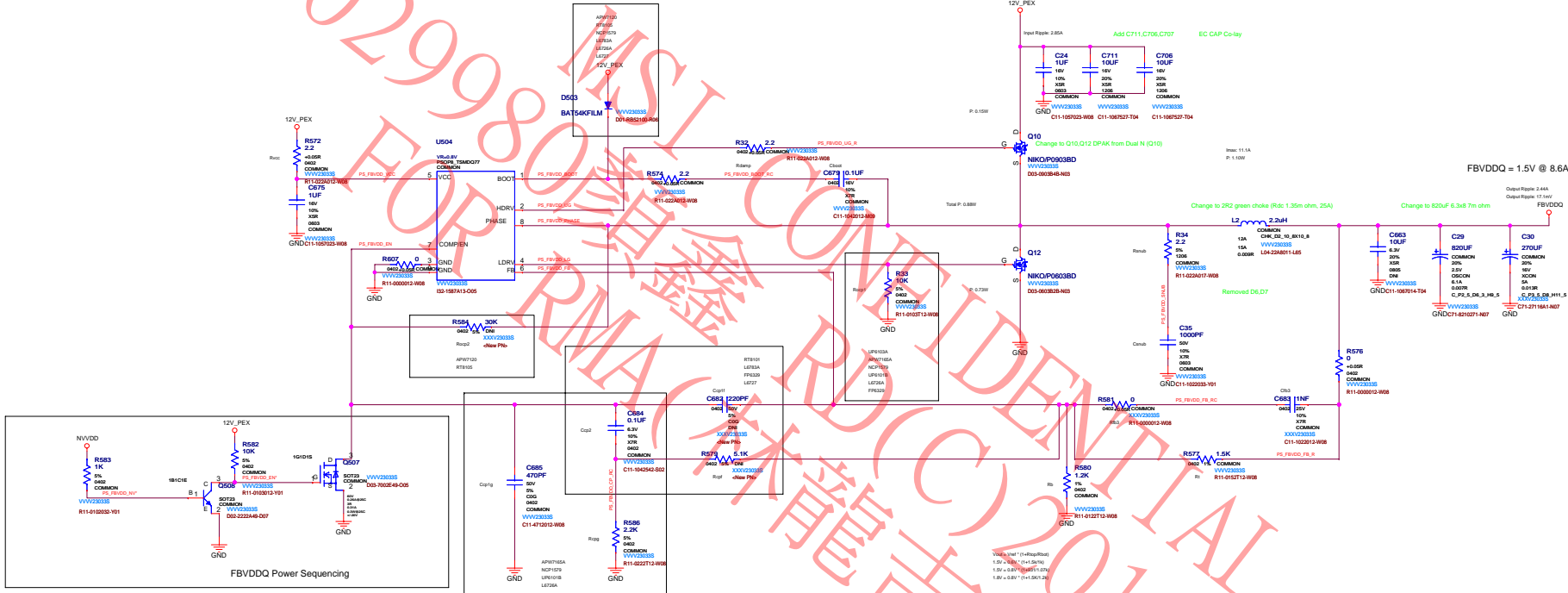
01-APR-2010

MSJS(Andy)



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Power Supply II: FBVDDQ



PS	Freq
UP6103A	300kHz
APW1320	300kHz
APW105A	300kHz
RT8195	300kHz
NCP1579	275kHz
RT8101	300kHz
UP6101B	300kHz
LE783A	300kHz
LE726A	270kHz
FP6329	300kHz
LE727	300kHz

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA



NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOM REV	A	DATE	01-APR-2010

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A		B		C		D		E		F		G		H	
Title: Baseline Report Design: 11071_A01 Date: Mar 31 14:19:50 2010 Base nms and synonyms for: 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)	
1 2 3 4 5		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)	
6		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)		5.3F FBA_CMD02b 4.4C 5.2A 5.2C 5.2E 5.3F FBA_CMD03b 4.4C 5.1A 5.1C 5.1E 5.1F FBA_D01 4.1A 5.4D 11071_A01 (P1071_A01) (A01) (B01) (P1071_A01) (B01) 1071_A01 (nms_13) Base SVF Location (2mm) (60)	

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