

P691: G98/GT218, DDR2 MEMORY 64MX16/32MX16

Page 1: P691 Overview

Page 2: PCI Express Interface

Page 3: Frame Buffer Interface

Page 4: DDR2 Memories

Page 5: DAC A Slim VGA

Page 6: DAC B VGA Header

Page 7: TMDS Interface

Page 8: DisplayPort Connector

Page 9: IFPC, IFPE Interface, Mechanical, SPDIF

Page 10: XTAL, ROM, JTAG

Page 11: Thermal Protection, Protected 3V3, Straps

Page 12: Power Supply I: FBVDD/Q, PEX\_VDD, 5V, 3V3\_F

Page 13: Power Supply II: PEX\_PLLVDD, NVVDD

REV	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10691-BASE-100	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-10691-0001-100	GT218-300, 550/1375/500, 256MB/4GB, 32Mx16 DDR2, DVI-DL+DP+VGA, DT
2	SKU0002	600-10691-0002-100	GT218-300, 550/1375/500, 512MB/4GB, 64Mx16 DDR2, DVI-DL+DP+VGA, DT
3	SKU0010	600-10691-0010-100	G98-400, 550/1375/500, 256MB/4GB, 32Mx16 DDR2, DVI-DL+DP+VGA, DT
4	SKU0011	600-10691-0011-100	G98-400, 550/1375/500, 512MB/4GB, 64Mx16 DDR2, DVI-DL+DP+VGA, DT
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	P691 Overview

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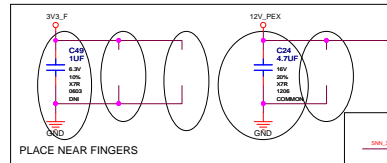
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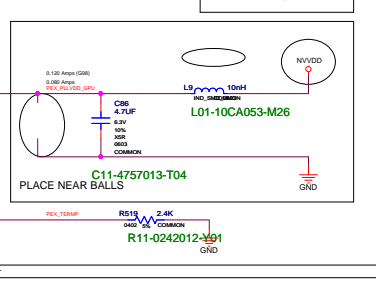
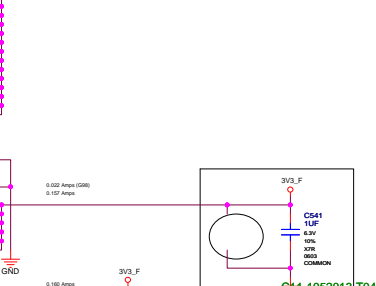
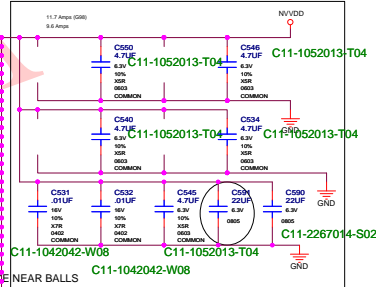
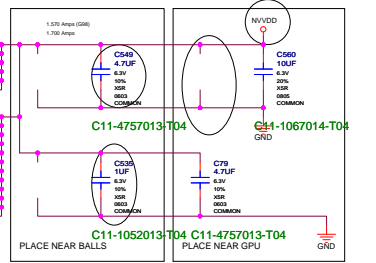
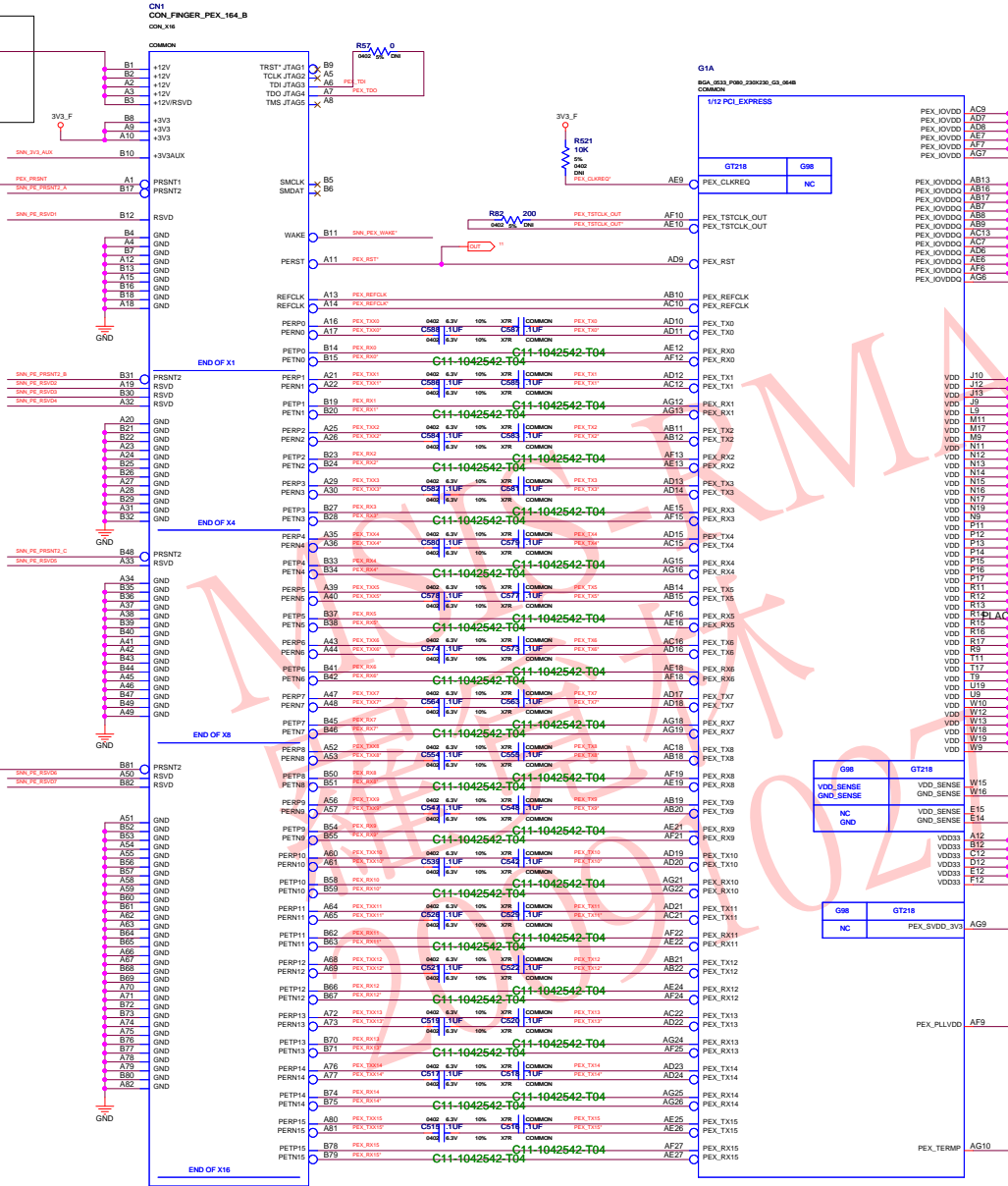
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NAME		DATE	05-FEB-2009

# PCI Express Interface



Net Name DIFF\_PAIR CRITICAL IMPEDANCE

Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
PEX_T00	PEX_T00	+	50OHM
PEX_T01	PEX_T01	+	50OHM
PEX_T02	PEX_T02	+	50OHM
PEX_T03	PEX_T03	+	50OHM
PEX_T04	PEX_T04	+	50OHM
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PEX_T07	PEX_T07	+	50OHM
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PEX_T99	PEX_T99	+	50OHM
PEX_T100	PEX_T100	+	50OHM



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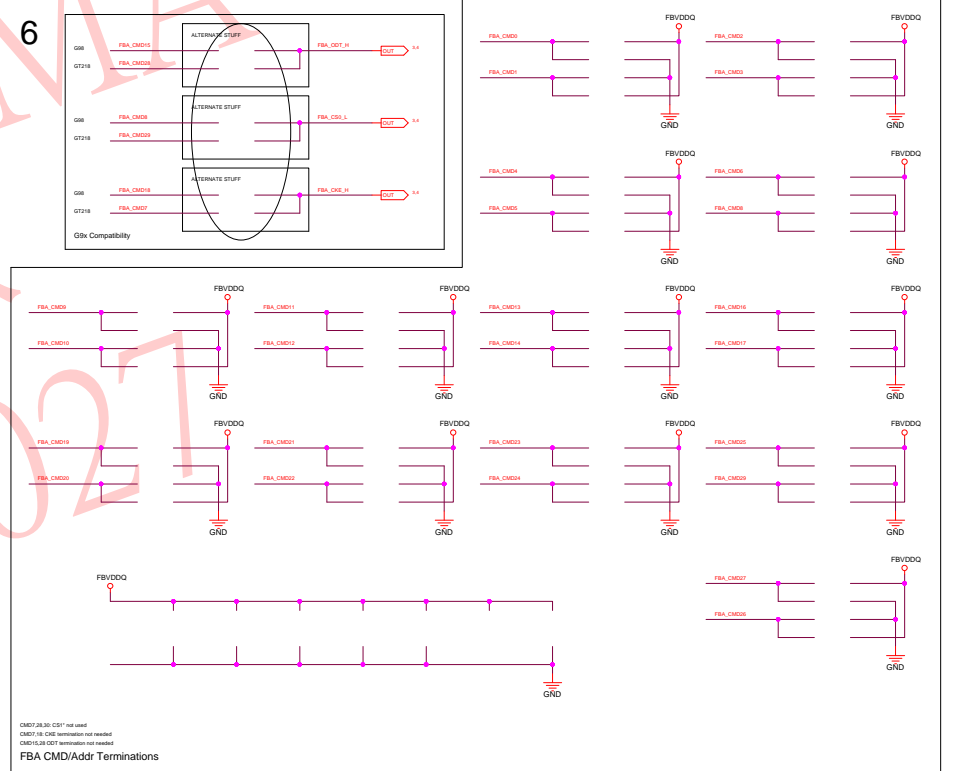
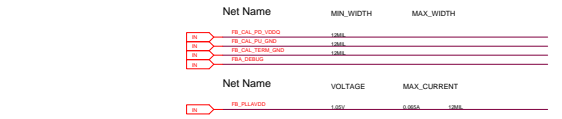
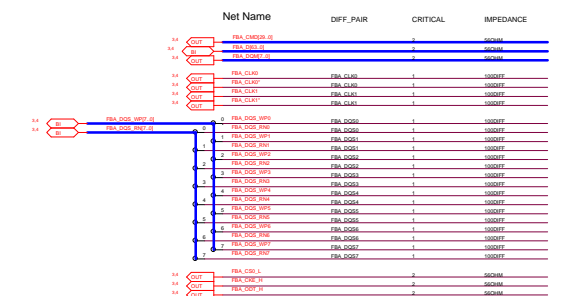
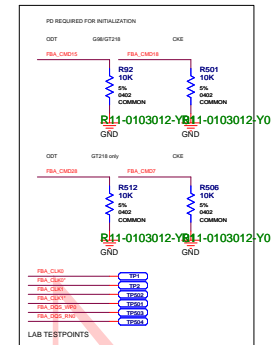
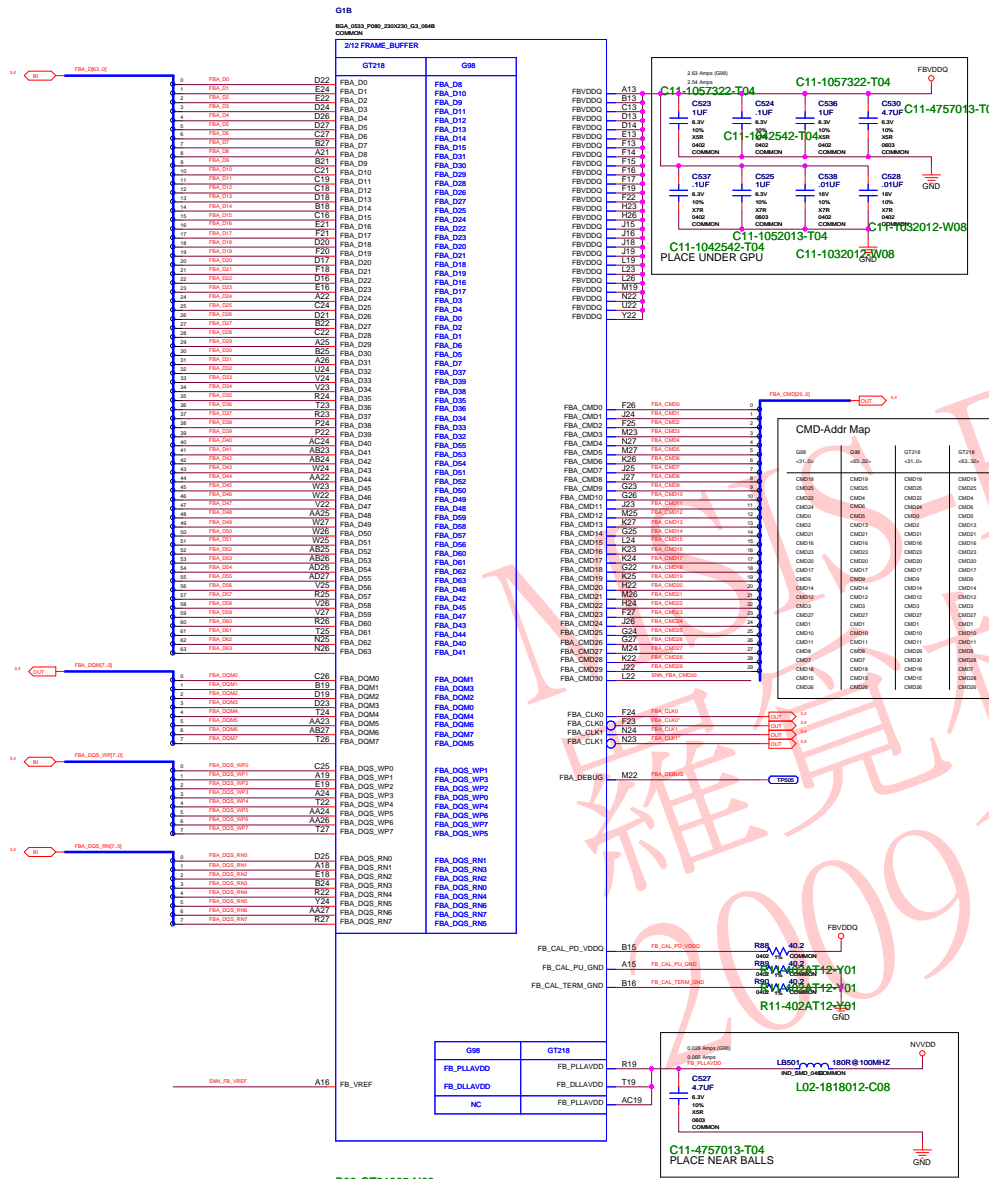
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## Frame Buffer Interface

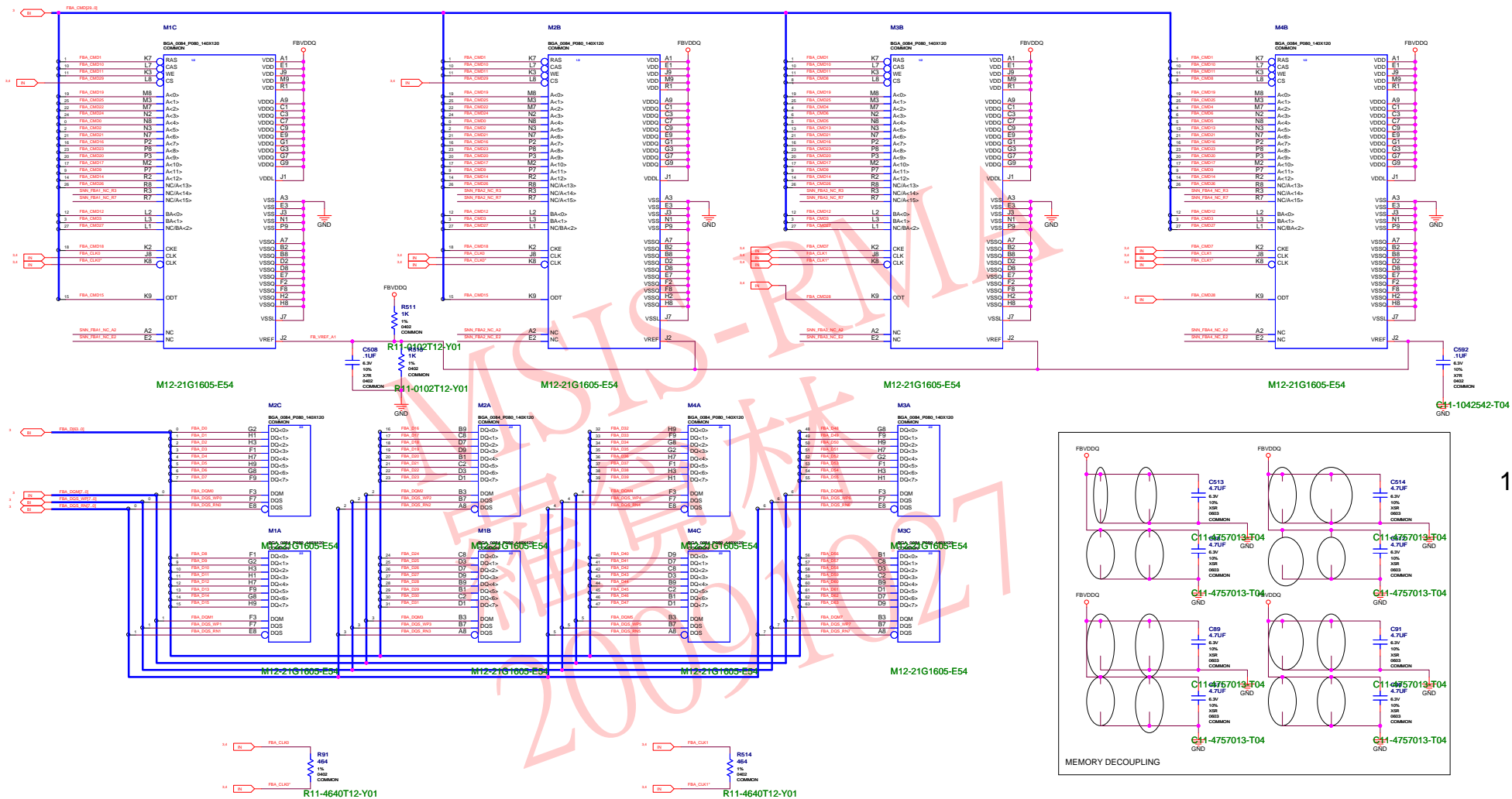


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## DDR2 Memories



16

## MEMORY DECOUPLING

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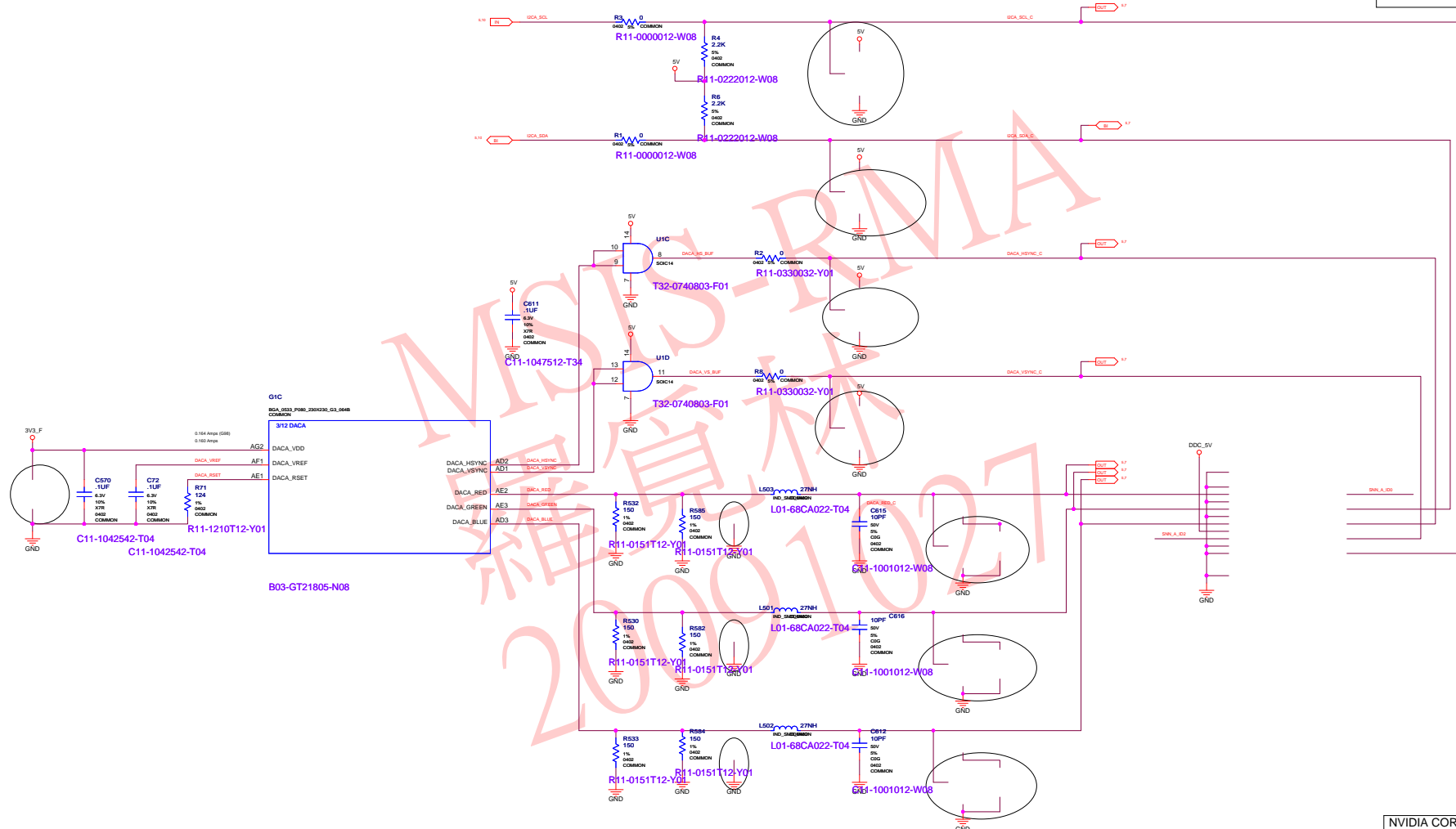
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PAGE DETAIL	DDR2 Memories

DDR2 Memory:

## DAC A Slim VGA

11



Net Name		CRITICAL	IMPEDANCE
6.7	IN ENCA_BEE	1	500000
	IN ENCA_BLUE	1	500000
	IN ENCA_GREEN	1	500000
	OUT ENCA_GREEN_E	1	500000
	OUT ENCA_BLUE_E	1	500000
6.7	IN ENCA_VENUE	2	500000
	IN ENCA_VENUE_B	2	500000
	IN ENCA_VENUE_D	2	500000
	OUT ENCA_VENUE_C	2	500000
	OUT ENCA_VENUE_E	2	500000

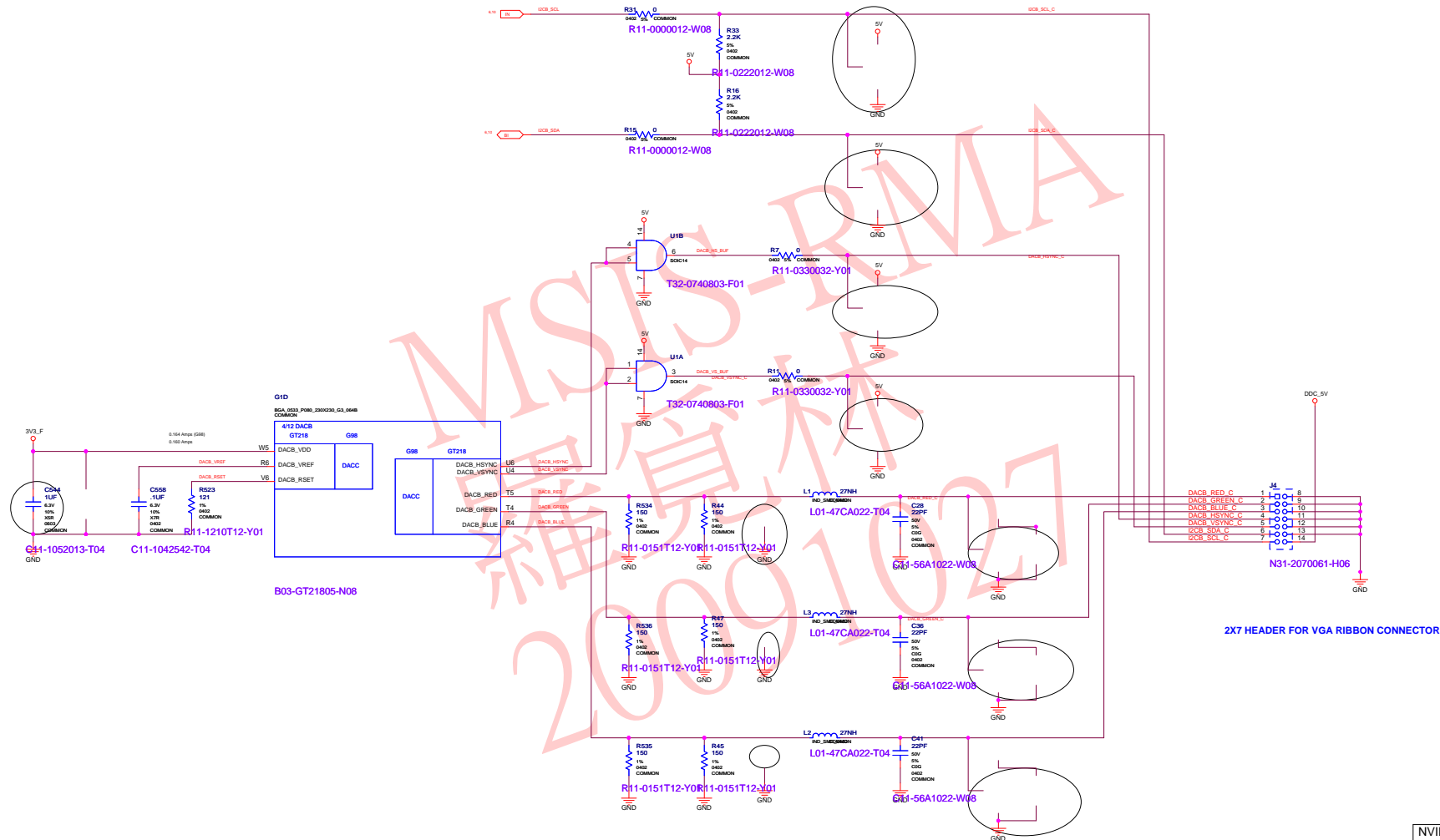
Net Name		MIN_WIDTH	MAX_WIDTH
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	IN ENCA_BLUE		
	IN ENCA_GREEN		
	OUT ENCA_GREEN_E		
6.7	IN ENCA_VENUE	<2000	
	IN ENCA_VENUE_B	<2000	
	IN ENCA_VENUE_D	<2000	
	OUT ENCA_VENUE_C	<2000	

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## DAC B VGA Header



Net Name		CRITICAL	IMPEDANCE
15	DACK_RED	1	50OHM
15	DACK_GREEN	1	50OHM
15	DACK_BLUE	1	50OHM
15	DACK_RED_0	1	50OHM
15	DACK_GREEN_0	1	50OHM
15	DACK_BLUE_0	1	50OHM
15	DACK_VHNC	2	50OHM
15	DACK_VHNC_0	2	50OHM
15	DACK_VHNC_1	2	50OHM
15	DACK_VH_0_BUF	2	50OHM
15	DACK_VH_1_BUF	2	50OHM
15	DACK_VH_2_BUF	2	50OHM
15	DACK_VH_3_BUF	2	50OHM

Net Name		MIN_WIDTH	MAX_WIDTH
0.10	NCB_S01		
0.10	NCB_S02		
0.10	NCB_S01_0		
0.10	NCB_S01_1		
0.10	NCB_V00F	120MIL	
0.10	NCB_S00F	120MIL	

11

### 2X7 HEADER FOR VGA RIBBON CONNECTOR

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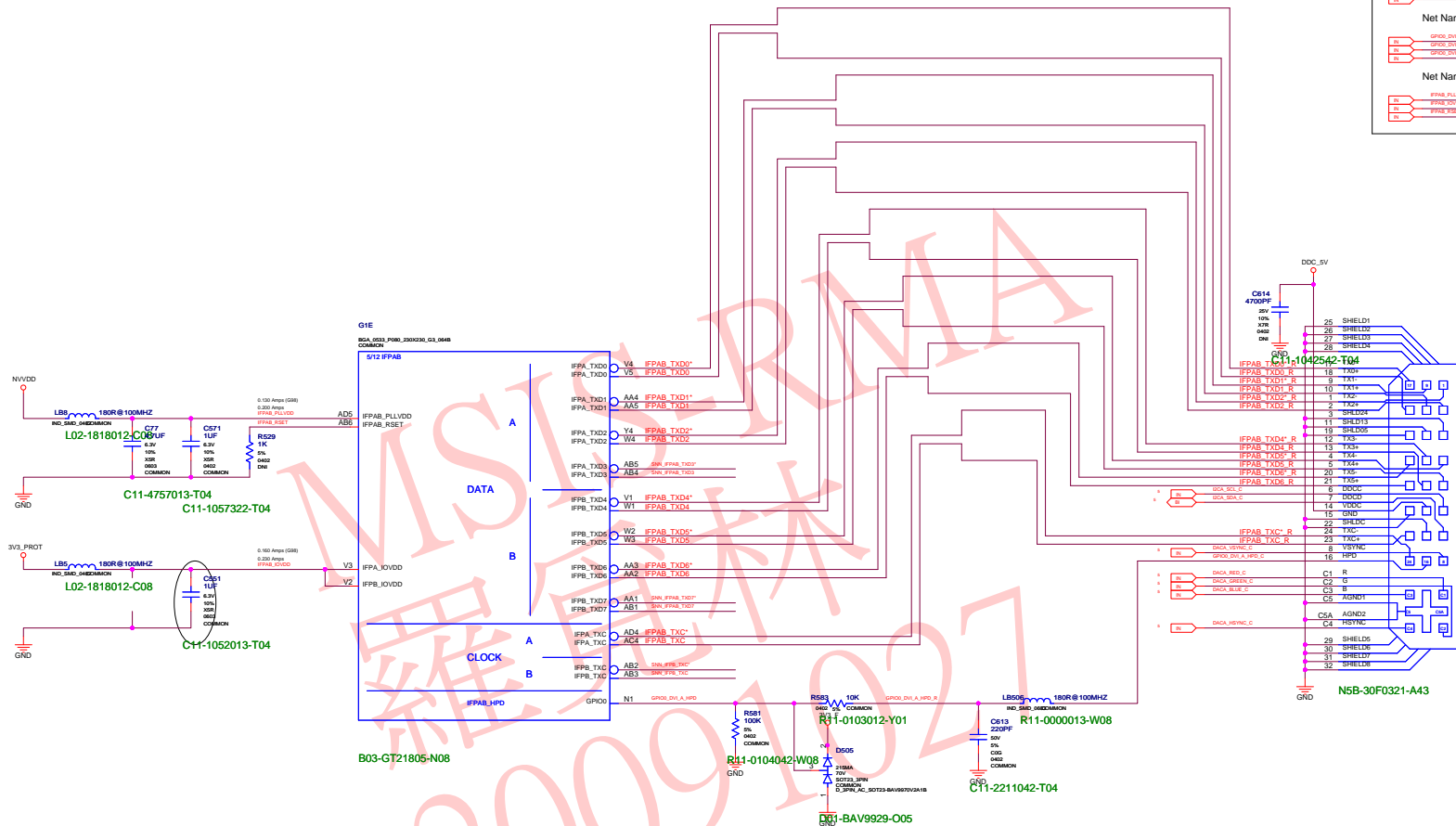
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PAGE DETAIL	DAC B VGA Header

## TMDS Interface



Net Name		DIFF_PAIR	CRITICAL	IMPEDANCE
N	FFNA_T001	FFNA_T002	1	100Ω
N	FFNA_T002	FFNA_T003	1	100Ω
N	FFNA_T003	FFNA_T004	1	100Ω
N	FFNA_T001	FFNA_T001	1	100Ω
N	FFNA_T002	FFNA_T002	1	100Ω
N	FFNA_T003	FFNA_T003	1	100Ω
N	FFNA_T004	FFNA_T004	1	100Ω
N	FFNA_T005	FFNA_T006	1	100Ω
N	FFNA_T005	FFNA_T005	1	100Ω
N	FFNA_T006	FFNA_T006	1	100Ω
N	FFNA_T007	FFNA_T008	1	100Ω
N	FFNA_T007	FFNA_T007	1	100Ω
N	FFNA_T008	FFNA_T008	1	100Ω
N	FFNA_T0C	FFNA_T0C	1	100Ω

Net Name		MIN_WIDTH	MAX_WIDTH
N	GP02_SV1_A_P02		
N	GP02_SV1_A_P02_X		
N	GP02_SV1_A_P02_C		

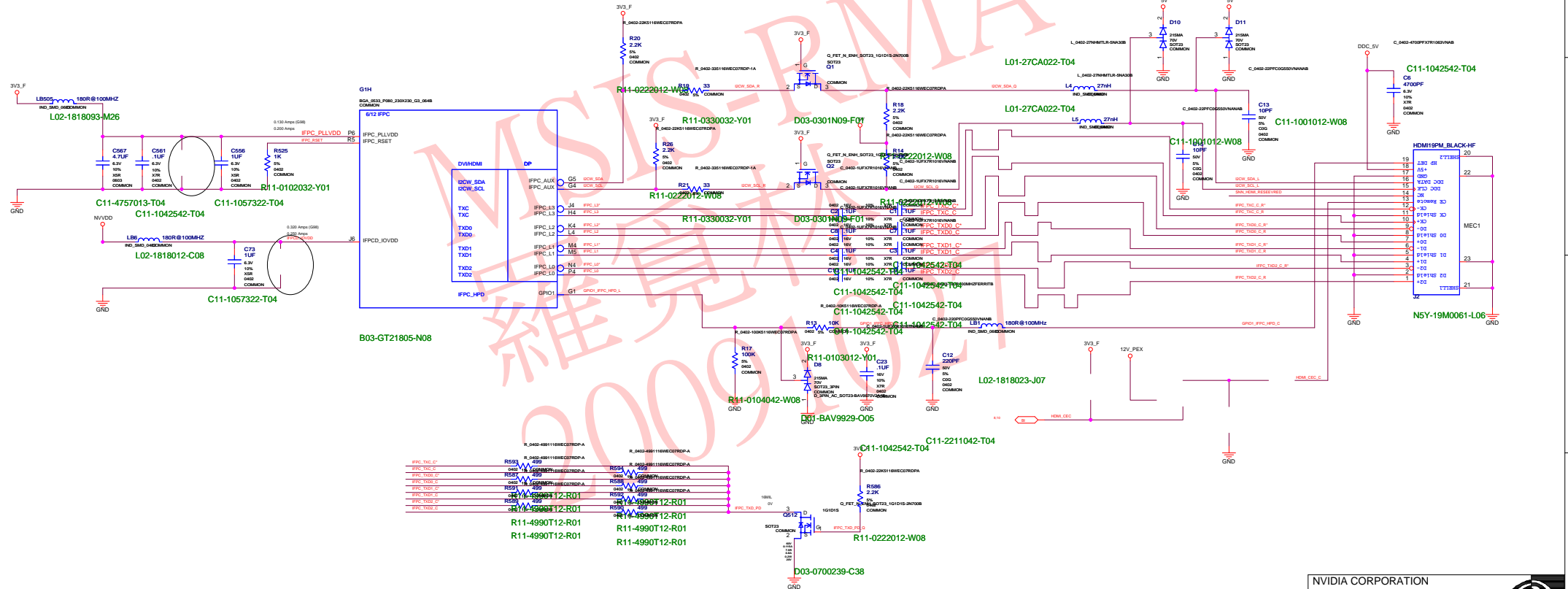
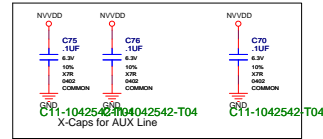
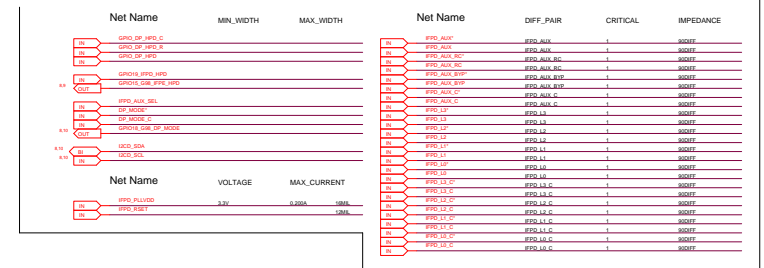
  

Net Name		VOLTAGE	MAX_CURRENT
N	FFNA_PLV002	1.80V	1.00mA -100%
N	FFNA_T002	3.3V	0.20mA -100%
N	FFNA_T001		100%

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## HDMI Connector

6



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

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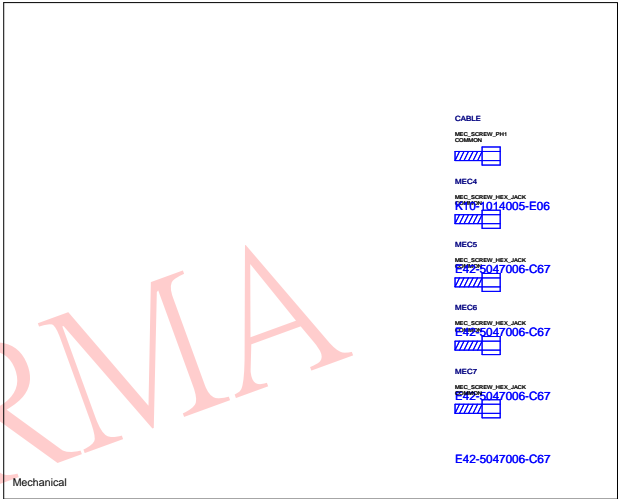
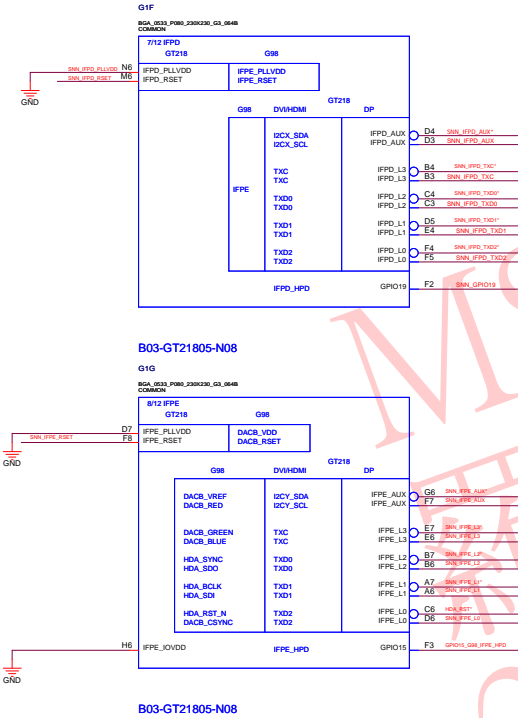
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IFPC, IFPE Interface, Mechanical, SPDIF



Net Name	MIN_WIDTH	MAX_WIDTH
HDA_RST	128M	
GND_FAN_PWM		
SPDIF_IN		
SPDIF_OUT		
SPDIF_IN_2		
SPDIF_IN_3		
SPDIF_IN_4		
SPDIF_IN_5		
SPDIF_IN_6		
SPDIF_IN_7		
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SPDIF_IN_9		
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SPDIF_IN_91		
SPDIF_IN_92		
SPDIF_IN_93		
SPDIF_IN_94		
SPDIF_IN_95		
SPDIF_IN_96		
SPDIF_IN_97		
SPDIF_IN_98		
SPDIF_IN_99		
SPDIF_IN_100		

Net Name	CRITICAL	IMPEDANCE
SPDIF	2	50OHM
SPDIF_IN	2	50OHM
Net Name	VOLTAGE	MAX_CURRENT
IFPCD_KVDD	1.8V	0.00A

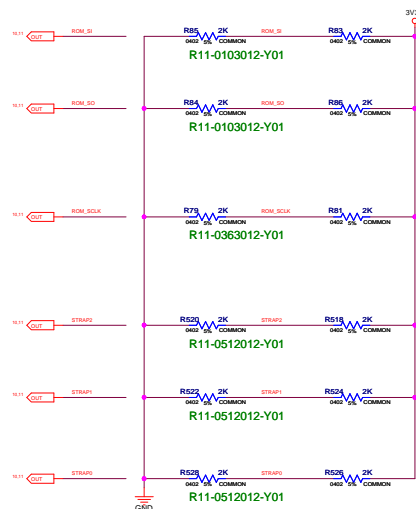
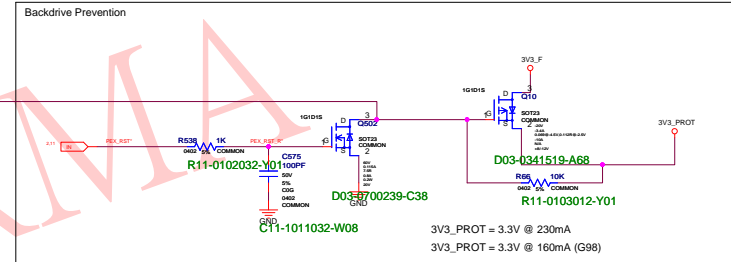
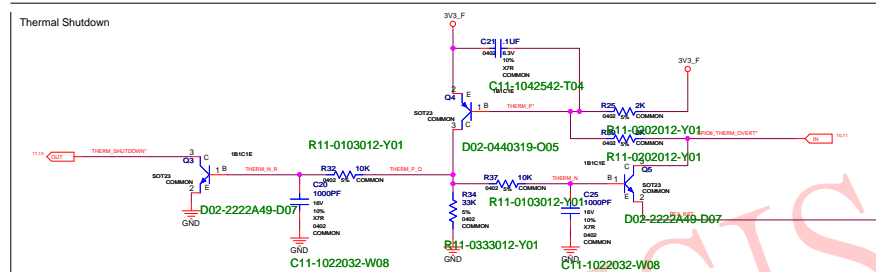
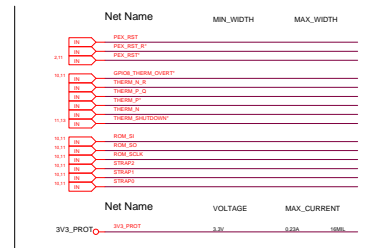
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AC12	GND	NC	D15	GND	D15
AC13	GND	NC	J5	GND	J5
AC14	GND				
AC15	GND				
AC16	GND				
AC17	GND				
AC18	GND				
AC19	GND				
AC20	GND				
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AC98	GND				
AC99	GND				
AC100	GND				

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## Thermal Protection, Protected 3V3, Straps



GLT18 Straps				GLTS Mode				Values				Multilayer Straps			
03	RAMCFG1	0000	Elisa												
		0001	Deming Moore												
		0010	Orlando												
01	RAMCFG2	0001	Helen												
		0000	Nancy												
03	RAMCFG3														
03	ACCEL_XYZ	0	277 (Default)												
03	FREQ	0	250M (Default)												
01	SAME_ALT_ADDR	0	Full												
		1	Half												
03	VGA_DEVICE	0	Class code 000												
		1	Class code 300												
03	PCI_DEVICE_EXT	0	GT218-B00-A1												
03	SUB_VENDOR	0	No BIOS												
		1	BIOS												
01	SLOT_CFG_CFG	0	Disable												
		1	Enable												
03	PEX_LIN_EN_TERMINIO	0	Disable												
		1	Enable												
03	PCI_DEVICE0	0000	GT218-B00-A1												
03	PCI_DEVICE1														
01	PCI_DEVICE2														
03	PCI_DEVICE3														
03	PCI_DEVICE4														
03	SGSC_PADCFG_LUT_ADDR0	0000	DISPORT_DEFAULT	1000	DISPORT_0THRESH										
		0001	MOBILE_DEFAULT	1001	MOBILE_0THRESH										
		0002	MOBILE_0THRESH_LAMP	1002	MOBILE_0THRESH_LAMP										
		0003	MOBILE_0THRESH_LAMP	1003	MOBILE_0THRESH_LAMP										
		0010	MOBILE_0THRESH	1100	MOBILE_0THRESH										
		0011	MOBILE_0THRESH_LAMP	1101	MOBILE_0THRESH_LAMP										
		0012	MOBILE_0THRESH_LAMP	1102	MOBILE_0THRESH_LAMP										
		0013	MOBILE_0THRESH_LAMP	1103	MOBILE_0THRESH_LAMP										
		0014	MOBILE_0THRESH_LAMP	1104	MOBILE_0THRESH_LAMP										
		0015	MOBILE_0THRESH_LAMP	1105	MOBILE_0THRESH_LAMP										
		0016	MOBILE_0THRESH_LAMP	1106	MOBILE_0THRESH_LAMP										
		0017	MOBILE_0THRESH_LAMP	1107	MOBILE_0THRESH_LAMP										
		0018	MOBILE_0THRESH_LAMP	1108	MOBILE_0THRESH_LAMP										
		0019	MOBILE_0THRESH_LAMP	1109	MOBILE_0THRESH_LAMP										
		0020	MOBILE_0THRESH_LAMP	1110	MOBILE_0THRESH_LAMP										
		0021	MOBILE_0THRESH_LAMP	1111	MOBILE_0THRESH_LAMP										
		0022	MOBILE_0THRESH_LAMP	1112	MOBILE_0THRESH_LAMP										
		0023	MOBILE_0THRESH_LAMP	1113	MOBILE_0THRESH_LAMP										
		0024	MOBILE_0THRESH_LAMP	1114	MOBILE_0THRESH_LAMP										
		0025	MOBILE_0THRESH_LAMP	1115	MOBILE_0THRESH_LAMP										
		0026	MOBILE_0THRESH_LAMP	1116	MOBILE_0THRESH_LAMP										
		0027	MOBILE_0THRESH_LAMP	1117	MOBILE_0THRESH_LAMP										
		0028	MOBILE_0THRESH_LAMP	1118	MOBILE_0THRESH_LAMP										
		0029	MOBILE_0THRESH_LAMP	1119	MOBILE_0THRESH_LAMP										
		0030	MOBILE_0THRESH_LAMP	1120	MOBILE_0THRESH_LAMP										
		0031	MOBILE_0THRESH_LAMP	1121	MOBILE_0THRESH_LAMP										
		0032	MOBILE_0THRESH_LAMP	1122	MOBILE_0THRESH_LAMP										
		0033	MOBILE_0THRESH_LAMP	1123	MOBILE_0THRESH_LAMP										
		0034	MOBILE_0THRESH_LAMP	1124	MOBILE_0THRESH_LAMP										
		0035	MOBILE_0THRESH_LAMP	1125	MOBILE_0THRESH_LAMP										
		0036	MOBILE_0THRESH_LAMP	1126	MOBILE_0THRESH_LAMP										
		0037	MOBILE_0THRESH_LAMP	1127	MOBILE_0THRESH_LAMP										
		0038	MOBILE_0THRESH_LAMP	1128	MOBILE_0THRESH_LAMP										
		0039	MOBILE_0THRESH_LAMP	1129	MOBILE_0THRESH_LAMP										
		0040	MOBILE_0THRESH_LAMP	1130	MOBILE_0THRESH_LAMP										
		0041	MOBILE_0THRESH_LAMP	1131	MOBILE_0THRESH_LAMP										
		0042	MOBILE_0THRESH_LAMP	1132	MOBILE_0THRESH_LAMP										
		0043	MOBILE_0THRESH_LAMP	1133	MOBILE_0THRESH_LAMP										
		0044	MOBILE_0THRESH_LAMP	1134	MOBILE_0THRESH_LAMP										
		0045	MOBILE_0THRESH_LAMP	1135	MOBILE_0THRESH_LAMP										
		0046	MOBILE_0THRESH_LAMP	1136	MOBILE_0THRESH_LAMP										
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		0048	MOBILE_0THRESH_LAMP	1138	MOBILE_0THRESH_LAMP										
		0049	MOBILE_0THRESH_LAMP	1139	MOBILE_0THRESH_LAMP										
		0050	MOBILE_0THRESH_LAMP	1140	MOBILE_0THRESH_LAMP										
		0051	MOBILE_0THRESH_LAMP	1141	MOBILE_0THRESH_LAMP										
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		0053	MOBILE_0THRESH_LAMP	1143	MOBILE_0THRESH_LAMP										
		0054	MOBILE_0THRESH_LAMP	1144	MOBILE_0THRESH_LAMP										
		0055	MOBILE_0THRESH_LAMP	1145	MOBILE_0THRESH_LAMP										
		0056	MOBILE_0THRESH_LAMP	1146	MOBILE_0THRESH_LAMP										
		0057	MOBILE_0THRESH_LAMP	1147	MOBILE_0THRESH_LAMP										
		0058	MOBILE_0THRESH_LAMP	1148	MOBILE_0THRESH_LAMP										
		0059	MOBILE_0THRESH_LAMP	1149	MOBILE_0THRESH_LAMP										
		0060	MOBILE_0THRESH_LAMP	1150	MOBILE_0THRESH_LAMP										
		0061	MOBILE_0THRESH_LAMP	1151	MOBILE_0THRESH_LAMP										
		0062	MOBILE_0THRESH_LAMP	1152	MOBILE_0THRESH_LAMP										
		0063	MOBILE_0THRESH_LAMP	1153	MOBILE_0THRESH_LAMP										
		0064	MOBILE_0THRESH_LAMP	1154	MOBILE_0THRESH_LAMP										
		0065	MOBILE_0THRESH_LAMP	1155	MOBILE_0THRESH_LAMP										
		0066	MOBILE_0THRESH_LAMP	1156	MOBILE_0THRESH_LAMP										
		0067	MOBILE_0THRESH_LAMP	1157	MOBILE_0THRESH_LAMP										
		0068	MOBILE_0THRESH_LAMP	1158	MOBILE_0THRESH_LAMP										
		0069	MOBILE_0THRESH_LAMP	1159	MOBILE_0THRESH_LAMP										
		0070	MOBILE_0THRESH_LAMP	1160	MOBILE_0THRESH_LAMP										
		0071	MOBILE_0THRESH_LAMP	1161	MOBILE_0THRESH_LAMP										
		0072	MOBILE_0THRESH_LAMP	1162	MOBILE_0THRESH_LAMP										
		0073	MOBILE_0THRESH_LAMP	1163	MOBILE_0THRESH_LAMP										
		0074	MOBILE_0THRESH_LAMP	1164	MOBILE_0THRESH_LAMP										
		0075	MOBILE_0THRESH_LAMP	1165	MOBILE_0THRESH_LAMP										
		0076	MOBILE_0THRESH_LAMP	1166	MOBILE_0THRESH_LAMP										
		0077	MOBILE_0THRESH_LAMP	1167	MOBILE_0THRESH_LAMP										
		0078	MOBILE_0THRESH_LAMP	1168	MOBILE_0THRESH_LAMP										
		0079	MOBILE_0THRESH_LAMP	1169	MOBILE_0THRESH_LAMP										
		0080	MOBILE_0THRESH_LAMP	1170	MOBILE_0THRESH_LAMP										
		0081	MOBILE_0THRESH_LAMP	1171	MOBILE_0THRESH_LAMP										
		0082	MOBILE_0THRESH_LAMP	1172	MOBILE_0THRESH_LAMP										
		0083	MOBILE_0THRESH_LAMP	1173	MOBILE_0THRESH_LAMP										
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		0099	MOBILE_0THRESH_LAMP	1189	MOBILE_0THRESH_LAMP										
		0100	MOBILE_0THRESH_LAMP	1190	MOBILE_0THRESH_LAMP										
		0101	MOBILE_0THRESH_LAMP	1191	MOBILE_0THRESH_LAMP										
		0102	MOBILE_0THRESH_LAMP	1192	MOBILE_0THRESH_LAMP										
		0103	MOBILE_0THRESH_LAMP	1193	MOBILE_0THRESH_LAMP										
		0104	MOBILE_0THRESH_LAMP	1194	MOBILE_0THRESH_LAMP										
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		0109	MOBILE_0THRESH_LAMP	1199	MOBILE_0THRESH_LAMP										
		0110	MOBILE_0THRESH_LAMP	1200	MOBILE_0THRESH_LAMP										
		0111	MOBILE_0THRESH_LAMP	1201	MOBILE_0THRESH_LAMP										
		0112	MOBILE_0THRESH_LAMP	1202	MOBILE_0THRESH_LAMP										
		0113	MOBILE_0THRESH_LAMP	1203	MOBILE_0THRESH_LAMP										
		0114	MOBILE_0THRESH_LAMP	1204	MOBILE_0THRESH_LAMP										

BT218 Straps		BU Mode	
Bit Signal		Values	
POL_DEVICE_XLT	0	CT519-000-A1	
XCLAT_417	0	277 (Default)	
<p>           0000 CDR/TOF_DEFAULT            0001 MOBILE_STRAPS_DEFAULT            0003 MOBILE_STRAPS_LAMP            0011 MOBILE_STRAPS_LAMP            0100 MOBILE_STRAPS_LAMP            0101 MOBILE_STRAPS_INNOVAP            0110 MOBILE_STRAPS_INNOVAP            0111 MOBILE_STRAPS_INNOVAP            1000 CDR/TOF_STRAPS            1001 MOBILE_STRAPS_LAMP            1010 MOBILE_STRAPS_LAMP            1011 MOBILE_STRAPS_LAMP            1100 MOBILE_STRAPS_INNOVAP            1101 MOBILE_STRAPS_INNOVAP            1110 MOBILE_STRAPS_INNOVAP            1111 MOBILE_STRAPS_INNOVAP         </p>			
<p>           XSIG_PACKFIS_LUT_ASR[0]            XSIG_PACKFIS_LUT_ASR[1]            XSIG_PACKFIS_LUT_ASR[2]            XSIG_PACKFIS_LUT_ASR[3]            XSIG_PACKFIS_LUT_ASR[4]         </p>			

GT218 Straps		
PM Mode		
Bit Signal	Values	
POL_DEVICE_EXT	0	GT218-300-A1
ACSC_H107	0	270727 QR-4714107
POL_DEVICE2	0	GT218-300-A1
RANKCFG2	0000	Epistle
	0001	Samuelson Mirror
	0003	Comrade
	0011	Physis
	0100	Nature
RANKCFG1		
	ML5	Drift
	BZ	No drift
	PM	Drift one
RANKCFG3		
	Mode	REFORM1

G98 Straps		
MLS Mode		
Bit Signal	Values	
(0): RMVC[02]	0000	Empty
(1): RMVC[02]	0100	Normal
(2): RMVC[02]	0101	Swarming
(3): RMVC[02]	0110	Overload
(4): RMVC[02]	0111	Ways
(5): RMVC[02]		
(6): RMVC[02]		
(7): RMVC[02]		
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(125): RMVC[02]		
(126): RMVC[02]		
(127): RMVC[02]		

Multilevel Straps	
5K to GND	0000
10K to GND	0001
15K to GND	0010
20K to GND	0011
25K to GND	0100
30K to GND	0101
35K to GND	0110
45K to GND	0111
5K to VCC	1000
10K to VCC	1001
15K to VCC	1010
20K to VCC	1011
25K to VCC	1100
30K to VCC	1101
35K to VCC	1110
45K to VCC	1111

Mode	REF0/REF1
MLS	Stuff
BU	No stuff

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NAME	

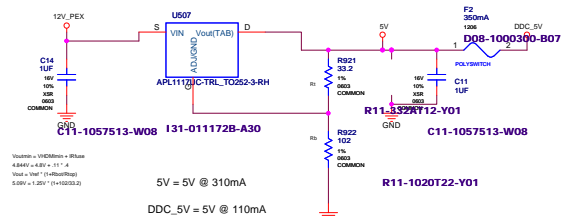
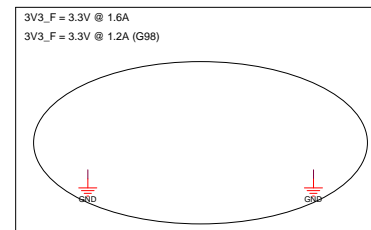
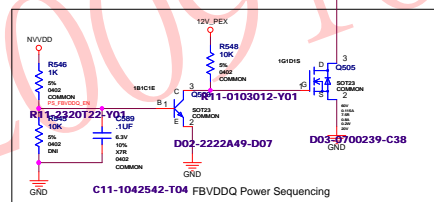
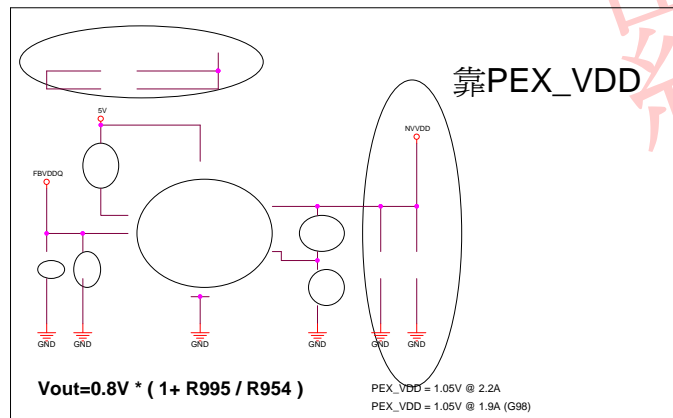
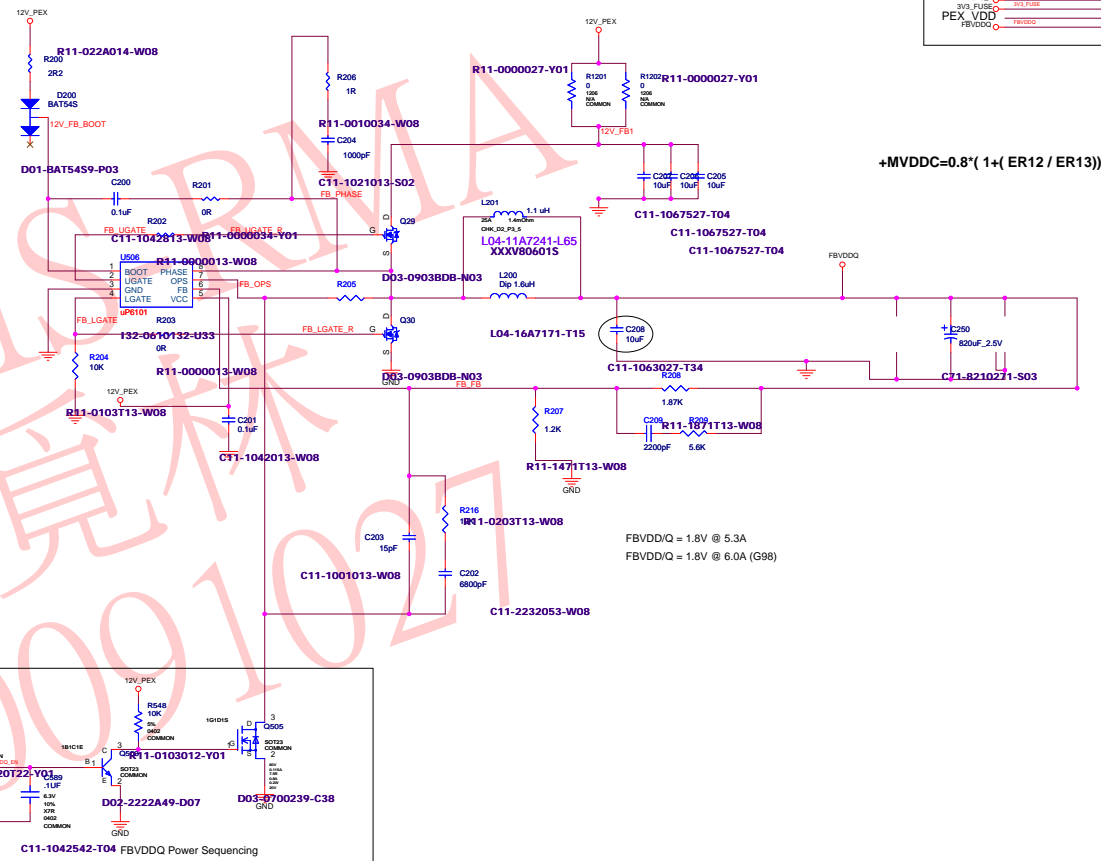
NAME		DATE	05-FEB-2009


[illegible]

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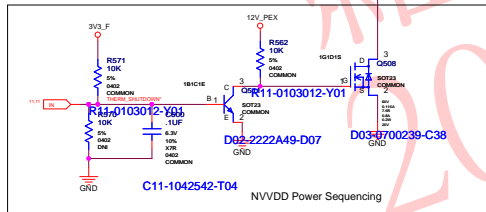
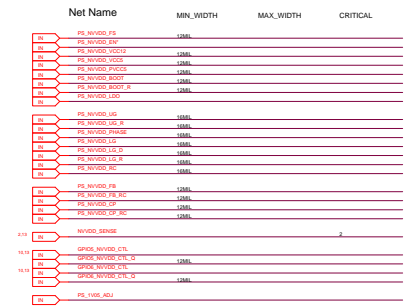
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FIN
PAGE DETAIL	Thermal Protection, Protected 3V3, Straps

Power Supply I: FBVDD/Q, PEX\_VDD, 5V, 3V3\_F

[illegible]

<b>NVIDIA CORPORATION</b> 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
<b>NV_PN</b>	<b>600-10691-BASE-100 A</b>		
<b>ID</b>	<b>PAGE</b>	<b>PAGE</b>	
<b>NAME</b>	<b>DATE</b>	<b>05-FEB-2009</b>	

## 6



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A		B		C		D		E		F		G		H	
Title: Basepart Report															
Design: j9901_A01		FBA_CMD24a		FBA_CMD24b		FBA_CMD24c		FBA_CMD24d		FBA_CMD24e		FBA_CMD24f		FBA_CMD24g	
Date: Jan 27 23:02:52 2009		FBA_CMD24h		FBA_CMD24i		FBA_CMD24j		FBA_CMD24k		FBA_CMD24l		FBA_CMD24m		FBA_CMD24n	
Base notes and synonyms for:															
j9901_A01, B1, PMSI_A01(B9901_A01_30,p9901		FBA_CMD24o		FBA_CMD24p		FBA_CMD24q		FBA_CMD24r		FBA_CMD24s		FBA_CMD24t		FBA_CMD24u	
-j9901_A01, 10)		FBA_CMD24v		FBA_CMD24w		FBA_CMD24x		FBA_CMD24y		FBA_CMD24z		FBA_CMD24aa		FBA_CMD24ab	
Base Signal: Location(Zone9901)		FBA_CMD24ac		FBA_CMD24ad		FBA_CMD24ae		FBA_CMD24af		FBA_CMD24ag		FBA_CMD24ah		FBA_CMD24ai	
3V3_F 12.2H		FBA_CMD24aj		FBA_CMD24ak		FBA_CMD24al		FBA_CMD24am		FBA_CMD24an		FBA_CMD24ao		FBA_CMD24ap	
3V3_FUSE 12.2H		FBA_CMD24aq		FBA_CMD24ar		FBA_CMD24as		FBA_CMD24at		FBA_CMD24au		FBA_CMD24av		FBA_CMD24aw	
3V3_PEX 12.2D		FBA_CMD24ax		FBA_CMD24ay		FBA_CMD24az		FBA_CMD24ba		FBA_CMD24bb		FBA_CMD24bc		FBA_CMD24bd	
SV 12.2H		FBA_CMD24be		FBA_CMD24bf		FBA_CMD24bg		FBA_CMD24bh		FBA_CMD24bi		FBA_CMD24bj		FBA_CMD24bk	
12V_PEX 13.2D		FBA_CMD24bl		FBA_CMD24bm		FBA_CMD24bn		FBA_CMD24bo		FBA_CMD24bp		FBA_CMD24bq		FBA_CMD24br	
DACA_BLUE 5.10x1.64C		FBA_CMD24bs		FBA_CMD24bt		FBA_CMD24bu		FBA_CMD24bv		FBA_CMD24bw		FBA_CMD24bx		FBA_CMD24by	
DACA_BLUE_C 5.10x1.64F+7.3F+		FBA_CMD24bz		FBA_CMD24ca		FBA_CMD24cb		FBA_CMD24cc		FBA_CMD24cd		FBA_CMD24ce		FBA_CMD24cf	
DACA_GREEN 5.10x1.64C		FBA_CMD24cg		FBA_CMD24ch		FBA_CMD24ci		FBA_CMD24cj		FBA_CMD24ck		FBA_CMD24cl		FBA_CMD24cm	
DACA_GREEN_C 5.10x1.64F+7.3F+		FBA_CMD24cn		FBA_CMD24co		FBA_CMD24cp		FBA_CMD24cq		FBA_CMD24cr		FBA_CMD24cs		FBA_CMD24ct	
DACA_HSYMC 5.10x1.64C		FBA_CMD24cu		FBA_CMD24cv		FBA_CMD24cw		FBA_CMD24cx		FBA_CMD24cy		FBA_CMD24cz		FBA_CMD24da	
DACA_HSYMC_C 5.10x1.64F+7.6F+		FBA_CMD24db		FBA_CMD24dc		FBA_CMD24dd		FBA_CMD24de		FBA_CMD24df		FBA_CMD24dg		FBA_CMD24dh	
DACA_HS_BUF 5.10x1.63D		FBA_CMD24di		FBA_CMD24dj		FBA_CMD24dk		FBA_CMD24dl		FBA_CMD24dm		FBA_CMD24dn		FBA_CMD24do	
DACA_RED 5.10x1.64C		FBA_CMD24dp		FBA_CMD24dq		FBA_CMD24dr		FBA_CMD24ds		FBA_CMD24dt		FBA_CMD24du		FBA_CMD24dv	
DACA_RED_C 5.10x1.64F+7.3F+		FBA_CMD24dw		FBA_CMD24dx		FBA_CMD24dy		FBA_CMD24dz		FBA_CMD24ea		FBA_CMD24eb		FBA_CMD24ec	
DACA_RST 5.10x1.64B		FBA_CMD24ed		FBA_CMD24ee		FBA_CMD24ef		FBA_CMD24eg		FBA_CMD24eh		FBA_CMD24ei		FBA_CMD24ej	
DACA_VREF 5.10x1.64B		FBA_CMD24ek		FBA_CMD24el		FBA_CMD24em		FBA_CMD24en		FBA_CMD24eo		FBA_CMD24ep		FBA_CMD24eq	
DACA_VSYMC 5.10x1.64C		FBA_CMD24er		FBA_CMD24es		FBA_CMD24et		FBA_CMD24eu		FBA_CMD24ev		FBA_CMD24ew		FBA_CMD24ex	
DACA_VSYMC_C 5.10x1.64F+7.3F+		FBA_CMD24ey		FBA_CMD24ez		FBA_CMD24fa		FBA_CMD24fb		FBA_CMD24fc		FBA_CMD24fd		FBA_CMD24fe	
DACA_VS_BUF 5.10x1.64C		FBA_CMD24fg		FBA_CMD24fh		FBA_CMD24fi		FBA_CMD24fj		FBA_CMD24fk		FBA_CMD24fl		FBA_CMD24fm	
DACA_BLUE_C 6.10x1.63E		FBA_CMD24fn		FBA_CMD24fo		FBA_CMD24fp		FBA_CMD24fq		FBA_CMD24fr		FBA_CMD24fs		FBA_CMD24ft	
DACA_GREEN 6.10x1.64C		FBA_CMD24fu		FBA_CMD24fv		FBA_CMD24fw		FBA_CMD24fx		FBA_CMD24fy		FBA_CMD24fz		FBA_CMD24ga	
DACA_GREEN_C 6.10x1.64F+7.3F+		FBA_CMD24gz		FBA_CMD24gb		FBA_CMD24gc		FBA_CMD24gd		FBA_CMD24ge		FBA_CMD24gf		FBA_CMD24gg	
DACA_HSYMC 6.10x1.64C		FBA_CMD24gh		FBA_CMD24gi		FBA_CMD24gj		FBA_CMD24gk		FBA_CMD24gl		FBA_CMD24gm		FBA_CMD24gn	
DACA_HSYMC_C 6.10x1.63E		FBA_CMD24go		FBA_CMD24gp		FBA_CMD24gq		FBA_CMD24gr		FBA_CMD24gs		FBA_CMD24gt		FBA_CMD24gu	
DACA_HS_BUF 6.10x1.63D		FBA_CMD24gv		FBA_CMD24gw		FBA_CMD24gx		FBA_CMD24gy		FBA_CMD24gz		FBA_CMD24ha		FBA_CMD24hb	
DACA_RED 6.10x1.64C		FBA_CMD24hc		FBA_CMD24hd		FBA_CMD24he		FBA_CMD24hf		FBA_CMD24hg		FBA_CMD24hh		FBA_CMD24hi	
DACA_RED_C 6.10x1.64F+7.3F+		FBA_CMD24hj		FBA_CMD24hk		FBA_CMD24hl		FBA_CMD24hm		FBA_CMD24hn		FBA_CMD24ho		FBA_CMD24hp	
DACA_RST 6.10x1.64B		FBA_CMD24hq		FBA_CMD24hr		FBA_CMD24hs		FBA_CMD24ht		FBA_CMD24hu		FBA_CMD24hv		FBA_CMD24hw	
DACA_VREF 6.10x1.64B		FBA_CMD24hx		FBA_CMD24hy		FBA_CMD24hz		FBA_CMD24ia		FBA_CMD24ib		FBA_CMD24ic		FBA_CMD24id	
DACA_VSYMC 6.10x1.64C		FBA_CMD24ie		FBA_CMD24if		FBA_CMD24ig		FBA_CMD24ih		FBA_CMD24ii		FBA_CMD24ij		FBA_CMD24ik	
DACA_VSYMC_C 6.10x1.63E		FBA_CMD24il		FBA_CMD24im		FBA_CMD24in		FBA_CMD24io		FBA_CMD24ip		FBA_CMD24iq		FBA_CMD24ir	
DACA_VS_BUF 6.10x1.63D		FBA_CMD24is		FBA_CMD24it		FBA_CMD24iu		FBA_CMD24iv		FBA_CMD24iw		FBA_CMD24ix		FBA_CMD24iy	
DACA_BLUE_C 6.10x1.63E		FBA_CMD24iz		FBA_CMD24ja		FBA_CMD24jb		FBA_CMD24jc		FBA_CMD24jd		FBA_CMD24je		FBA_CMD24jf	
DACA_GREEN 6.10x1.64C		FBA_CMD24jg		FBA_CMD24jh		FBA_CMD24ji		FBA_CMD24jj		FBA_CMD24jk		FBA_CMD24jl		FBA_CMD24jm	
DACA_GREEN_C 6.10x1.64F+7.3F+		FBA_CMD24jn		FBA_CMD24jo		FBA_CMD24jp		FBA_CMD24jq		FBA_CMD24jr		FBA_CMD24js		FBA_CMD24jt	
DACA_HSYMC 6.10x1.64C		FBA_CMD24ju		FBA_CMD24jv		FBA_CMD24jw		FBA_CMD24jx		FBA_CMD24jy		FBA_CMD24jz		FBA_CMD24ka	
DACA_HSYMC_C 6.10x1.63E		FBA_CMD24kb		FBA_CMD24kc		FBA_CMD24kd		FBA_CMD24ke		FBA_CMD24kf		FBA_CMD24kg		FBA_CMD24kh	
DACA_HS_BUF 6.10x1.63D		FBA_CMD24kh		FBA_CMD24ki		FBA_CMD24kj		FBA_CMD24kk		FBA_CMD24kl		FBA_CMD24km		FBA_CMD24kn	
DACA_RED 6.10x1.64C		FBA_CMD24ko		FBA_CMD24kp		FBA_CMD24kq		FBA_CMD24kr		FBA_CMD24ks		FBA_CMD24kt		FBA_CMD24ku	
DACA_RED_C 6.10x1.64F+7.3F+		FBA_CMD24kv		FBA_CMD24kw		FBA_CMD24kx		FBA_CMD24ky		FBA_CMD24kz		FBA_CMD24la		FBA_CMD24lb	
DACA_RST 6.10x1.64B		FBA_CMD24lc		FBA_CMD24ld		FBA_CMD24le		FBA_CMD24lf		FBA_CMD24lg		FBA_CMD24lh		FBA_CMD24li	
DACA_VREF 6.10x1.64B		FBA_CMD24li		FBA_CMD24lj		FBA_CMD24lk		FBA_CMD24ll		FBA_CMD24lm		FBA_CMD24ln		FBA_CMD24lo	
DACA_VSYMC 6.10x1.64C		FBA_CMD24lp		FBA_CMD24lp		FBA_CMD24lp		FBA_CMD24lp		FBA_CMD24lp		FBA_CMD24lp		FBA_CMD24lp	
DACA_VSYMC_C 6.10x1.63E		FBA_CMD24													

[illegible]