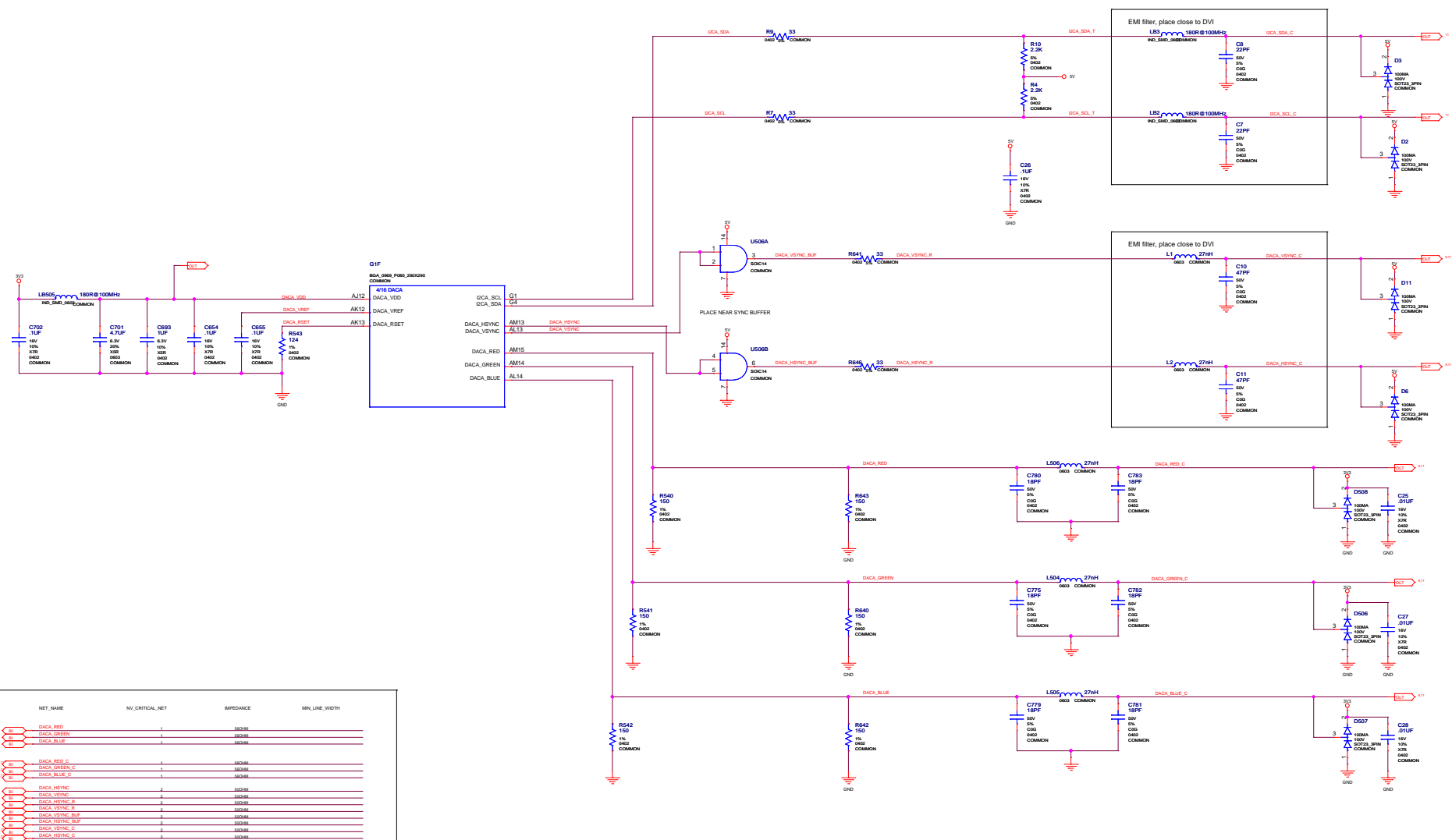


DACA (SOUTH DVI-I)



NET_NAME	IV_CRITICAL_NET	DEPENDENCE	MIN_LIVE_WEIGHT
DACA_RED	1	SD2R1	
DACA_GREEN	1	SD2R1	
DACA_BLUE	1	SD2R1	
DACA_RED_C	1	SD2R1	
DACA_GREEN_C	1	SD2R1	
DACA_BLUE_C	1	SD2R1	
DACA_VESTIG_1	2	SD2R1	
DACA_VESTIG_2	2	SD2R1	
DACA_VESTIG_3	2	SD2R1	
DACA_VESTIG_BLUE	2	SD2R1	
DACA_VESTIG_BLUE_F	2	SD2R1	
DACA_VESTIG_C	2	SD2R1	
DACA_VESTIG_C_F	2	SD2R1	

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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

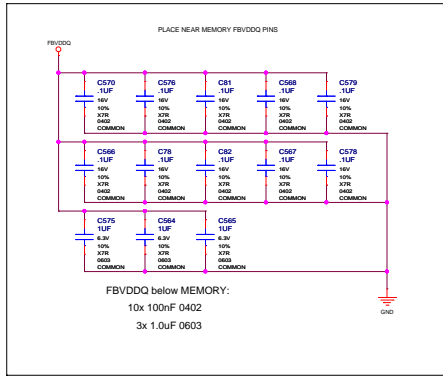
NV_PN	600-10681-base-100 A
-------	----------------------

ID		PAGE	
NAME		DATE	05-FEB-2009

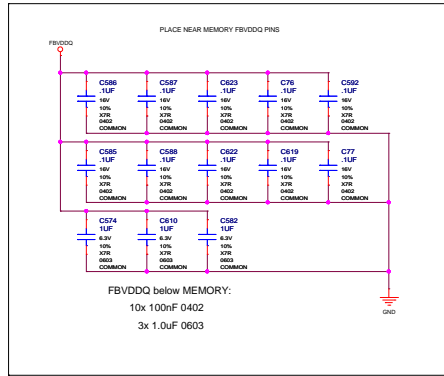


FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

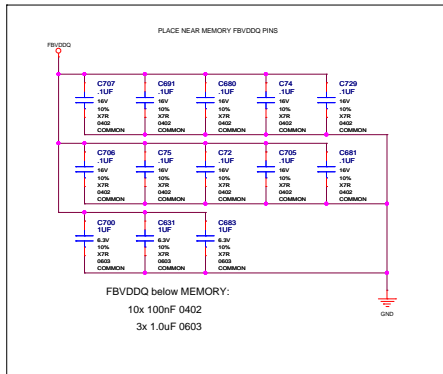
Decoupling for FBC 0..15



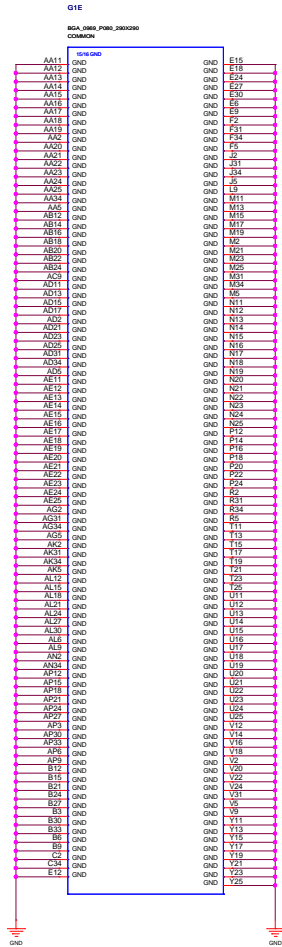
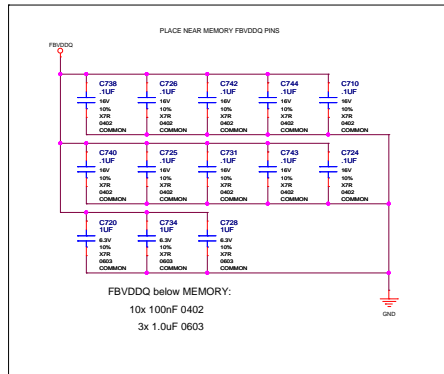
Decoupling for FBC 16..31



Decoupling for FBC 32..47



Decoupling for FBC 48..63



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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

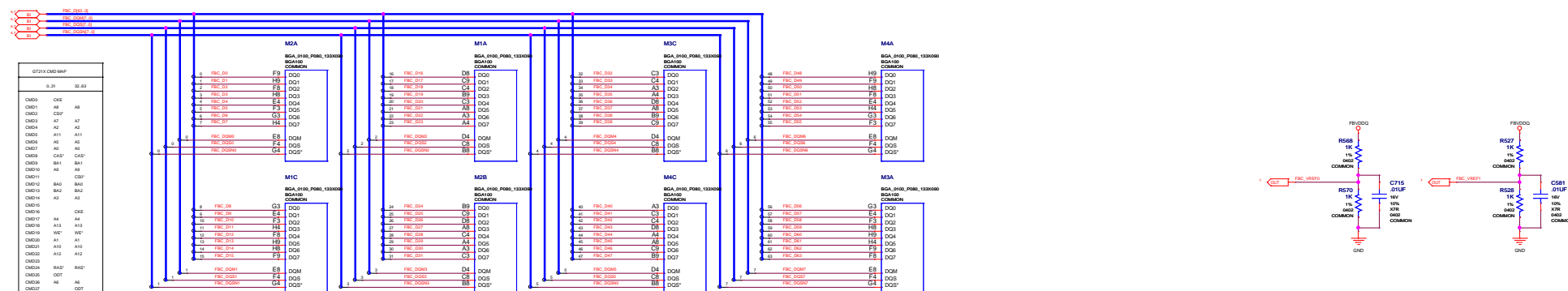
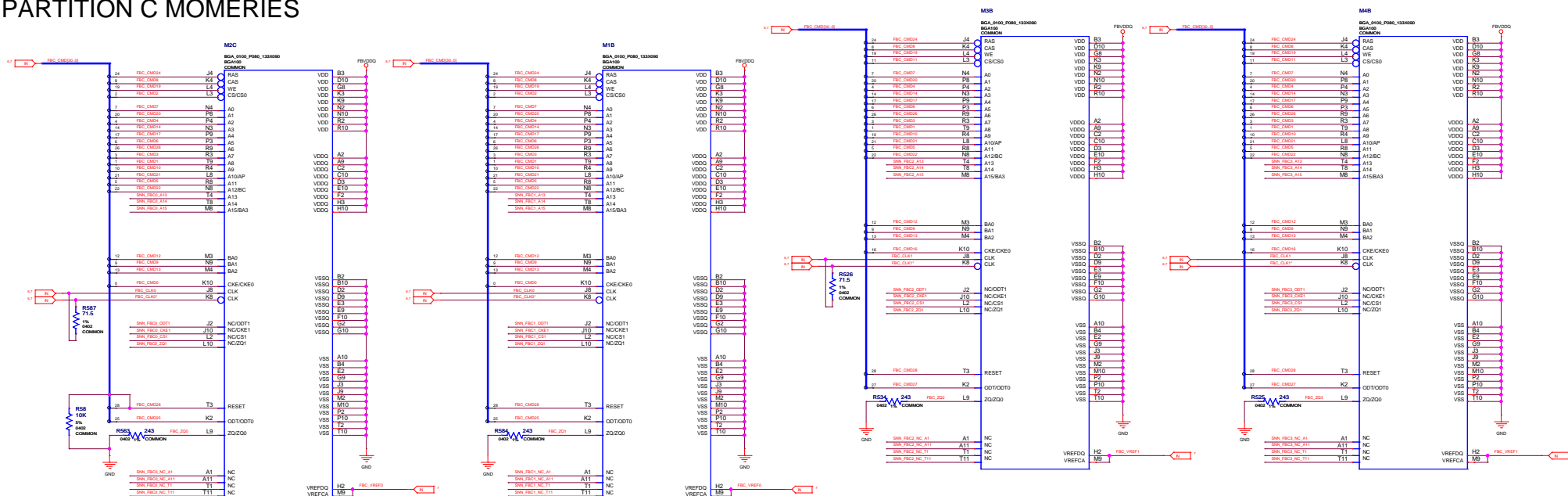
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A
-------	----------------------

ID		PAGE	
NAME		DATE	05-FEB-2009



PARTITION C MOMERIES



NET							DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET	NET							DIFFPAIR	NV_IMPEDANCE	NV_CRITICAL_NET
	1	FPC_DOS1	FPC_DOS1a	BOFF1	1	1	FPC_C040	FPC_C040a	DOFF1	1	1	1	FPC_C040	FPC_C040a	DOFF1	1	1		
	2	FPC_DOS2	FPC_DOS2a	BOFF2	2	2	FPC_C041	FPC_C041a	DOFF2	1	1	1	FPC_C041	FPC_C041a	DOFF2	1	1		
	3	FPC_DOS3	FPC_DOS3a	BOFF3	3	3	FPC_C042	FPC_C042a	DOFF3	1	1	1	FPC_C042	FPC_C042a	DOFF3	1	1		
	4	FPC_DOS4	FPC_DOS4a	BOFF4	4	4	FPC_C043	FPC_C043a	DOFF4	1	1	1	FPC_C043	FPC_C043a	DOFF4	1	1		
	5	FPC_DOS5	FPC_DOS5a	BOFF5	5	5	FPC_C044	FPC_C044a	DOFF5	1	1	1	FPC_C044	FPC_C044a	DOFF5	1	1		
	6	FPC_DOS6	FPC_DOS6a	BOFF6	6	6	FPC_C045	FPC_C045a	DOFF6	1	1	1	FPC_C045	FPC_C045a	DOFF6	1	1		
	7	FPC_DOS7	FPC_DOS7a	BOFF7	7	7	FPC_C046	FPC_C046a	DOFF7	1	1	1	FPC_C046	FPC_C046a	DOFF7	1	1		
	8	FPC_DOS8	FPC_DOS8a	BOFF8	8	8	FPC_C047	FPC_C047a	DOFF8	1	1	1	FPC_C047	FPC_C047a	DOFF8	1	1		
	9	FPC_DOS9	FPC_DOS9a	BOFF9	9	9	FPC_C048	FPC_C048a	DOFF9	1	1	1	FPC_C048	FPC_C048a	DOFF9	1	1		
	10	FPC_DOS10	FPC_DOS10a	BOFF10	10	10	FPC_C049	FPC_C049a	DOFF10	1	1	1	FPC_C049	FPC_C049a	DOFF10	1	1		
11	FPC_DOS11	FPC_DOS11a	BOFF11	11	11	FPC_C050	FPC_C050a	DOFF11	1	1	1	FPC_C050	FPC_C050a	DOFF11	1	1			
12	FPC_DOS12	FPC_DOS12a	BOFF12	12	12	FPC_C051	FPC_C051a	DOFF12	1	1	1	FPC_C051	FPC_C051a	DOFF12	1	1			
13	FPC_DOS13	FPC_DOS13a	BOFF13	13	13	FPC_C052	FPC_C052a	DOFF13	1	1	1	FPC_C052	FPC_C052a	DOFF13	1	1			
14	FPC_DOS14	FPC_DOS14a	BOFF14	14	14	FPC_C053	FPC_C053a	DOFF14	1	1	1	FPC_C053	FPC_C053a	DOFF14	1	1			
15	FPC_DOS15	FPC_DOS15a	BOFF15	15	15	FPC_C054	FPC_C054a	DOFF15	1	1	1	FPC_C054	FPC_C054a	DOFF15	1	1			
16	FPC_DOS16	FPC_DOS16a	BOFF16	16	16	FPC_C055	FPC_C055a	DOFF16	1	1	1	FPC_C055	FPC_C055a	DOFF16	1	1			
17	FPC_DOS17	FPC_DOS17a	BOFF17	17	17	FPC_C056	FPC_C056a	DOFF17	1	1	1	FPC_C056	FPC_C056a	DOFF17	1	1			
18	FPC_DOS18	FPC_DOS18a	BOFF18	18	18	FPC_C057	FPC_C057a	DOFF18	1	1	1	FPC_C057	FPC_C057a	DOFF18	1	1			
19	FPC_DOS19	FPC_DOS19a	BOFF19	19	19	FPC_C058	FPC_C058a	DOFF19	1	1	1	FPC_C058	FPC_C058a	DOFF19	1	1			
20	FPC_DOS20	FPC_DOS20a	BOFF20	20	20	FPC_C059	FPC_C059a	DOFF20	1	1	1	FPC_C059	FPC_C059a	DOFF20	1	1			
21	FPC_DOS21	FPC_DOS21a	BOFF21	21	21	FPC_C060	FPC_C060a	DOFF21	1	1	1	FPC_C060	FPC_C060a	DOFF21	1	1			
22	FPC_DOS22	FPC_DOS22a	BOFF22	22	22	FPC_C061	FPC_C061a	DOFF22	1	1	1	FPC_C061	FPC_C061a	DOFF22	1	1			
23	FPC_DOS23	FPC_DOS23a	BOFF23	23	23	FPC_C062	FPC_C062a	DOFF23	1	1	1	FPC_C062	FPC_C062a	DOFF23	1	1			
24	FPC_DOS24	FPC_DOS24a	BOFF24	24	24	FPC_C063	FPC_C063a	DOFF24	1	1	1	FPC_C063	FPC_C063a	DOFF24	1	1			
25	FPC_DOS25	FPC_DOS25a	BOFF25	25	25	FPC_C064	FPC_C064a	DOFF25	1	1	1	FPC_C064	FPC_C064a	DOFF25	1	1			
26	FPC_DOS26	FPC_DOS26a	BOFF26	26	26	FPC_C065	FPC_C065a	DOFF26	1	1	1	FPC_C065	FPC_C065a	DOFF26	1	1			
27	FPC_DOS27	FPC_DOS27a	BOFF27	27	27	FPC_C066	FPC_C066a	DOFF27	1	1	1	FPC_C066	FPC_C066a	DOFF27	1	1			
28	FPC_DOS28	FPC_DOS28a	BOFF28	28	28	FPC_C067	FPC_C067a	DOFF28	1	1	1	FPC_C067	FPC_C067a	DOFF28	1	1			
29	FPC_DOS29	FPC_DOS29a	BOFF29	29	29	FPC_C068	FPC_C068a	DOFF29	1	1	1	FPC_C068	FPC_C068a	DOFF29	1	1			
30	FPC_DOS30	FPC_DOS30a	BOFF30	30	30	FPC_C069	FPC_C069a	DOFF30	1	1	1	FPC_C069	FPC_C069a	DOFF30	1	1			
31	FPC_DOS31	FPC_DOS31a	BOFF31	31	31	FPC_C070	FPC_C070a	DOFF31	1	1	1	FPC_C070	FPC_C070a	DOFF31	1	1			
32	FPC_DOS32	FPC_DOS32a	BOFF32	32	32	FPC_C071	FPC_C071a	DOFF32	1	1	1	FPC_C071	FPC_C071a	DOFF32	1	1			
33	FPC_DOS33	FPC_DOS33a	BOFF33	33	33	FPC_C072	FPC_C072a	DOFF33	1	1	1	FPC_C072	FPC_C072a	DOFF33	1	1			
34	FPC_DOS34	FPC_DOS34a	BOFF34	34	34	FPC_C073	FPC_C073a	DOFF34	1	1	1	FPC_C073	FPC_C073a	DOFF34	1	1			
35	FPC_DOS35	FPC_DOS35a	BOFF35	35	35	FPC_C074	FPC_C074a	DOFF35	1	1	1	FPC_C074	FPC_C074a	DOFF35	1	1			
36	FPC_DOS36	FPC_DOS36a	BOFF36	36	36	FPC_C075	FPC_C075a	DOFF36	1	1	1	FPC_C075	FPC_C075a	DOFF36	1	1			
37	FPC_DOS37	FPC_DOS37a	BOFF37	37	37	FPC_C076	FPC_C076a	DOFF37	1	1	1	FPC_C076	FPC_C076a	DOFF37	1	1			
38	FPC_DOS38	FPC_DOS38a	BOFF38	38	38	FPC_C077	FPC_C077a	DOFF38	1	1	1	FPC_C077	FPC_C077a	DOFF38	1	1			
39	FPC_DOS39	FPC_DOS39a	BOFF39	39	39	FPC_C078	FPC_C078a	DOFF39	1	1	1	FPC_C078	FPC_C078a	DOFF39	1	1			
40	FPC_DOS40	FPC_DOS40a	BOFF40	40	40	FPC_C079	FPC_C079a	DOFF40	1	1	1	FPC_C079	FPC_C079a	DOFF40	1	1			
41	FPC_DOS41	FPC_DOS41a	BOFF41	41	41	FPC_C080	FPC_C080a	DOFF41	1	1	1	FPC_C080	FPC_C080a	DOFF41	1	1			
42	FPC_DOS42	FPC_DOS42a	BOFF42	42	42	FPC_C081	FPC_C081a	DOFF42	1	1	1	FPC_C081	FPC_C081a	DOFF42	1	1			
43	FPC_DOS43	FPC_DOS43a	BOFF43	43	43	FPC_C082	FPC_C082a	DOFF43	1	1	1	FPC_C082	FPC_C082a	DOFF43	1	1			
44	FPC_DOS44	FPC_DOS44a	BOFF44	44	44	FPC_C083	FPC_C083a	DOFF44	1	1	1	FPC_C083	FPC_C083a	DOFF44	1	1			
45	FPC_DOS45	FPC_DOS45a	BOFF45	45	45	FPC_C084	FPC_C084a	DOFF45	1	1	1	FPC_C084	FPC_C084a	DOFF45	1	1			
46	FPC_DOS46	FPC_DOS46a	BOFF46	46	46	FPC_C085	FPC_C085a	DOFF46	1	1	1	FPC_C085	FPC_C085a	DOFF46	1	1			
47	FPC_DOS47	FPC_DOS47a	BOFF47	47	47	FPC_C086	FPC_C086a	DOFF47	1	1	1	FPC_C086	FPC_C086a	DOFF47	1	1			
48	FPC_DOS48	FPC_DOS48a	BOFF48	48	48	FPC_C087	FPC_C087a	DOFF48	1	1	1	FPC_C087	FPC_C087a	DOFF48	1	1			
49	FPC_DOS49	FPC_DOS49a	BOFF49	49	49	FPC_C088	FPC_C088a	DOFF49	1	1	1	FPC_C088	FPC_C088a	DOFF49	1	1			
50	FPC_DOS50	FPC_DOS50a	BOFF50	50	50	FPC_C089	FPC_C089a	DOFF50	1	1	1	FPC_C089	FPC_C089a	DOFF50	1	1			
51	FPC_DOS51	FPC_DOS51a	BOFF51	51	51	FPC_C090	FPC_C090a	DOFF51	1	1	1	FPC_C090	FPC_C090a	DOFF51	1	1			
52	FPC_DOS52	FPC_DOS52a	BOFF52	52	52	FPC_C091	FPC_C091a	DOFF52	1	1	1	FPC_C091	FPC_C091a	DOFF52	1	1			
53	FPC_DOS53	FPC_DOS53a	BOFF53	53	53	FPC_C092	FPC_C092a	DOFF53	1	1	1	FPC_C092	FPC_C092a	DOFF53	1	1			
54	FPC_DOS54	FPC_DOS54a	BOFF54	54	54	FPC_C093	FPC_C093a	DOFF54	1	1	1	FPC_C093	FPC_C093a	DOFF54	1	1			
55	FPC_DOS55	FPC_DOS55a	BOFF55	55	55	FPC_C094	FPC_C094a	DOFF55	1	1	1	FPC_C094	FPC_C094a	DOFF55	1	1			
56	FPC_DOS56	FPC_DOS56a	BOFF56	56	56	FPC_C095	FPC_C095a	DOFF56	1	1	1	FPC_C095	FPC_C095a	DOFF56	1	1			
57	FPC_DOS57	FPC_DOS57a	BOFF57	57	57	FPC_C096	FPC_C096a	DOFF57	1	1	1	FPC_C096	FPC_C096a	DOFF57	1	1			
58	FPC_DOS58	FPC_DOS58a	BOFF58	58	58	FPC_C097	FPC_C097a	DOFF58	1	1	1	FPC_C097	FPC_C097a	DOFF58	1	1			
59	FPC_DOS59	FPC_DOS59a	BOFF59	59	59	FPC_C098	FPC_C098a	DOFF59	1	1	1	FPC_C098	FPC_C098a	DOFF59	1	1			
60	FPC_DOS60	FPC_DOS60a	BOFF60	60	60	FPC_C099	FPC_C099a	DOFF60	1	1	1	FPC_C099	FPC_C099a	DOFF60	1	1			
61	FPC_DOS61	FPC_DOS61a	BOFF61	61	61	FPC_C100	FPC_C100a	DOFF61	1	1	1	FPC_C100	FPC_C100a	DOFF61	1	1			
62	FPC_DOS62	FPC_DOS62a	BOFF62	62	62	FPC_C101	FPC_C101a	DOFF62	1	1	1	FPC_C101	FPC_C101a	DOFF62	1	1			
63	FPC_DOS63	FPC_DOS63a	BOFF63	63	63	FPC_C102	FPC_C102a	DOFF63	1	1	1	FPC_C102	FPC_C102a	DOFF63	1	1			
64	FPC_DOS64	FPC_DOS64a	BOFF64	64	64	FPC_C103	FPC_C103a	DOFF64	1	1	1	FPC_C103	FPC_C103a	DOFF64	1	1			
65	FPC_DOS65	FPC_DOS65a	BOFF65	65	65	FPC_C104	FPC_C104a	DOFF65	1	1	1	FPC_C104	FPC_C104a	DOFF65	1	1			
66	FPC_DOS66	FPC_DOS66a	BOFF66	66	66	FPC_C105	FPC_C105a	DOFF66	1	1	1	FPC_C105	FPC_C105a	DOFF66	1	1			
67	FPC_DOS67	FPC_DOS67a	BOFF67	67	67	FPC_C106	FPC_C106a	DOFF67	1	1	1	FPC_C106	FPC_C106a	DOFF67	1	1			
68	FPC_DOS68	FPC_DOS68a	BOFF68	68	68	FPC_C107	FPC_C107a	DOFF68	1	1	1	FPC_C107	FPC_C107a	DOFF68	1	1			
69	FPC_DOS69	FPC_DOS69a	BOFF69	69	69	FPC_C108	FPC_C108a	DOFF69	1	1	1	FPC_C108	FPC_C108a	DOFF69	1	1			
70	FPC_DOS70	FPC_DOS70a	BOFF70	70	70	FPC_C109	FPC_C109a	DOFF70	1	1	1	FPC_C109	FPC_C109a	DOFF70	1	1			
71	FPC_DOS71	FPC_DOS71a	BOFF71	71	71	FPC_C110	FPC_C110a	DOFF71	1	1	1	FPC_C110	FPC_C110a	DOFF71	1	1			
72	FPC_DOS72	FPC_DOS72a	BOFF72	72	72	FPC_C111	FPC_C111a	DOFF72	1	1	1	FPC_C111	FPC_C111a	DOFF72	1	1			
73	FPC_DOS73	FPC_DOS73a	BOFF73	73	73	FPC_C112	FPC_C112a	DOFF73	1	1	1	FPC_C112	FPC_C112a	DOFF73	1	1			
74	FPC_DOS74	FPC_DOS74a	BOFF74	74	74	FPC_C113	FPC_C113a	DOFF74	1	1	1	FPC_C113	FPC_C113a	DOFF74	1	1			
75	FPC_DOS75	FPC_DOS75a	BOFF75	75	75	FPC_C114	FPC_C114a	DOFF75	1	1	1	FPC_C114	FPC_C114a	DOFF75	1	1			
76	FPC_DOS76	FPC_DOS76a	BOFF76	76	76	FPC_C115	FPC_C115a	DOFF76	1	1	1	FPC_C115	FPC_C115a	DOFF76	1	1			
77	FPC_DOS77	FPC_DOS77a	BOFF77	77	77	FPC_C116	FPC_C116a	DOFF77	1	1	1	FPC_C116	FPC_C116a	DOFF77	1	1			
78	FPC_DOS78	FPC_DOS78a	BOFF78	78	78	FPC_C117	FPC_C117a	DOFF78	1	1	1	FPC_C117	FPC_C117a	DOFF78	1	1			
79	FPC_DOS79	FPC_DOS79a	BOFF79	79	79	FPC_C118	FPC_C118a	DOFF79	1	1	1	FPC_C118	FPC_C118a	DOFF79	1	1			
80	FPC_DOS80	FPC_DOS80a	BOFF80	80	80	FPC_C119	FPC_C119a	DOFF80	1	1	1	FPC_C119	FPC_C119a	DOFF80	1	1			
81	FPC_DOS81	FPC_DOS81a	BOFF81	81	81	FPC_C120	FPC_C120a	DOFF81	1	1	1	FPC_C120	FPC_C120a	DOFF81	1	1			
82	FPC_DOS82	FPC_DOS82a	BOFF82	82	82	FPC_C121	FPC_C121a	DOFF82	1	1	1	FPC_C121	FPC_C121a	DOFF82	1	1			
83	FPC_DOS83	FPC_DOS83a	BOFF83	83	83	FPC_C122	FPC_C122a	DOFF83	1	1	1	FPC_C122	FPC_C122a	DOFF83	1	1			
84	FPC_DOS84	FPC_DOS84a	BOFF84	84	84	FPC_C123	FPC_C123a	DOFF84	1	1	1	FPC_C123	FPC_C123a	DOFF84					

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95060, USA



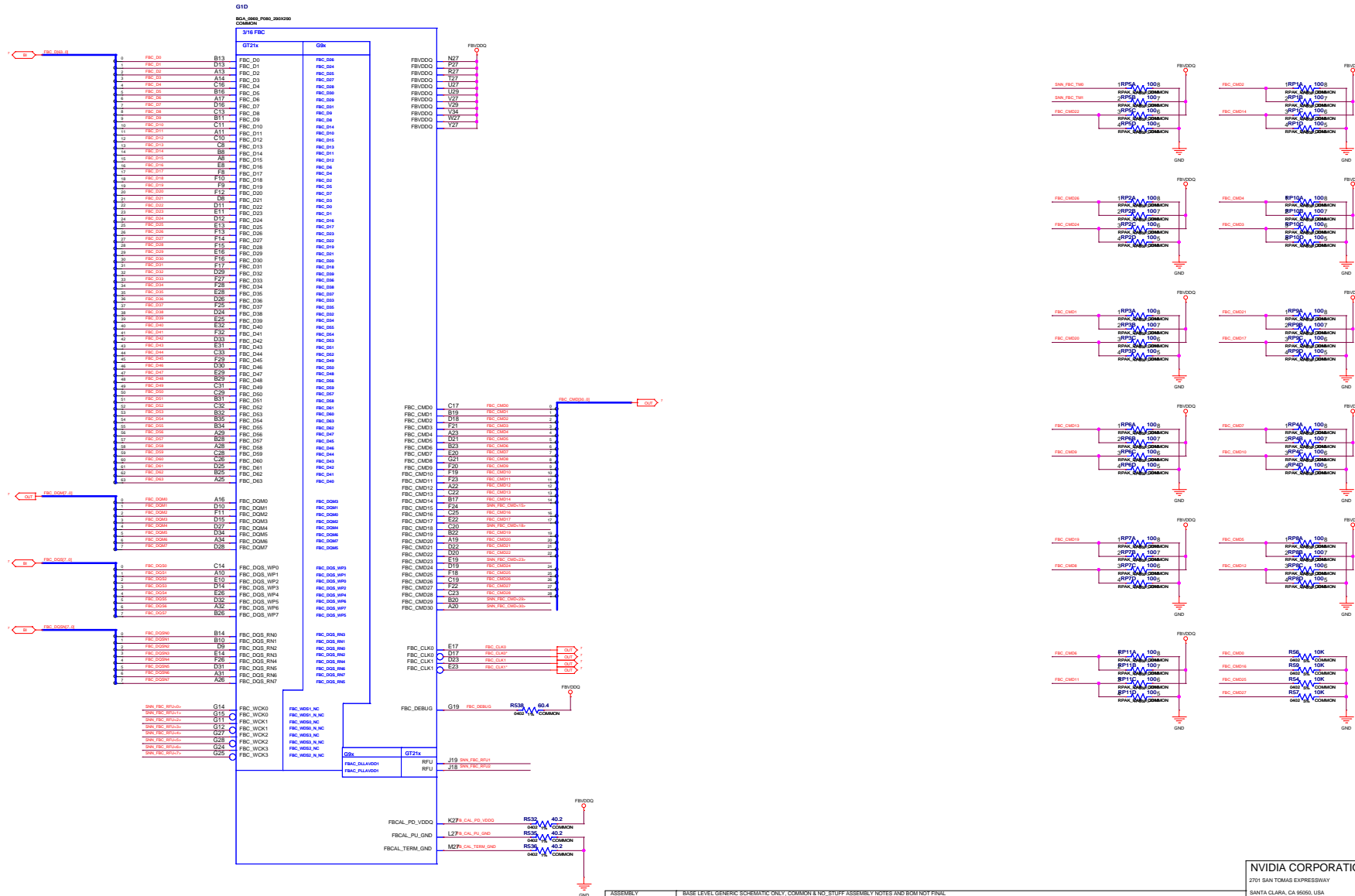
ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, OR EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

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

NV PN	600-10681-base-100 A
-------	----------------------

ID		PAGE	
NAME		DATE	05-FEB-2009

PARTITION C FRAME BUFFER INTERFACE



ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

PARTITION A MOMERIES

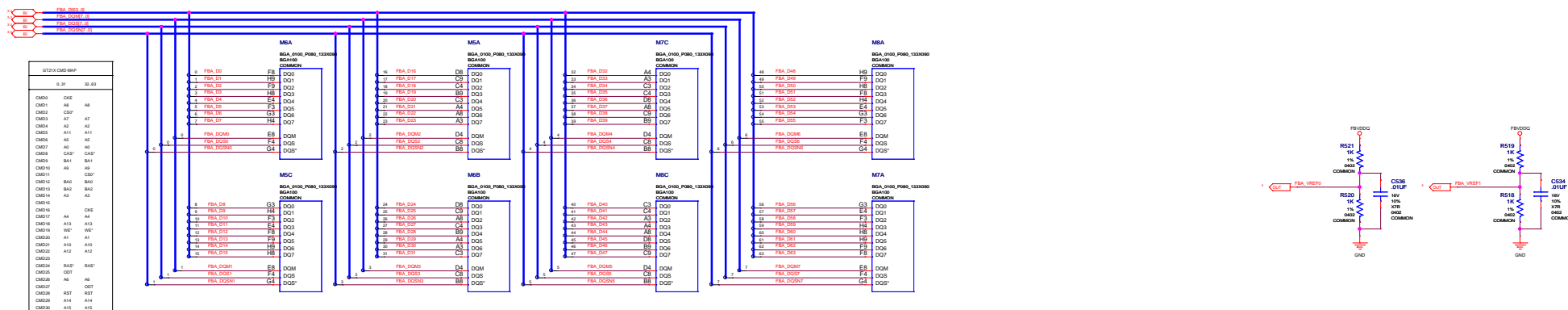
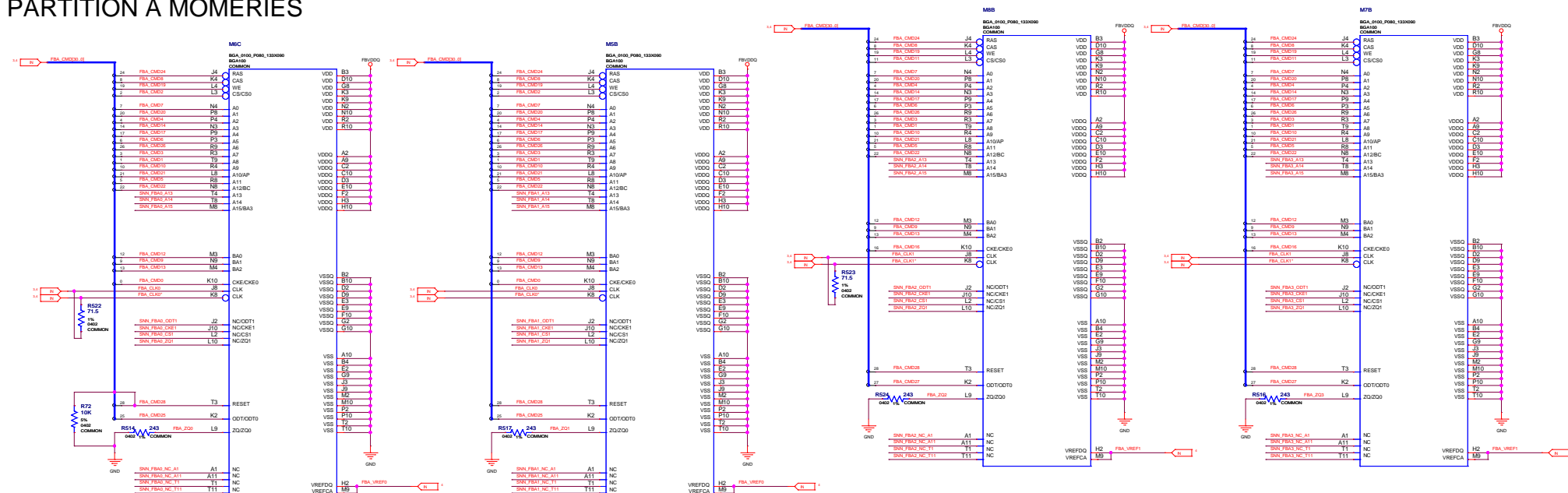


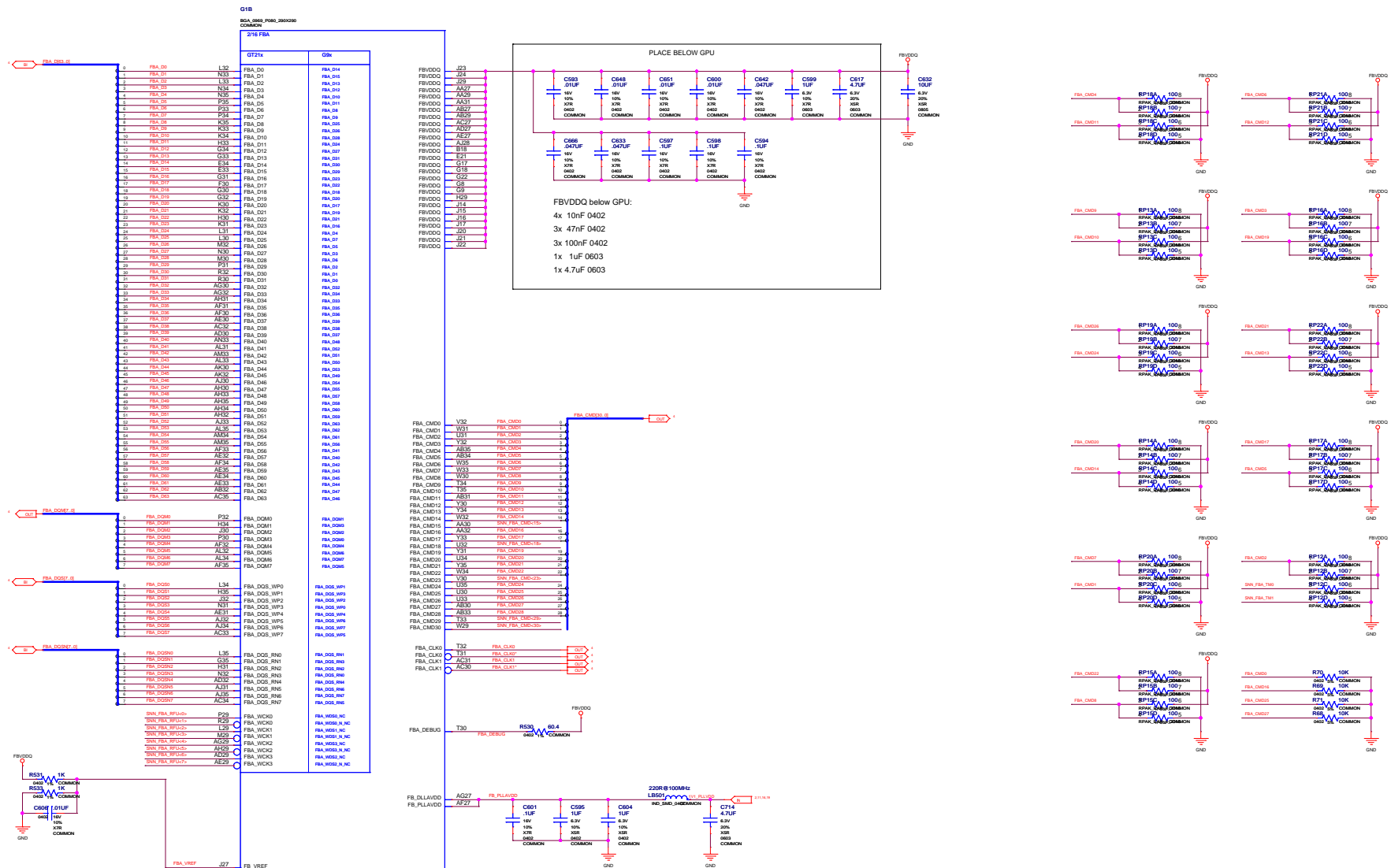
Figure 1 illustrates a multi-ported device with a single critical net. The device has 10 ports (A-J) and is connected to a single critical net. The net is labeled 'NET' and has a 'DIFFPAIR' of 'FRA_DQS0'. The net is connected to the device through a series of multiplexers. The net is also connected to a 'NV_CRITICAL_NET' block. The net is connected to the device through a series of multiplexers. The net is also connected to a 'NV_CRITICAL_NET' block. The net is connected to the device through a series of multiplexers. The net is also connected to a 'NV_CRITICAL_NET' block.

NVIDIA CORPORATION	
2701 SAN TOMAS EXPRESSWAY	
SANTA CLARA, CA 95050, USA	
NV PN	600-10681-base-100 A



ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VULNERABILITIES OR DEFICIENCIES OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

PARTITION A FRAME BUFFER INTERFACE

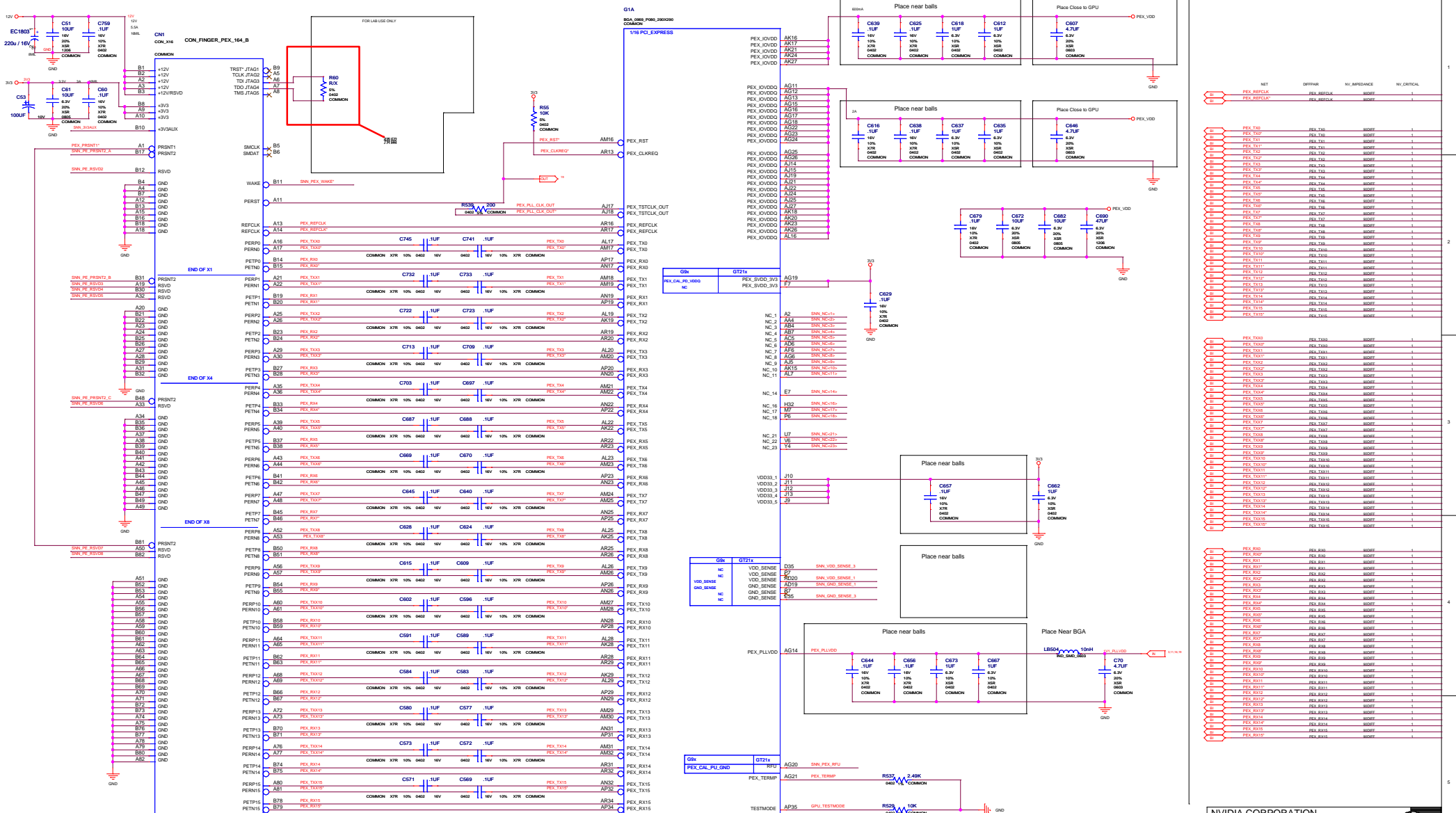


ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

[illegible]

[illegible]

PCI-EXPRESS INTERFACE



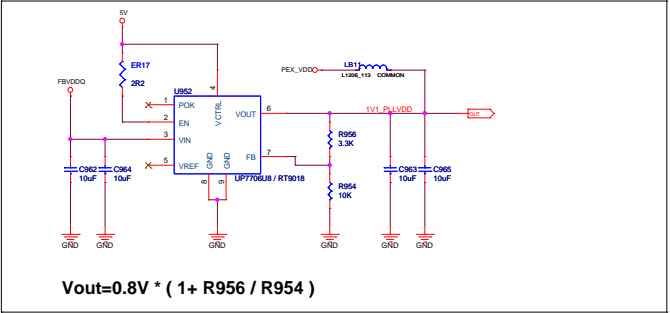
ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN ERRORS AND/OR OMISSIONS, INCLUDING BUT NOT LIMITED TO, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION	
2701 SAN TOMAS EXPRESSWAY	
SANTA CLARA, CA 95050, USA	
NV_P/N 600-10681-base-100 A	
ID	PAGE
NAME	DATE 06-FEB-2009

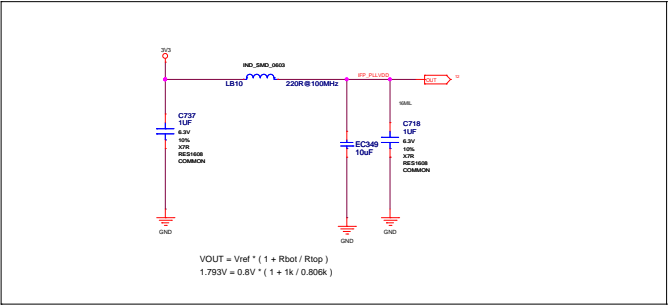
LINEAR POWER SUPPLIES



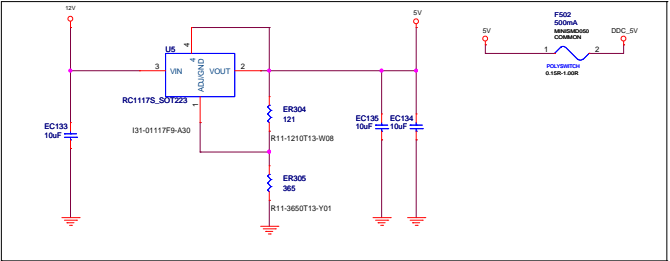
PEX_PLLVDD SUPPLY (OPTION)



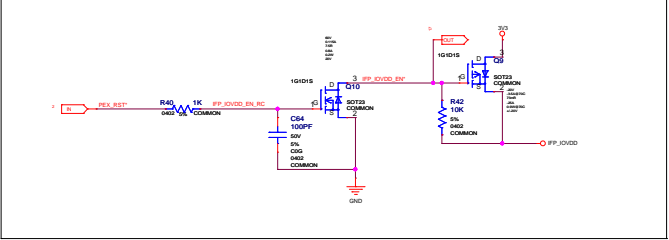
IFP_PLLVDD SUPPLY



5V & DDC_5V REGULATOR



IFP_IOVDD BACKDRIVE PREVENTION

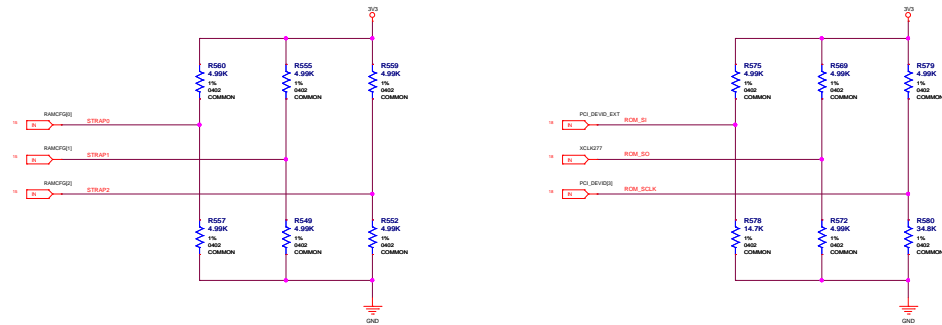


ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

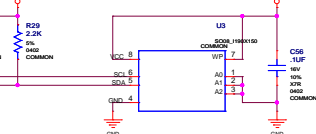
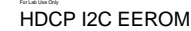
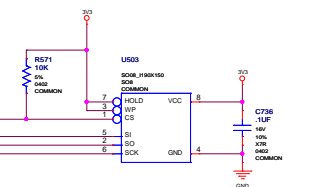
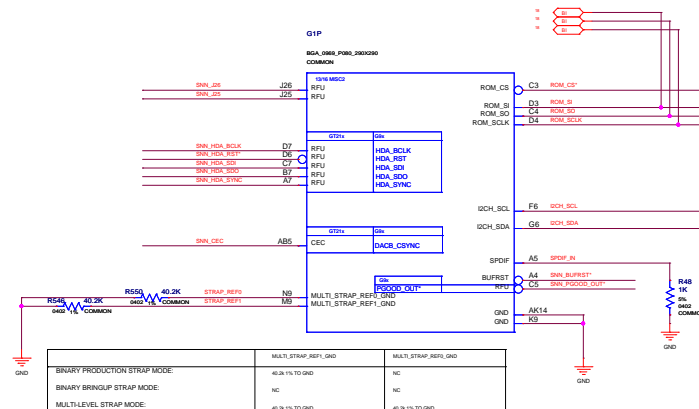
NVIDIA CORPORATION			
2701 SAN TOMAS EXPRESSWAY			
SANTA CLARA, CA 95050, USA			
NV_PN	600-10681-base-100 A		
ID		PAGE	
NAME		DATE	06-FEB-2009

BIOS ROM, HDCP ROM, STRAPPING OPTIONS

STRAPPING OPTIONS



Step0	USEDC[0]	END0 1100	
Step1	JGO_PANDQ[0]	DESKTOP_0000	
Step2	PCI_DEVNO[0]	07210-200 (0A2) 0001	
	0001 1288 648A16 D0D0 Grounds 0010 1288 648A16 D0D0 Inps 0011 1288 648A16 D0D0 Samsung	1001 648 648A16 D0D0 Grounds 1010 648 1288A16 D0D0 Inps 1011 648 648A16 D0D0 Samsung	
ROM_S1	RANCFCS[0]	0101 1288 1288A16 D0D0 Grounds 0110 1288 1288A16 D0D0 Inps 0111 1288 1288A16 D0D0 Samsung	1101 648 1288A16 D0D0 Grounds 1110 648 1288A16 D0D0 Inps 1111 648 1288A16 D0D0 Samsung
ROM_SCLK	3 PCI_DEVNO_0[37] 2 S1A_VENDOR[0] = 0000 (not present) 1 S1C7_CLK_0[25:1] = 00000000 (M0000000) 0 P1C7_P1S_0[31_28] (0 = disabled pin test)	0110	
ROM_S0	3 K1X_0[31] (0 = P0R 27F000) 2 P1S_0_S0[0_25] (0 = P0R 000000) 1 S0R0_ALT_0[30:0] (S0R0_1 = notGSP0) 0 V0R_0[30:0] (S0R0_0 = notGSP0, V0R0_0 = notGSP0)	0001	
			0 P0 3a 1 P0 1a 2 P0 1a 3 P0 2a 4 P0 2a 5 P0 3a 6 P0 3a 7 P0 4a



	MULTI_STRAP_REF1_GND	MULTI_STRAP_REF2_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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

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

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

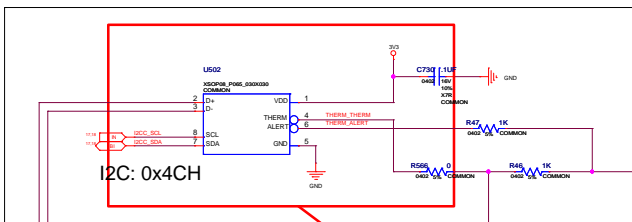


NV_PN	600-10681-base-100 A
-------	----------------------

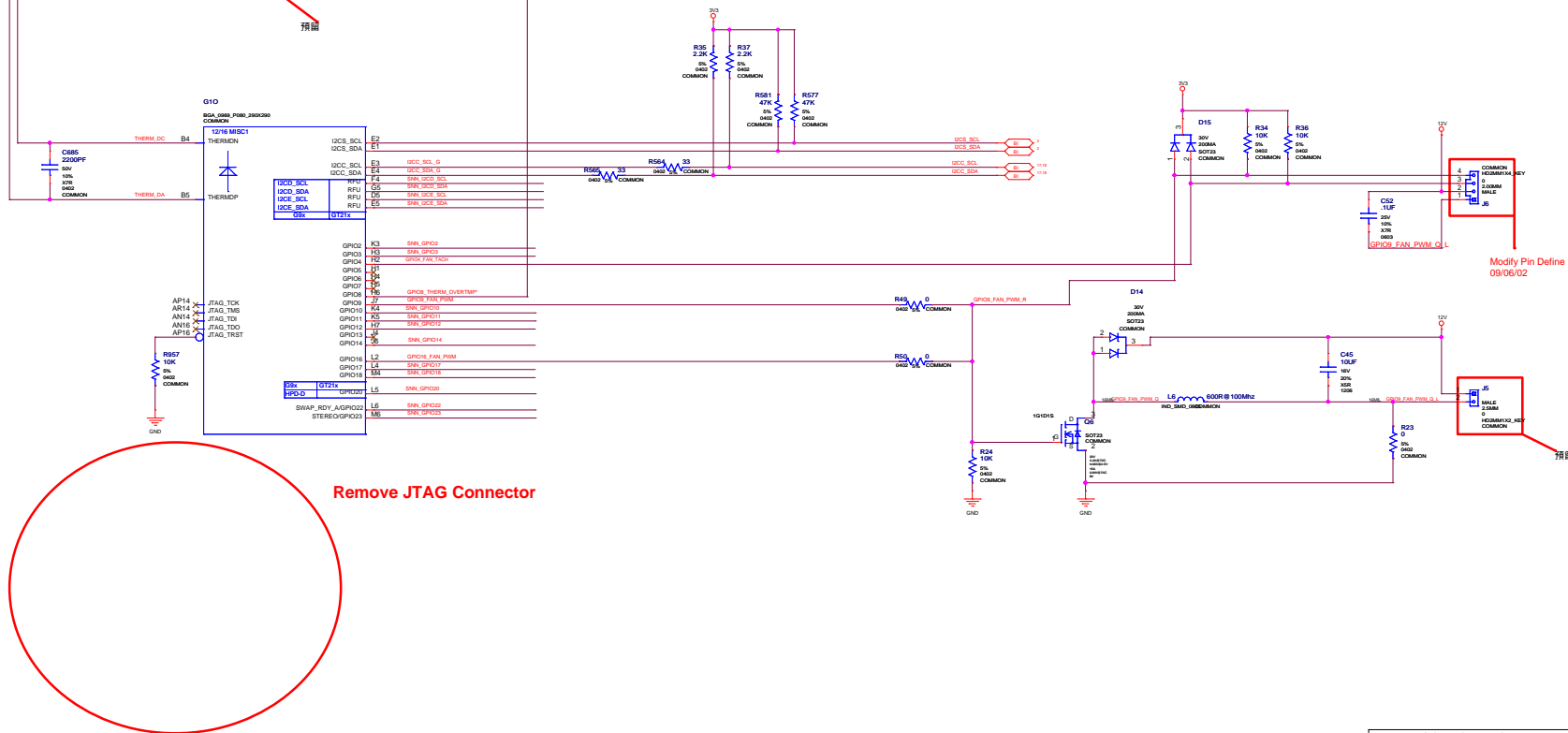
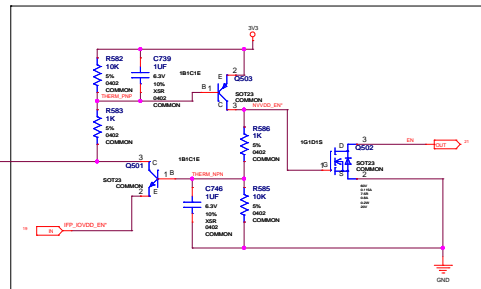
ID		PAGE	
NAME		DATE	05-FEB-2009

EXTERNAL THERMAL SENSOR, FAN CONTROL, GPIO, JTAG

THERMAL SENSOR



OVERTEMP LATCH



Remove JTAG Connector

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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES AND CONDITIONS, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

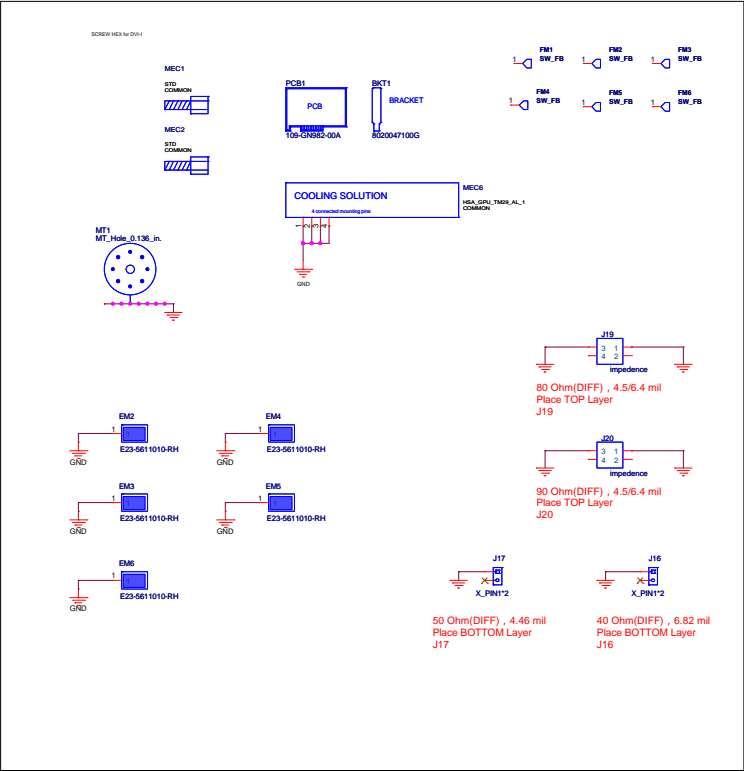
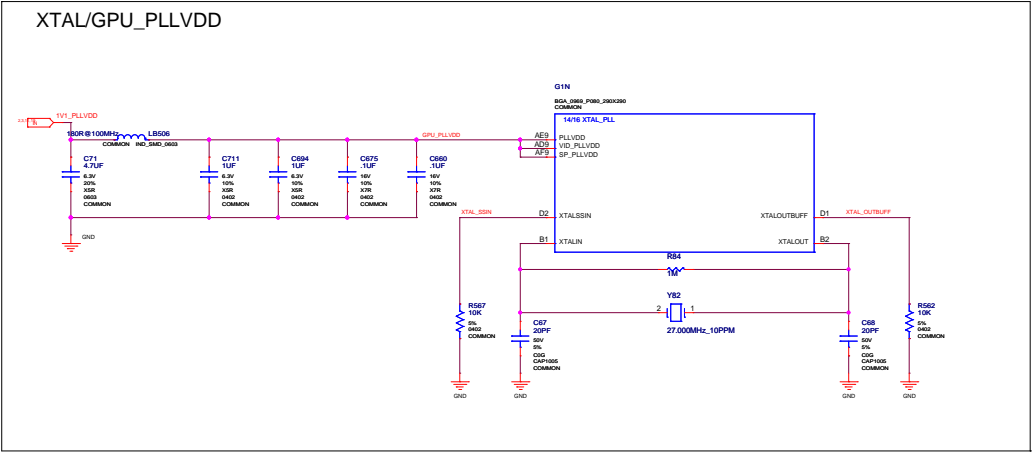
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A
-------	----------------------

ID		PAGE	
NAME		DATE	05-FEB-2009



XTAL, MECHANICALS, THERMALS

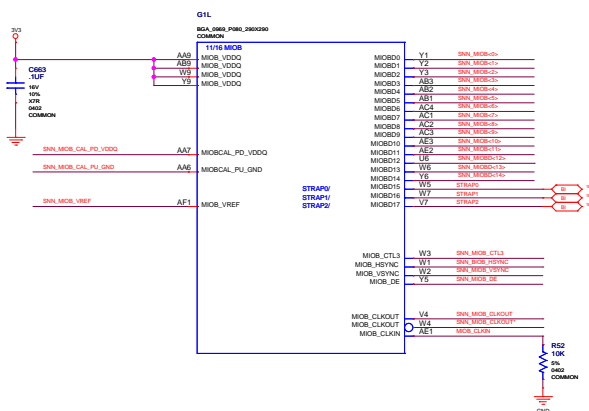
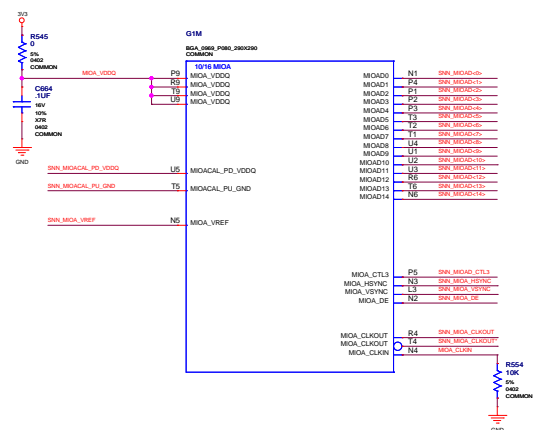


ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY; COMMON'S NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	XTAL, MECHANICALS, THERMALS

NVIDIA CORPORATION	
2701 SAN TOMAS EXPRESSWAY	
SANTA CLARA, CA 95050, USA	
NV_PN	600-10681-base-100 A
ID	
NAME	
DATE	05-FEB-2009

MIOA & MIOB



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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

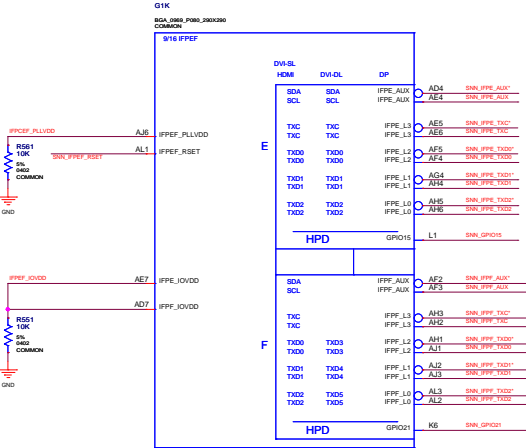
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95060, USA



NV_PN	600-10681-base-100 A
-------	----------------------


ID		PAGE	
NAME		DATE	05-FEB-2009

IFP EF (UNUSED)



ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.


NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA



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

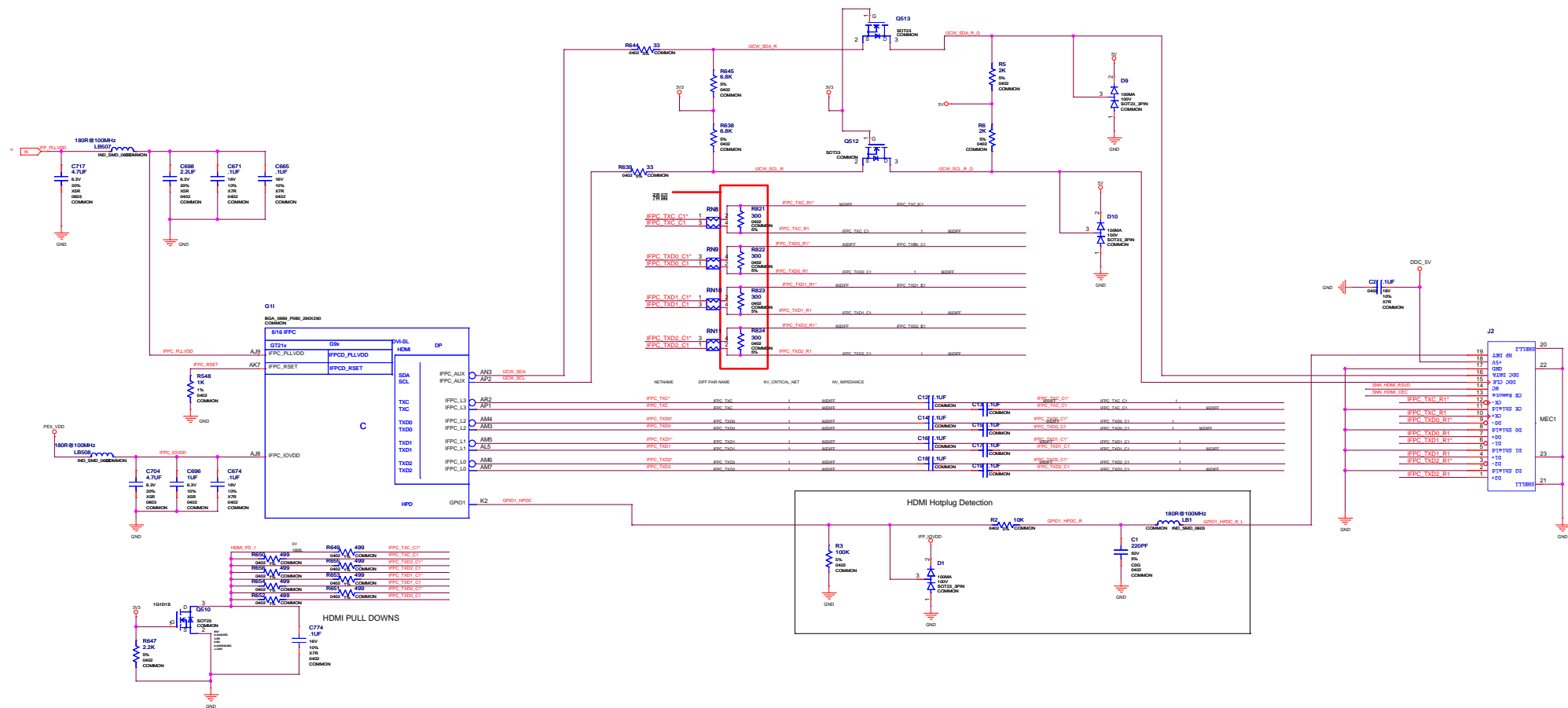
S



NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
NV_PN 600-10681-base-100 A			
ID		PAGE	
NAME		DATE	05-FEB-2009

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

IFP C (NORTH HDMI)



ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS". THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN INCLUSIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

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

NVIDIA CORPORATION

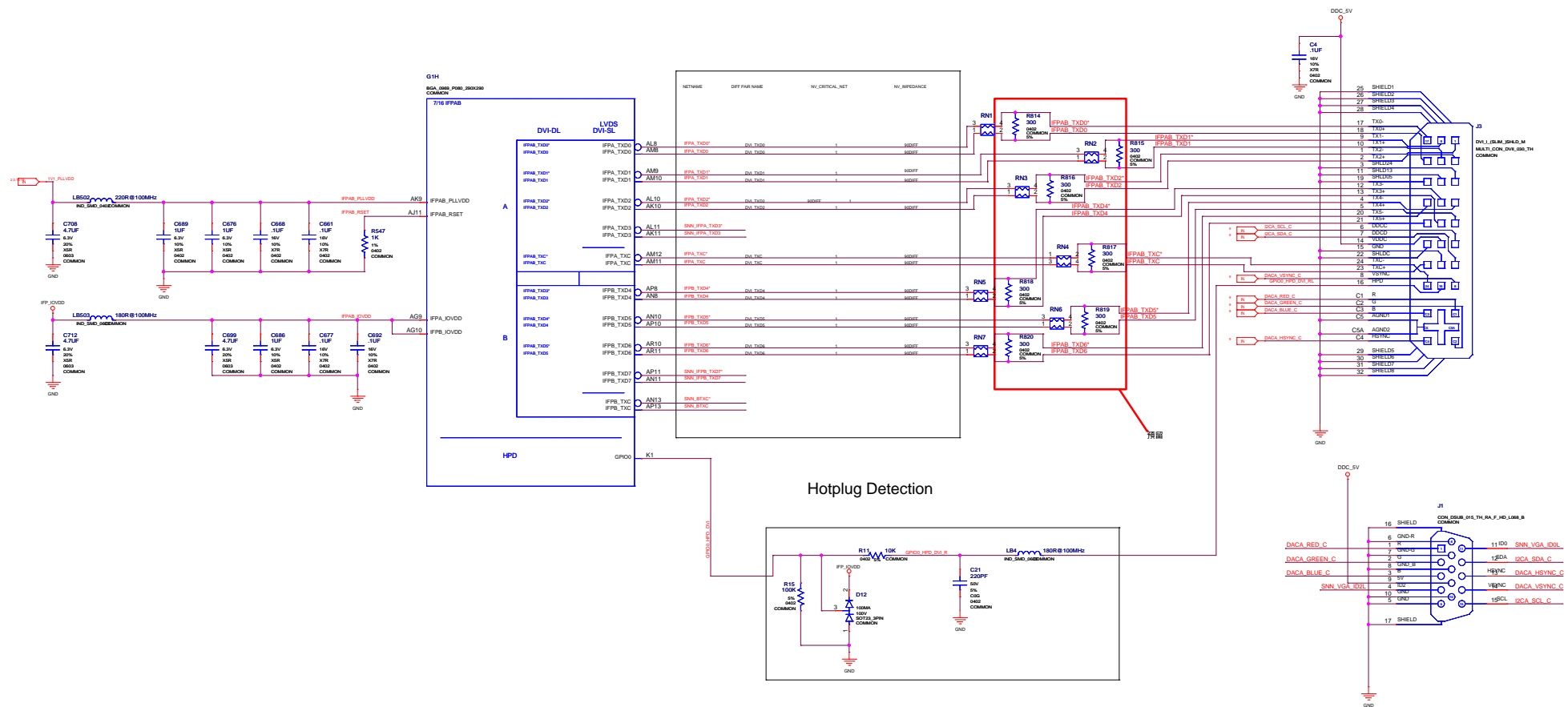
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA



NV_PN	600-10681-base-100 A
-------	----------------------

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)

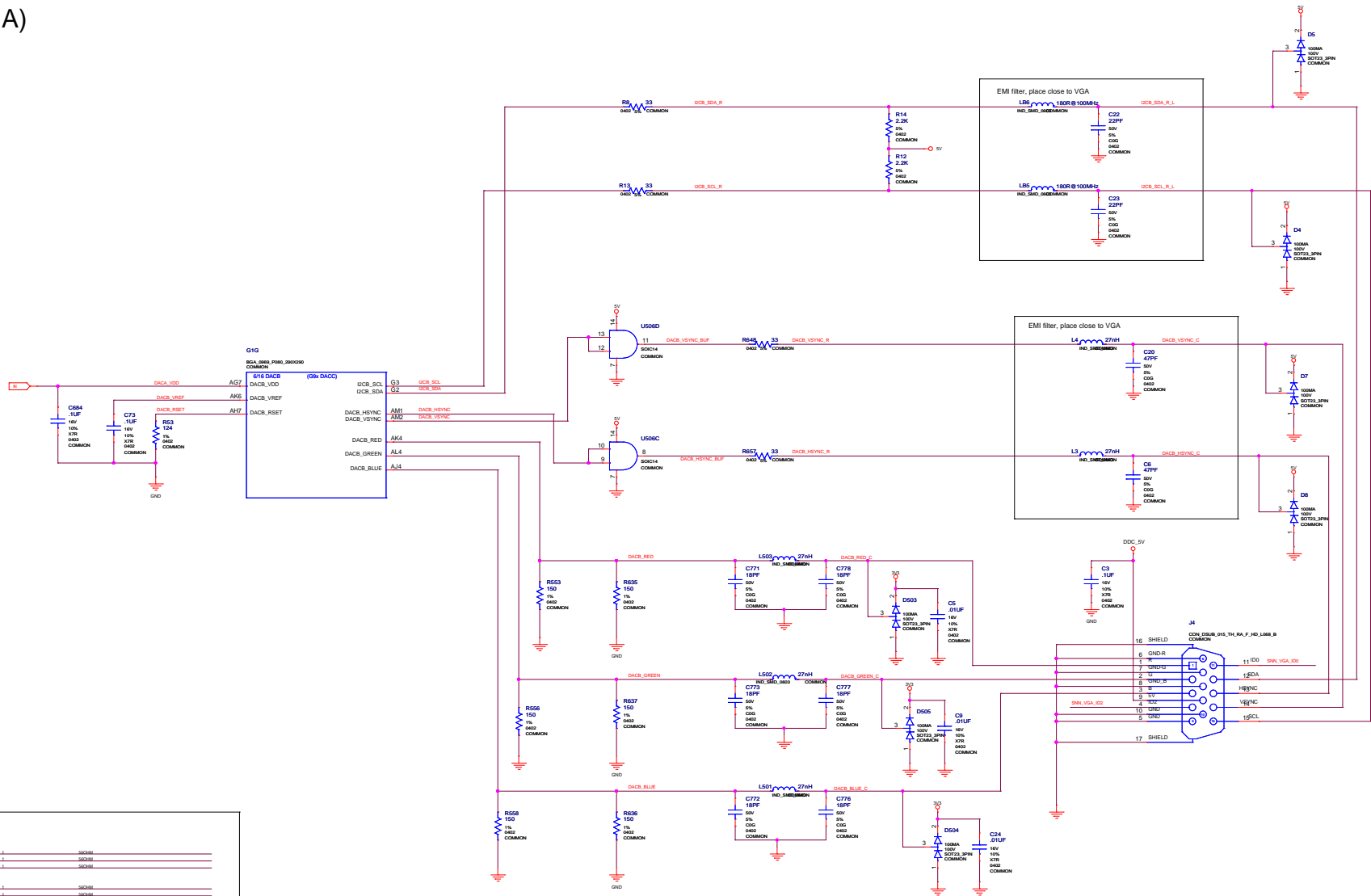
ALL INVIDA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. INVIDA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION	
2701 SAN TOMAS EXPRESSWAY	
SANTA CLARA, CA 95050, USA	
NV_PN	600-10681-base-100 A



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

DACB (MID VGA)



91	DACH RED	1	ISO/IR1
92	DACH GREEN	1	ISO/IR1
93	DACH BLUE	1	ISO/IR1
94		1	
95	DACH RED C	1	ISO/IR1
96	DACH GREEN C	1	ISO/IR1
97	DACH BLUE C	1	ISO/IR1
98			
99	DACH YELLOW	2	ISO/IR1
100	DACH RED	2	ISO/IR1
101	DACH GREEN	2	ISO/IR1
102	DACH YELLOW R	2	ISO/IR1
103	DACH RED R	2	ISO/IR1
104	DACH GREEN R	2	ISO/IR1
105	DACH RED RUF	2	ISO/IR1
106	DACH GREEN RUF	2	ISO/IR1
107	DACH YELLOW C	2	ISO/IR1
108	DACH RED C	2	ISO/IR1
109	DACH GREEN C	2	ISO/IR1

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

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OR NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-10681-base-100 A
-------	----------------------

ID		PAGE	
NAME		DATE	05-FEB-2009



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
B	BASE	600-10681-000-100	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 900MHz 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	SKU0011	600-10681-0011-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 900MHz DDR3 DVI-I/VGA/HDMI
4	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
5	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
6	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
7	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
8	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
9	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
10	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
11	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
12	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
13	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
14	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
15	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTIC LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED AS IS. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

NVIDIA CORPORATION

2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA



NV_PN 600-10681-base-100 A

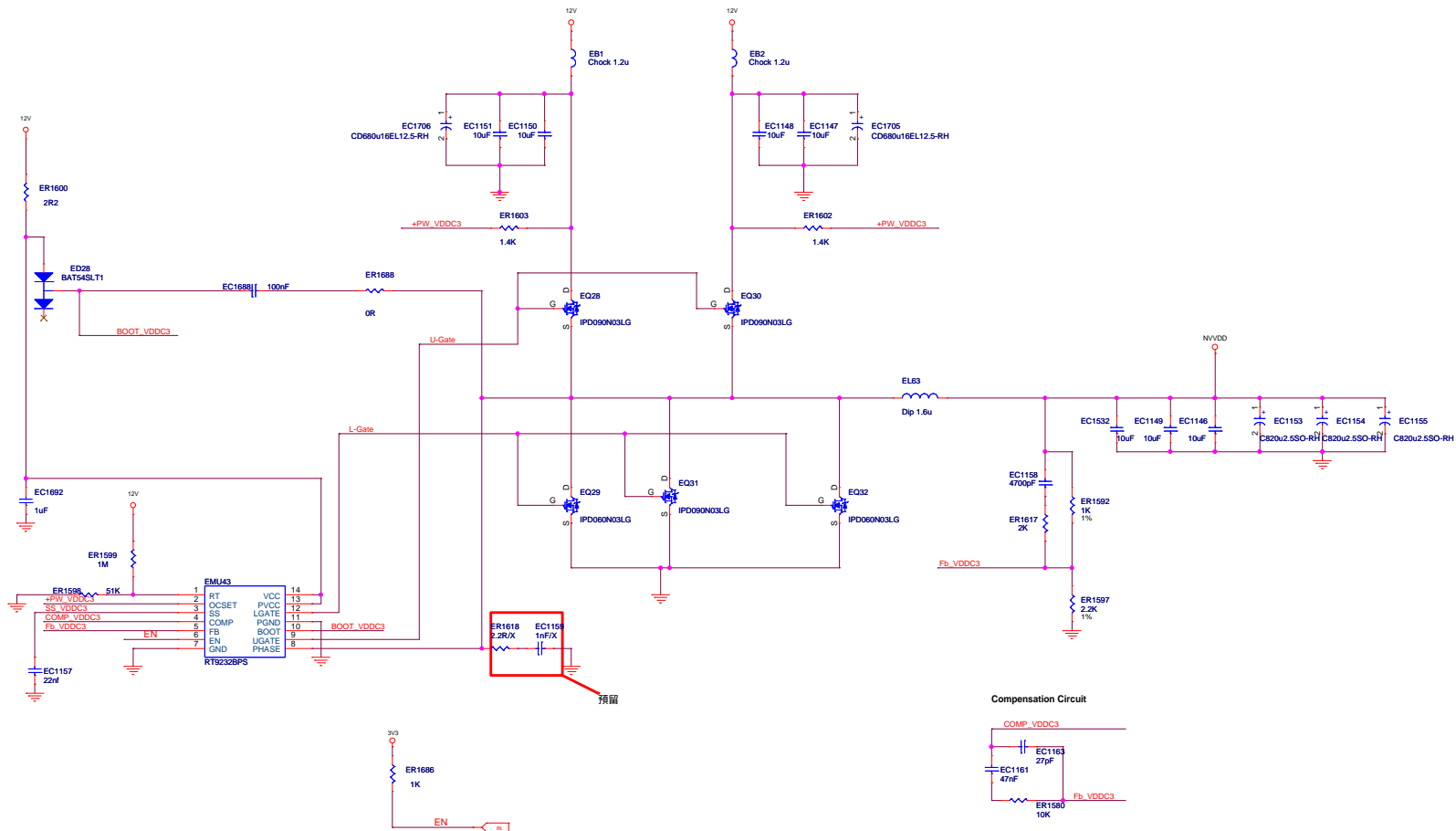
ID	PAGE
NAME	DATE 02 FEB 2009

[illegible]

<p>CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC 72070 Advanced Micro Devices Inc. This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD. This document and its contents are not to be copied, reproduced, or disclosed in any form without the express written permission of AMD. This document is for internal use only and is not to be distributed outside of AMD. This document is not to be used for any purpose other than the evaluation specified in a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind for this schematic and design, and does not intend to be bound by any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from the use of the information included herein.</p>	<p>Advanced Micro Devices Inc. 1 Commerce Valley Drive East Markham, Ontario</p>
<p>Title RH R730 512MB DDR2 DL-DVI DP HDMI FV 6'</p>	<p>AMD</p> <p>Date: Monday, June 22, 2009 Rev 0</p> <p>Sheet 13 of 204 Joc No. 105-B665xx-00A</p>

NVVDD POWER

CORE REGULATOR NVVDD



$$NVVDD = 0.8 * (1 + (ER1592 / ER1597))$$