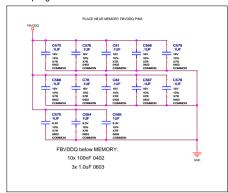
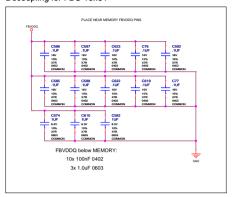


### FBC DECOUPLING CAPS & NVVDD DECOUPLING CAPS

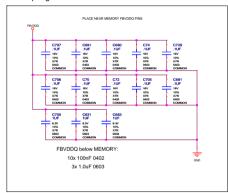
#### Decoupling for FBC 0..15



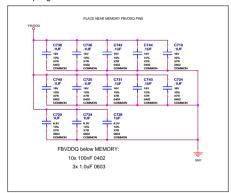
#### Decoupling for FBC 16..31

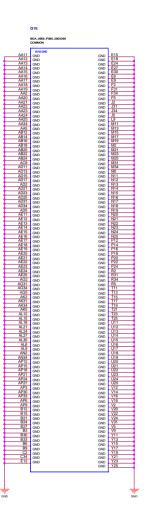


#### Decoupling for FBC 32..47



#### Decoupling for FBC 48..63





NVIDIA CORPORATION
2751 BATE LEVEL CORRECT SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY WORKER AND BOMINTOF FROM.

ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM.

ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM.

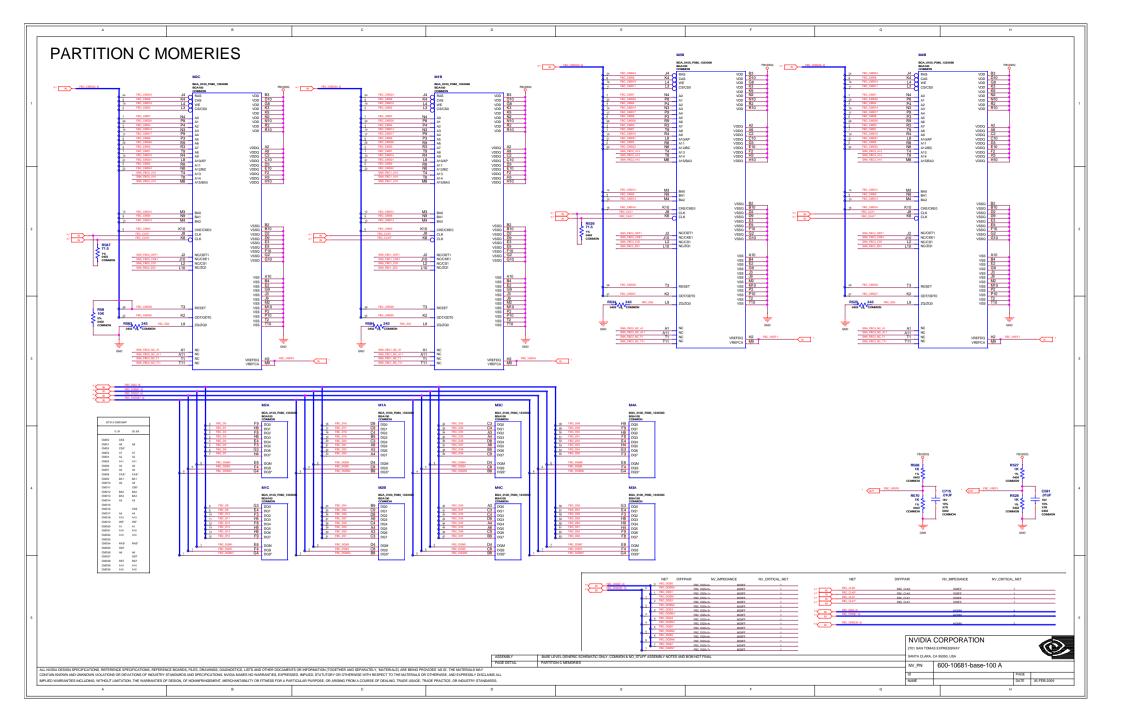
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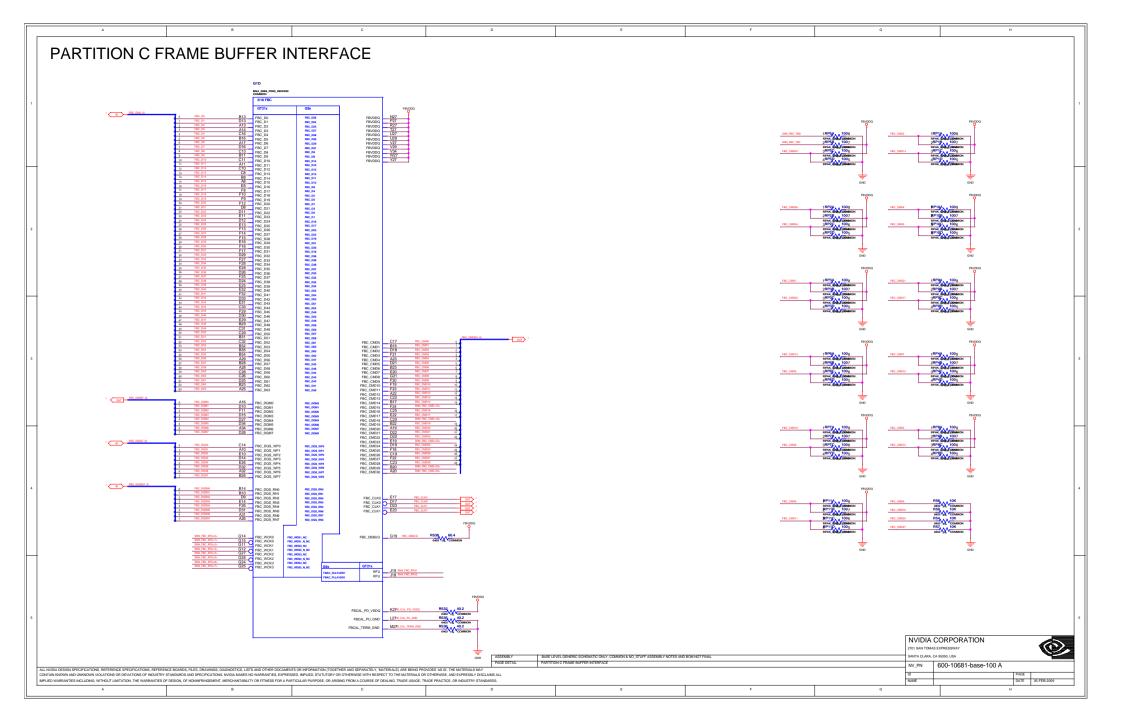
ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM.

ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM.

ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM.

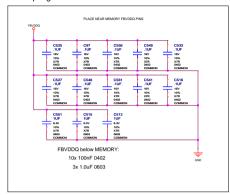
ALL MICHAEL SHEED SCHAMAN CORP. COMMON E NO. STUFF ASSEMBLY KNTERS AND BOMINTOF FROM E NO. STUFF ASSEMBLY KNTERS AND BOMINTO



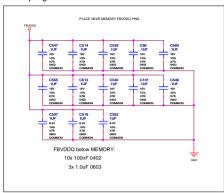


### FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

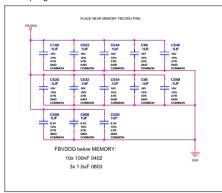
#### Decoupling for FBA 0..15



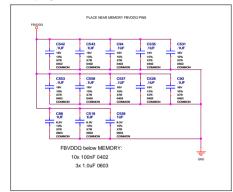
#### Decoupling for FBA 16..31



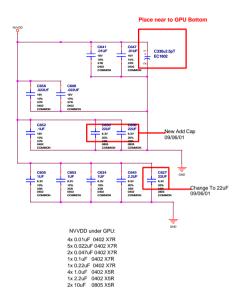
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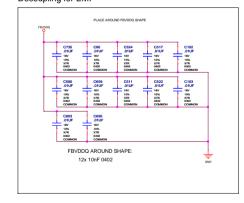
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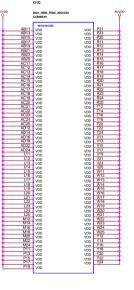






#### Decoupling for EMI





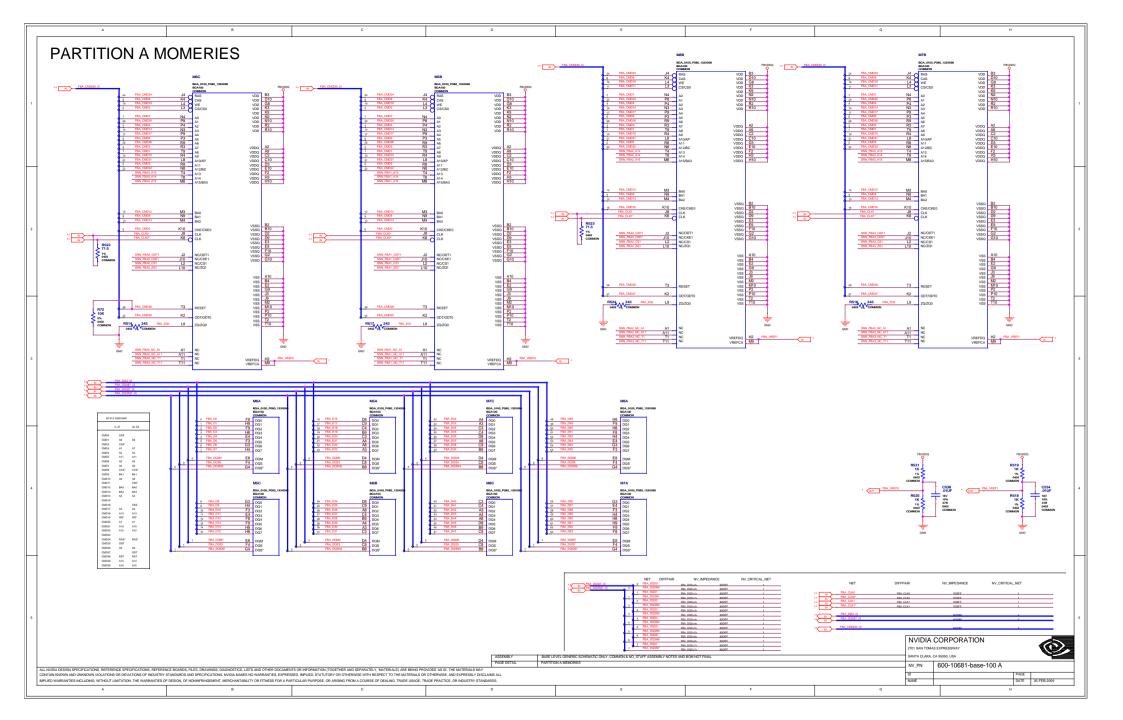
FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS

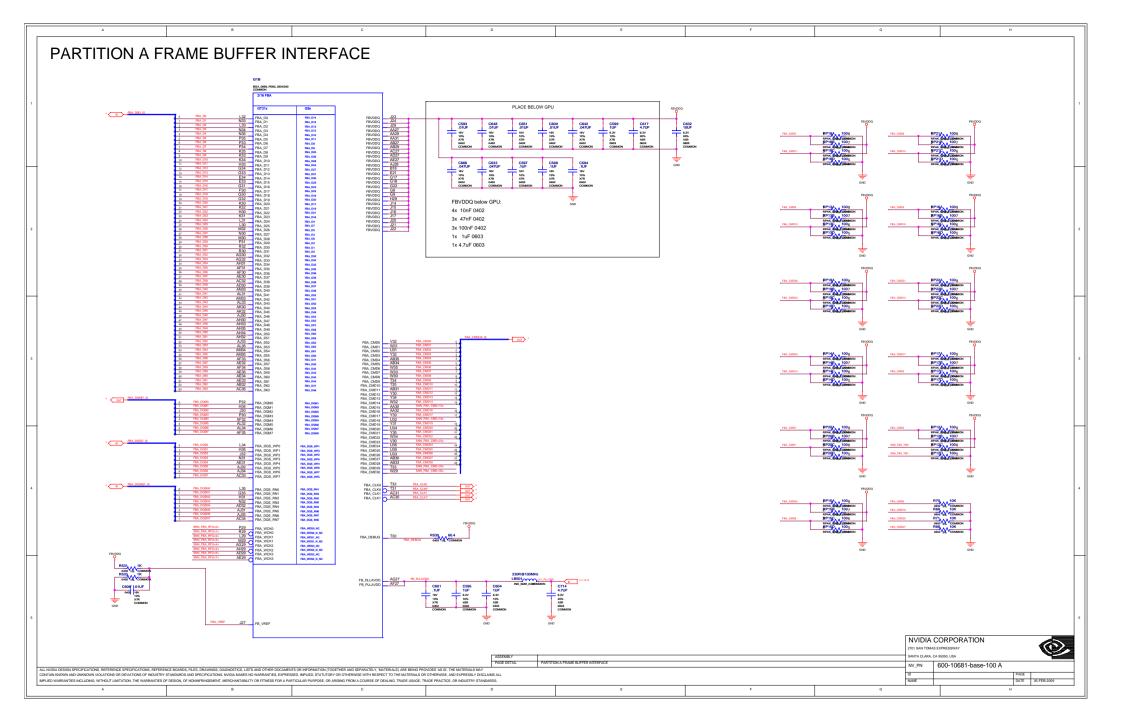
600-10681-base-100 A DATE 05-FEB-2009

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ALL WIDE DESIGN SPECEFACTIONS, REFERENCE SPECEFACTIONS, REFERENCE BOMOS, FLES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR REFORMATION (TOGETHER AND SEPARATELY, MATERIALS) ARE SERIOR PROVIDED AS S' THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING WALD INDICATE OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING WALD INDICATE OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR DEVIATION OF REQUEST STREAMS AND ADDRESS OF THE MATERIALS OF THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIALS MAY CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR PROVIDED AS SO, THE MATERIAL SAN CONTIAN KNOWN AND UNMOVING OR P





A		В	С	D	E		F	G	н
Cref Part	C89 [20.2F]	C962 [8:2A]	C658 [11.38]	C763 [9.28]	7.28] MS [7.2F7.4D	R52 [17.4E]	R528 (6.5D)	RPS (C.4H C.4H	
p681 Jan 22 2 2009	C90 [20.2F] C91 [20.3H]	C563 [8.28] C564 [8.18]	C659 [2.3F] C660 [15.38]	C764 [10.3E] C765 [10.4E]	7.40	R53 [13.3C] R54 [15.5D]	P529 (6.5D) P530 (2.5F)	6.4H) RPs [6.3H 6.3H 6.2H	
Jan 22	C92 [21.4G]	CSSS [2.5C]	C661 [12.28]	C765 [10.4E]	M4 (7.4E 7.4D	R55 [10.38]	R531 (6.4D)	6.2H)	
2 2009	C92 [21.40] C93 [20.30] C94 [5.30]	C565 [2.5C] C566 [8.1A] C567 [2.5C]	C662 [3.20] C663 [11.38]	CTGS [10.4E] CTGT [12.4B] CTGS [2.4F]	7.2H] MS [4.4C 4.4B	R56 [5.4H] R57 [2.1C]	R532 [2,2C] R533 [9,3D]	RP10 [6.3H 6.2H 6.3H]	
	C95 (5.3D)	CS68 12.5C1	C664 [2.3C]	C769 [10.4F]	4.20]	858 SC4H	R534 [9.40]	RP11   [6.4G 6.4G 6.4G	
[15.4E] [12.4F] [10.3G]	C96 (5.38) C97 (5.10)	C950 [2.5C] C970 [8.5C] C971 [8.2A] C972 [8.1A]	C665 [2.3C] C666 [2.4F]	C770 [10.4F] C771 [10.3F]	MS [4.28.4.48 4.4C]	R50 [6-04] R60 [7-34] R61 [6-04] R62 [20,2F]	R535 [9.50] R536 [9.38]	6.4G] RP12 [3.4H.3.4H.3.4H	
	C98 [5.1A]	C571 [8.2A]	C667 [12.28] C668 [2.29]	C772 [9.5F] C773 [9.3F]	M7 [42H4AE 44D]	R61 [6.4H]	R537 [13.3C] R538 [18.48]	3.4H] RP13 13.2G 3.2G	
	C100 [5:38]	CS73 [2.5C]	C669 [12.48]	C774 [9.5F]	MS [4.2F 4.4E	R62 [20.2F] R63 [20.4B]	R539 [11.38]	3.26]	
(12.3G) (12.4f) (10.3G) (3.1G) (3.1G) (14.4G)	C101 (5.3A)	CS74 (8.28)	C670 [16.38] C671 [11.38]	CTTT ID ATT	4.40) MEC1 (16.27)	R64 [20.48]	R540 (12.38) R541 (18.28)	RP14 [3.3G 3.3G 3.3G 3.3G	
(10.36) (9.26)	C102 [5:20] C103 [20:4F]	C575 [8.18] C576 [2.5C] C577 [7.4h] C576 [8.2D]	C672 [11.38]	CITIE [8-37]  CNT [2-36]  D1 [12-46]  D2 [8-36]  D3 [0-16]	MEC2 [16.2F]	NGC [DD.29]  RGC [DD.48]  RGA [DD.48]  RGS [DD.22]  RGS [DD.42]  RGF [DD.42]  RGF [DD.42]	R542 [18.46]	RP15 [3.4G.3.4G.3.4G	
[9.1G]	C104 [5.4F] C105 [5.4F]	CS77 [7.4H]	C673 [2.2F] C674 [2.4F]	D1 [12.4E]	MEC3 [1638] MEC4 [1628]	RET [20.4E]	R543 [18.2C] R544 [14.3C]	3.4G) RP16 [3.2H.3.2H.3.2H	
[9.2G]	C106 [5.5C] C107 [20.3G]	CS79 [2.4C] CS80 [2.4C]	C675 [8.38]	D3 [9.16]	MECS [16.2E]	R69 [20.4F] R70 [20.4F]	R545 [10.3D]	3.2H)	
(8.2G) (8.3G) (12.2D)	C107 [20.3G] C108 [20.3D]	C580 [2.4C] C581 [8.2C]	C676 [8.28] C677 [2.29]	D4 [10.2E] D5 [10.1E]	MECS [18.3G] Q1 [12.4D]	R70 [20.4F] R71 [20.4G]	R546 [18.28] R547 [10.40]	RP17 (3.3H.3.3H 3.3H)	
[12.3E]	C109 [20.30] C110 [20.30]	C562 [8.1C] C563 [8.1C]	C678 [8.48] C679 [10.38]	D6 (12.2E) D7 (8.3F)	02 [12.16] 03 [12.26]	R72 [3.4H] R73 [3.4H]	8548 (18.26) 8549 (10.20)	RP18 [3.1G.3.1G.3.1G	
(12.3E) (12.3E) (12.3E)	C110 [20.30] C111 [21.40]	CS83 [8.1C] CS84 [8.2C]	C679 [10.38] C680 [17.38]	D7 [9.3F] D6 [10.2F]	Q3 [12.2E] Q4 [11.4D]	R73 [3.4H] R74 [20.3G]	R549 [10.5D] R550 [18.2C]	3.1G) RP19 (3.3G 3.3G 3.2G	
[12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-26] [12-27	C112 [21.4D]	C585 [2.4C] C586 [5.4E]	C681 [11.38]	D9 [10.3F]	Q5 (20.28)	R75 (20.3D)	R551 [18.28]	3.2G)	
[12.3E] [12.3E]	C113 [21.3E] C114 [21.4H]	CS86 [5.4E]	C682 [2.3C] C683 [2.3C]	D10 [8.2F]	G6 [21.4F]	R76 [3.4H]	R552 [14.3C] R553 [16.3D]	RP20 [3.4G 3.4G 3.4G 3.4G]	
[12.36]	C115 [21.4G]	CS87 [2.4C] CS88 [8.1D] CS89 [3.1D]	C684 [11.38]	D11 [11.4E] D12 [12.2E] D13 [17.4F]	07 [21.4F] 08 [17.4F]	R77 [3.4H] R78 [4.3A]	R554 [7.3A]	RP21 [3.1H.3.1H.3.1H	
[12.3E] [12.3G]	C116 [20.2G] C117 [21.4H]	C589 [3.1D]	C685 [2.2G]	D13 [17.4F]	O9 [21.2F]	R79 [21-44]	R555 (17.3D) R556 (17.3D)	3.1H) RP22 (3.3H 3.3H 3.2H	
10.2G)	C118 [21.4G]	CS90 [3.2E] CS91 [3.5D]	C686 [8.3A] C687 [10.38]	D15 [17.3F]	Q10 [21.2F] Q11 [19.4G]	R80 [21.4A] R81 [21.48]	R557 [17.2C]	3.2H)	
11.4F] 10.1G]	C119 [15.28] C120 [21.3C]	CS92 [3.5D] CS93 [2.4C]	C688 [11.38] C689 [9.3A]	D14 [19.46] D15 [17.39] D16 [18.56] D001 [20.39]	Q12 [19.4F] Q13 [17.2E]	Re2 (21.18) Re3 (15.18)	R558 [16.3C] R559 [7.4G]	U1 [12.2E] U2 [19.4B]	
10.2G)	C130 [17.1E]	C594 (3.2D)	C690 [16.38]	D502 [17.2E]	Q14 (20.2E)	R64 (15.3D)	R550 [18.2D]	U3 (18.9F)	
10.2F] 9.2F]	C131 [17.28] C133 [21.48]	CS95 [3.2D] CS96 [3.1E]	C691 [5.4F] C692 [12.4A]	D503 [17.2F] D505 [10.3E]	Q15 [20.3E] Q16 [20.4F]	RBS [21.4C] RBS [21.4C]	R561 [7.4G] R562 [16.3F]	U4 [18.4F] U5 [19.2B]	
19.4C]	C501 [20.28] C502 [20.20]	CS97 [3.1D] CS98 [3.5C]	C693 [2.3C]	D509 [10.5E] D510 [10.4E]	Q17 [20.48]	R101 (20.48) R167 (21.18)	R563 [18.20]	US [21.20] US01 [20.30]	
11.4E) 19.4B)	C503 [5.2C]	C596 [3.5C] C599 [2.4C]	C694 [8.4A] C695 [9.3A]	DS11 (9.4E)	Q18 [20.4C] Q19 [21.48]	R168 [21.3A]	R565 [19.2F] R566 [19.2F]	US02 [17.28]	
20.38	C504 (5.4A)	C599 [2-4C] C590 [5-4E] C601 [3-5D]	C696 [12.2A]	DS12 [9.5E] DS13 [9.4E]	Q20 [17.1E]	R169 [21.3A]	R567 [18.20]	US03 [18.3F]	
70-26] 20-26] 19-46] 21-16] 20-26]	C505 [5.44] C506 [5.5C] C507 [5.4F]	C601 [3.5D] C602 [5.2E] C603 [3.5A]	C697 [10.3A] C698 [9.3A]	DS13 [2.45] F1 [19.4C] G1 [2.3D]	Q502 [17.2F] Q503 [21.2B]	R170 [21.44] R171 [21.34] R172 [21.38]	R568 [19.2F] R569 [17.3E]	US04 [19.2F] US06 [9.2D 9.2D]	
20.28)	C507 [5.4F] C506 [5.2B]	C603 [3.5A] C604 [2.1P]	C699 [2.3C]	G1 [2:3D] G1 [3:3C]	Q504 [21.28]	R172 [21.38]	R570 [18.20]	US06 (10.2D 10.3D)	
21.1E  12.4B  12.4A	C508 [5:28] C509 [5:20] C510 [5:10]	C664 [2.1F] C665 [5.2F] C666 [2.4C]	C700 [12.4A] C701 [8.3B] C702 [8.3A]	G1 [3.3C] G1 [5.4H] G1 [6.3C]	Q505 [21.38] Q507 [21.28] Q508 [12.4A]	R173 [21.38] R174 [21.2C] R175 [21.3C]	P5572 [17.3E] P5573 [16.2E] P5574 [16.2E]	At [serac]	
9.44)	C510 [5.1C]	C606 [2.4C]	C702 [8.3A]	G1 [6:30]	Q508 [12-4A]	R175 [21.3C]	R574 [18.2E]		
1.36)	C511 [5.2A] C512 [5.2B] C513 [5.4F]	C607 [8.2C] C608 [5.2F] C609 [2.1F]	C703 [8:3A] C704 [11:3A]	G1 [8:3G] G1 [9:3C] G1 [10:3C]	R1 [12:4D] R2 [12:4F]	R176 [21.3C] R177 [21.3C]	PSS0 (7.3C) PSS1 (7.2A) PSS2 (21.2B)		
1.36)	CS13 [5.4F]	C609 [2.1F]	C705 [2.3C]	G1 [10.3C]	R3 [12.46]	R178 [21.2C]	R562 [21.28]		
7.38] 7.38] 7.36] 7.37]	C514 [5.4C] C515 [5.2C]	C610 [5.2F] C611 [5.2F]	C706 [8.3D] C707 [16.3B]	G1 [11.3C] G1 [12.48]	R4 [2.1F] R5 [12.2F]	R179 [21.20] R180 [21.20]	R583 [21.2A] R584 [21.2A]		
1.38]	C516 [5.3A] C517 [20.2C]	C612 [2.4C] C613 [2.1E] C614 [3.1E]	C708 [10.3A] C709 [11.3A]	G1 [13.30] G1 [14.30]	RE [9.26] R7 [10.16]	R181 [21.3C] R182 [21.3C]	R589 (21.2E) R590 (21.2F)		
7.4G)	C518 (5.4F)	C614 [2.18]	C710 [2.3C]	G1 1153C 154C	BIS 19.1F1	R183 [21.4D]	RS91 [2.1C]		
1.3G) 7.4G)	C519 [5.3A] C520 [5.4F]	C615 [2.17] C616 [8.2D]	C711 [3.5D] C712 [7.4G]	G1 [163C]	R9 (2.1F) R10 (11.4E)	R184 [21.3D] R185 [21.4D]	R595 (21.2D) R596 (2.1C)		
21.3F]	C521 IS.1AI	C617 (5.1E)	C713 [5.58]	G1 [18.4C]	R11 [10.1F]	R186 [21.4D]	R597 [2.1C]		
2.1A) 17.3G)	C522 [5:3D] C523 [5:2A]	C618 [5.2F] C619 [8.2D]	C714 [12.2A] C715 [19.2C]	G1 [18.4C] J1 [10.5G] J2 [12.3H]	R12 [10.16] R13 [10.1F]	R187 [21.3E] R189 [21.3E]	R599 [2.18] R603 [2.10]		
21.1G]	C524 [5.1D]	C620 [8.1D]	C716 [19.2G]	JS [11.3G]	R14 [12.2D]	R190 [21.1E]	R604 [21.2C]		
21.3C)	C425 (20.20)	C620 [8.1D] C621 [2.4C] C622 [2.1F]	C717 [8.4C] C718 [19.2F]	J3 [11.3G] J4 [10.4G] J5 [17.4H] J6 [17.2H] J7 [17.2B]	B14 (17.479)	R191 [21.1E] R194 [17.1E]	R605 [21.4D] R610 [21.3F]		
21.1F]	C526 [20.3C] C527 [5.3D]	C622 [2.17] C623 [5.17] C624 [5.2G]	C719 [2.2C]	JE [17.3H]	R16 [11.4D] R17 [12.2F]	R195 [17.2E]	R611 [21.28]		
18.4F) 21.4D)	C528 [5.3A] C529 [5.18]	0925 12.401	C720 [2.2C] C721 [8.3D]	J7 (17.58) L1 (9.2G)	R18 [11.4D] R19 [12.2D]	R196 (17.2E) R197 (21.2B)	R612 [21.3E] R614 [10.3D]		
23.20 30 10 25.20	C530 [4.4H]	C626 [2.2E]	C722 [8.3C]	L2 [0.30]	R20 [12.2D]	R199 [21.3C]	R615 [10.5D]		
17.4C] 2.1A]	C531 [5:3D] C532 [4:4G]	C626 [2.2E] C627 [5.2F] C628 [8.4A] C629 [3.1E]	C723 [8.3C] C724 [8.4D]	L2 [9.36] L3 [10.36] L4 [10.26]	R21 [19.48] R22 [19.48]	R200 [21.40] R201 [21.46]	R616 [10.4D] R617 [2.4E]		
2.1A)	C532 [4.4G] C533 [5.3D]	C629 [3.1E]	C725 [8.38]		R23 [19.4A]	R202 [21.4E]	R618 [9.2E]		
21.1G] 21.4H]	C534 [5.4C] C535 [5.4D]	C630 [3.20] C631 [5.27] C632 [2.17]	C726 [17.2C] C728 [8.3D]	L7 [7:40] L8 [21:40] L10 [20:20]	R34 [17.4G] R35 [17.4F]	R203 (21.2C) R501 (20.2D)	9619 [9.55] 9620 [9.35]		
19.4F]	C535 [5.4D] C536 [5.2D]	C632 [2.1F]	C729 [2.2C]	L10 [20.2G]	R26 (2.18)	R502 [20.2D]	9620 [0.35] 9621 [0.35]		
21.1F] 21.3H]	C537 [5.28] C538 [5.3C]	C633 [5.2F] C634 [2.1F]	C730 [2.2C] C731 [8.4C]	L11 [20,2G] L501 [10,4E]	R27 [2.1C] R28 [17.4C]	R503 [20.3C] R504 [20.3C]	R622 [12.4A] R623 [10.2E]		
16.30]	C538 [5.3C] C539 [5.3C] C540 [5.3B]	C634 [2.17] C035 [2.17] C036 [2.18] C637 [2.3C]	C732 [5.4E]	L501  10.4E  L502  10.4F  L503  10.3E  L504  2.4F	R23 [18.46] R30 [18.46]	R505 [20.38] R506 [20.38] R507 [4.3A]	R624 [12.48]		
10.30)		C636 [2.18] C637 [2.3C]	C733 [18.3F] C734 [19.2F]	L503 [10.3E] L504 [9.4F]	R31 [18.5E]	R506 (20.38) R507 (4.3A)	R625 [12.48] R626 [12.48]		
19.20]	C542 [5.2D] C543 [5.1C]	C638 [5.1F]	C735 [8.3C] C736 [8.3C]	LSOS [9.4F] LSOS [9.3F]	R32 (18.5F) R33 (17.5C)	R508 (4.3G) R509 (20.2D)	R627 [12.48] R628 [12.48]		
244) 163A)	C544 IS 761	C639 [X.12] C640 [5.2F]	C737 [2.2C]	LB1 [12.4F]	R34 [2.2C]	R510 [4.3C]	R629 [12.48]		
5.36]	C545 [5.18] C546 [5.48]	CGM [5.1E]  CGM [5.2F]  CGM [2.4E]  CGM [2.4E]  CGM2 [2.3C]  CGM3 [2.1F]	C738 [8.3D]	LB1 [12.4F] LB2 [9.2G]	R35 [17.3G]	R511 [4.4H]	R630 [12.46]		
10.38] 1.38]	C547 [5.2A]	C642 [2.3C] C643 [2.1F]	C739 [8.3D] C740 [8.3D]	LB3 [9.1G] LB4 [11.4F]	R36 [17.2E] R37 [17.3G]	R512 [4.4H] R513 [4.4G]	R631 [12.48] R632 [10.3E]		
13A)	C548 [5.2D] C549 [5.3C]	C644 [5.1F] C645 [3.1D]	C742 [2.2C]	LBS [10.1F] LBS [10.1F]	R38 [17.26] R39 [17.4C]	R514 [4.4G] R515 [4.2A]	RP1 (6.1H 6.1H 6.1H		
8.10J 8.20J	C550 [5.38]	C646 (5.2E)	C743 [21.24] C744 [21.29]	LB501 [3.5D]	R40 [17.4B]	R516 [4.2E]	6.1H] RP2 [6.2G 6.2G 6.2G		
124)	C551 [5.2C] C552 [5.18]	C647 [5.2F] C648 [3.1D]	C746 [21.2F] C746 [21.1F]	LB502 [11.3A] LB503 [2.4F]	R41 [17.1E] R42 [19.4F]	R517 [438] R518 [73G]	62G) RP3 [62G 63G 62G		
1.40) .40)	C552 [5.18] C553 [20.29]	C648 [3.1D] C649 [5.2F]	C746 [21.1F] C750 [21.2E]	LB503 [2.4F] LB504 [9.2A]	R42 [19.4F] R43 [17.5C]	R518 [7.3G] R519 [7.2E]	6.3G)		
5.18]	C554 [5.3C]	C650 [5.2F]	C752 [21.2C]	LB505 [11.3A]	R44 [19.4G]	8520 17.4HI	RP4 (6.3H 6.3H 6.3H		
1.28] 11.2G]	C555 [5.38] C556 [5.10]	C640 [5.27] C650 [5.27] C651 [5.28] C652 [6.28]	C755 [2.1A] C757 [21.2C]	L8506 [16.3A] L8507 [12.2A]	R45 [19,2C] R46 [19,2C]	R521 [7.4H] R522 [2.5F]	6.3H) RPS [6.1G.6.1G.1G		
0.2H)	C557 [5:28]	O653 [2.4E]	C758 [21.3E]	LBS08 [10.2A]	R47 [19.2C]	R523 [3.40]	6.1G]		
(0.26) (0.27)	C558 [20.20] C559 [20.20] C560 [8.2A]	C654 [2.3F] C655 [5.2E] C656 [5.4F]	C750 [21.39] C760 [21.49] C761 [21.39]	LB509 [12:3A] M1 [7:20:7:48	R48 [17.2D] R49 [17.2C]	R524 (3.5A) R525 (6.5D) R526 (3.5A)	RP6 [6.3G 6.3G 6.3G 6.3G]		
1.20() 12.20() 17.40() 17.40() 18.10() 18.10() 18.20() 18.20() 18.20() 18.20() 18.20() 18.20() 18.20() 18.20() 18.20() 18.20()	C560 [8:2A] C561 [8:2B]	C656 [5.4P] C657 [16.38]	C761 [21.3F] C762 [21.28]	7.4C] M2 [7.48.7.4C	R50 [18.4D] R51 [17.3E]	R526 (3.5A) R527 (7.3E)	RP7 [6.4G 6.4G 6.4G 6.4G]		
								ANUDIA COST	ODATION
								NVIDIA CORP 2701 SAN TOMAS EXPRESS	MAY
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SIGN SPECIFICATIONS DESCRIPTIONS	SPECIFICATIONS REFERENCE BOADOO ELEO DOMINADO	IS. DIAGNOSTICS. LISTS AND OTHER DOCUMENTS OR INFORMA-	ION (TOGETHER AND SEPARATE) V MATERIAL OF APP PERSON	PAGE DETAIL  PROVIDED 'AS IS' THE MATERIALS MAY	<edit details<="" here="" insert="" page="" td="" to=""><td></td><td></td><td>NV_PN 600-1</td><td>0681-base-100 A</td></edit>			NV_PN 600-1	0681-base-100 A
N AND UNKNOWN VIOLATIONS OR DE	DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATI	IONS, NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, ST ENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPO	ATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS	OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL				ID NAME - FROM	PAGE DATE 08

SNN\_FBA2\_NC\_A1 4.3E SNN\_FBA2\_NC\_A11 4.3E SNN\_FBA2\_NC\_T1 4.3E SNN\_I2CD\_SDA 17.3C SNN\_I2CE\_SCL 17.3C SNN\_I2CE\_SDA 17.3C SNN\_NC<4> 2.2E SNN\_NC<5> 2.3E SNN\_NC<6> 2.3E SNN\_BA2\_NC\_T1 4.3E SNN\_BA2\_NC\_T11 4.3E SNN\_BA2\_C0T1 4.2E SNN\_BA3\_CKE1 4.2G SNN\_BA3\_CKE1 4.2G SNN\_I2C\_EN 12.3E SNN\_I2C\_NC 12.2D SNN\_NC<7> 2.3E SNN\_NC<8> 2.3E SNN\_FPA\_TXD3 11:3D SNN\_FPA\_TXD3\* 11:3D SNN\_NC<0> 2.3E SNN\_NC<10> 2.3E SNN\_NC<11> 2.3E SNN\_IFPB\_TXD7 11.3D SNN\_FBA3\_NC\_A1 4.3G SNN\_IFPB\_TXD7\* 11.3D SNN NC-14-SNN\_FBA3\_NC\_T1 4.3G SNN\_FBA3\_NC\_T1 4.3G SNN\_FBA3\_NC\_T11 4.3G SHALLERD ALLY AT THE CHIN NO -15-SNN\_IFPD\_AUX 13.3E SNN\_IFPD\_L0 13.3E SNN\_NC<17> 2.3E SNN\_NC<17> 2.3E SNN\_NC<18> 2.3E SNN\_BA3\_XC\_TT1 43G SNN\_BA3\_ZD1 42G SNN\_BA3\_ZD1 42G SNN\_BA\_CMD<15> 33C SNN\_BA\_CMD<23> 3AC SNN\_BA\_CMD<23> 3AC SNN\_IFPD\_LO\* 13.3E SNN NC<21> 2.3E SNN\_IFPD\_L1 133E SNN\_IFPD\_L1 133E SNN\_IFPD\_L2 133E SNN\_IFPD\_L2 133E SNN\_NC-215 2.3E SNN\_NC-225 2.3E SNN\_NC-235 2.3E SNN\_PEX\_RFU 2.5E SNN\_PEX\_WAKE\* 2.2B SNN FBA CMD<30> 3.4C SNN IFPD L3 13.3E SNN PE PRSNT2 A 2.1A SNN\_PBA\_RFU-cb 3.48 SNN\_PBA\_RFU-cb 3.48 SNN\_PBA\_RFU-cb 3.48 SNN\_PBA\_RFU-cb 3.48 SNN\_FPD\_L3\* 13.3E SNN\_FPD\_RSET 13.3C SNN\_FPDF\_RSET 14.3C SNN\_FPDF\_ALX 14.2E SNN\_PE\_PRENT2\_B 22A SNN\_PE\_PRENT2\_C 23A SNN\_PE\_RSV02 22A SNN\_PE\_RSV03 22A \$NN\_IFPE\_ALX 14.2E \$NN\_IFPE\_TXC 14.3E \$NN\_IFPE\_TXC 14.3E SNN\_PE\_RSVD4 2.2A SNN\_PE\_RSVDS 2.2A SNN\_PE\_RSVDS 2.3A SNLIPPE\_TXC0 14.3E SNLIPPE\_TXD0 14.3E SNLIPPE\_TXD0 14.3E SNLIPPE\_TXD1 14.3E SNLIPPE\_TXD1 14.3E SNLIPPE\_TXD2 14.3E SNN\_FBA\_RFU-7> 3.58 SNN\_FBC0\_CKE1 7.2A SNN\_PE\_RSVD7 2.4A SNN\_PE\_RSVD8 2.4A SNN\_FBC0\_CKE1 7.2A SNN\_FBC0\_NC\_A1 7.3A SNN\_FBC0\_NC\_A1 7.3A SNN\_FBC0\_NC\_T1 7.3A SNN\_FBC0\_NC\_T1 7.3A SNN\_PGOOD\_OUT\* 18.4D SNN\_VDD\_SENSE\_1 2.4E SNN\_VDD\_SENSE\_3 2.4E SNN\_IFPE\_TXXX\* 14.3E SNN\_IFPF\_AUX 14.3E SNN\_VGA\_ID0 10.4G SNN\_VGA\_ID0L 10.4G SNN\_FBC0\_C0T1 7:2A SNN\_FBC0\_ZQ1 7:2A SNN\_FBC1\_CKE1 7:2C SNN\_IFPF\_TXC 14.3E SNN\_IFPF\_TXC 14.3E SNN\_IFPF\_TXC\* 14.3E SNN\_VGA\_ID2 10.4G SNN\_VGA\_ID2L 10.5G SPDIF\_IN 18.4D SNN\_FBC1\_CS1 7.2C SNN\_FBC1\_NC\_A1 7.3C SNN\_IFPF\_TXD0 14.3E SNN\_IFPF\_TXD0\* 14.3E STRAP0 15.4E 18.2A STRAP1 15.4E 18.2A SNN\_FBC1\_NC\_A11 7.3C SNN\_FBC1\_NC\_T1 7.3C SNN\_IFPF\_TXD1 14.3E SNN\_IFPF\_TXD1\* 14.3E SNN\_IFPF\_TXD2 14.4E STRAP2 15.4E 18.2A STRAP\_REF0 18.4C STRAP\_REF1 18.4C SNN\_FBC1\_NC\_T11 7.3C SNN\_FBC1\_NC\_T11 7.3C SNN\_FBC1\_DDT1 7.2C SNN\_FBC1\_ZD1 7.2C SNN\_FBC2\_DCE1 7.2E SNN\_FBC2\_DCE1 7.2E SNN\_FBC2\_NC\_A1 7.3E STRAP\_REF1 18.4C
THERM\_ALERT 17.2C
THERM\_DA 17.3B
THERM\_DC 17.3B
THERM\_NPN 17.2E
THERM\_OVERTMP\* 17.2D SNN\_IFPF\_TXD2\* 14.4E SNN\_I25 18.3C SNN\_I26 18.3C SNN MIDACAL PD VDD 15.28 THERM\_OVERTMP\* 17.20
THERM\_THERM 17.20
XTAL\_IN 16.30
XTAL\_OUT 16.30
XTAL\_OUTBUFF 16.30 SNN\_FBC2\_NC\_A11 7.3E SNN\_FBC2\_NC\_T1 7.3E SNN\_FBC2\_NC\_T11 7.3E SNN\_MIGACAL\_PU\_GND 15.2B SNN\_MIGAD-t> 15.1D SNN\_MIGAD-t> 15.1D SNN\_MIGAD-2> 15.1D SNN\_MIGAD-2> 15.2D SNN\_FBC2\_00T1 7:2E SNN\_FBC2\_201 7:2E SNN\_FBC3\_CKE1 7.2G SNN\_FBC3\_CS1 7.2G \$NN\_MIGAD-6> 15:2D \$NN\_MIGAD-6> 15:2D \$NN\_MIGAD-6> 15:2D \$NN\_MIGAD-6> 15:2D \$NN\_MIGAD-6> 15:2D \$NN\_MIGAD-10> 15:2D \$NN\_MIGAD-11> 15:2D SNN FBC3 NC A1 7.3G SNN FBC3 NC A11 7.3G SNN\_FBC3\_NC\_A11 7.3G SNN\_FBC3\_NC\_T1 7.3G SNN\_FBC3\_NC\_T11 7.3G SNN\_FBC3\_ODT1 7.2G SNN\_FBC3\_ZQ1 7.2G SNN\_FBC\_CMD<15> 63C SNN\_FBC\_CMD<23> 64C SNN\_FBC\_CMD<23> 64C SNN\_FBC\_CMD<26> 64C SNN\_MOAD-12> 15.2D SNN\_MOAD-13> 15.2D SNN\_MOAD-14> 15.2D SNN\_MOAD\_CTL3 15.2D SNN\_FBC\_RFU1 6.5C SNN\_MIGA\_CLKOUT 15:2D SNN\_FBC\_RFU2 6.5C SNN\_FBC\_RFU40> 6.4B SNN\_FBC\_RFU41> 6.4B SNN\_FBC\_RFU42> 6.4B SNN\_MIGA\_CLKOUT\* 15.2D SNN\_MIGA\_DE 15.2D SNN\_MIGA\_HSYNC 15.2D SNN\_MIGA\_VIREF 15.2B SNN\_MIOA\_VREF 15.2B SNN\_MIOA\_VSYNC 15.2D SNN\_MIO8-0> 15.3D SNN\_MIO8-1> 15.3D SNN\_MIO8-2> 15.3D SNN\_MIO8-2> 15.3D SNN\_FBC\_FFU-4> 6.4B SNN\_FBC\_FFU-4> 6.4B SNN\_FBC\_FFU-4> 6.5B SNN\_FBC\_FFU-6> 6.5B SNN\_FBC\_RFU<7> 6.5B SNN\_GND\_SENSE\_1 2.4E SNN\_GND\_SENSE\_3 2.4E SNN\_GPI02 17.3C SNN\_GPI03 17.3C \$NN\_MOB<6> 15.30 \$NN\_MOB<5> 15.40 \$NN\_MOB<6> 15.40 \$NN\_MOB<7> 15.40 SNN\_GPI010 17.3C SNN\_GPI010 17.3C SNN\_GPI011 17.3C SNN\_GPI012 17.3C SNN\_GPI014 17.4C \$NN\_MOB<2> 15.4D \$NN\_MOB<8> 15.4D \$NN\_MOB<2> 15.4D \$NN\_MOB<10> 15.4D \$NN\_MOB<11> 15.4D \$NN\_MOBD<13> 15.4D \$NN\_MOBD<13> 15.4D \$NN\_MOBD<13> 15.4D \$NN\_MOBD<14> 15.4D \$NN\_MOBD<14> 15.4D SNN\_GPI015 14.3E SNN\_GPI017 17.4C SNN\_GPI018 17.4C SNN\_GPI019 13.3E SNN\_GPI020 17.4C SNN\_GPICOS 17.4C SNN\_GPICO21 14.4E SNN\_GPICO22 17.4C SNN\_GPICO23 17.4C SNN\_HDA\_BCLK 15.4C SNN\_MIGB\_CAL\_PU\_GN 15.4B SNN\_MIOB\_CLKOUT 15:4D SNN\_MIOB\_CLKOUT\* 15.4D SNN\_HDA\_RST\* 18.4C SNN\_HDA\_SDI 18.4C SNN\_MIOB\_CTL3 15:4D SNN\_MIOB\_DE 15:4D SNN\_HDA\_SDO 18.4C SNN\_HDA\_SYNC 18.4C SNN\_MOB\_VREF 15.4B SNN\_MOB\_VSYNC 15.4D SNN\_NC<1> 2.2E SNN\_NC<2> 2.2E SNN\_NC<2> 2.2E SNN HDMI CEC 12.3G SNN\_HDMI\_RSVD 12.3G SNN\_I2CD\_SCL 17.3C NVIDIA CORPORATION SANTA CLARA, CA 95050, USA BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO\_STUFF ASSEMBLY NOTES AND BOM NOT FINAL PAGE DETAIL <edit here to insert page details NV\_PN 600-10681-base-100 A ALL MIDIA DEBINI SPECEFACTIONS, REFERENCE SPECEFACTIONS, REFERENCE SOLATOS, FLES, DANNINGS, DIAMOSTICS, LISTS AND OTHER DOCUMENTS OR REFORMATION (TOGETHER AND SEPARATELY, MATERIALS) ARE SEND PROVIDED AS IS: THE MATERIALS MAY CONTIAN MODIFICATION, AND UNMOVIN WALULTHOGO OR DEVIATIONS OF RESEAST, MIDIAL STATISTICS AND STREAMS STATISTICS OF RESEAST, MIDIAL STATISTICS AND STREAMS STATISTICS OF RESEAST, MIDIAL STATISTICS AND STATIST AND STATISTICS AND STATIST AND STATI DATE 05-FEB-2009

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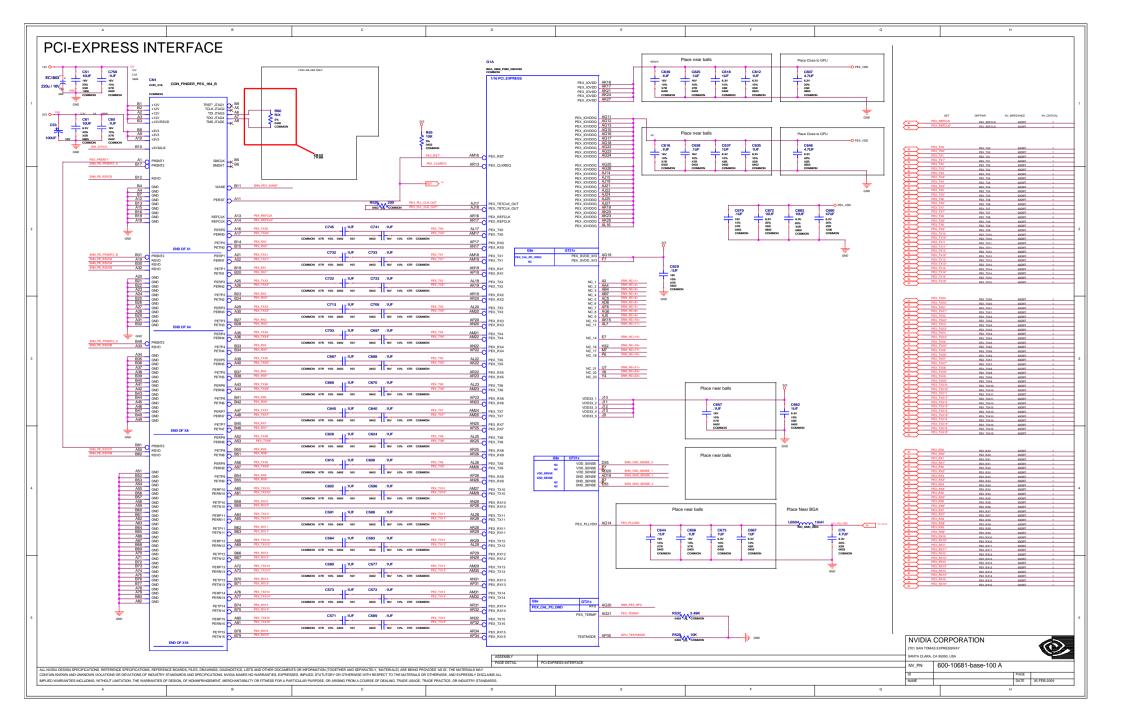
Title: Sessenet Report	FBA_CND-21> 32G 34C 4.1A 4.1C	FBA_DOSN<0> 3.48.4.48.4.5E	FBC_D-25> 6.28.7.4C	GPIOS FAN PWIN_O.J. 17.4G	NVVDD_GND_SENSE_R 21.26.21.4C	PEX_TXXX 22823G	
Design: p681	4.1E 4.1G	FBA_DQSNc7.0> 3.4A 4.3A 4.5E	FBC_D-26> 6.28.7.4C	GPIOS_FAN_PWIM_R 17.3F	NV/DD_IDFS 21.2C	PEX_TXXXY 22823G	
Date: Jan 22 13:35:02 2009	FBA_CMD<22> 3.4C 3.4F 4.1E 4.1G	FBA_DQSN<1> 3.48 4.48 4.5E	FBC_D-27> 6.28.7.4C	GPI013_FBV000_VSEL17.40 20.40	NVVDD_MODE 21.2C	PEX_TXX1 2.28.2.3G	
Base nets and synonyms for	42A 42C FBA_CMD<24> 3.3F 3.4C 4.1A 4.1C	FBA_DOSN<>> 3.48.4.4C.4.5E FBA_DOSN<>> 3.48.4.4C.4.5E	FBC_D-22b	GPIO16_FAN_PVM 17.4C GPU_PLLVDD 16.38	NV/DD_MODE_Q 21.18 NV/DD_MODE_R 21.28	PEX_TXXXY 228.23G PEX_TXXX 228.23G	
p6a1_lb.P6a1(@p6a1_lb.p6a1(sch_1))	4.1E 4.1G	FBA_DQSNoto 348 44D 45E	FBC_D-20> 62874C	GPU_TESTMODE 2.5E	NVICO_REFIN 21.3C	PEX_TXX2* 22823G	
Base Signal Location((Zone)(dr))	FBA_CMD-25> 3.4C 3.4G 4.3A 4.3C	FBA_DQSN<5> 3.48.4.4D.4.5E	FBC_D<31> 6.28.7.4C	HDMI_PD_1 12.48	NVVDD_RSET 21.3C	PEX_TXXX 23823G	
	FBA_CMD+26> 32F3.4C4.1A4.1C	FBA_DQSN-6> 3.48 4.4E 4.5E	FBC_D-32> 6.287.3D	12CA_SCL 9.2C 9.20	NVVDD_SENSE 2.4F 21.4D	PEX_TXX3" 23823G	1 1
1V1_ADJ 19.2B 1V1_PLLVDD 2.4G 3.5E 11.2A 16.3A	4.1E 4.1G FBA_CMD-27> 3.4C 3.4G 4.2E 4.2G	FBA_DOSN-7> 3.48.4.46.4.56 FBA_VREF 3.58	FBC_D<335 6.2B7.4D FBC_D<346 6.2B7.4D	I2CA_SCL_C 92H 11.3G I2CA_SCL_T 92F	NAVOD_SENSE_R 21.4E NAVOD_SS 21.3C	PEX_TXX4 23B23G PEX_TXX4 23B23G	
19.2C	FBA_CMD<28> 3.4C 4.2E 4.2G 4.3A	FBA_VREF0 4.3C 4.3E 4.4G	FBC_D<25> 6.28.7.4D	I2CA_SDA 9.1D 9.2C	NV/DD_VID 21.3C	PEX_TXXS 23823G	
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3V3 2.1A	FBA_D<0> 3.18.4.38	FBA_200 4.3A	FBC_D<37> 6.28.7.4D	IZCA_SDA_T 9.1F	NWOD_VSEL2 21.38	PEX_TXXE 2.38.2.3G	
3/3_INFO 18.5F 5/ 19.4C	FBA_Dcts 3.18.438.45G FBA_Dcts 3.18.438	FBA_ZQ1 4.3C FBA_ZQ2 4.3E	FBC_D<28> 6.287.4D FBC_D<28> 6.287.4D	1208_SCL 10.20 1208_SCL_R 10.1E	NV/DD_VSEL2_Q 21.38 NV/DD_VSEL3 21.48	PEX_TXXE* 238 23G PEX_TXXF 238 23G	
9V_ADJ 19:46	FBA_Dc2> 3.18 4.48	FBA_203 4.3G	FBC_D-40> 62874D	I2CB_SCL_R_L 10.1G	NV/DD_V6EL3_Q 21.3C	PEX_TXXX** 23823G	
12V 2.1A	FBA_D<2> 3.18 4.48	FBC_CLK0 6.4D 7.2A 7.2C 7.5G	FBC_D+41> 6.28.7.4D	12CB_SDA 10.2C	PEX_CLRREQ* 2.1C	PEX_TXX8 2.3G.24B	
12V_D 19:4A 12V_F 21.1F	FBA_D 	FBC_CLK0* 6.4D.7.2A.7.2C.7.5G FBC_CLK1 6.4D.7.2D.7.2F.7.5G	FBC_D<42> 6.3B.7.4D FBC_D<43> 6.3B.7.4D	I2CB_SDA_R 10.1E	PEX_PLL_CLX_OUT 2.2C	PEX_T009* 23G248 PEX_T009 23G248	
12V_F 21.1F DACA BLUE 9.4E 9.5A	FBA_D-do 3.18.448	FBC_CLK1 64D72D72F75G FBC_CLK1 64D72D72F75G	FBC_D<45 63874D	1208_SDA_R_L 10.1G 120C_SDL 17.2B 17.3F 18.5E	PEX.PLL.CLK.OUT 2.2C	PEX_TXX9 23G24B PEX_TXX9' 23G24B	
DACA_BLUE_C 9.4H9.5A 11.3G	FBA_D<7> 3.18.4.48	FBC_CMD-0> 63C 64G 72A 72C	FBC_D-45> 6.38.7.4D	I2CC_SCL_G 17:3C	PEX_PRONT1* 2.1A	PEX_TXX10 23G24B	
DACA_GREEN 9.4E.9.5A	FBA_D<8> 3.18 4.48	FBC_CMD<30.0> 6.3D 7.1A 7.1C 7.1D	FBC_D<46> 6.38.7.4D	I2CC_SDA 17.26 17.3F 18.5E	PEX_REFCLK 2:1G:22B	PEX_TXX10" 2.3G 2.4B	
DACA_GREEN_C 9.4H 9.5A 11.3G	FBA_D<2> 3.18.448	7.1F7.5G FBC_CMD-1> 62F63C7.1A7.1C	FBC_D<47> 6.38.7.4D	120C_SDA_G 17:30	PEX_REFCLK* 2.1G 2.2B	PEX_TXX11 23G24B	
DACA_HSYNC 9.3C 9.5A DACA_HSYNC_BUF 9.3E 9.5A	FBA_D<10> 3.18.448 FBA_D<11> 3.18.448	FBC_CMD-t> 6.2F 6.3C 7.1A 7.1C 7.1E 7.1G	FBC_D<48> 6.38.7.3E FBC_D<49> 6.38.7.4E	I2CH_SCL 184D I2CH_SDA 184D	PEX_RST* 2.2D 19.4E PEX_RXD 2.2B.2.4G	PEX_TXX11" 2.3G 2.4B PEX_TXX12 2.3G 2.4B	
DACA_HSYNC_C 93H 9.5A 11.3G	FBA_D<12> 328 448	FBC_CMD-c2> 6.1G 6.3C 7.1A 7.1C	FBC_D<50> 6.3874E	1205_SCL 2.1C 17.3F	PEX_PX0" 22B 24G	PEX_TXX12" 2.3G 2.48	
DACA_HSYNC_R 9.3E 9.5A	FBA_D<13> 3.28 4.48	FBC_CMD<3> 62G 63C 7:1A 7:1C	FBC_D<51> 6.38.7.4E	12CS_SDA 2.2C 17.3F	PEX_RX1 2.28 2.4G	PEX_TXX13 23G 25B	
DACA_RED 9.3E 9.5A	FBA_Dc14> 3.28 4.48	7.1E 7.1G	FBC_D<52> 6.38.7.4E	120W_SCL 12.3C	PEX_RX11 2.28.2.4G	PEX_TXX13" 2.3G 2.5B	
DACA_RED_C 93H 95A 11.3G DACA_RSET 93B	FBA_Dc65> 3.28 4.48 FBA_Dc66> 3.28 4.3C	FBC_CMD-4> 62G 63C 7.1A 7.1C 7.1E 7.1G	FBC_D<53> 6.387.4E FBC D<54> 6.387.4E	I2CW_SCL_R 12.2D I2CW_SCL_R Q 12.2E	PEX_RX2 228.24G PEX_RX2' 238.24G	PEX_TXX14 23G 22B PEX_TXX14" 24G 22B	2
DACA_VDD 9.28	FBA_D<17> 3.28 4.30	FBC_CMD-ds> 63C 64G 7.1A 7.1C	FBC_D<55> 6.38.7.4E	12CW_SDA 12.3C	PEX_R03 238.24G	PEX_TXX15 2.4G.25B	1 1
DACA_VREF 9.38	FBA_D<18> 3.28.4.4C	7.1E 7.1G	FBC_D<56> 6.38.7.46	I2CW_SDA_R 12.1D	PEX_RXX* 2.38.2.4G	PEX_TXX15" 2.4G 2.5B	
DACA_VSYNC 9.3C 9.5A	FBA_D<19> 3.28 4.4C	FBC_CMD<6> 6.3C 6.4F 7.1A 7.1C	FBC_D-57> 6.38.7.4E	I2CW_SDA_R_Q 12.1E	PEX_RX4 238.2.4G	PEX_VDD 20.38	
DACA_V5YNC_BUF 9.2E.9.5A DACA_V5YNC_C 9.2H.9.5A 11.3G	FBA_D<20> 3.28.4.4C FBA_D<21> 3.28.4.4C	7.1E7.1G FBC_CMD-7> 63C 63G 7.1A7.1C	FBC_D <sb 6.38.7.45<br="">FBC_D<sb 6.38.7.45<="" th=""><th>IFPAB_PLIVDD 11.3B IFPAB_PLIVDD 11.2B</th><th>PEX_RXS 23B24G PEX_RXS 23B24G</th><th>PS_1V1_CP 20.3B PS_1V1_DR 20.2C</th><th></th></sb></sb>	IFPAB_PLIVDD 11.3B IFPAB_PLIVDD 11.2B	PEX_RXS 23B24G PEX_RXS 23B24G	PS_1V1_CP 20.3B PS_1V1_DR 20.2C	
DACA_VSYNC_R 92E95A	FBA_D-22> 3.28.4.4C	7.1E 7.1G	FBC_D<60> 6.38.7.46	IFPAB_RSET 11.38	PEX_RXX* 2.38.2.4G	PS_1V1_FB 203C	
DACB_BLUE 10.4D 10.5A	FBA_D<23> 3.28 4.40	FBC_CMD-8> 63C 6.4F 7.1A 7.1C	FBC_D<61> 6.38.7.4E	IFPA_TXC 11.3D	PEX_RXE 238.24G	PS_FBVDDQ_BOOT 20.2D	
DACB_BLUE_C 10.4F 10.5A DACB_GREEN 10.4D 10.5A	FBA_D<28> 3.28 4.4C FBA_D<25> 3.28 4.4C	7.1E 7.1G FBC_CMD-sb 63C 63F 7.2A 7.2C	FBC_D<62> 6.387.4E FBC_D<63> 6.387.4E	IFPA_TXC* 11.3D IFPA_TXD0 11.3D	PEX_FDS* 2.38.2.4G PEX_FDS* 2.38.2.4G	PS_FBVDDQ_CP 203D PS_FBVDDQ_CP_RC 203D	
DACE_GREEN 10.4D 10.5A DACE_GREEN_C 10.4F 10.5A	FBA_D<25> 3.28 4.4C FBA_D<26> 3.28 4.4C	FBC_CMD-d> 63C 63F 7.2A 7.2C 7.2E 7.2G	FBC_D<83> 6.387.4E FBC_DEBUG 6.4C	IFPA_TXD0 11.2D IFPA_TXD0* 11.2D	PEX_POX* 238.24G PEX_POX** 248.24G	PS_FBVDDQ_CP_RC 20.3D PS_FBVDDQ_EN 20.4B	
DACB_HSYNC 10.3C 10.5A	FBA_D<27> 3.28 4.40	FBC_CMD+16> 6.3C 6.3G 7.1A 7.1C	FBC_DQM<0> 6.38.7.48	IFPA_TXD1 11.2D	PEX_RX8 2.46.2.4G	PS_FBVDDQ_EN* 20.4C	
DACE_HSYNC_BUF 10:3E 10:5A DACE HSYNC C 10:3G 10:5A	FBA_D-285 3.28 4.4C FBA_D-295 3.28 4.4C	7.1E 7.1G	FBC_DQM<7.0> 63A 73A 75G FBC_DQM<1> 63B 74B	IPPA_TXD1* 11.2D IPPA_TXD2 11.3D	PEX_EXE* 2.48.2.4G	PS_FBVDDQ_FB 20.3D PS_FBVDDQ_FB_RC_20.4G	
DACB_HSYNC_C 10.3G 10.5A DACB_HSYNC_R 10.3E 10.5A	FBA_D-29> 3.28.44C FBA_D-30> 3.28.44C	FBC_CMD<11> 6.3C 6.4F 7.1E 7.1G FBC_CMD<12> 6.3C 6.4G 7.2A 7.2C	FBC_DOM<1> 6387.48 FBC_DOM<2> 6387.4C	IFPA_TX02 11:30 IFPA_TX02* 11:20	PEX_RXD	PS_FBVDDQ_FB_RC 20.4G PS_FBVDDQ_FS_DIS_20.3C	
DACB_RED 10:3D 10:5A	FBA_D<31> 3.28 4.4C	72E72G	FBC_DQM-cb 6387.4C	IFPB_TXD4 11.3D	PEX_RX10 2.46.2.4G	PS_FBVDDQ_LG 20.3D	
DACB_RED_C 10.3F 10.5A	FBA_D<32> 3.28.4.3D	FBC_CMD<13> 6.3C 6.3F 7.2A 7.2C	FBC_DQM+46 6387.4D	IFPB_TXD4" 11.3D	PEX_RX10" 2.48 2.4G	PS_FBVDDQ_PH 20:3D	
DACB_RSET 10.3B	FBA_D<33> 3.28 4.3D	7.2E 7.2G	FBC_DQM 45> 6387.4D	IFPB_TXDS 11.3D	PEX_RX11 248.24G	PS_PBVDDQ_PVCC 20.2D	
DACE_VDD 10.28 DACE_VREF 10.28	FBA_D<35> 3.28 4.4D FBA_D<35> 3.28 4.4D	FBC_CMD-140 6.1G 6.3C 7.1A 7.1C 7.1E 7.1G	FBC_DQM<6> 6.48.7.4E FBC_DQM<7> 6.48.7.4E	IFPS_TXDS* 11.3D IFPS_TXDS 11.3D	PEX_PX11* 2.48.24G PEX_PX12 2.48.25G	PS_FBVDDQ_PVCC_R 20.2C PS_FBVDDQ_RC 20.2F	
DACB_VSYNC 10.3C 10.5A	FBA_D<36> 3.28 4.4D	FBC_CMD<16> 63C 64G 72E 7.2G	FBC_DQS<0> 648.7.48.7.58	IFPS_TXD6* 11:3D	PEX_RX12* 2.58 2.5G	PS_FBVDDQ_UG 20,20	
DACB_VSYNC_BUF 10.2E 10.5A	FBA_D<37> 3.28 4.4D	FBC_CMD<17> 63C 63G 7.1A 7.1C	FBC_DQS<7.0> 6.4A.7.3A.7.5E	IFPCEF_PLLVDD 14.3C	PEX_RX13 258.25G	PS_FBV0DQ_UG_R 20.2E	
DACE_VSYNC_C 10.2G 10.5A DACE_VSYNC_R 10.2E 10.5A	FBA_D<38> 3.28.44D	7.1E7.1G FBC_CMD<18> 6.1F 6.3C 7.1E 7.1G	FBC_DQS<1> 6.46.7.46.7.5E FBC_DQS<2> 6.46.7.4C.7.5E	IFPC_IOVDD 12.3A IFPC_PLLVDD 12.3A	PEX_RX13" 2:58 2:5G PEX_RX14 2:58 2:5G	PS_FBVDDQ_VCC 20.2D PS_WVDD_BOOT1 21.2D	3
DDC_SV 19.4D	FBA_D<30> 3.28.44D FBA_D<40> 3.28.44D	72A72C	FBC DOS-G> 6487.4C 7.5E	IFPC_PECTO 12.3A	PEX_RX14" 258.25G	PS_NVDD_BOOT2 21.3D	
FBA_CLK0 3.4D 4.2A 4.2C 4.5G	FBA_Dol1> 3.28 4.4D	FBC_CMD<19> 6.3C 6.4F 7.1A 7.1C	FBC_DQS<4> 6.48.7.4D.7.5E	IFPC_TXC 12.3D	PEX_RX15	PS_NVVDD_EN 21.2C	
FBA_CLK0* 3.4D.4.2A.4.2C.4.5G	FBA_D<02> 3:38 4:4D	7.1E 7.1G	FBC_DQS<5> 6.48.7.4D.7.5E	IFPC_TXC* 12.3D	PEX_RX15" 2:58 2:5G	PS_NVVDD_EN* 21.28	
FBA_CLK1 3.40 4.20 4.2F 4.5G FBA_CLK1* 3.40 4.2D 4.2F 4.5G	FBA_Do4b 33B 44D FBA_Do4b 33B 44D	FBC_CMD-20> 6.3F 6.4C 7.1A 7.1C 7.1E 7.1G	FBC_DOS<6> 6.48 7.4E 7.5E FBC_DOS<7> 6.48 7.4E 7.5E	IFPC_TXC_C1 12.3F 12.4B IFPC_TXC_C1* 12.3F 12.4B	PEX_SMCLK 2.1B PEX_SMDAT 2.1B	PS_NVVDD_LG1 21.2D PS_NVVDD_LG2 21.3D	
FBA_CMD<0> 33C 34G 42A 42C	FBA_Dollo 338.44D	FBC_CMD-21> 6.2G 6.4C 7.1A 7.1C	FBC_D08Nob 64874875E	IFPC_TXD0 12.3D	PEX_TCLK 2.1B	PS_WVDD_PH1 212D	
FBA_CMD<30.0> 3.3D 4.1A 4.1C 4.1D	FBA_D+46> 3.38 4.4D	7.1E 7.1G	FBC_DQSN<7.0> 6.4A 7.3A 7.5E	IFPC_TXD0* 12.3D	PEX_TDI 2.18	PS_NVVDD_PH2 21.3D	
4.1F4.5G	FBA_D+47> 3.38 4.4D	FBC_CMD<22> 6.1F 6.4C 7.1E 7.1G	FBC_DQSN<1> 6.48.7.48.7.5E	IFPC_TXD0_C1 12.3F12.4B	PEX_TDO 2.18	PS_NVVDD_RC1 21.2F	
FBA_CMD<1> 330 34F 4.1A 4.10 4.1E 4.1G	FBA_D<4b>3.38.43E FBA_D<4b>3.38.43E	7.2A 7.2C FBC_CMD-24+> 6.2F 6.4C 7.1A 7.1C	FBC_DGSN-c> 6.48 7.40 7.5E FBC_DGSN-c> 6.48 7.40 7.5E	IFPC_TXX0_C1* 12:3F 12:4B IFPC_TXX01 12:3D	PEX_TERMP 2.5E PEX_TMS 2.1B	PS_NVVDD_RC2 21.3F PS_NVVDD_UG1 21.2D	
FBA_CMD-2> 33C34G4.1A4.1C	FBA_D<50> 3.38 4.4E	7.1E 7.1G	FBC_DQSNo4> 6.48 7.4D 7.5E	IFPC_TXD1* 12.3D	PEX_TRST* 2.18	PS_NVVDD_UG1_R 21.2E	
FBA_CMD<2> 32G 33C 4.1A 4.1C	FBA_D<51> 3.38 4.4E	FBC_CMD-25> 6.4C 6.4G 7.3A 7.3C	FBC_DQSN-5> 6.48.7.4D.7.5E	IFPC_TXD1_C1 12.3F12.4B	PEX_TX0 2.1G 2.2D	PS_NV/DD_UG2 21.3D	
41E 4.1G FBA_CMD-0> 3.1F 3.3C 4.1A 4.1C	FBA_D-d2> 3.38 4.4E FBA_D-d3> 3.38 4.4E	FBC_CMD-285 62F 6.4C 7.1A 7.1C 7.1E 7.1G	FBC_DQSN-6> 6.48.7.4E.7.5E FBC_DQSN-7> 6.48.7.4E.7.5E	IFPC_TXD1_C1* 12.3F12.4B	PEX_TX0" 2.1G.2.2D PEX_TX1 2.1G.2.2D	PS_NVVDD_UG2_R 21.3E PS_NVVDD_VCC0 21.2C	
PBA_CMD-045 3.1F 3.3C 4.1A 4.1C 4.1E 4.1G	FBA_D-535 3.38 4.4E FBA_D-545 3.38 4.4E	7.1E7.1G FBC CMD-27> 6.4C 6.4G 7.2E7.2G	FBC_DGSN-7> 648.7-46.7-56 FBC_VREF0 7.3C.7.3E.7.4G	IFPC_TXD2 12.3D IFPC_TXD2* 12.3D	PEX_TX1 2.1G.22D PEX_TX1* 2.1G.22D	PS_WVDD_VCC9 21.2C PS_WVDD_VCC12 21.2C	
FBA_CMD-6> 33C 33G 4.1A 4.1C	FBA_D<55> 3.38 4.4E	FBC_CMD-28> 6.4C 7.2E 7.2G 7.3A	FBC_VREF1 7:3F7:3H7:4H	IFPC_TXD2_C1 12.3F 12.4B	PEX_TX2 2.2D 2.2G	ROM_CS* 18.3D	
4.1E 4.1G	FBA_D<55> 3.38 4.4E	7.3C	FBC_ZQ0 7.3A	IFPC_TXD2_C1* 12.3F 12.4B	PEX_TX2* 2.20 2.2G	ROM_SCLK 18.2C 18.3D 18.3D	
FBA_CMD-65- 3.1G 3.3C 4.1A 4.1C 4.1E 4.1G	FBA_D<57> 338.44E FBA_D<58> 338.44E	FBC_D<05.0> 6.18.7.38 FBC_D<053.0> 6.18.7.38.7.5G	FBC_Z01 7.3C FBC_Z02 7.3E	IFPD_IOVIDD 13.3C IFPD_FLAVDD 13.3C	PEX_TX3	ROM_SI 18.2C 18.3D 18.3D ROM_SO 18.2C 18.3D 18.3D	
4.16.4.1G FBA_CMD<7> 3.3C.34F4.1A.4.1C	FBA_D<00> 3.38 4.4E FBA_D<00> 3.38 4.4E	FBC_D<63.0> 6.18.7.38.7.9G FBC_D<1> 6.18.7.48	FBC_ZG2 7.3E FBC_ZG3 7.3G	IPPE_IOVOD 143C	PEX_TX3* 2.2G 2.3D PEX_TX4 2.2G 2.3D	ROM_SO 18.2C 18.3D 18.3D SNN_3V3AUX 2.1A	
4.1E 4.1G	FBA_D+60> 3.38 4.4E	FBC_Dc2> 6.18.7.48	FBVDDQ 20.2H	IFP_IOVOD_EN* 17.2E 19.4G	PEX_TX4* 2.2G 2.3D	SNN_BIOB_H5YNC 15.4D	4
FBA_CMD-8> 3.3C 3.4F 4.1A 4.1C	FBA_D<61> 3.38 4.4E	FBC_Dc3> 6.18 7.48	FBVDDQ_RBOT 20.4F	IFP_IOVOD_EN_RC 19.4F	PEX_TXS 2.2G 2.3D	SNN_BTXC 11.3D	
4.1E.4.1G FBA_CMD<0> 3.2F.3.3C.4.2A.4.2C	FBA_D-65> 3.36.44E FBA_D-65> 3.36.44E	FBC_Dcts 6.18 7.48 FBC_Dcts 6.18 7.48	FBVDDQ_VSEL 20.4E FB_CAL_PD_VDDQ 6.5C	IFP_PLLVDD 12.2A 19.2G JTAG_TCLK 2.1C 17.4A	PEX_TXS	SNN_STXC" 11.3D SNN_BUFRST" 18.4D	
FBA_CMD-dis 32F33C 42A 42C 42E 42G	FBA_DeBug 3.4C	FBC_Deb 6.18.7.48 FBC_Deb 6.18.7.48	FB_CAL_PO_VDDQ 6.5C FB_CAL_PU_GND 6.5C	JTAG_TCLK 2.1C 17.4A JTAG_TDI 2.1C 17.4A	PEX_TXE 2.2G 2.3D PEX_TXE 2.2G 2.3D	SNN_BUPRST* 18.4D SNN_CBC 18.4C	
FBA_CMD<10> 32F33C41A4.1C	FBA_DQM<0> 338 448	FBC_D<7> 6.18.7.48	FB_CAL_TERM_GND 6.5C	JTAG_TD0 2.1C 17.5A	PEX_TX7 2.2G 2.3D	SNN_FBAQ_CKE1 4.2A	
4.1E 4.1G	FBA_DOM<7.0> 3.3A.4.3A.4.5G FBA_DOM<1> 3.3B.4.4B	FBC_Dcb- 6.18 7.48 FBC_Dcb- 6.18 7.48	FB_PLLAVDD 3.5C GPI00 HPD DVI 11.4D	JTAG_TMS 2.1C 17.4A	PEX_TXP	SNN_FBAQ_CS1 4.2A SNN_FBAQ_NC_A1 4.3A	
FBA_CMD<11> 3.FF 3.SC 4.1E 4.1G FBA_CMD<12> 3.FG 3.SC 4.2A 4.2C	FBA_DQM<1> 338 4.48 FBA_DQM<2> 338 4.4C	FBC_D<0> 6.18.7.48 FBC_D<10> 6.18.7.48	GPIG0_HPD_DVI 11.4D GPIG0_HPD_DVI_Q 11.4D	JTAG_TRST* 2.1C 17.5A MIGA_CLKIN 15.2D	PEX_TX8 2.2G 2.4D PEX_TX8* 2.2G 2.4D	SNN_FBAQ_NC_A1 43A SNN_FBAQ_NC_A11 43A	
42E 42G	FBA_DQM<3> 3.38 4.4C	FBC_Dc11> 6.18 7.48	GPIO0_HPD_DVI_R 11.4E	MICA_VDDQ 15.1C	PEX_TX9 2.2G 2.4D	SNN_FBA0_NC_T1 4.3A	
FBA_CMD<13> 33C 33G 42A 42C	FBA_DQMo4o 3.38 4.4D	FBC_D<12> 6.28 7.48	GPIO0_HPD_DVI_RL 11.3G	MICB_CLKIN 15.4D	PEX_TX9* 2.2G 2.4D	SNN_FBAO_NC_TT1 43A	
42E 4.2G FBA_CMD<14> 33C 33F 4.1A 4.1C	FBA_DQMc6s 3.48.4.46 FBA_DQMc6s 3.48.4.46	FBC_Dc13> 6.28 7.48 FBC_Dc14> 6.28 7.48	GPI01_HPDC 12.4C GPI01_HPDC_Q 12.4D	NV/DD 21.2H NV/DD_CP 21.3C	PEX_TX10	SNN_FBAG_CDT1 4.2A SNN_FBAG_ZD1 4.2A	
FBA_CMD<140 33C33F41A4.1C 4.1E4.1G	FBA_DQM<6> 3.48.4.4E FBA_DQM<7> 3.48.4.4E	FBC_Dc14> 6.28 7.48 FBC_Dc15> 6.28 7.48	GPI01_HPDC_R 12.4F	NV/DD_CP 21.3C NV/DD_CP_RC 21.4D	PEX_TX10" 2.2G 2.4D PEX_TX11 2.2G 2.4D	SNN_FBA0_ZQ1 42A SNN_FBA1_CKE1 42C	
FBA_CMD<16> 33C 3.4G 4.2E 4.2G	FBA_DQS<0> 3.48 4.48 4.5E	FBC_Dc16> 6.28 7.3C	GPI01_HPDC_R_L 12.4G	NVVDD_CSN 21.3D	PEX_TX11" 2.2G 2.4D	SNN_FBA1_CS1 42C	
FBA_CMD<17> 33C 33G 41A 4.1C	FBA_DQS<7.0> 3.4A 4.3A 4.5E	FBC_D<17> 6.28 7.40	GPIO4_FAN_TACH 17:3C	NV/DD_CBN_R 21.3D	PEX_TX12 2.2G 2.4D	SNN_FBA1_NC_A1 43C	
41E 4.1G FBA_CMD<18> 33C 3.4G 4.1E 4.1G	FBA_DGS<1> 348.446.45E FBA_DGS<2> 348.446.45E	FBC_Dc18> 6.28.7.4C FBC_Dc19> 6.28.7.4C	GPI05_NVVDD_VSEL1 17:3D 21:1A 21:3A GPI06_NVVDD_VSEL2 17:3D 21:3A	NV/DD_CSP 21.3D NV/DD EAP 21.3C	PEX_TX12* 2.2G 2.4D PEX_TX13 2.2G 2.5D	SNN_FBA1_NC_A11 4.3C SNN_FBA1_NC_T1 4.3C	
42A 42C	FBA_DQS<3> 3.48 4.40 4.5E	FBC_D<20> 6.28 7.4C	GPI07_NVVDD_VSEL3 17:3D 21:3A	NVIDD_EN 21.30 NVIDD_EN 17.2F.21.2A	PEX_TX13* 2.2G.25D	SNN_FBA1_NC_T11 4.3C	
FBA_CMD<19> 32G 33C 41A 4.1C	FBA_DQS+46 3.48 4.40 4.5E	FBC_D<21> 6.28 7.4C	GPIOS_THERM_OVERTM 17.3C	NV/DD_EN* 17.1E	PEX_TX14 2.2G 2.5D	SNN_FBA1_ODT1 42C	
4.1E.4.1G	FBA_DQS <tb 3.48.4.40.4.5e<br="">FBA_DQS<tb 3.48.4.45.4.5e<="" td=""><td>FBC_Dc22&gt; 6.28 7.4C FBC Dc23&gt; 6.28 7.4C</td><td>P' GPIOS FAN PWM 17.3C</td><td>NV/DD /B 21.4D NV/DD /B RC 21.4D</td><td>PEX_TX14* 2.2G.2:5D PEX_TX15 2.2G.2:5D</td><td>SNN_FBA1_ZQ1 4.2C SNN_FBA2_CKE1 4.2E</td><td></td></tb></tb>	FBC_Dc22> 6.28 7.4C FBC Dc23> 6.28 7.4C	P' GPIOS FAN PWM 17.3C	NV/DD /B 21.4D NV/DD /B RC 21.4D	PEX_TX14* 2.2G.2:5D PEX_TX15 2.2G.2:5D	SNN_FBA1_ZQ1 4.2C SNN_FBA2_CKE1 4.2E	
FBA_CMD<20> 33F 34C 4.14 4.1C 4.1E 4.1G	FBA_DQS<6> 348.4/E.4.5E FBA_DQS<7> 348.4/E.4.5E	FBC_D<25> 6.28 7.4C FBC_D<26> 6.28 7.4C	GPIOS_FAN_PWM_17.3C GPIOS_FAN_PWM_Q_17.4F	NV/DD_FB_RC 21.4D NV/DD_GND_SENSE 2.4F21.4S	PEX_TX15 2.2G 2.5D PEX_TX15" 2.2G 2.5D	SNN_FBA2_CKE1 42E SNN_FBA2_CS1 42E	
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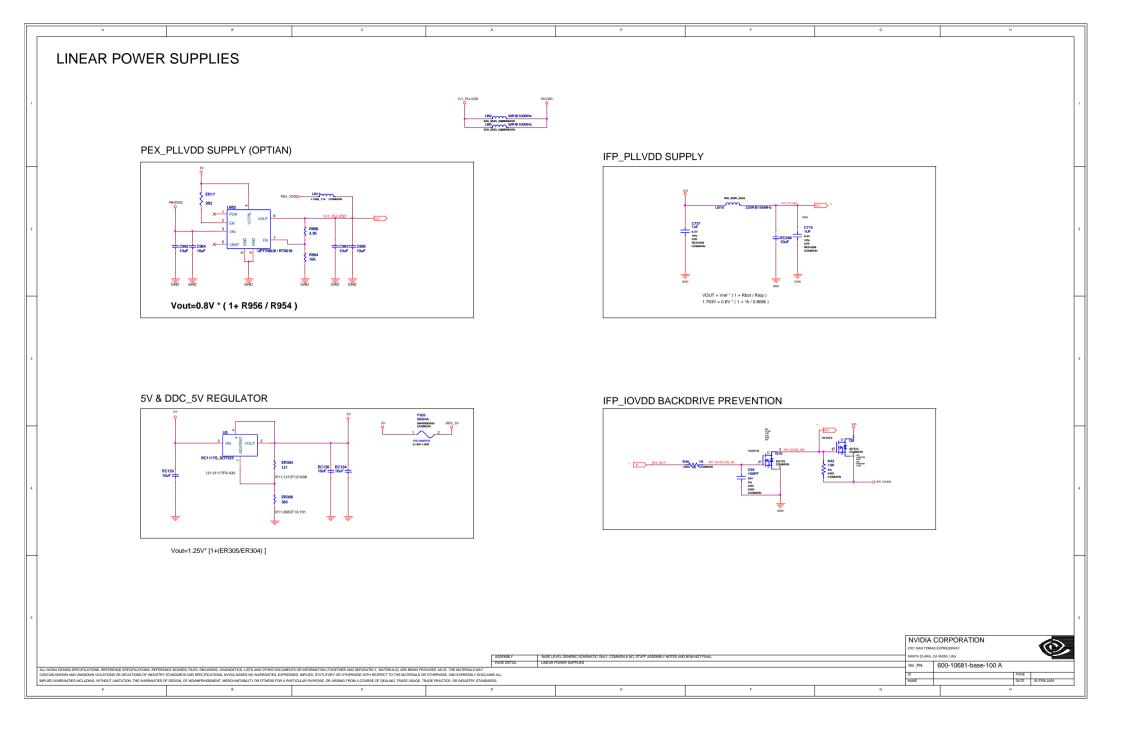
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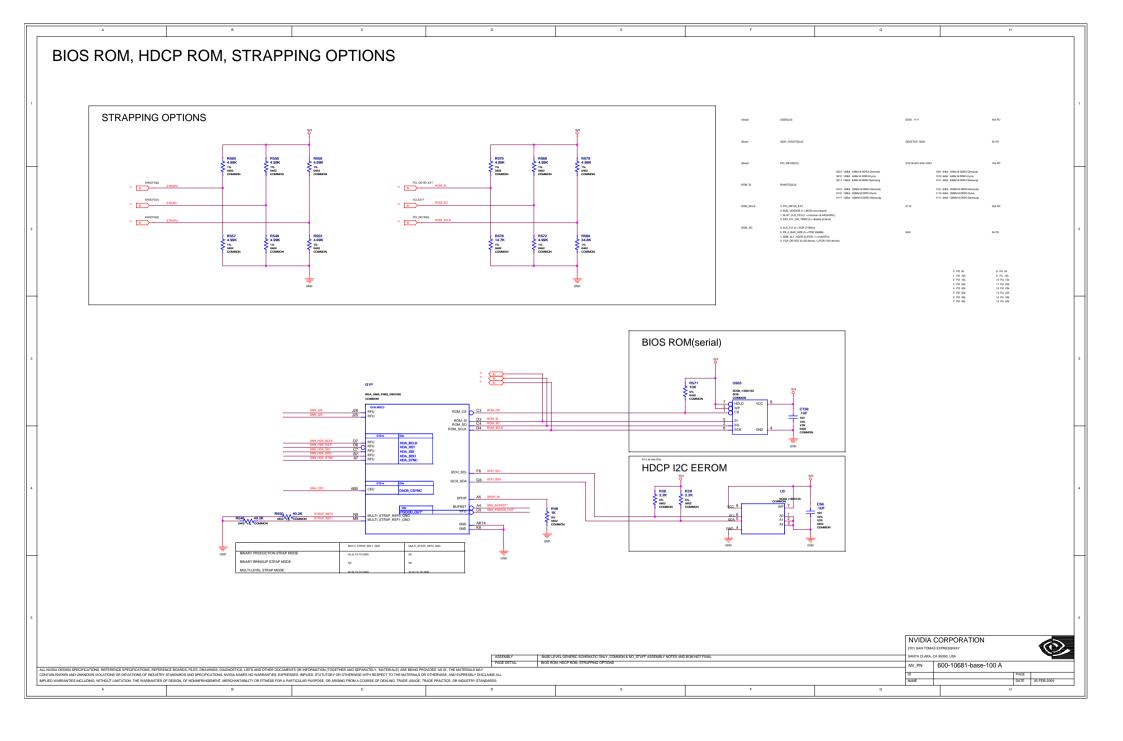
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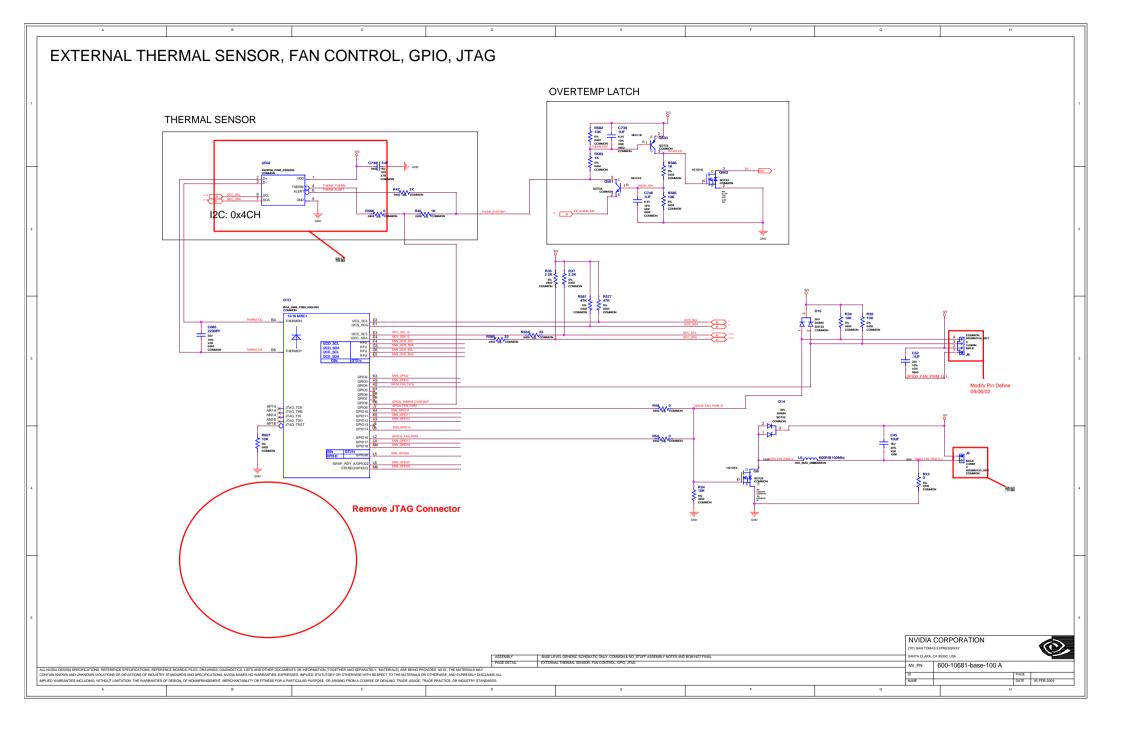
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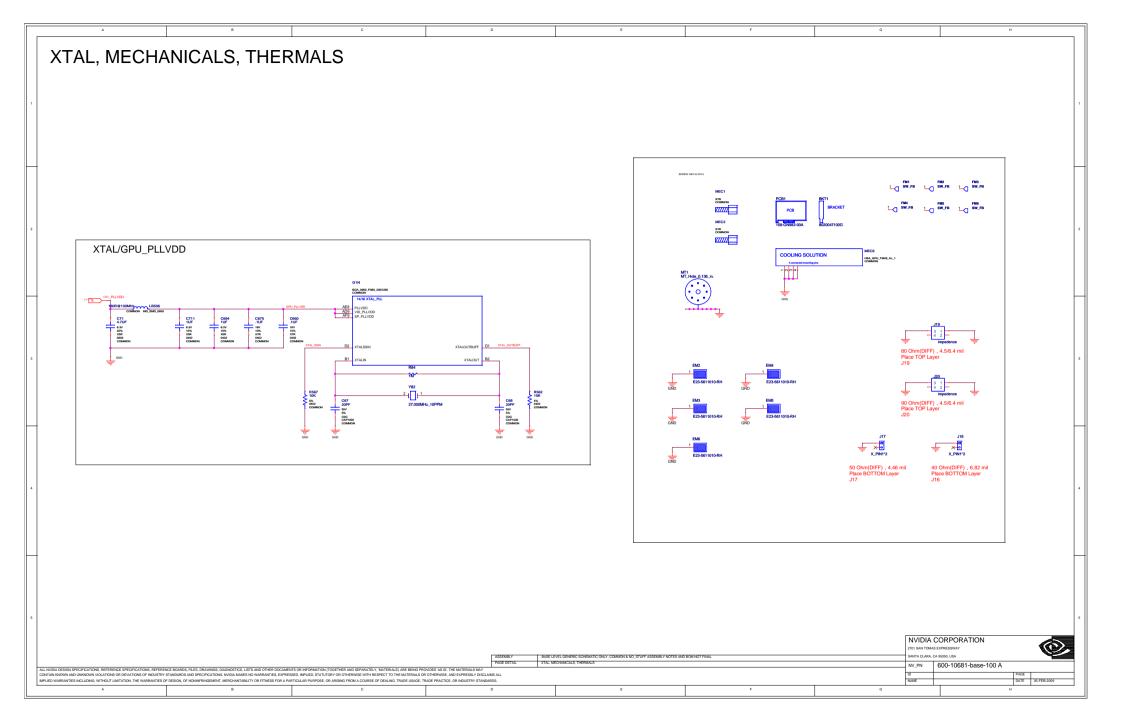
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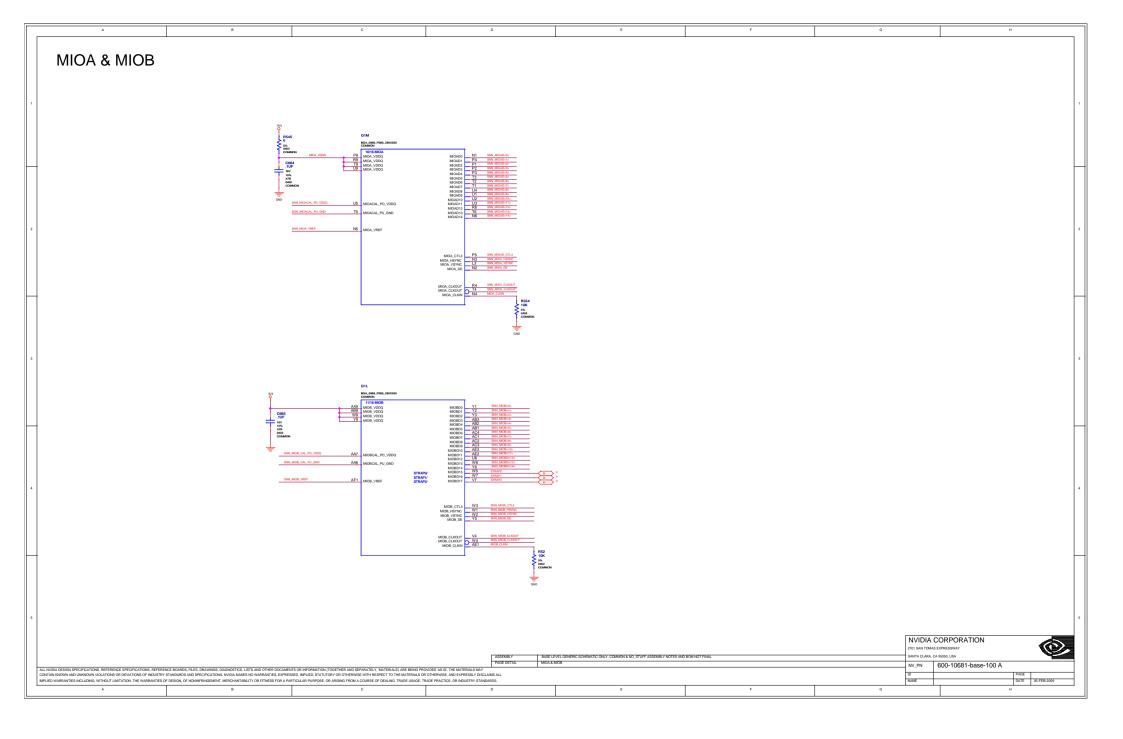


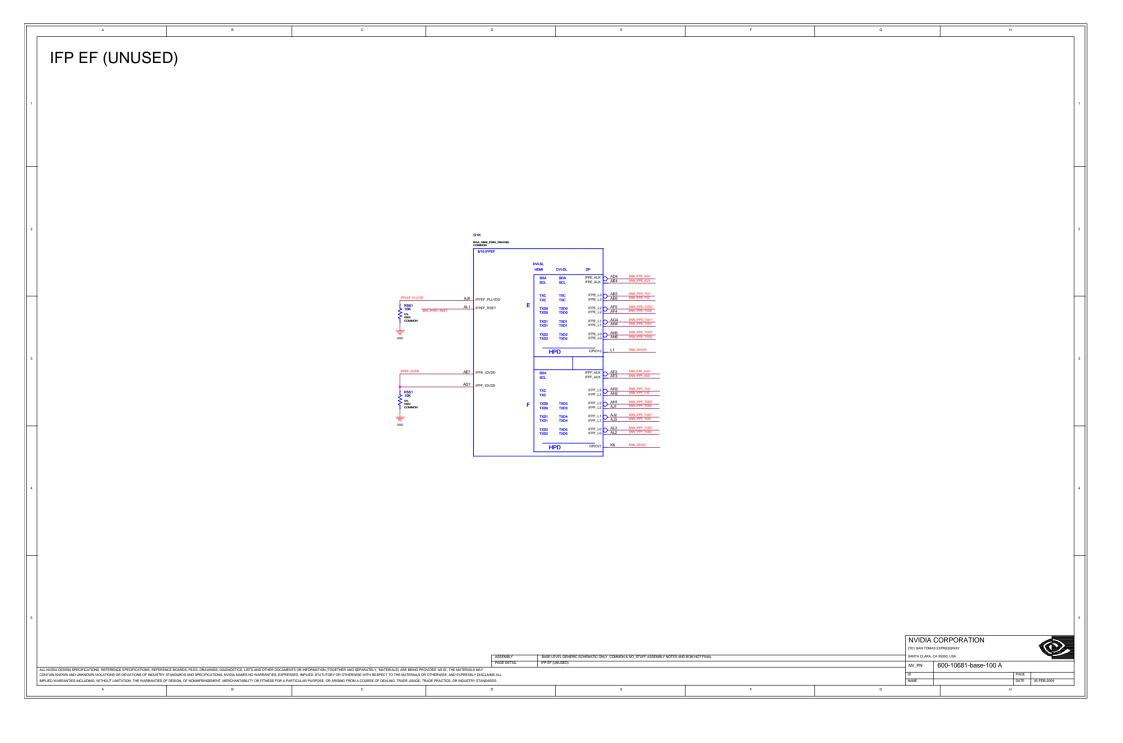


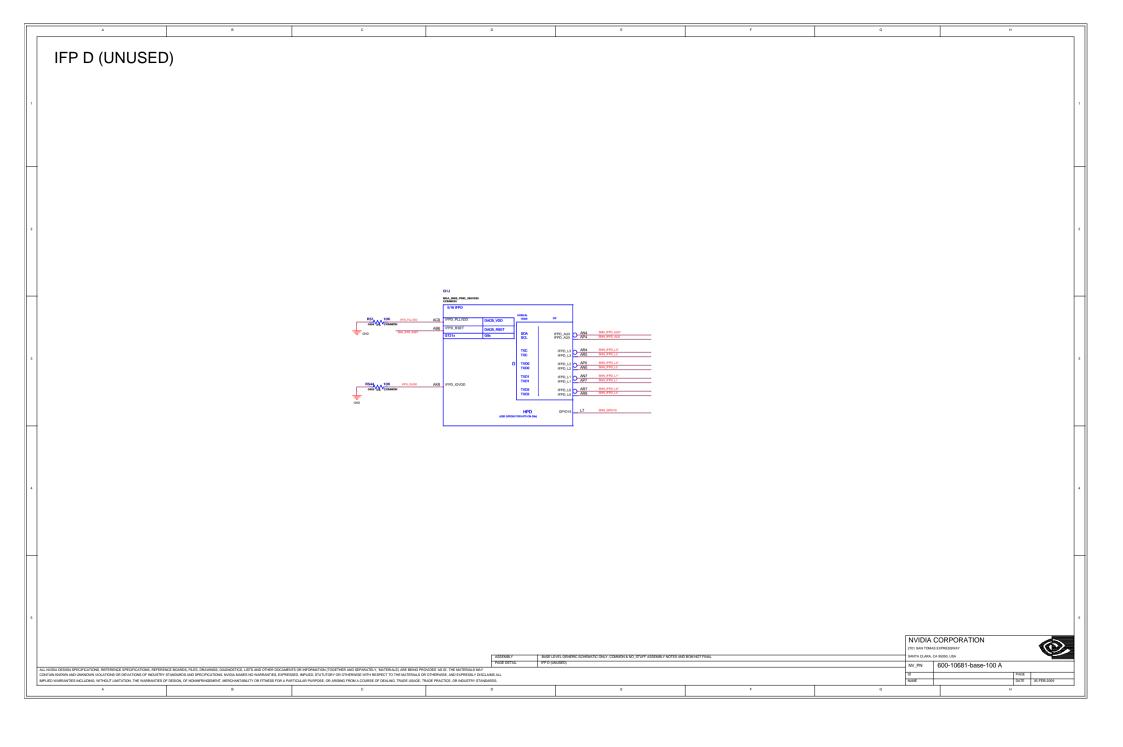


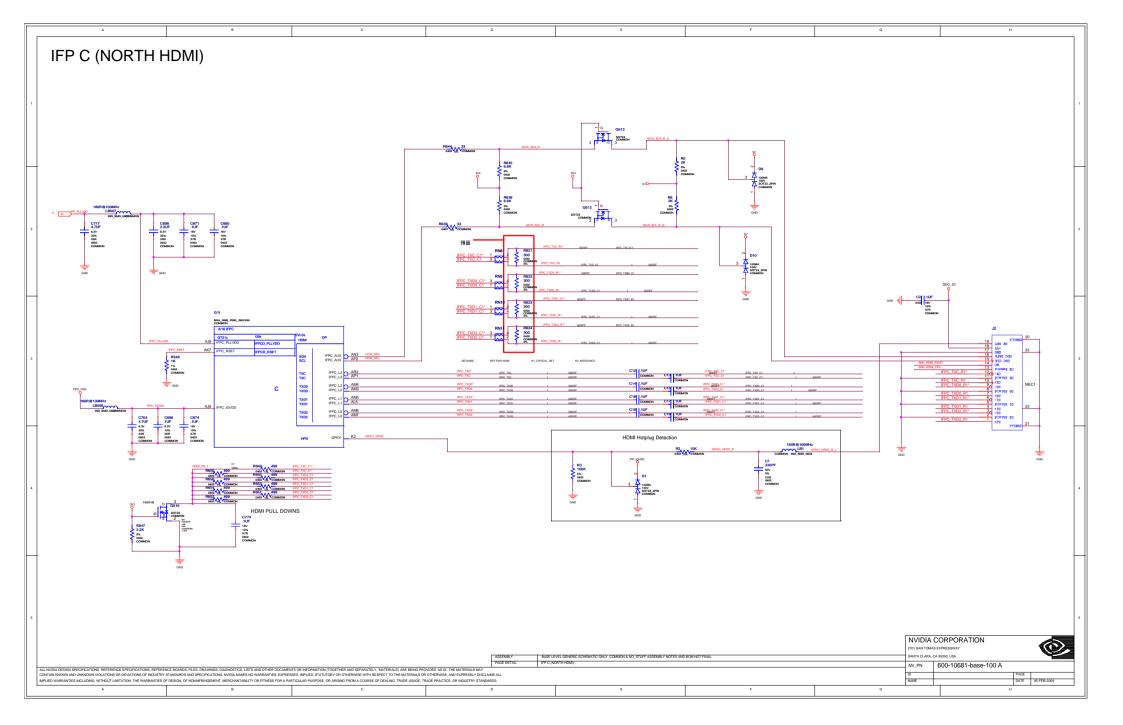


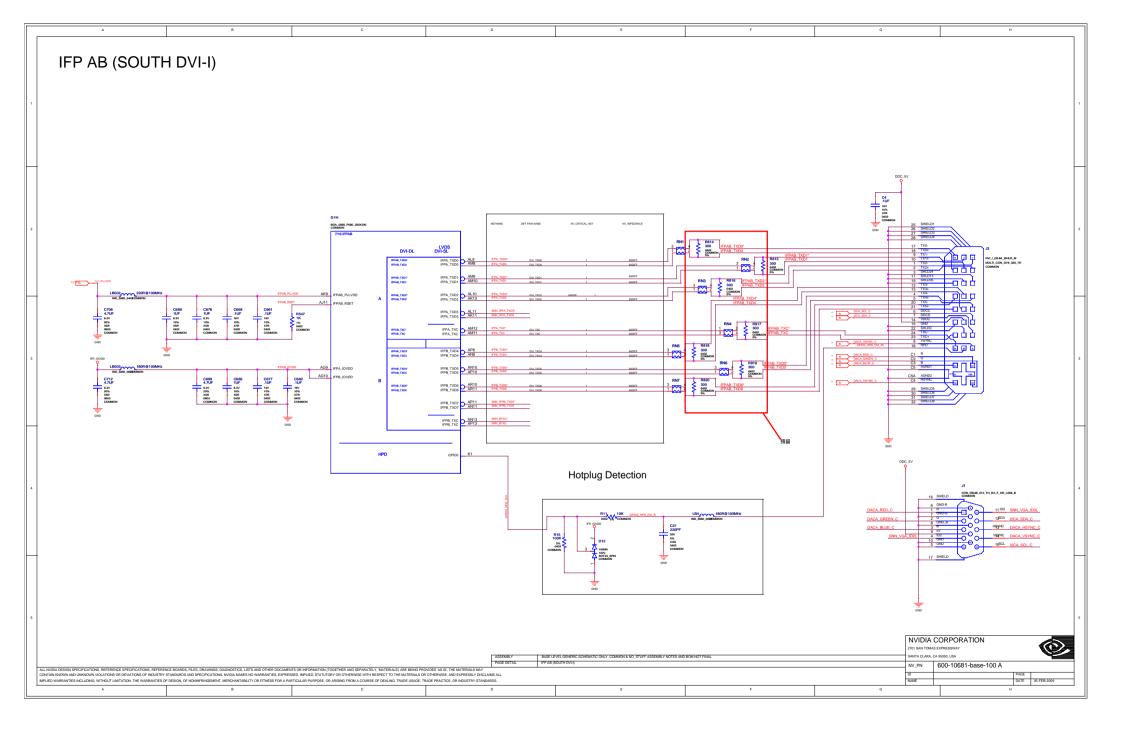


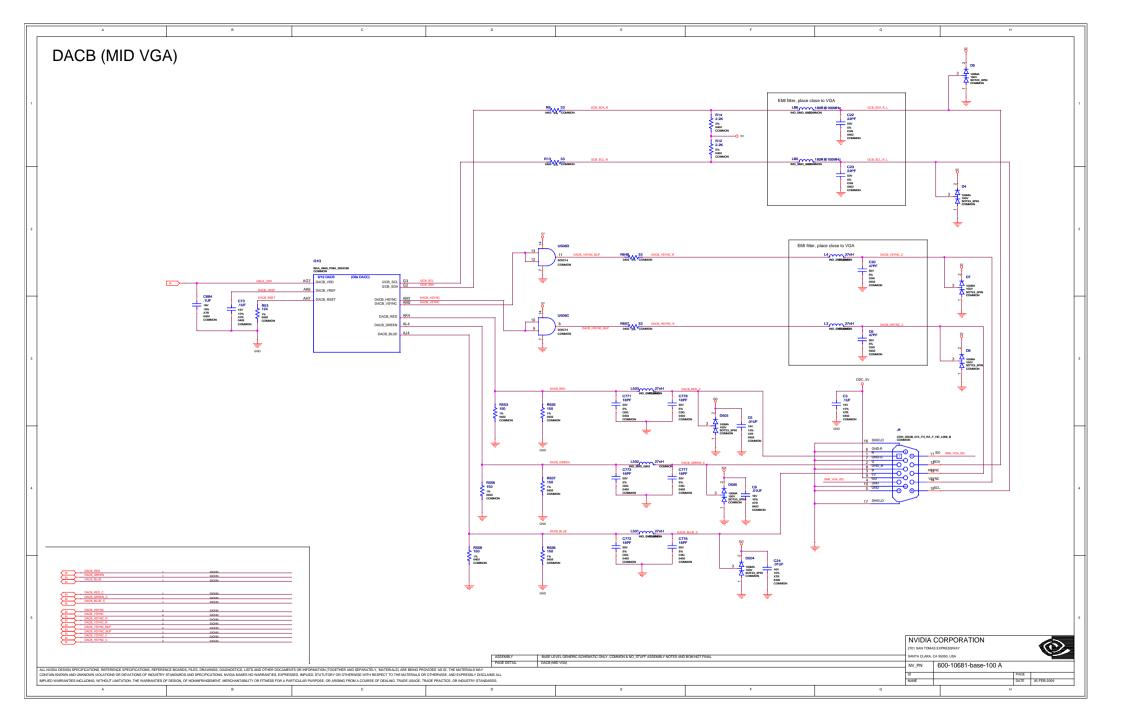












# P681-A01 GT215/216 DESKTOP GB1-128 DDR3 PCI-EXPRESSx16 DL-DVI VGA HDMI

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

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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

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## FBVDDQ POWER SUPPLY ER1595 2R2 EB16 Chock 1.2u EC108 CD470u16EL11.5 EC182 10uF EC124 FBVDDQ=0.8\*(1+(ER12/ER13)) C1035 C1036 100pF 100pF EC346 10uf 1.87K EC1693 = EQ106 Memory Power Delay AMD. ate: Monday, June 22, 2009 purpose, and disclaims responserely livery to the service of the information included hearin. Title RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6' Doc No. 105-B665xx-00A

## **NVVDD POWER CORE REGULATOR NVVDD** EB1 Chock 1.2u EB2 Chock 1.2u ER1600 +PW\_VDDC3 BOOT\_VDDC3 EL63 ER1617 Fb\_VDDC3 Compensation Circuit NVVDD=0.8\*( 1+( ER1592 / ER1597 )) Title RH RV730 512MB DDR2 DL-DVI DP HDMI FH 6' Doc No. 105-B665xx-00A