P413: G86, DDR2 MEMORY 32MX16/16Mx16

Page 1: P413 Overview

Page 2: PCI Express Interface

Page 3: Frame Buffer Interface

Page 4: Memory 1st Bank 0..31

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Page 6: DACA, Slim DB15 Connector

Page 7: DACB, MUX, 2x6 Header

Page 8: MiniDIN Connector & AVout

Page 9: TMDS Interface

Page 10: MIOA, MIOB Interface

Page 11: Straps, Mechanical Parts

Page 12: XTAL, GPIO, BIOS, FAN, JTAG, HDCP

Page 13: Power Supply I: NVVDD, PLLVDD

Page 14: Power Supply II: F3V3, 5V, DDC5V, FBVDDQ

Page 15: SPDIF

Page 16: Basenet Report

Page 17: Cref Part

REV HISTORY

96/05/28 Add SPDIF citcuit

V147 0A base on V074 12 changed

1.page 4&5 BA<2> change to FBA_CMD27

2.page 7 header change to D_sub

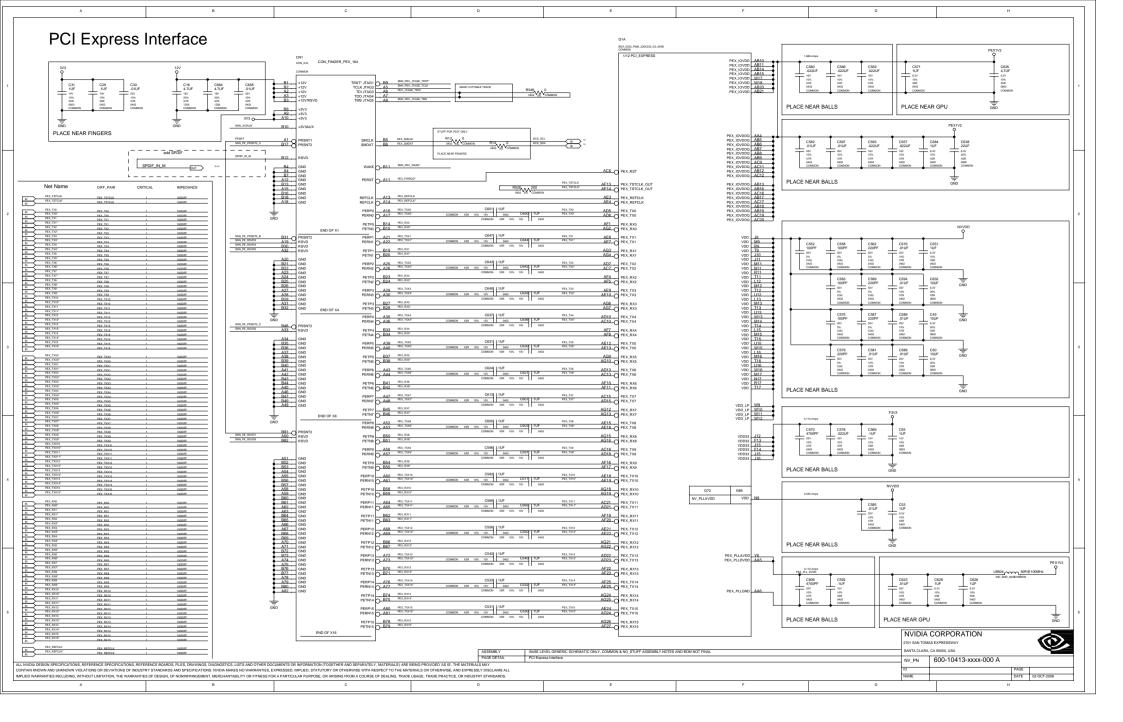
3.page 9 add to dual link

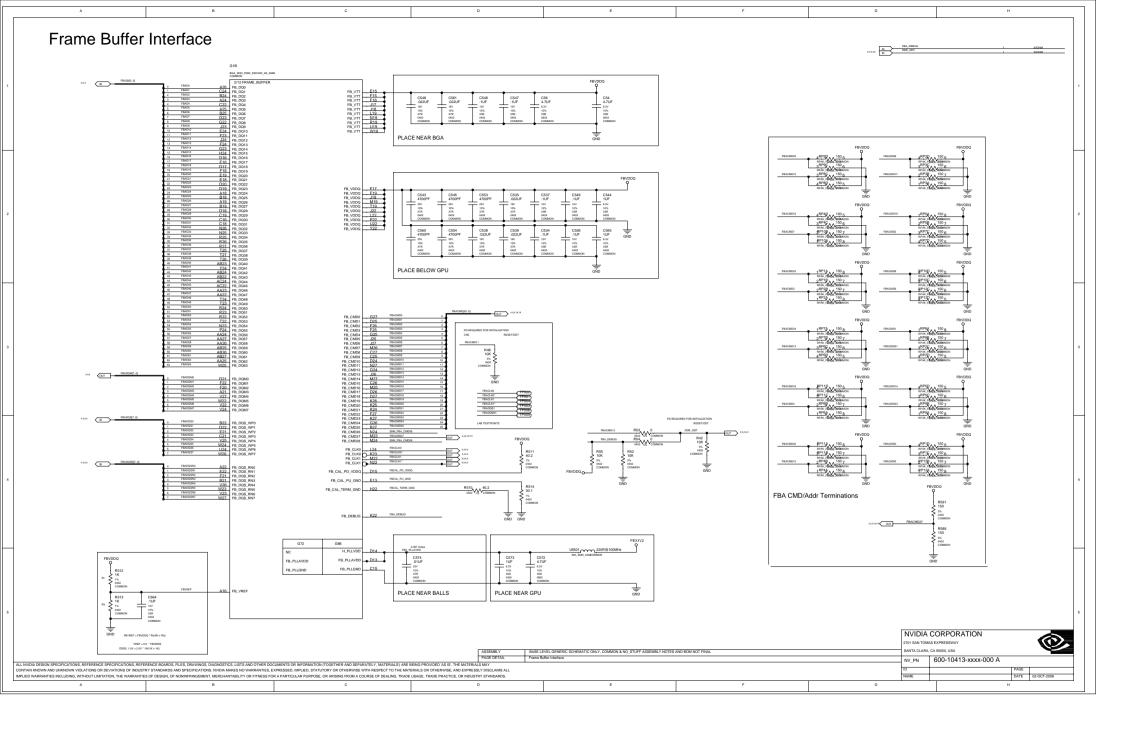
4.page 18&19 add 2nd bank

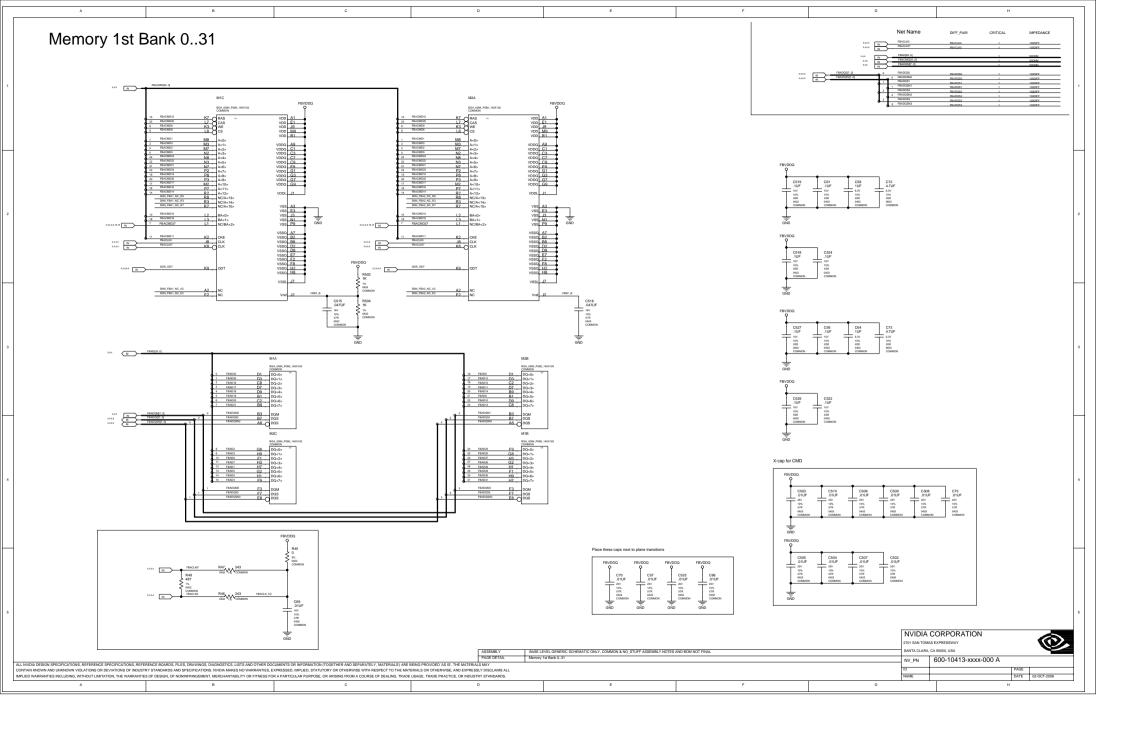
5.page 20 co-lay FBVDDQ use PWM circuit

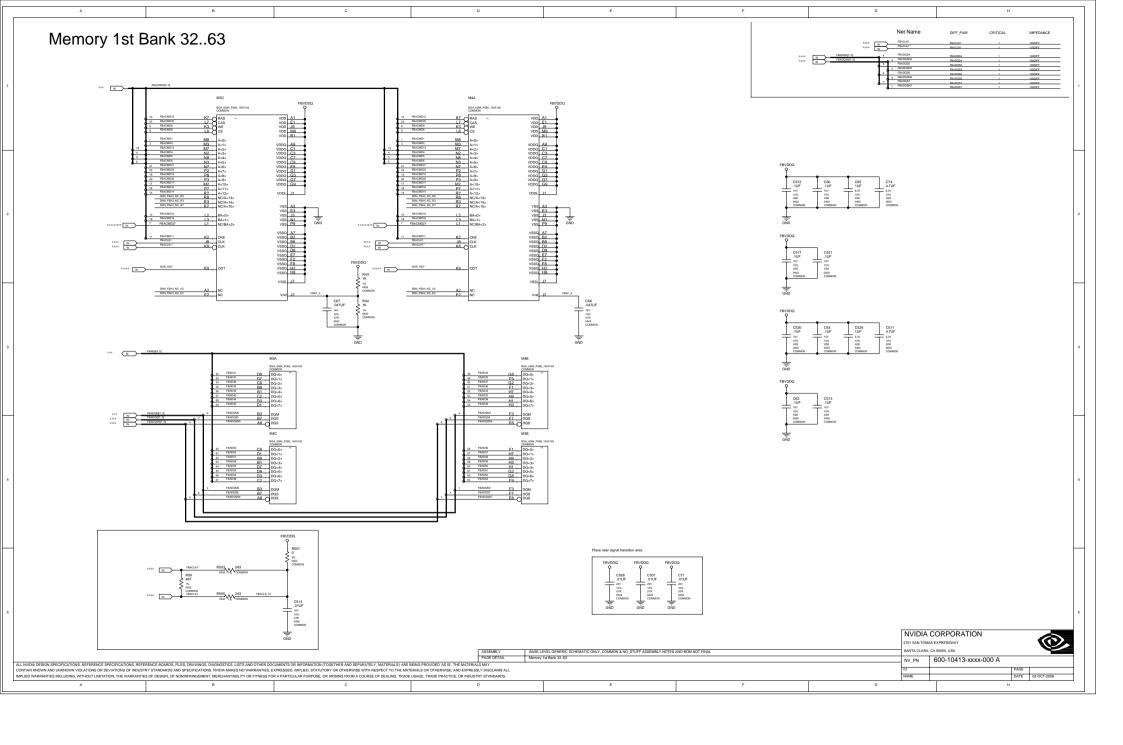
1	INSJ	VARIANT	NVPN	ASSEMBLY		
	В	BASE	600-10413-xxxx-000	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL		
	1	SKU0000	600-10413-0000-000	P413: G86-200, 64 BIT DDR2 16Mx16 MEMORY, VGA+DVI+HDout		
	2	SKU0001	600-10413-0001-000	P413: G86-200, 64 BIT DDR2 32Mx16 MEMORY, VGA+DVI+HDout		
	3	SKU0050	600-10413-0050-000	P413: G78-300, 64 BIT DDR2 16Mx16 MEMORY, VGA+DVI+HDout		
	4	SKU0051	600-10413-0051-000	P413: G78-300, 64 BIT DDR2 32Mx16 MEMORY, VGA+DVI+HDout		
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	7	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>		
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- 1:	11	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>		
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- 1 :	15	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>		

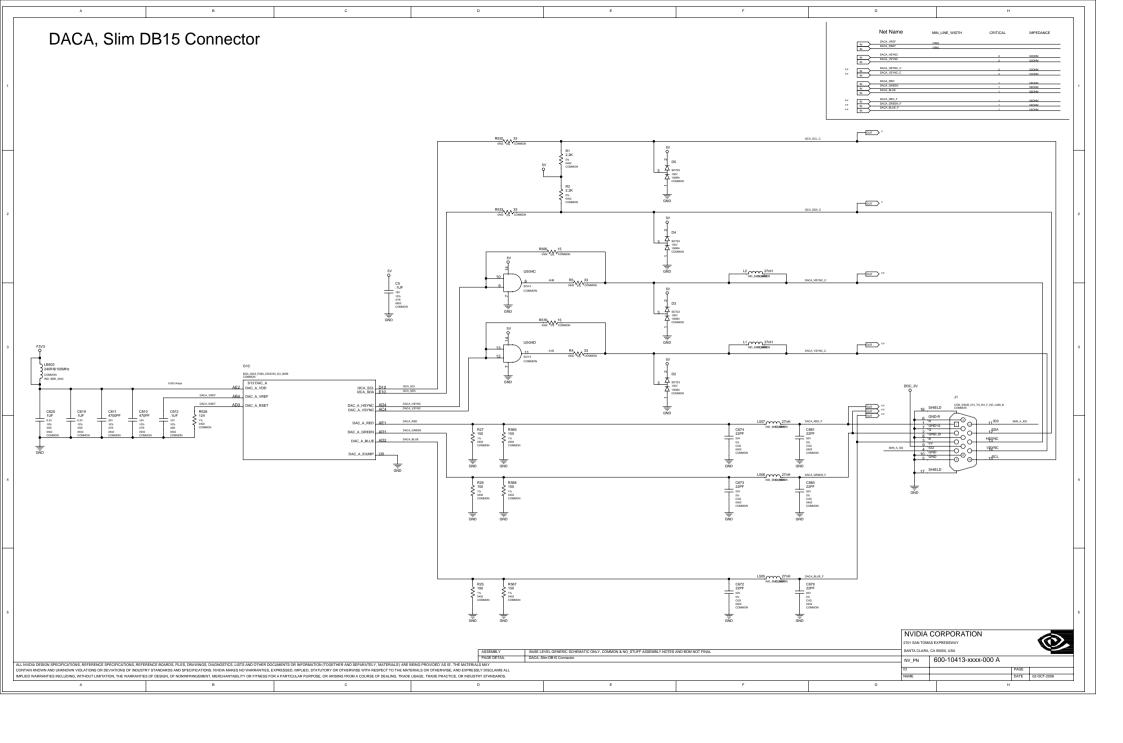
			NVIDIA CORPORATION	
			2701 SAN TOMAS EXPRESSWAY	
Γ	ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL	SANTA CLARA, CA 95050, USA	—
	PAGE DETAIL	P413 Overview	NV_PN 600-10413-xxxx-000 A	
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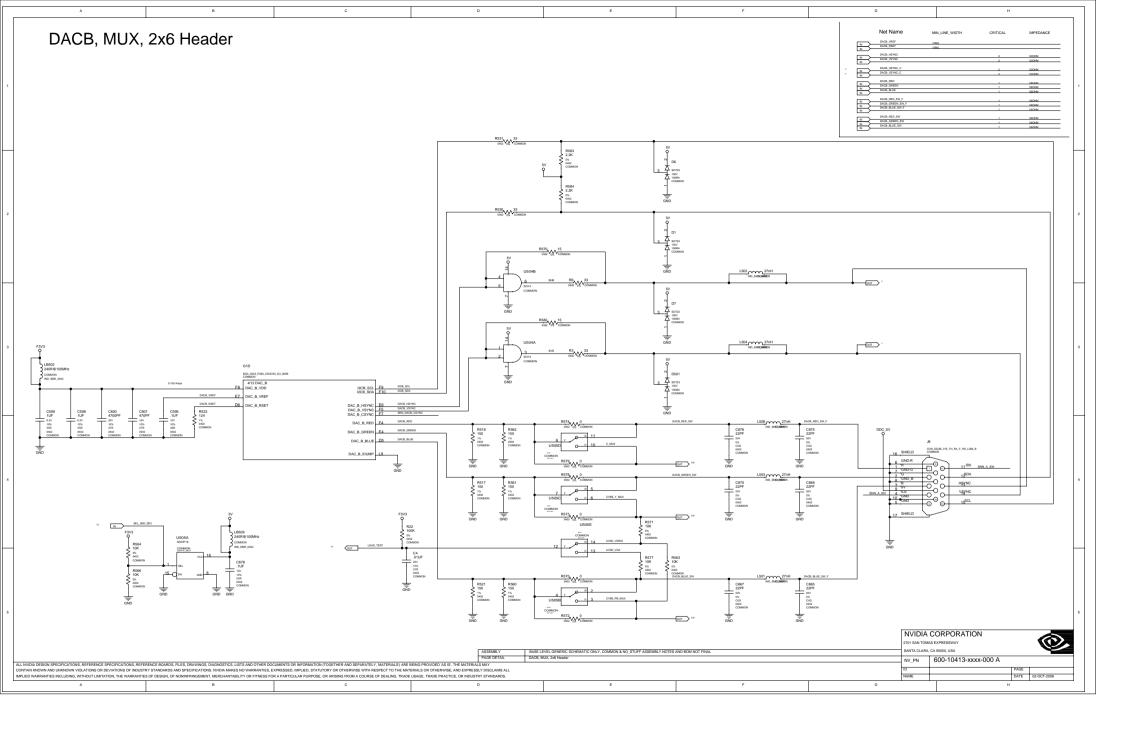


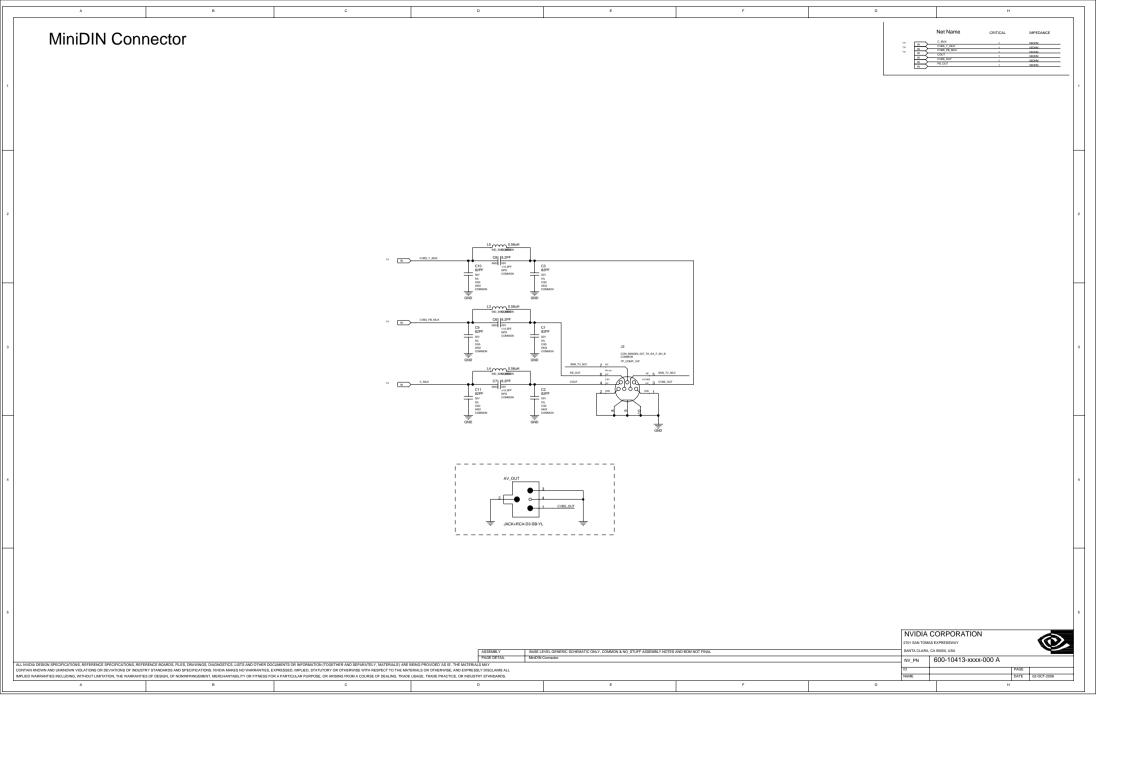


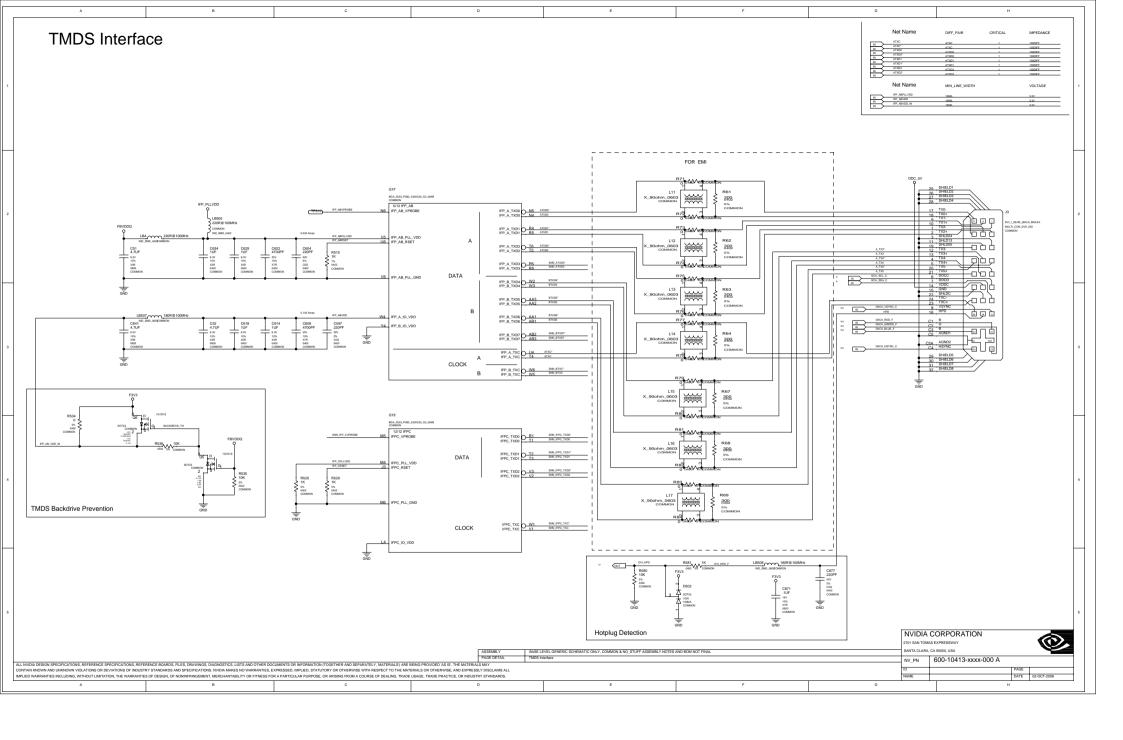


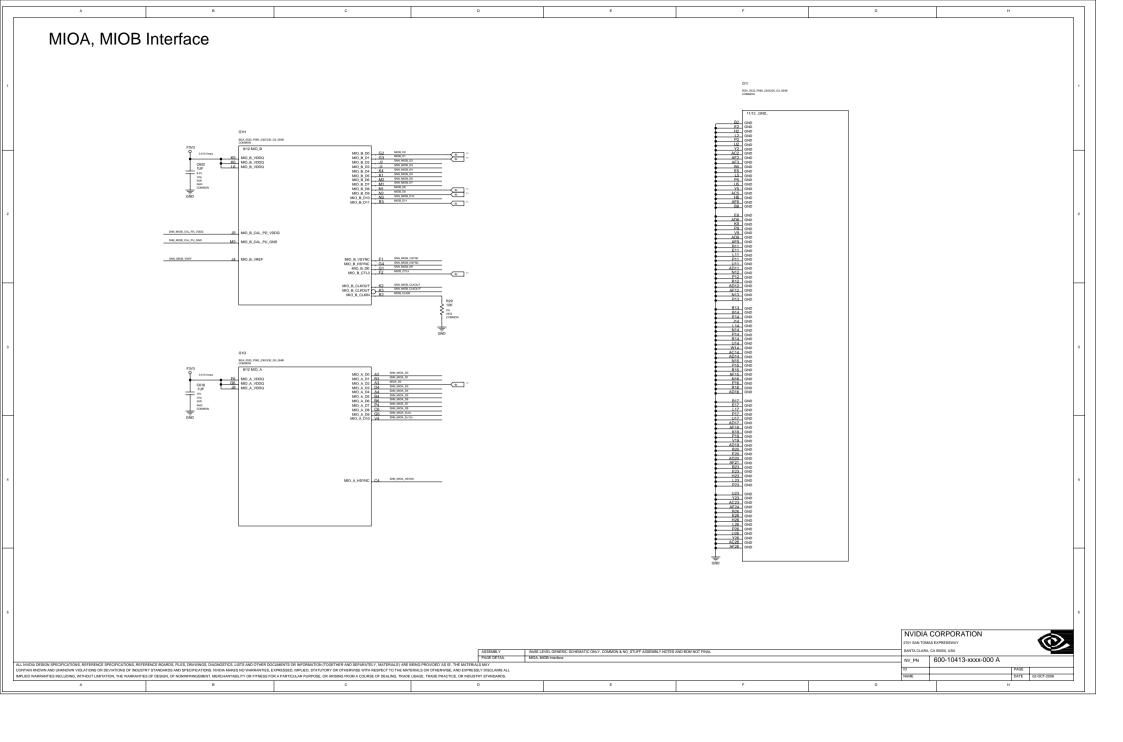


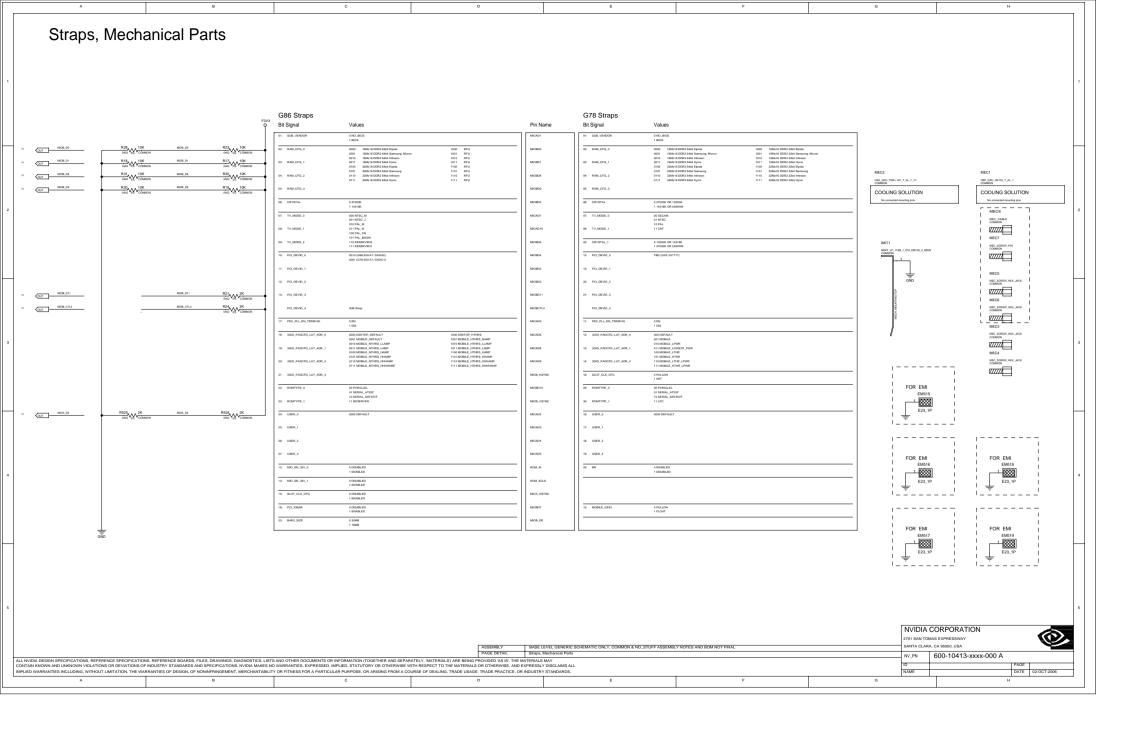


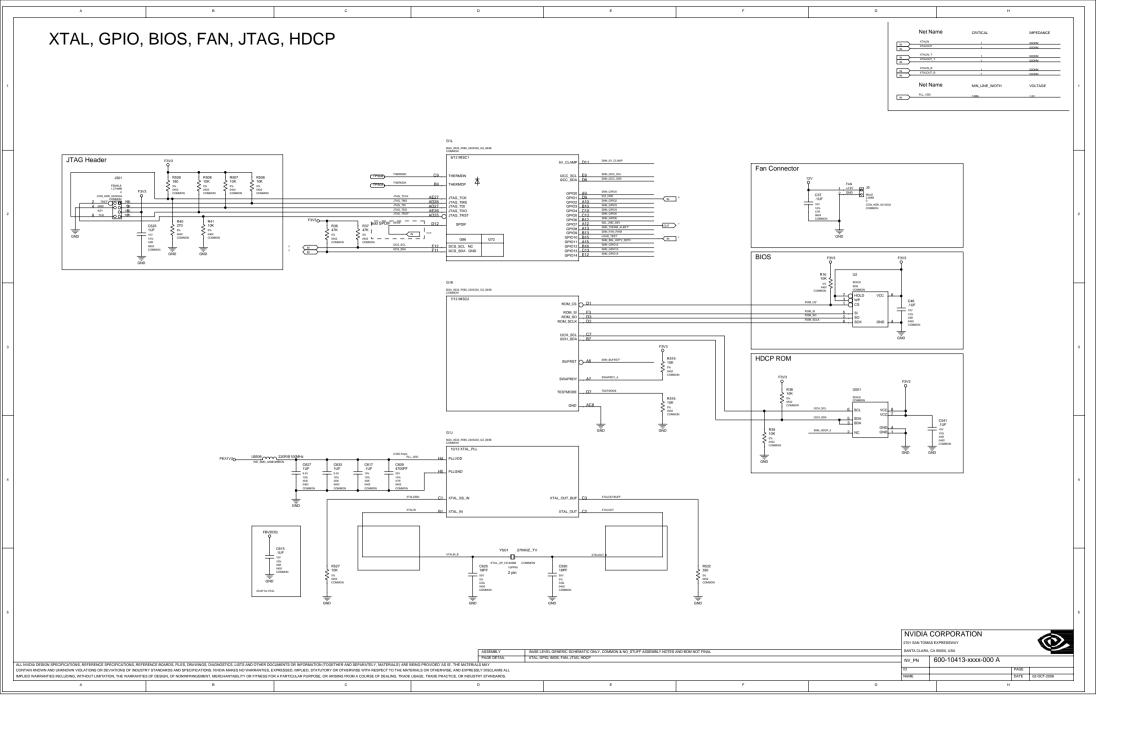


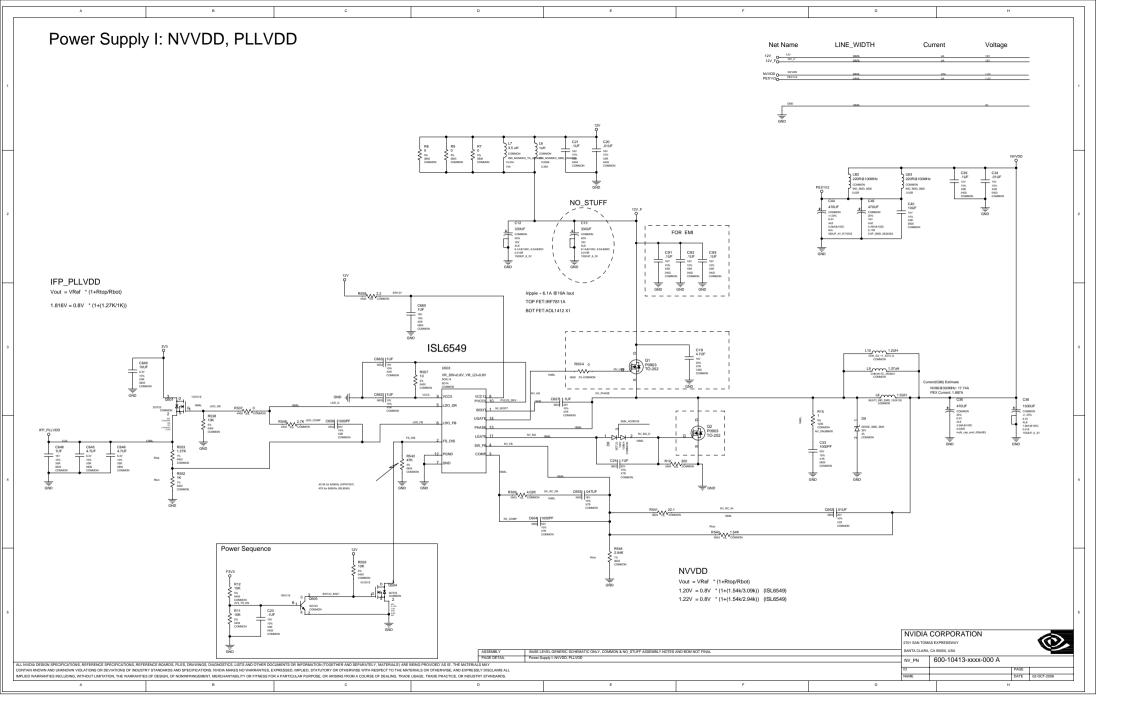








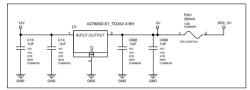




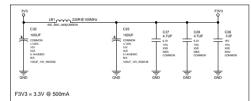
Power Supply II: 5V, DDC5V, F3V3, FBVDDQ



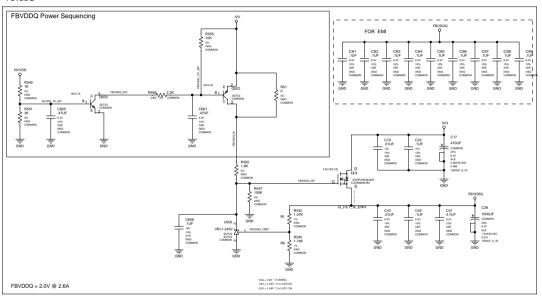
5V, DDC5V



F3V3



FBVDDQ



ASSERIE!

AND DESCRIPTION AND DESCRIPTION ASSERIES OF THE STREET OF THE

Title: Basenet Report
Design: p413
Date: Sep 29 14:42:41 2006 FBADQM<4>
FBADQM<5> SNN_MIOB_CAL_PU_GN 10.28 3.3B 5.4B PEX_REFCLK* 2.4A<2.50 3.3C 3.3G 4.2B 4.2I 2.2C 2.5A PEX_TXX13* 528520 FRADOM-65 3 38 5 30 PEX RX0 2.2C 2.4Ac PEX TXX14 2.4A< 2.5C 5.28 5.20 3.30 3.3F 4.18 4.10 5.18 5.10 FBADQM<7> FBADQS<0> SNN_MIOB_CLKOUT 10.30 SNN_MIOB_CLKOUT* 10.30 FRACMD-16> 3.3C.3.3E.4.2B.4.2C FB4008c7 (b. 344c) 444c) 416c 0413 Sh P413/G0413 Sh 0413/sch 10 PEX_RX1* PEX_RX2 220244 PEX TXX15" 244-250 SNN_MIOB_D2 10.2C SNN_MIOB_D3 10.2C Base Signal Location(IZone)[dir] 5.28 5.2C 5.1G< 5.4A< 2.2C 2.4Ac PLL VDD 12.1G< 12.4C FBACMD<17> 3.3C 3.3G 4.2B 4.2C 3.3D 3.4B 4.1G 4.4B PRSNT 2.18
PVCC5_DRV 13.3D
ROM_CS* 12.3E 12.3F SNN MIOB D4 10.20 3V3 14.1G 3V3_TH_EN 13.5B FBADQS<2> 3.48 4.1G 4.4D FBADQS<3> 3.48 4.1G 4.4D 5.28 5.2C FBACMD+18> 3.3C 3.3G 4.2B 4.2C PEX_RX3 PEX_RX3* 2.3C 2.4A SNN_MIOB_D5 10.2C SNN_MIOB_D6 10.2C 373.TH/EM 13.88

5V 14-10

172 / 13.1F

172 / 13.1F

172 / 13.1F

173 / 13.1F

174 / 13.1F

175 2.3C 2.4Ac FBADQS<3> 3.48 4.16 4.40
FBADQS<4> 3.48 5.16 5.48
FBADQS<5> 3.48 5.16 5.40
FBADQS<5> 3.48 5.16 5.40
FBADQS<7> 3.48 5.16 5.40 5.28 5.2C FBACMD<19> 3.3C 3.3F 4.2B 4.2C PEX_RX4 PEX_RX4* ROM_SCLK 12:3E 12:3F ROM_SI 12:3E 12:3F SNN_MIOB_D7 10.2C SNN_MIOB_D10 10.2C 5.28 5.2C PEX_RXS 2.3C 2.5Ac ROM_SO 12.3E 12.3F SNN_MIOB_DE 10.2C FBACMD-20> 3.3C.3.3E.4.2B.4.2C PEX BXS 2.3C 2.5Ac SEL 2ND DEV 12.25-7.44 SNN_MIOB_HSYNC 10.20 SNN_MIOB_VREF 10.2B 9.1G< 9.3E 9.3G 9.1G< 9.3E 9.3G 9.1G< 9.2E 9.2G FBADQSN-0> 3.48 4.1G 4.48
FBADQSN-7.0> 3.4A -> 4.4A -> 4.1G-PEX_RX8 PEX_RX8* PEX_RX7 23C 25Ac 23C 25Ac SNN_3V3AUX 2.18 SNN_5V_CLAMP 12.2E SNN_ACDRIVE 13.4E 52852C SNN_MIOB_VSYNC 10.2C SNN_PEX_JTAGE_TCLK 2.1C ACMD<21> 3.3C 3.3G 4.2B 4.2C 5.28 5.2C 2.3C 2.5Ac 5.1G< 5.4A< SNN_ACDRIVE 13.41
SNN_ATXD3 9.2E
SNN_ATXD3 9.2E
SNN_A_ID0 6.4H
SNN_A_ID2 6.4G
SNN_A_TX3 9.2G FBACMD<22> 3.3C 3.3G 4.2B 4.2C FBACMD<23> 3.4C 3.4F 4.2B 4.2C 5.2B 5.2C 91G-92F92G FBADOSNe1> 330348410448 PEX BX7* 2302584 SNN PEX ITAGE TMS 210 9.1G< 9.2E 9.2G 9.1G< 9.2E 9.2G FBADQSN-2> 3.48 4.1G 4.4D FBADQSN-3> 3.48 4.1G 4.4D PEX_RX8 PEX_RX8* 2.4C 2.5Ac 2.4C 2.5Ac SNN_PEX_WAKE* 2.2C FBACMD<24> 3.4C 3.4F 4.2B 4.2C FBACMD<25> 3.4C 3.4G 4.1B 4.1C FBADQSN-4> 3.48 5.1G 5.4B FBADQSN-5> 3.48 5.1G 5.4B 910-92F920 PEX_RX9 PEX_RX9* 240.254 9.1G< 9.2E 9.2G 2.4C 2.5Ac Sell_TITS 2-20
SNA_TITS 2-20
SNA_TITS 2-20
SNA_TITS 2-20
SNA_TITS 2-20
SNA_TITS 2-20
SNA_TITS 3-20
S SNN PE PRSNT2 A 2.1B FBADQSN«6» PEX_RX10 SNN_PE_PRSNT2_B 22B SNN_PE_PRSNT2_C 23B FBAD<0> 3.18 4.38 FBAD<32.0> 4.3A<> FBADQSN<7> 3.48 5.1G 5.4D PEX_RX10* 2.4C 2.5A< FRA DERUG 3.10-3.40.3.4E PEX RX11 240 254 SNN PE RSVD2 2.28 FBA_PLIAVDD 3.5C FBCAL_PD_VDDQ 3.4C FBCAL_PU_GND 3.4C PEX_RX11* PEX_RX12 2.4C 2.5Ac 2.4C 2.5Ac SNN_PE_RSVD3 2.2B SNN_PE_RSVD4 2.2B SNN_PE_RSVD5 2.2B CVBS_OUT 8.1G< 8.3E FBAD<1> 3.18 4.38 PEX_RX12* 2.4C 2.5A< CVBS PR MIX 745-810-83C-FBAD<2> 3.1B 4.3B FBCAL_TERM_GND 3.4C FBVDDQ 14.1G FBVDDQ_12V_EN* 14.3E PEX RX13 254-250 SNN PE RSVDs 2.38 CVBS_Y_MUX 7.4F> 8.1G< 8.2C C_MUX 7.4F> 8.1G< 8.3C< 3.18 4.38 3.18 4.38 PEX_RX13* PEX_RX14 25A< 25C 25A< 25C SNN_PE_RSVD7 2.4B SNN_PE_RSVD8 2.4B FRECCI DACA BILLE 6 10×6 40 3.18.4.38 FRVDDO DR 14.3F PEX BX14* 250-250 SNN SEL HOTY SOTY 12:2E FBVDDQ_DR 14.3F FBVDDQ_EN* 14.3E FBVDDQ_NR 14.3F FBVDDQ_VREF 14.4F FBVREF 3.5B FS_DIS 13.4C HPD 9.3G I2CA_SCL 6.3C 3.18 4.38 3.18 4.38 3.18 4.38 3.18 4.48 3.18 4.48 DACA BUILE F 64G>61G+93G+ PEX RX15 250-250 SNN SPDIF 12.2C DACA_GREEN 8.1G< 8.4C DACA_GREEN_F 8.3G> 8.1G< 9.3G< PEX_RX15* 2.5A<2.5
PEX_SMCLK 2.1C
PEX_SMDAT 2.1C SNN_THERM_ALERT* 12.2E SNN_TV_NC1 8.3E SNN_TV_NC2 8.3E DACA HSYNC 610-630 3.18 4.48 3.18 4.48 3.18 4.48 PEX_TSTCLK 2:2A<2:2E PEX_TSTCLK* 2:2A<2:2E DACA HSVNC C 820×810×930× DACA_RED_F 6:3G> 6:1G< 9:3G PEX_TX0 2.2A<2.2E SNN_DACB_CSYNC 7:30 SWAPRDY_A TESTMODE DACA RSET 61G-638 3.18 4.48 3.18 4.48 3.28 4.48 I2CA_SCL_C 6.1G> 9.2G< PEX_TX0* 2.24×2.2F SNN FAN PWM 12 2F 12.3E 12.2C 12.2C PEX_TXI*
PEX_TXI*
PEX_TX2*
PEX_TX2*
PEX_TX3* DACA_VREF 6:1G<6:38 DACA_VSYNC 6:1G<6:3C 12CA_SDA 6:3C 12CA_SDA_C 6:2G>9:3G< SNN_FBA1_NC_A2 4.3B SNN_FBA1_NC_E2 4.3B THERMOA THERMOC VCCS VREF_A VREF_B XTALIN XTALIN_B XTALIN_T DACA_VSYNC_C 6:3G> 6:1G< 9:3G< 3.28 4.3D 12CB_SCL 7.9C 12CB_SCL_C 7.1F 2.2A<2.2E SNN_FBA1_NC_R3 4.2B DACB_BLUE 7.1G< 7.4C DACB_BLUE_SW 7.1G< 7.5E DACB_BLUE_SW_F 7.1G< 7.5F 3.28 4.3D 3.28 4.3D 3.28 4.3D 2.24×2.2F SNN_FBA1_NC_R7 4.2B SNN_FBA1_NC_R8 4.2B SNN_FBA2_NC_A2 4.3C 5.3C 5.3E 4.3C 4.3E 12CB_SDA 7.3C 12CB_SDA_C 7.2F 2.2A<2.3E 2.2A<2.3E 12.1G< 12.4C 12.1G< 12.5D PEX TX4 DACE GREEN 710-740 3 28 4 30 DCH 801 12.3E 12.3G 224-235 SNN FRA2 NC F2 4 3C 3.28 4.3D 3.28 4.3D 3.28 4.3D 3.28 4.3D 120H_SDA 123E 124G 12CS_SCL 2.1E → 12.2C → 12CS_SDA 2.1E → 12.2C → SNN_FBA2_NC_R3 42C SNN_FBA2_NC_R7 42C SNN_FBA2_NC_R8 42C XTALIN_B 12:10<12:30

XTALIN_T 12:10<12:40

XTALOUT 12:10<12:4E

XTALOUTBUFF 12:4E DACR GREEN SW 71Gc74E PEX TX4* 224-235 PEX_TXS
PEX_TXS*
PEX_TXS*
PEX_TXS*
PEX_TXS* DACB_GREEN_SW_F 7.1G<7.4F 2.2A<2.3E DACB_HSYNC 7.1G< 7.3C DACB_HSYNC_C 7.3G> 7.1G< 2.2A< 2.3E XTALOUT_B 12.1G<12.5E XTALOUT_T 12.1G<12.4E XTALSSIN 12.4C 3.2B 4.4D IED ABBITYDD 9 10-9 20 224-235 SNN FRA3 NC 42 538 DACB_RED 7.1G< 7.4C DACB_RED_SW 7.1G< 7.4E 3.28 4.4D 3.28 4.4D IFP_ABRSET 9.2C IFP_ABVDD 9.1G<9.3C 22A<2.3E 22A<2.3E SNN_FBA3_NC_E2 5.38 SNN_FBA3_NC_R3 5.28 3.28 4.4D 3.28 4.4D 3.28 4.4D 3.28 4.4D DACB RED SW F 7.1G<7.4F IFP_ABVDD_IN 9.1G< IFP_ABVPROBE 9.2C PEX_TX7* PEX_TX8 2.2A< 2.3E SNN FBA3 NC R7 5.2B DACS RSET 71G-738 234-245 SNN FRAS NC RK 526 IFP_ABVPROBE 9.2C IFP_AB_VDD_IN 9.4A IFP_CPLLVDD 9.4C IFP_CRSET 9.4C DACB_VREF 7.1G< 7.3B DACB_VSYNC 7.1G< 7.3C PEX_TX8* PEX_TX9 PEX_TX9* 23A<24E 23A<24E SNN_FBA4_NC_A2 5.3C SNN_FBA4_NC_E2 5.3C DACB_VSYNC_C 7.9G> 7.1G< 3.2B 4.4D 2.3A< 2.4E SNN_FBA4_NC_R3 5.20 DDC_5V 14.1G DDR_ODT 3.4F> 3.1G< 4.2A 3.28 5.38 3.28 5.38 3.28 5.38 PEX_TX10 PEX_TX10* PEX_TX11 2.3A<2.4E 2.3A<2.4E 2.3A<2.4E SNN_FBA4_NC_R7 5.2C SNN_FBA4_NC_R8 5.2C SNN_FBA_CMD28 3.4C 4.2C< 5.2A< 5.2C< DVI HPD 9.35> 12.25c 3.28 5.38 PEX TX11* 234-24F SNN FBA CMD27 3.40 JTAG_TMS

JTAG_TRST*
LDO_COMP
LDO_FB
LDO_G
LDO_G
LDO_GR
LOAD_TEST DV_HPD_F 9.3F F3V3 14.1G FBACLK0 3.4D>3.3D 4.1G< 3.28 5.38 3.28 5.38 3.28 5.38 3.28 5.38 PEX_TX12 PEX_TX12* PEX_TX13 2.3A< 2.4E 2.3A< 2.4E SNN_FBA_CMD28 3.4C SNN_GPI00 12.2E SNN_GPI02 12.2E 13.4C 13.3C 13.3B 7.5C> 12.2F< 7.5F 2.3A<2.5E 3.28 5.38 3.28 5.48 3.28 5.48 PEX_TX13* PEX_TX14* PEX_TX14* 2.3A< 2.5E 2.3A< 2.5E 2.3A< 2.5E SNN_GPIO3 12.2E SNN_GPIO4 12.2E SNN_GPIO5 12.2E 4.2A< 4.2C< 4.5B< 42Ac 42Cc 45Bc 00" 3.4Do 3.3D 4.1G-4.2Ac 4.2Cc 4.5Bc FBACLKO 3.28 5.48 3.28 5.48 3.28 5.48 3.38 5.48 SNN_GPIOS 12.2E SNN_GPIO12 12.2E SNN_GPIO13 12.2E SNN_GPIO14 12.2E FBACLK1 3.4D> 3.3D 5.1G-LOAD_VGA 7.5E LOAD_VIDEO 7.4E PEX_TX15
PEX_TX15* 2.3A< 2.5E 5.24c 5.2Cc 5.5Bc 2.3A< 2.5E FBAD-44> FBAD-46> FBAD-46> FBAD-46> FBAD-48> FBAD-40> FBAD-50> FBACLK1* 3.4D> 3.3D 5.1G-5.2A< 5.2C< 5.5B< MIOA_D2 11.4A> 10.3D< 11.4B MIOB_CLKIN 10.3C PEX_TXXX
PEX_TXXX
PEX_TXXX 2.2C 2.3Ac 2.2C 2.3Ac FBACLK C0 4.5B 3.38 5.48 MIOB_CTL3 11.3A> 10.2D< 11.3B 2.2C 2.3Ac SNN_HDCP_2 12.4G 3.38 5.4B 3.38 5.3D MIOB_D0 11.2A> 10.2D< 11.2B MIOB_D1 11.2A> 10.2D< 11.2B PEX_TXX1* SNN_I2CC_SCL 12.2E SNN_I2CC_SDA 12.2E FBACMD<25.0> 3.3D> 4.1A< 4.1G< 3.38 5.3D 3.38 5.3D MIOB DB 11.2A> 10.2D< 11.2B PEX_TXXX* PEX_TXXXX 2.2C 2.3Ac SNN_IFPC_TXC 9.4E 5.14 MIOR D9 11 24×10 20× 11 28 234-230 SNN IFPC TXC* 9.4F FBAD-d1>
FBAD-d2>
FBAD-d3>
FBAD-d3>
FBAD-d4>
FBAD-d6>
FBAD-d6>
FBAD-d6> FBACMD<1> 32F 33C 4.18 4.1C 5.18 5.1C MIOB_DII 11.3A-10.2D<11.3B NVVDD 13.1F NVVDD_TH_EN 14.3D PEX_TXXX*
PEX_TXXX*
PEX_TXXX* SNN_FPC_TXD0 9.4E SNN_FPC_TXD0 9.4E SNN_FPC_TXD1 9.4E 2.3A< 2.3C 3.38 5.3D 3.38 5.3D 2.3A< 2.3C FBACMD-2> 3.2G 3.3C 4.1B 4.1C 2.3A< 2.3C FBACMD<3> 3.2G 3.3C 4.1B 4.1C 5.1B 5.1C 3.38 5.3D 3.38 5.3D NV_BG 13.4D NV_BG_D 13.4E PEX_TXXS PEX_TXXS* 2.3A< 2.3C 2.3A< 2.3C SNN_IFPC_TXD1* 9.4E SNN_IFPC_TXD2 9.4E SNN_IFPC_TXD2* 9.4E FBACMD-4> 3.2F 3.3C 5.2B 5.2C NV BOOT PEX TXXX 3.38 5.4D 2.3A< 2.3C FBACMD-5> 3.2F 3.3C 5.2B 5.2C 3.38 5.4D NV COMP 13.4D PEX_TXXX* PEX_TXXX7 2.3C 2.4A< SNN IFP CVPROBE 9.40 FBACMD<6> 32G 33C 52B 52C FBACMD<7> 33C 34G 42B 42C FBAD-68> FBAD-60> 3.38 5.4D 3.38 5.4D 3.38 5.4D NV_FB 13.4D NV_PHASE 13.3E NV_RC_FB 13.4D 2.3C 2.4Ac SNN_MIOA_D0 10.3C PEX_TXXX**
PEX_TXXX 2.3C 2.4A 2.4A 2.4C SNN_MIOA_D1 10.3C SNN_MIOA_D3 10.3C 5.28 5.2C FBACMD:8> 3.2G 3.3C 4.1B 4.1C FBAD-61> FBAD-62> FBAD-63> 3.38 5.4D NV RC IN 13.4F PEX TXX8* 2.4A< 2.4C SNN MICA D4 10.3C 5.18.5.1C FBACMD-9> 32F3.3C4.184.1C 3.38 5.4D 3.38 5.4D NV_SNUBBER NV_UG ER 13.4G PEX_TXX9* SNN_MIOA_D5 10.3C SNN_MIOA_D6 10.3C 2.4Ac 2.40 5.1B 5.1C FBADQM<0> 3.38 4.38 NV_UGR 13.3E PB_OUT 8.1G< 8.3E PEX_TXX10 2.4A<2.4C PEX_TXX10* 2.4A<2.4C SNN_MIOA_D7 10.30 FBACMD-10- 33C 33E 42B 42C FRADOM-7 (b) 3345-410-4444 SNN MICA DR 1030 528 5.2C FBACMD<11> 3.3C 3.3D 4.2B 4.2C PEX.IV2 13.1F PEX_JTAGE_TDIO 2.1C PEX_TXX11 24A<24C PEX_TXX11 24A<24C 5.4Ac FBADQMc1> 3.38 4.48 SNN_MIQA_D<10> 10.4C 52852C FBADQM-2> 3.38 4.3D PEX_PLL_DVDD 2.5F PEX_PWRGD* 2.2C PEX TXX12 2.4A< 2.4C SNN MICA HSYNC 10.40 FBACMD<12> 3.3C 3.4E BADQM-3> 3.38 4.4D PEX TXX12" 2.4A< 2.40 SNN_MIGB_CAL_PD_VD 10.28 NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA BASE LEVEL GENERIC SCHEMATIC ONLY COMMON & NO. STUEF ASSEMBLY NOTES AND ROW NOT FINA NV PN 600-10413-xxxx-000 A ALL MADIA DESIGN SPECIFICATIONS REFERENCE SPECIFICATIONS REFERENCE POARDS FILES DRAWINGS DIAGNOSTICS LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY "MATERIALIS") ARE BEING PROVIDED AS IS: THE MATERIAL SMAY CHAIN AND LINEAR ON BUILDING OF BUILDING O AND ADDRESS AND AD DATE 02-OCT-2006

