P621-A00: G98-GB1-64, MXM-I, 256/128MB GDDR2 (32M/16Mx16), LVDS, HDMI, TV_OUT, VGA, HD Audio, DP option

Table of Contents

Page 1: PAGE OVERVIEW
Page 2: PCI EXPRESS INTERFACE
Page 3: GPU MEMORY INTERFACE
Page 4: MEMORY LOWER SUB-PARTITION INTERFACE
Page 5: MEMORY UPPER SUB-PARTITION INTERFACE
Page 6: DAC A/B
Page 7: LVDS(LINK A/B), HD AUDIO
Page 8: HDMI, DP
Page 9: MXM CONNECTOR
Page 10: GPIO, JTAG, TEMP SENSOR
Page 11: VBIOS & HDCP ROM, XTAL, SPREAD SPECTRUM, SPDIF
Page 12: NVVDD POWER SUPPLY
Page 13: PEX, FBVDDQ POWER SUPPLY
Page 14: STRAPS
Page 15: Basenet Report
Page 16: Cref Part

SKU	VARI ANT	NVPN	ASSEMBLY
В	Base	600-10621-0000-000	BASE LEVEL GENERIC SCHEMATIC ONLY
1	SKU0001	600-10621-0001-000	NB9M-GS G98M ?/400MHz, 256MB(64bit) GDDR2 32Mx16 84FBGA, LVDS + HDMI + SD/HD(TV_OUT) + VGA
2	SKU0002	600-10621-0002-000	Cancelled 128MB version
3	SKU0003	600-10621-0003-000	NB9M-GE G98M ?/400MHz, 256MB(64bit) GDDR2 32Mx16 84FBGA, LVDS + HDMI + SD/HD(TV_OUT) + VGA
4	SKU9998	600-10621-9998-000	All components
5	<undefi ned=""></undefi>	<undefi ned?<="" th=""><th><undefined?< th=""></undefined?<></th></undefi>	<undefined?< th=""></undefined?<>
6	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
7	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefined></undefined>
8	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
9	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
10	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
11	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
12	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefined></undefined>
13	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
14	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
15	<undefi ned=""></undefi>	<undefi ned=""></undefi>	<undefi ned=""></undefi>
ш			

NVIDIA CORPORATION

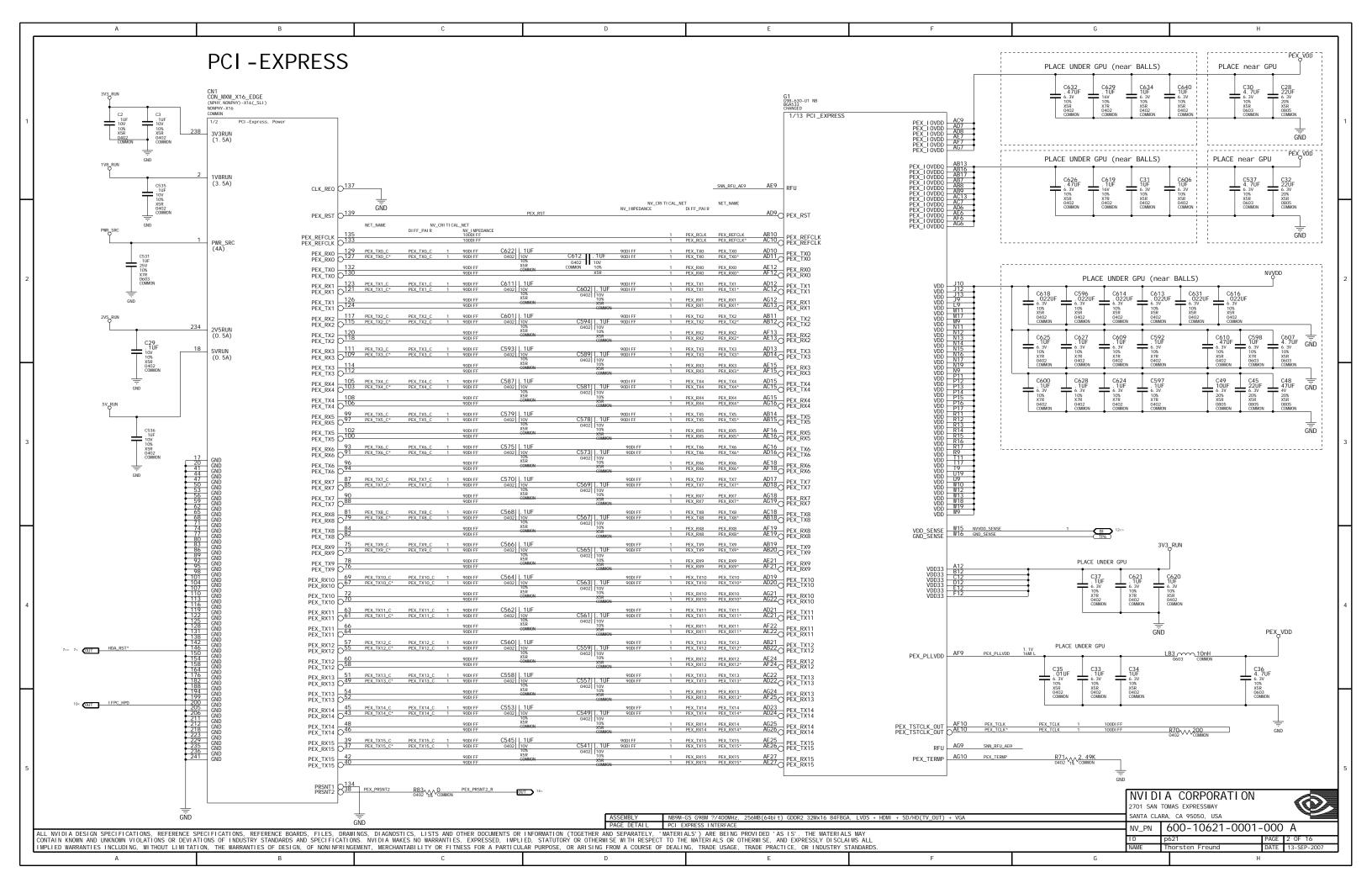
2701 SAN TOMAS EXPRESSWAY

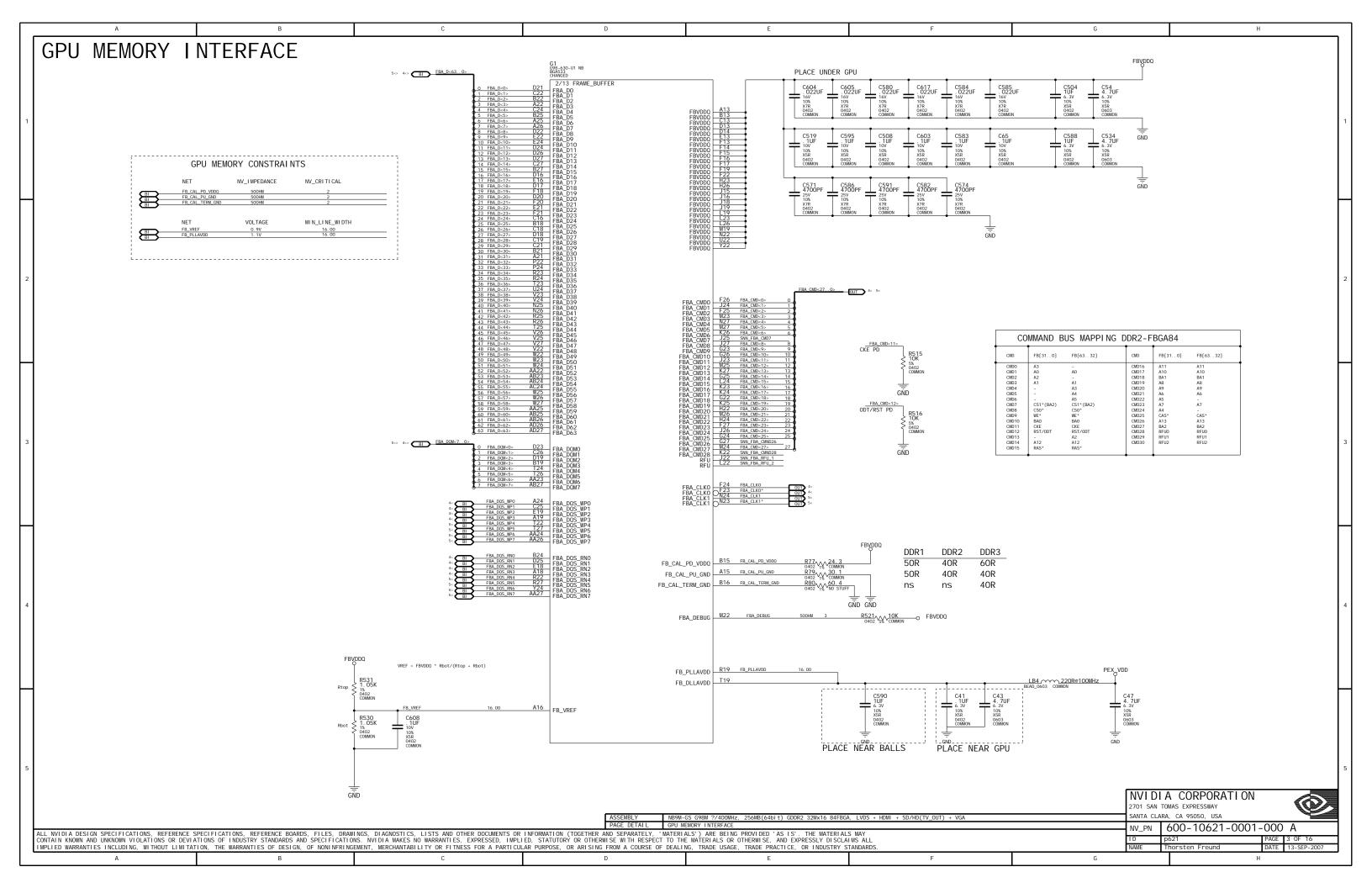
SANTA CLARA, CA 95050, USA

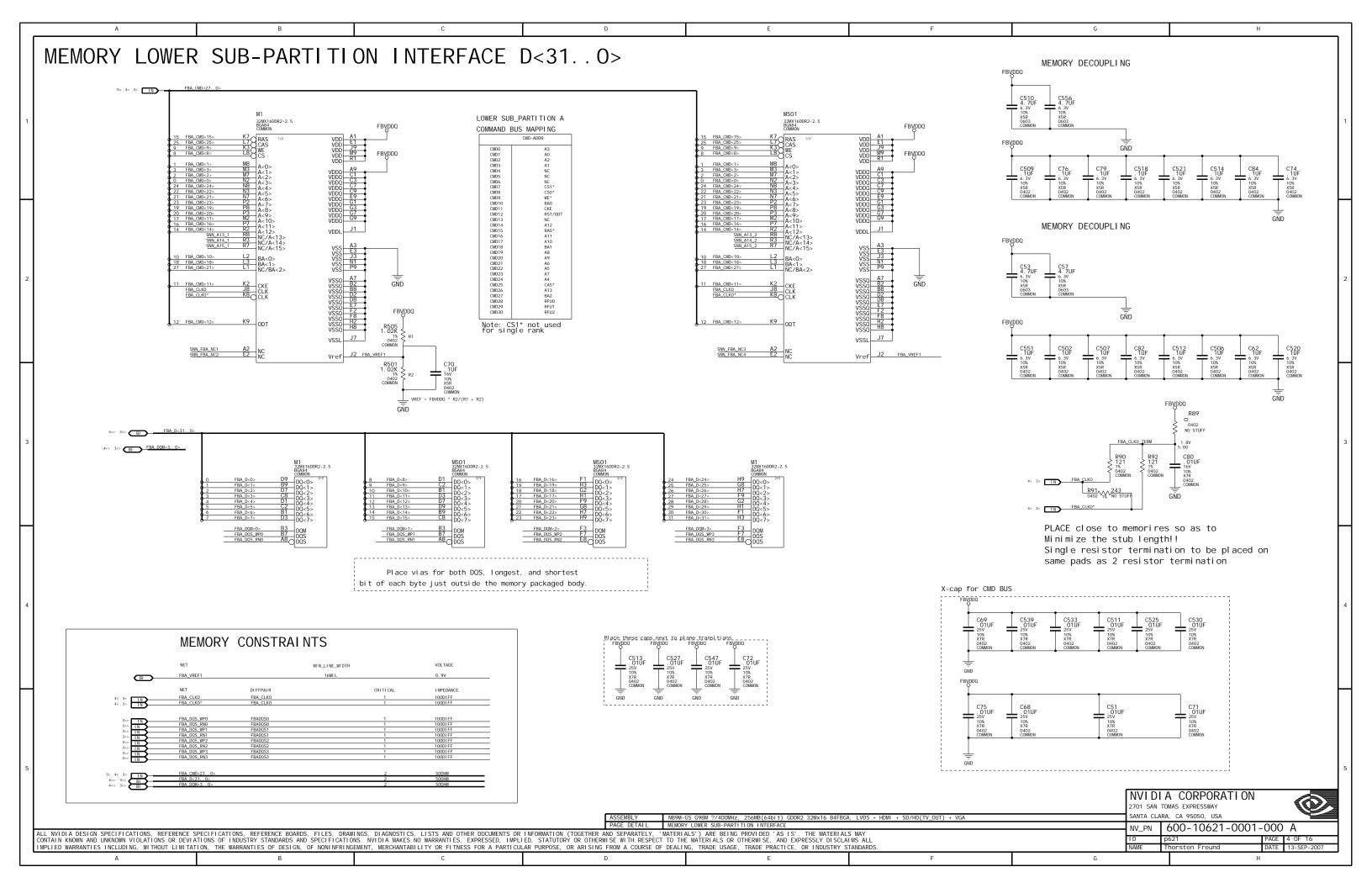
NV_PN 600-10621-0001-000 A

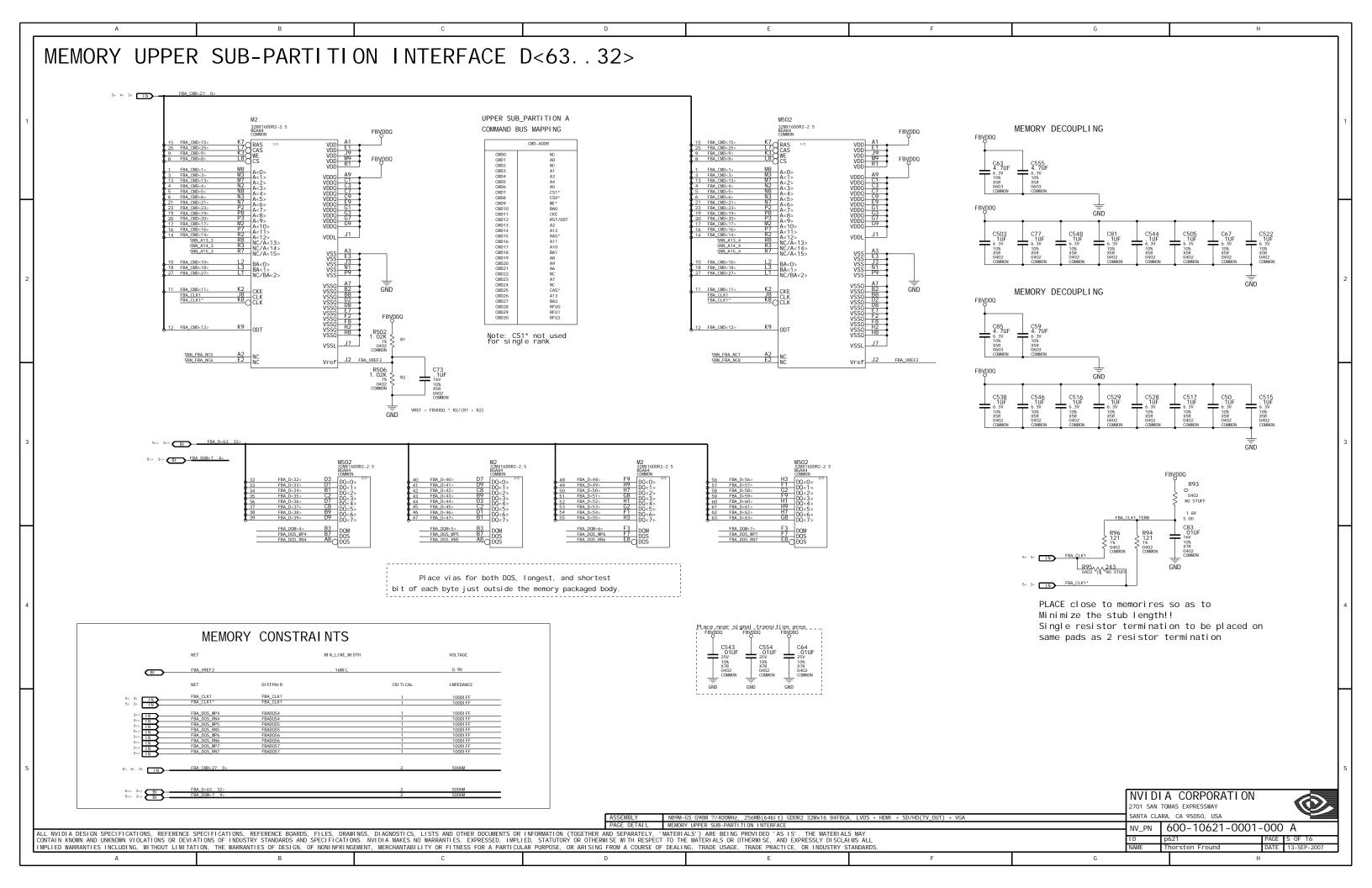
PAGE 1 0F 16 DATE 13-SEP-200

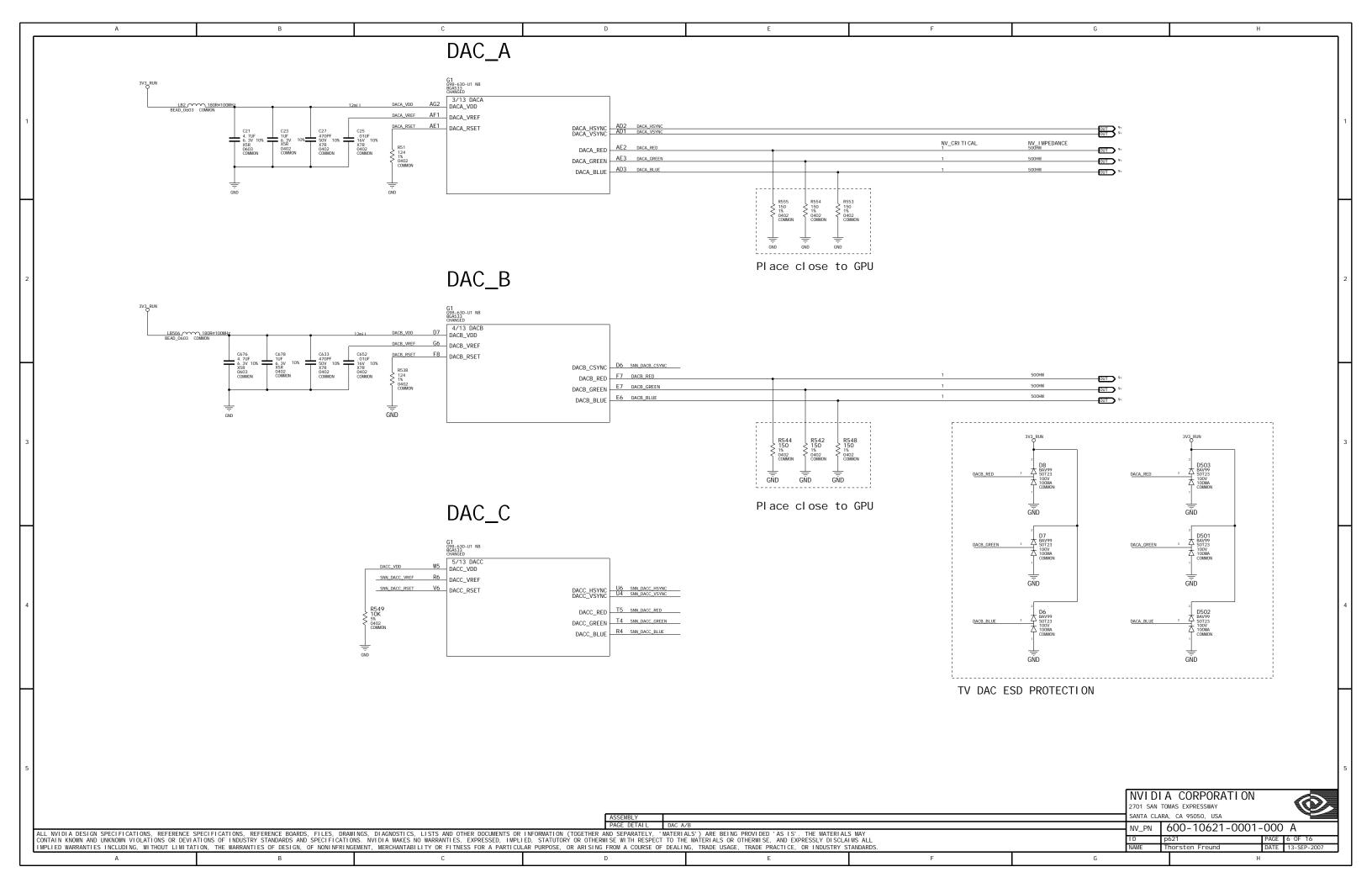
ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS 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

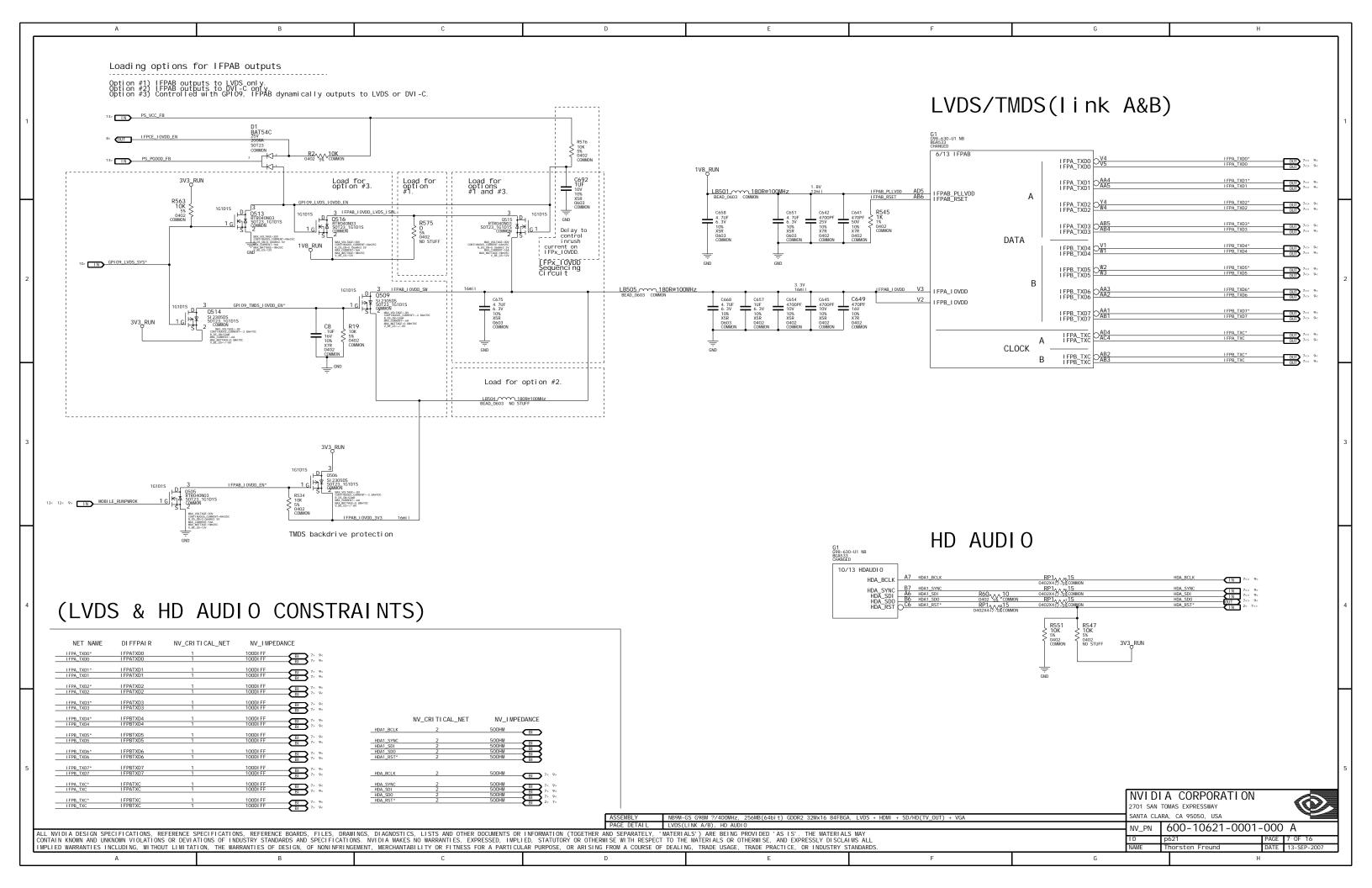


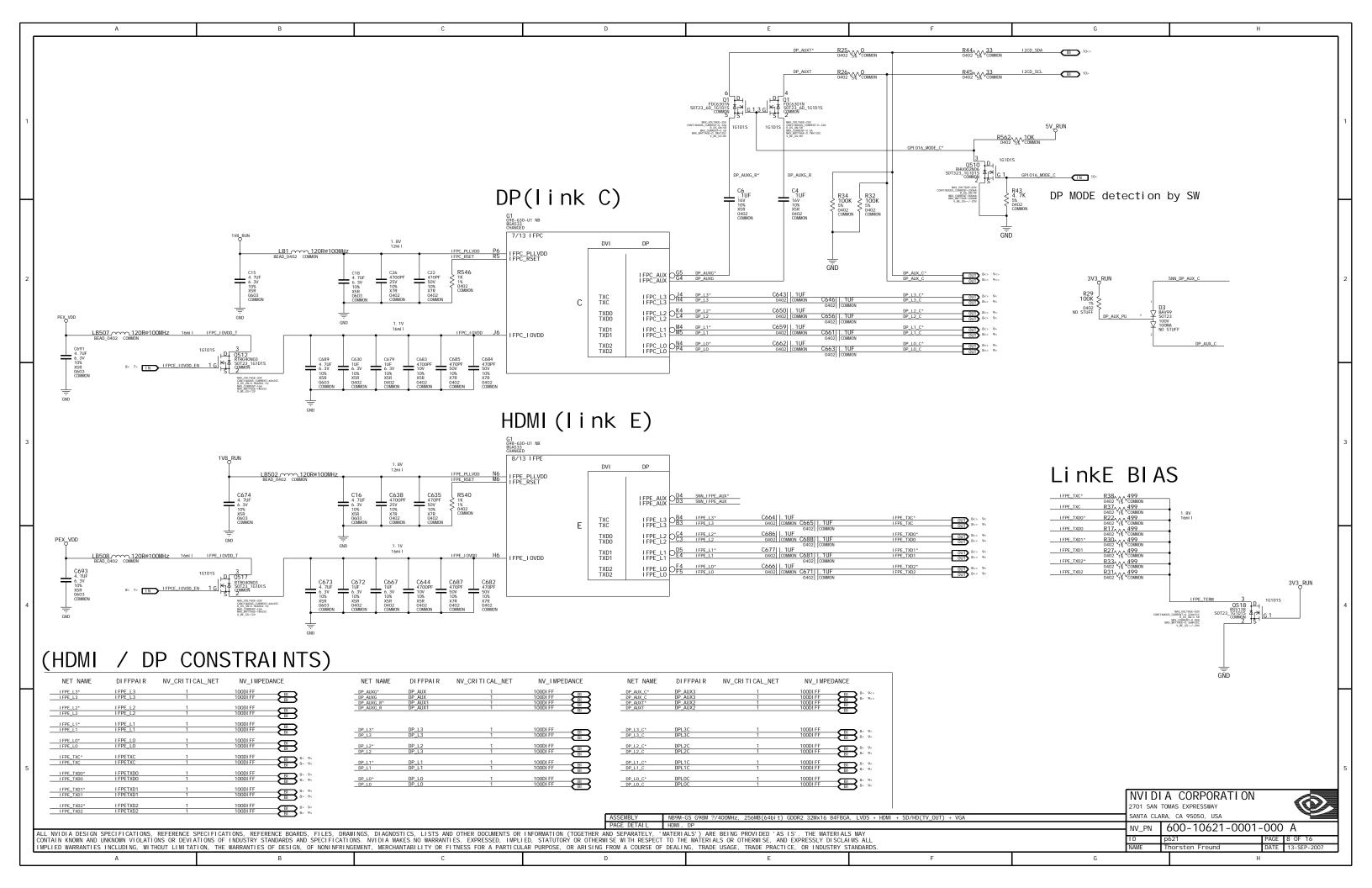


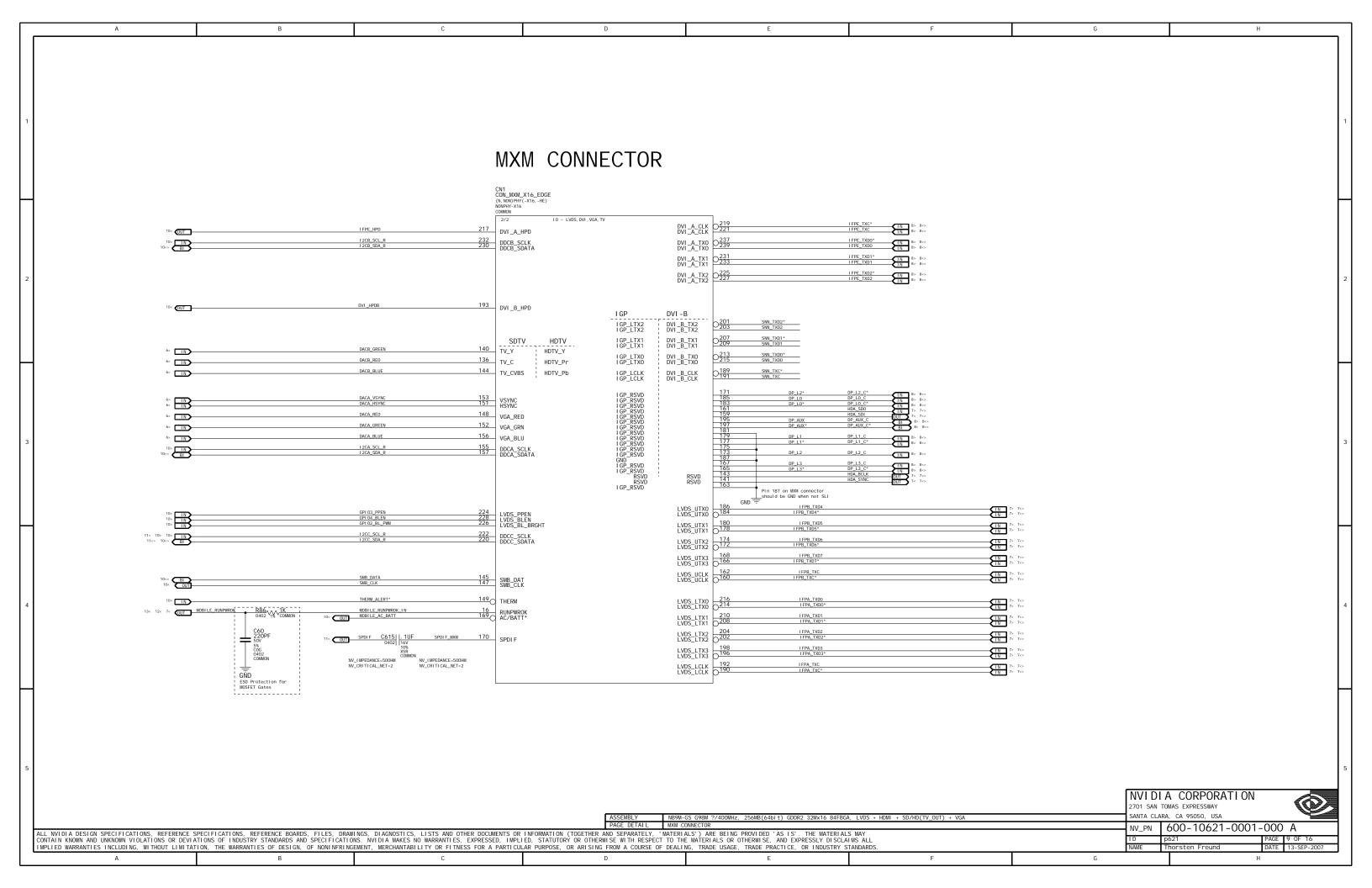


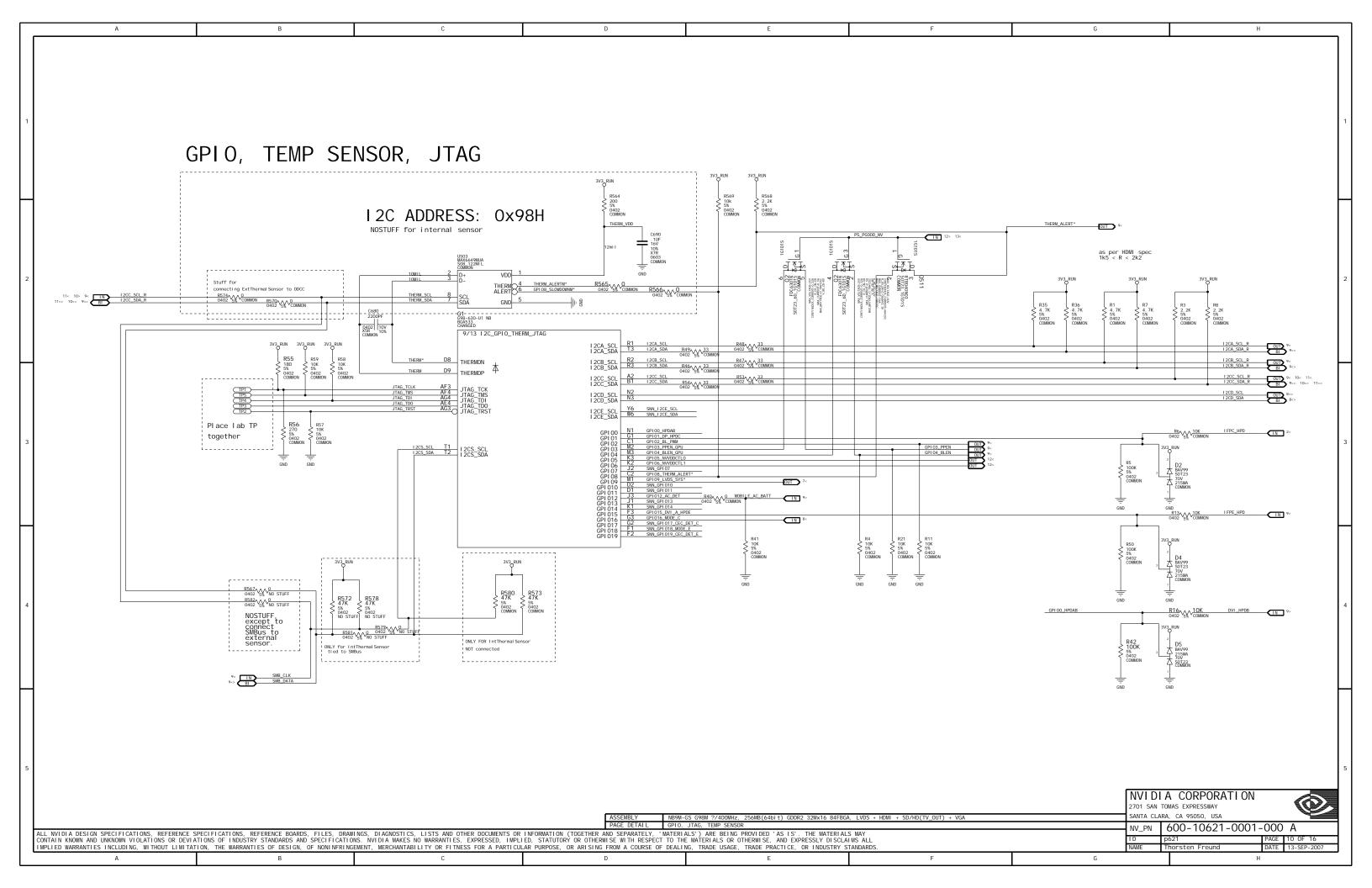


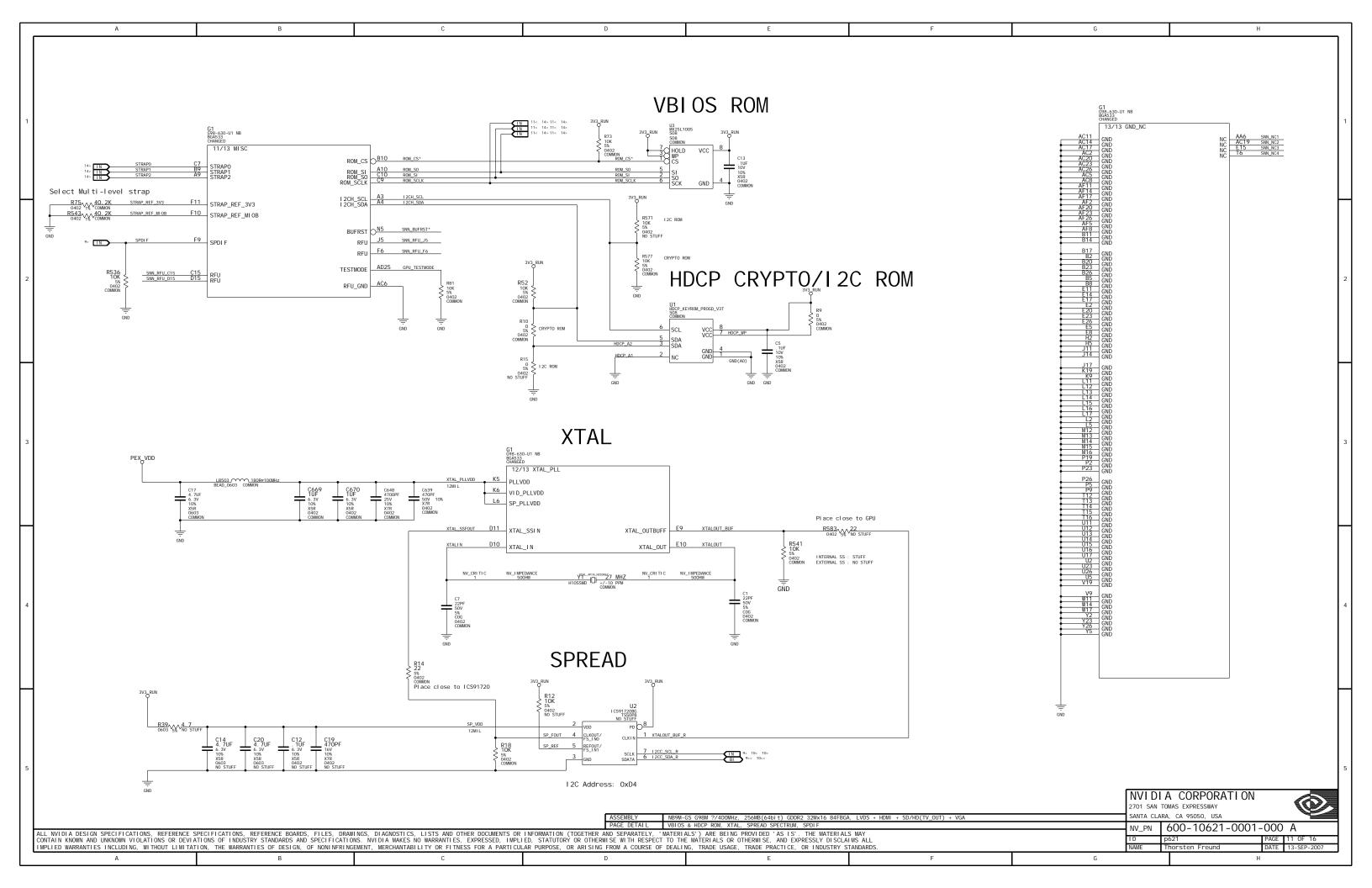


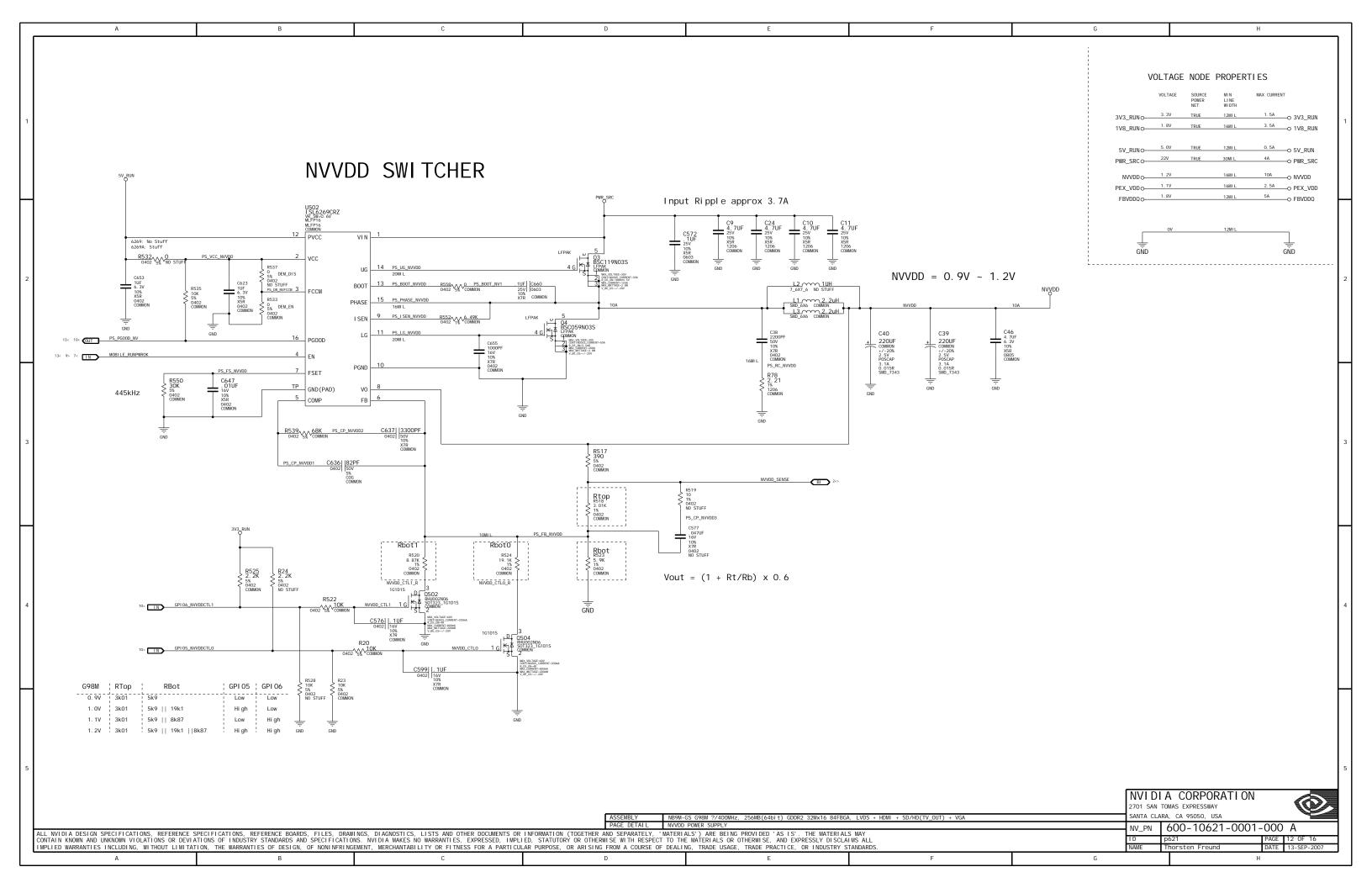


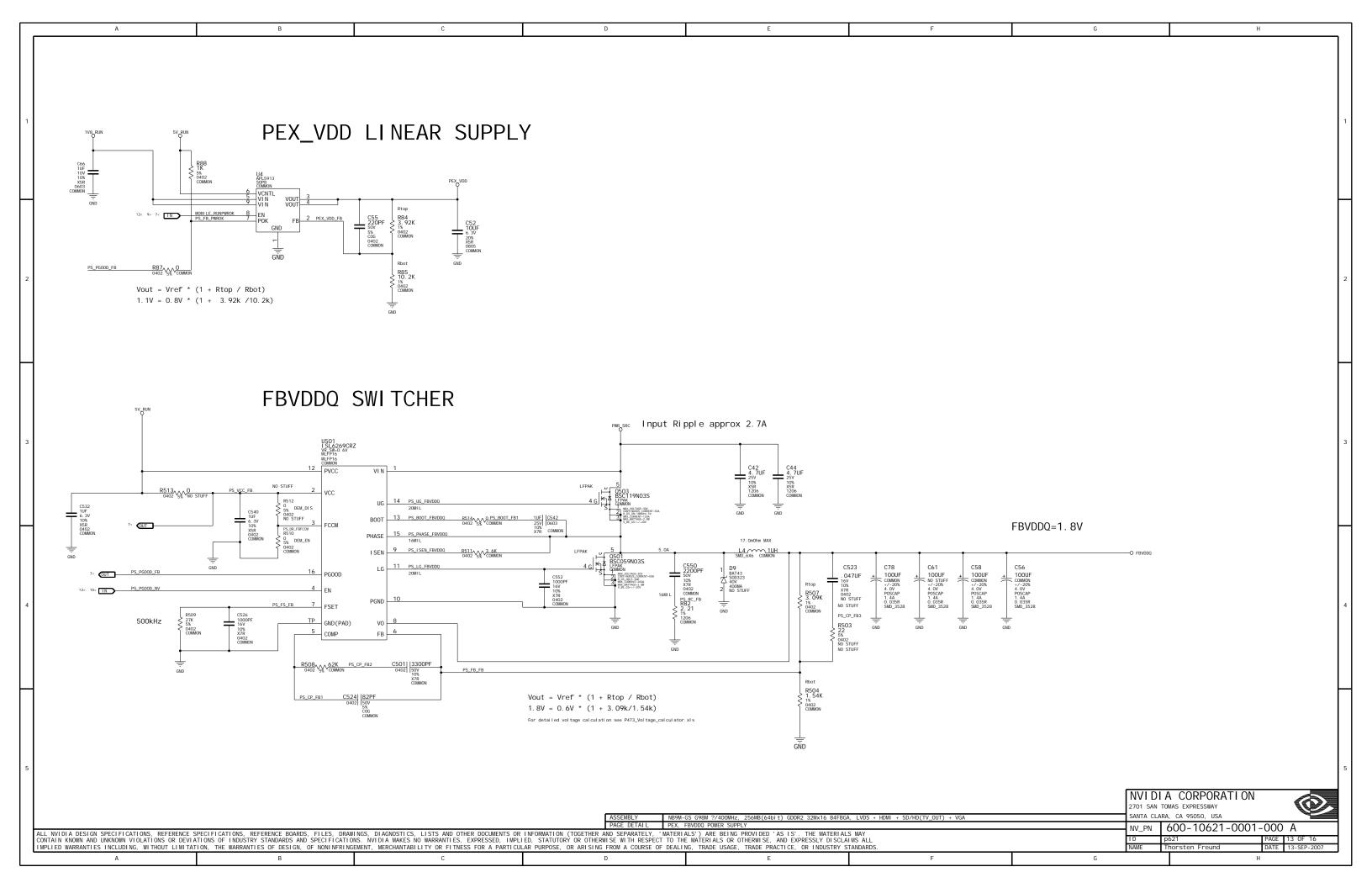


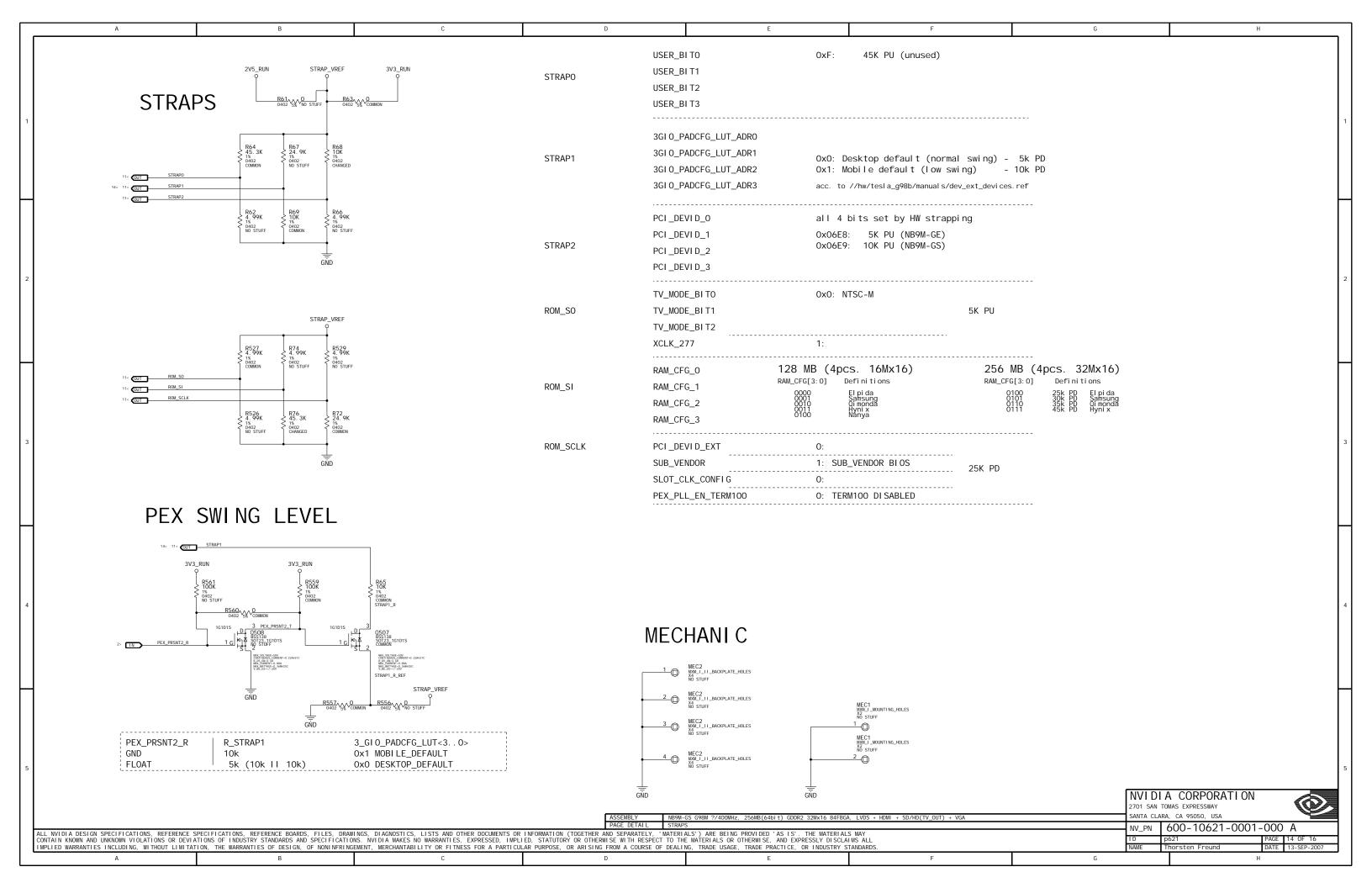












Α D G Ti tl e: Basenet Report FBA CMD<21> 3. 3E 4. 1A 4. 1E 5. 2A FBA DQS RN1 3. 4C<> 4. 4C 4. 5A< LEPB TXD4 Desi qn p621 FBA DOS RN2 3. 4C<> 4. 4D 4. 5A< LEPB TXD4* 7. 2H> 7. 5B<> 9. 3E< PEX RX15 2. 5F PS UG ERVDDO 13.3C XTALLN 11.4C . Aug 27 12: 32: 38 2007 3. 3E 4. 1A 4. 1E I FPB_TXD5 2. 5F FBA_CMD<22 FBA_DQS_RN3 PEX_TCLK PS_UG_NVVDD XTALOUT Date: 12. 2C FBA_CMD<23> 3. 3E 4. 2A 4. 2E 5. 2A FBA DOS RN4 3. 4C<> 5. 4B 5. 5A< LEPB TXD5* 7. 2H> 7. 5B<> 9. 4F< PEX TOLK 2. 5F PS_VCC_FB 7. 1A< 13. 4A> XTALOUT BUE 11.4F FBA_DQS_RN5 I FPB_TXD6 2. 5F PEX_TERM PS_VCC_NVVDD 12. 2B XTALOUT_BUF_R 3. 3E 4. 1A 4. 1E p621 lib. P621(@p621 lib. p621(sch 1)) FBA CMD<24> FBA DQS RN6 3. 4C<> 5. 4D 5. 5A< I FPB TXD6* 7. 2H> 7. 5B<> 9. 4F< PEX TXO 2. 2E ROM CS* 11. 1C 11. 1D XTAL PLLVDD 11. 3C 2. 2E FBA_CMD<25> FBA_DQS_RN7 I FPB_TXD7 PEX_TXO* ROM_SCLK XTAL_SSFOUT Location([Zone][dir]] Base Signal FBA DOS WPO 3. 3C<> 4. 4B 4. 5A< LEPB TXD7* 7. 2H> 7. 5B<> 9. 4F< PEX TXO C 2. 2C ROM SI 11. 1D< 11. 1D< 14. 3A 3. 3E 4. 2A 4. 2E 5. 2A 2. 2C DACA_BLUE FBA_CMD<27 FBA_DQS_WP1 3. 3C<> 4. 4C 4. 5A< I FPCE_I OVDD_EN 7. 1A> 8. 3A< 8. 4A< PEX_TXO_C* ROM_SO DACA GREEN 6. 1G> 6. 4G 9. 3A< 5. 2E FBA DQS WP2 3. 3C<> 4. 4D 4. 5A< LEPC HPD 2. 5A> 10. 3H< PEX TX1 2. 2E SMB CLK 9. 4A> 10. 4B< DACA_HSYNC FBA_DQS_WP3 3. 3C<> 4. 4D 4. 5A I FPC_I OVDD PEX_TX1* 2. 2E SMB_DATA 9. 4A<> 10. 4B<> 8. 2C DACA RED 6. 1G> 6. 3G 9. 3A FBA D<31...0: 4.3A<> 4.5A<> FBA DOS WP4 3. 4C<> 5. 4B 5. 5A< LEPC LOVDD T 8. 2B PEX TX1 C 2.20 SNN A13 1 4. 2B I FPC_PLLVDD DACA_RSET FBA_DQS_WP5 PEX_TX1_C* 2. 2C SNN_A13_2 8. 2C DACA VDD 6.1C FBA D<63..0> 3. 1C<> FBA DQS WP6 3. 4C<> 5. 4D 5. 5A< LFPC RSET 8. 2C PEX TX2 2. 2E SNN A13 3 5. 2A 3. 4C<> 5. 4E 5. 5A DACA_VREF 5. 3A<> 5. 5A< FBA_DQS_WP7 I FPE_HPD 9. 2A> 10. 3H< PEX_TX2* 2. 2E SNN_A13_4 5. 2E DACA VSYNO 6. 1G> 9. 3A< FBA D<1: 3.1C 4.3B FBA VREF1 4. 2C 4. 2F 4. 4A<> I FPE I OVDD 8. 4C PEX TX2 C 2. 2C SNN A14 1 4. 2B 6. 3G> 6. 4F 9. 3A FBA_VREF2 I FPE_I OVDD_T PEX_TX2_C* 2. 2C DACB_BLUE FBA_D<2> SNN_A14_2 DACE GREEN 6.3G> 6.4F 9.2A FBA D<3> 3.1C 4.3B FR CAL PD VDDO 3. 1A<> 3. 4F LEPE LO 8.4F 8.5B<> PEX TX3 2. 2F SNN A14 3 5. 2A FB_CAL_PU_GND 2. 2E DACB_RED FBA_D<4 I FPE_LO* PEX_TX3* SNN_A14_4 DACB RSET 6. 2C FBA D<5> 3.1C 4.3B FB CAL TERM GND 3. 2A<> 3. 4E I FPE L1 8. 4E 8. 5B<> PEX TX3 C 2. 2C SNN A15 1 4. 2B DACB_VDD FBA_D<6> 3.1C 4.3B FB_PLLAVDD I FPE_L1* PEX_TX3_C* 2. 2C SNN_A15_2 DACB VRFF 6.2C FBA D<7> 3.1C 4.3B FB VRFF 3. 2A<> 3. 5C IFPF 12 8.4F 8.5B<> PFX TX4 2. 3F SNN A15 3 5. 2A DACC_VDD FBA_D<8> GND_SENSE I FPE_L2* PEX_TX4* 2. 3E SNN_A15_4 DP AUXG 8. 2E 8. 5D<> FBA D<9> 3.1C 4.3C GPI 00 HPDAB 10. 3D 10. 4G I FPE L3 8. 3E 8. 5B<> PEX TX4 C 2.3C SNN BUFRST 11. 2C DP_AUXG* FBA_D<10> GPI 01_DP_HPDC I FPE_L3* 8. 3E 8. 5B<> PEX_TX4_C* 2. 3C SNN_DACB_CSYNC DP AUXG R 8. 1E 8. 5D<> FBA D<11> 3.1C 4.3C GPI 02 BL PWM 9. 4A< 10. 3F> I FPE PLLVDD 8. 3C PEX TX5 2. 3E SNN DACC BLUE 6. 4D I FPE_RSET PEX_TX5* 2. 3E SNN_DACC_GREEN DP_AUXG_R FBA_D<12> GPI 03_PPEN DP AUXT 8.1F.8.5F<> FBA D<13: 3, 10, 4, 30 GPI 03 PPFN GPU 10. 3D LEPE TERM PEX TX5 C 2. 3C SNN DACC HSYNC 6. 4D DP_AUXT FBA_D<14> 9. 3A< 10. 3F> I FPE_TXC 8. 3G 8. 4F> 8. 5B<> PEX_TX5_C 2. 3C SNN_DACC_RED DP AUX C 8, 2F> 8, 2H 8, 5F<> FBA D<15> 3.1C 4.3C GPI 04 BLEN GPU 10. 3D 9. 2F< PEX TX6 2. 3E SNN DACC RSET 6. 4C GPI 05_NVVDDCTL0 I FPE_TXC* 8. 3F> 8. 3G 8. 5B<> PEX_TX6* 2. 3E SNN_DACC_VREF FBA_D<16: DP AUX C* 8. 2F> 8. 5F<> 9. 3F<: FBA D<17: 3.1C 4.3D GPLO6 NVVDDCTL1 10.3F> 12.4A< 9. 2F< PEX TX6 C 2.30 SNN DACC VSYNC 6. 4D DP_AUX_PU FBA_D<18> GPI 08_SLOWDOWNM* I FPE_TXD0 8. 4F> 8. 4G 8. 5B<> PEX_TX6_C* 2. 3C SNN_DP_AUX_C 8. 2E 8. 5D<> DP LO FBA D<19> 3.1C 4.3D GPI 08 THERM ALERT* 10.3D 9. 2F< PEX TX7 2. 3E SNN FBA CMD7 3. 2E I FPE_TXD0* 8. 3G 8. 4F> 8. 5B< 8. 2E 8. 5D<> FBA_D<20> GPI 09_LVDS_I 0VDD_E 7. 2B PEX_TX7* 2. 3E SNN_FBA_CMND26 DP_LO* DP_LO_C 8. 2F> 8. 5F<> 9. 3F< FBA_D<21> 3. 2C 4. 3D 9. 2F< PEX_TX7_C 2. 3C SNN_FBA_CMND28 3. 3E DP_LO_C* 8. 2F> 8. 5F<> 9. 3F FBA_D<22> 3. 2C 4. 3D GPI 09_LVDS_SYS* 7. 2A< 10. 3E> I FPE_TXD1 8. 4F> 8. 4G 8. 5B<> PEX_TX7_C* 2. 3C SNN_FBA_NC1 DP I 1 8. 2F 8. 5D<> FBA D<23: 3. 2C 4. 3D GPI 09_TMDS_I 0VDD_E 7. 2B PFX TX8 2. 3F SNN FBA NC2 4. 2A FBA_D<24> I FPE_TXD1* 8. 4F> 8. 4G 8. 5B<> PEX_TX8* 2. 3E SNN_FBA_NC3 DP L1 C 8. 2F> 8. 5F<> 9. 3F FBA D<25> 3. 2C 4. 3D GPI 012 AC DET 9. 2F< PEX TX8 C 2.3C SNN FBA NC4 4. 2E GPI 015_DVI _A_HPDE 10. 3D I FPE_TXD2 8. 4F> 8. 4G 8. 5B<> PEX_TX8_C* DP_L1_C 8. 2F> 8. 5F<> 9. 3F SNN_FBA_NC5 DP 12 8. 2F 8. 5D<> FBA D<27: 3, 2C, 4, 3D GPI 016 MODE C 8. 1G< 10. 3F< 9. 2F< PFX TX9 2.4F SNN FBA NC6 5. 2A I FPE_TXD2* 8. 4F> 8. 4G 8. 5B< 8. 2E 8. 5D<> FBA_D<28> 3. 2C 4. 3D GPI 016_MODE_C PEX_TX9* 2. 4E SNN_FBA_NC7 DP_L2 5. 2E DP L2 C 8. 2F> 8. 5F<> 9. 3F< FBA D<29> 3. 2C 4. 3D GPU TESTMODE 11. 2C 9. 2F< PEX TX9 C 2.4C SNN FBA NC8 5. 2E FBA_D<30> HDA1_BCLK JTAG_TCLK PEX_TX9_C* SNN_FBA_RFU_1 DP_L2_C DP_L3 8. 2E 8. 5D<> FBA_D<31> 3.2C 4.3D HDA1_RST* 7.4F 7.5D<> JTAG_TDI 10. 3C PEX_TX10 2. 4E SNN_FBA_RFU_2 3. 3E JTAG_TD0 3. 2C 5. 3B HDA1_SDI PEX_TX10 SNN_GPI 07 DP L3 C 8. 2F> 8. 5F<> 9. 3F< FBA D<63..32 3. 1C<> HDA1 SD0 7. 4F 7. 5D<> JTAG TMS 10.3C PEX TX10 C 2.4C SNN GPI 010 10. 3D 5. 3A<> 5. 5A< JTAG_TRST PEX_TX10_C* DP_L3_C* 8. 2F> 8. 5F<> 9. 3F< HDA1_SYNO 7.4F 7.5D<> SNN_GPI 011 DVI HPDB 9. 2A> 10. 4H< FBA D<33> 3, 2C 5, 3B HDA BCLK 7. 4H< 7. 5D<> 9. 3F> MOBILE AC BATT 9. 4B> 10. 3E< PEX TX11 2. 4E SNN GPI 013 10. 3D 3. 3E> 4. 2A 4. 2E 4. 3G< HDA_RST* 2. 4A> 7. 4H< 7. 5D< PEX_TX11* SNN_GPI 014 FBA_D<34> MOBI LE_RUNPWROM 4.5A< FBA D<35> 3, 2C, 5, 3B HDA SDI 7. 4H< 7. 5D<> 9. 3E> 13. 2A< PEX TX11 C 2.4C SNN GPI 017 CFC DFT 10 3D FBA_CLKO* 3. 3E> 4. 2A 4. 2E 4. 3G< HDA_SDO MOBI LE_RUNPWROK_ PEX_TX11_C SNN GPI 018 MODE E 10.4D 4. 5A< FBA D<37> 3. 2C 5. 3B HDA SYNC 7. 4H< 7. 5D<> 9. 3F> NVVDD 12. 2F PEX TX12 2. 4E FBA_D<38> 3. 2C 5. 3E HDCP_A2 NVVDD_CTLO PEX_TX12* 2. 4E SNN_GPI 019_CEC_DET 10. 4D FBA_CLK1 3. 3E> 5. 2A 5. 2E 5. 4G< FBA_D<39> 3. 2C 5. 3B HDCP_WP 11. 2E NVVDD_CTLO_R 12.4C PEX_TX12_C 2. 4C PEX_TX12_C FBA_D<40> I 2CA_SCL NVVDD_CTL1 SNN_I 2CE_SCL 3. 3E> 5. 2A 5. 2E 5. 4G< FBA CLK1* FBA D<41> 3. 2C 5. 3C 12CA SCL R 9. 3A< 10. 2H> NVVDD CTL1 R 12.4C PEX TX13 2. 4E SNN I 2CE SDA 10. 3D I 2CA_SDA NVVDD_SENSE SNN_I FPE_AUX FBA_D<42 3. 2C 5. 3C PEX_TX13* FBA CLK1 TERM 5.3G FBA D<43> 3. 2C 5. 3C 12CA SDA R 9. 3A<> 10. 2H<> PEX PLLVDD 2. 4F PEX TX13 C 2.4C SNN I FPE AUX 8. 3E 3. 2E 4. 1A 4. 1E PEX_PRSNT2 PEX_TX13_C FBA_CMD<0: I 2CB_SCL SNN_NC1 9. 2A< 10. 3H> FBA_CMD<27...0> 3. 2F> 4. 1A< 4. 5A< FBA D<45> 3, 20, 5, 30 L2CB_SCL_R PEX PRSNT2 R 2.5D> 14.4A< PFX TX14 2. 5F SNN NC2 11. 1H FBA_D<46> I 2CB_SDA PEX_PRSNT2_ PEX_TX14* 11. 1H SNN_NC3 9. 2A<> 10. 3H<> FBA CMD<1: 3. 2E 4. 1A 4. 1E 5. 1/ FBA D<47> 3. 2C 5. 3C 12CB SDA R PEX REFCLK 2. 2E PEX TX14 C 2.5C SNN NC4 11. 1H FBA_D<48> 3. 2C 5. 3D I 2CC_SCL PEX_REFCLK* PEX_TX14_C* SNN_RFU_AE9 3. 2E 4. 1A 4. 1E 9. 4A< 10. 2A< 10. 3H FBA_CMD<2> FBA_D<49> 3. 2C 5. 3D I 2CC_SCL_R PEX_RST 2. 2D PEX_TX15 2. 5E SNN_RFU_AG9 2. 5F FBA_CMD<3> 3. 2E 4. 1A 4. 1E 5. 1A FBA_D<50> 3. 2C 5. 3D PEX_RX0 2. 2E PEX_TX15* 2. 5E SNN_RFU_C15 11. 2A 12CC SDA FBA D<51> 3.3C 5.3D 10. 3D PEX RXO* 2. 2E PEX TX15 C 2.5C SNN RFU D15 11. 2A 9. 4A<> 10. 2A<> FBA_CMD<4> 3. 2E 5. 1A 5. 1E PEX_RX1 PEX_TX15_C* FBA_D<52> I 2CC_SDA_R SNN_RFU_F6 FBA_CMD<5> 3. 2E 5. 1A 5. 1E FBA_D<53> 3.3C 5.3D 10. 3H<> 11. 5E<> PEX_RX1* 2. 2E PEX_VDD_FB 13. 2B SNN_RFU_J5 11. 2C FBA_CMD<6 FBA_D<54> I 2CD_SCL PEX_RX2 PS_BOOT_FB1 SNN_TXC FBA CMD<8> 3. 2F 4. 1A 4. 1F 5. 1A FBA D<55> 3, 3C, 5, 3D L2CD SDA 8. 1G<> 10. 3H<> PFX RX2* 2. 2F PS BOOT FBVDDO 13.30 SNN TXC* 9. 3F FBA_D<56> I 2CH_SCL PEX_RX3 PS_BOOT_NV1 SNN_TXD0 3. 2E 4. 1A 4. 1E 5. 1A FBA CMD<9> FBA D<57> 3.3C 5.3E I 2CH SDA 11. 2C PEX RX3* 2. 3E PS BOOT NVVDD 12. 2C SNN TXDO* 9. 2E FBA_D<58> I 2CS_SCL PEX_RX4 PS_CP_FB1 SNN_TXD1 FBA_CMD<10> 3. 2E 4. 2A 4. 2E 5. 2A FBA_D<59> 3. 3C 5. 3E I 2CS_SDA 10.3C PEX_RX4* 2. 3E PS_CP_FB2 13. 4B SNN_TXD1* 9. 2E I FPAB_I OVDD FBA_D<60> PEX_RX5 PS_CP_FB3 3. 2E 3. 2F 4. 2A 4. 2E FBA CMD<11> FBA D<61> 3.3C 5.3E LEPAB LOVDD 3V3 7. 3B PEX RX5* 2. 3E PS CP NVVDD1 12. 3B SNN TXD2* 9. 2E FBA_D<62> I FPAB_I OVDD_EN* PEX_RX6 PS_CP_NVVDD2 FBA_CMD<12> 3. 3E 3. 3F 4. 2A 4. 2I FBA_D<63> 3.3C 5.3E I FPAB_I OVDD_LVDS_I PEX_RX6* 2. 3E PS_CP_NVVDD3 12.3D SPDI F_MXM 9.4C PS_DR_FBFCCM FBA_DEBUG PEX_RX7 SP_FOUT 3. 3F 5. 1A 5. 1F 3. 3C 4. 4B FBA CMD<13> FBA_DOM<O> LEPAR LOVDD SW 7. 2C PFX RX7* 2. 3E PS DR NVECCM 12. 2B SP REF 11.5D FBA_CMD<14> FBA_DQM<3. I FPAB_PLLVDD PEX_RX8 PS_FB_FB SP_VDD 3. 3C<> LEPAB RSET PEX RX8* 2. 4E PS FB NVVDD 12. 4D STRAPO 11. 1A< 14. 1A> 7. 2H> 7. 5B<> 9. 4F< FBA_CMD<15> 3. 3E 4. 1A 4. 1E 5. 1A FBA_DQM<7..0 I FPA_TXC PEX_RX9 PS_FB_PWROK 13. 2A STRAP1 5. 3A<> 5. 5A<> I FPA_TXC* 7. 2H> 7. 5B<> 9. 4F< PEX_RX9* 2. 4E PS_FS_FB 13. 4B STRAP1_R 14.4C FBA_CMD<16> 3. 3E 4. 2A 4. 2E 5. 2A FBA DQM<1> 3. 3C 4. 4C I FPA_TXD0 7. 1H> 7. 4B<> 9. 4F PEX_RX10 2. 4E PS_FS_NVVDD 12. 3B STRAP1_R_REF 14. 4C FBA DQM<2> 3.3C 4.4D I FPA TXDO* 7. 1H> 7. 4B<> 9. 4F< PEX RX10* 2. 4E PS I SEN FBVDDQ 13.4C STRAP2 11. 1A< 14. 2A> 3. 3E 4. 2A 4. 2E 5. 2A STRAP_REF_3V3 FBA_CMD<17 FBA_DQM<3 I FPA_TXD1 PEX_RX11 PS_I SEN_NVVDD FBA_DQM<4> 3. 3C 5. 4B I FPA_TXD1* 7. 1H> 7. 4B<> 9. 4F< PEX_RX11* 2. 4E PS_LG_FBVDDQ 13.4C STRAP_REF_MI OB 11. 2A 3. 3E 4. 2A 4. 2E 5. 2A I FPA_TXD2 PS_LG_NVVDD FBA_CMD<18> FBA_DQM<7... 7. 2H> 7. 5B<> 9. 4F-PEX_RX12 THERM 5. 3A<> 5. 5A<> I FPA TXD2* 7. 2H> 7. 5B<> 9. 4F< PEX RX12* 2. 4E PS PGOOD FB 7. 1A< 13. 2A 13. 4A THERM* 10. 2C 3. 3E 4. 2A 4. 2E 5. 2A FBA_DQM<5 I FPA_TXD3 7. 2H> 7. 5B<> 9. 4F< PEX_RX13 2. 5E PS_PG00D_NV THERM_ALERT* 9. 4A< 10. 2G> FBA_CMD<19 3. 3C 5. 4C 5. 2E FBA DQM<6> 3.3C 5.4D I FPA TXD3* 7. 2H> 7. 5B<> 9. 4F< PEX RX13* 2. 5E PS PHASE FBVDDQ 13.4C THERM ALERTM* 10. 2D FBA_CMD<20> 3. 3E 4. 2A 4. 2E 5. 2A FBA_DQM<7> I FPB_TXC 7. 3H> 7. 5B<> 9. 4F< PEX_RX14 PS_PHASE_NVVDD THERM_SCL 5. 2E FBA_DQS_RNO 3. 4C<> 4. 4B 4. 5A I FPB_TXC* 7. 2H> 7. 5B<> 9. 4F< PEX_RX14* 2. 5E PS_RC_FB 13. 4D THERM_SDA 10. 2C NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA CA 95050 LISA 600-10621-0001-000 A NV_PN 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 PAGE 115 OF 16 DATE 13-SEP-2007 G

_		1 3 3		
	Н	CORPORATION AS EXPRESSWAY CA 99050 0 0621 - 0001 - 000 A	PAGE 16 OF 16	н
	G	2701 SAN TOI SANTA CLARA	ID po	I
	F	LVDS + HDMI + SD/HD(TV_OUT) + VGA	MS ALL	<u>'</u>
	Е	R550 [12, 2A] R551 [6, 3E] R554 [12, 2C] R555 [6, 3E] R558 [6, 3E] R558 [6, 3E] R559 [10, 3H] R560 [6, 1C] R561 [10, 4F] R562 [12, 2C] R563 [10, 3B] R564 [10, 3B] R565 [10, 4F] R566 [10, 4F] R566 [10, 4F] R566 [10, 4F] R566 [10, 4F] R567 [10, 2H] R577 [10, 2H] R571 [11, 2C] R572 [7, 3B] R573 [10, 2H] R578 [10, 2H] R578 [10, 2H] R578 [10, 2H] R578 [10, 2H] R579 [10, 3E] R569 [10, 4C] R579 [10, 4B] R591 [10, 4C] R590 [10, 4B] R591 [10, 4C] R593 [10, 4C] R594 [10, 4C] R595 [10, 4C] R595 [10, 4C] R596 [10, 4C] R597 [10, 4C] R597 [10, 4C] R598 [10, 4C] R599 [3, 4E] R1079 [3, 4E] R1090 [3, 4F] R1091 [4, 3G] R1091 [4,	HE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLA	
	D		D, STATUTORÝ OR OTHERWISE WITH RESPECT TO T	
	С	D7	GS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR I . NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIE ENT, MERCHANTABILITY OR FITNESS FOR A PARTICULA C	Ü
	В	[13, 30]	FIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS	
	А	Title: Cref Part C532 Report C534 Design: p621 C536 Date: Aug 27 C537 C536 Date: Aug 27 C537 C538 C544 C542 C544 C542 C544 C542 C544 C544 C545 C546 C556 C546 C556 C546 C556 C556 C566 C566 C576 C577 C57	CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIA	<u>"</u>
_				L