# P555-A00: G84M MXM V2.0

256/512MB 128-BIT GDDR2

LVDS, DVI-A, DVI-B, TV-OUT, VGA, HDMI

SLI, HDCP, MXM V2.0 TTP SUPPORT

## Table of Contents



| SKU | VARIANT | NVPN | ASSEMBLY |
|---|---|---|---|
| B | BASE | 600-10555-9998-000 | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| 1 | SKU0001 | 600-10555-0001-000 | G84M-600-650/400 256MB 128bit GDDR2 33fr.66 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA, MXM V2.0, HDCP. |
| 2 | SKU0002 | 600-10555-0002-000 | G84M-600-650/400 512MB 128bit GDDR2 33fr.66 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA, MXM V2.0, HDCP. |
| 3 | SKU0003 | 600-10555-0003-000 | G84M-700 700/400 512MB 128bit GDDR2 33fr.66 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA, MXM V2.0, HDCP. |
| 4 | <UNDEFINED> | <UNDEFINED> | <UNDEFINED> |
| 5 | <UNDEFINED> | <UNDEFINED> | <UNDEFINED> |
| 6 | <UNDEFINED> | <UNDEFINED> | <UNDEFINED> |
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| 14 | <UNDEFINED> | <UNDEFINED> | <UNDEFINED> |
| 15 | <UNDEFINED> | <UNDEFINED> | <UNDEFINED> |

P407_A01 to P555_A00 change list:

1) Change MEC1 JEDEC_TYPE from MCH_MXM2_HOLES to MECH_MXM2_HOLES_103NP_4VIAS
2) Add pull low resistor to MIOA_D[0] for straps
3) Add pull up resistor to MIOA_D[6] for straps

| | |
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| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | Cover Page |




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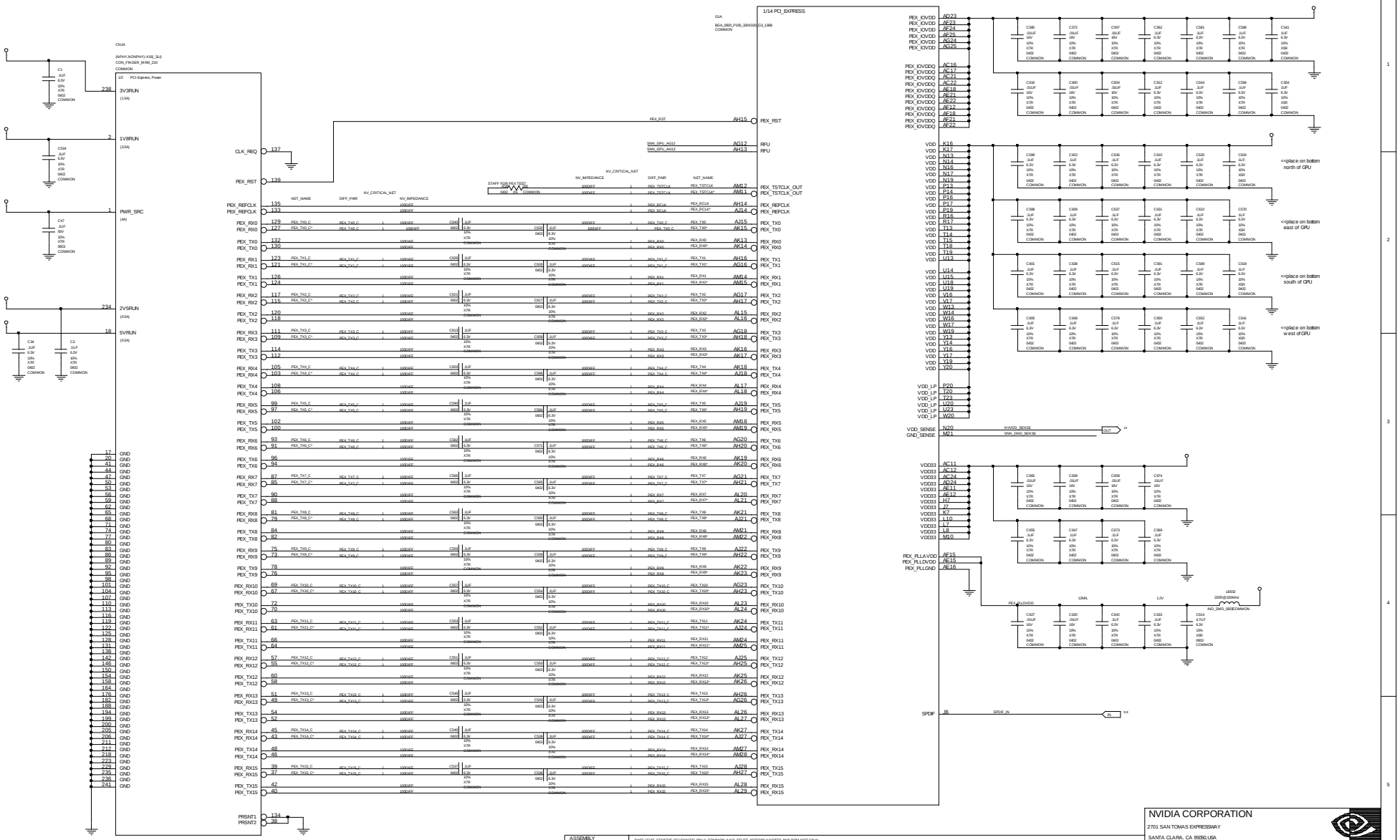
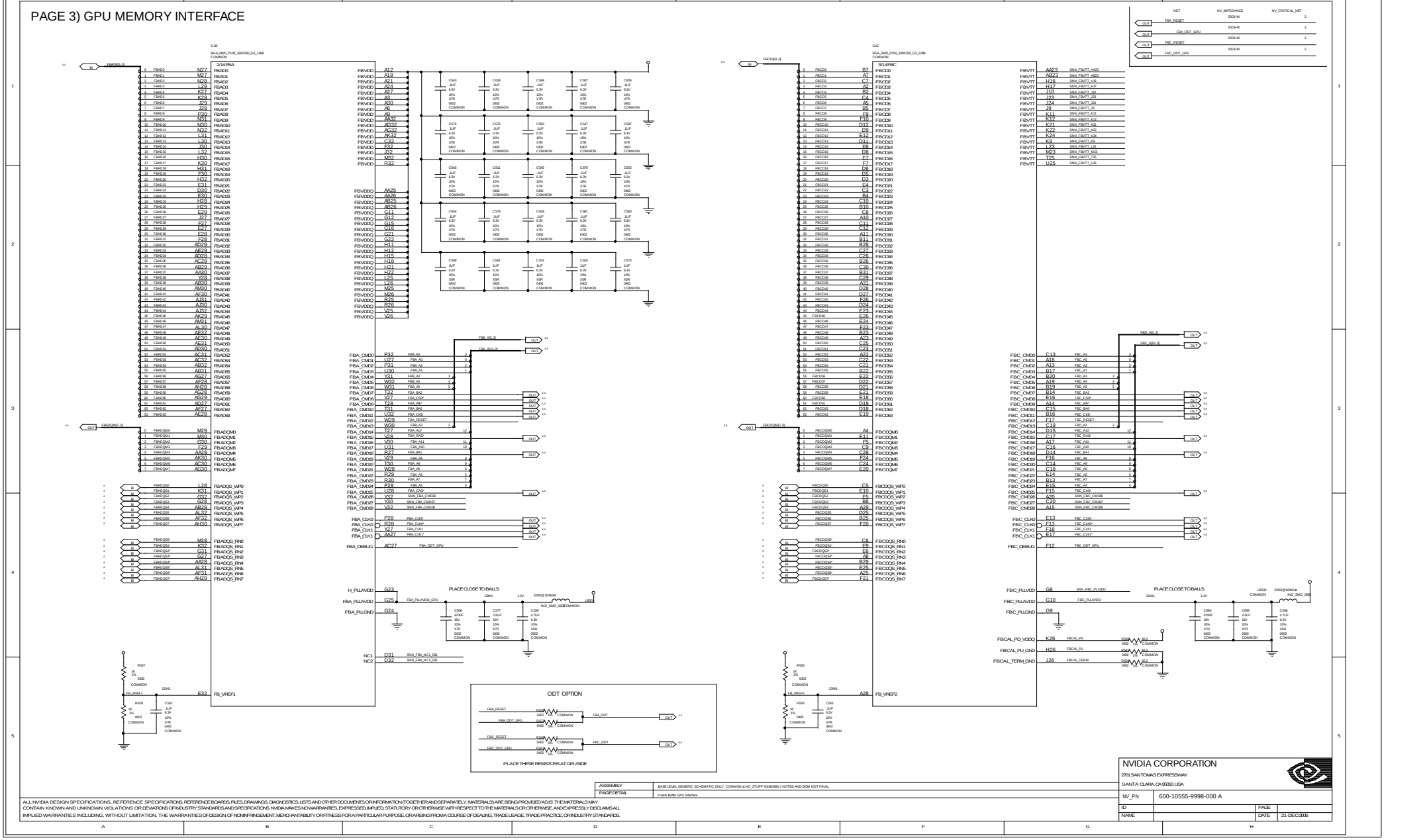
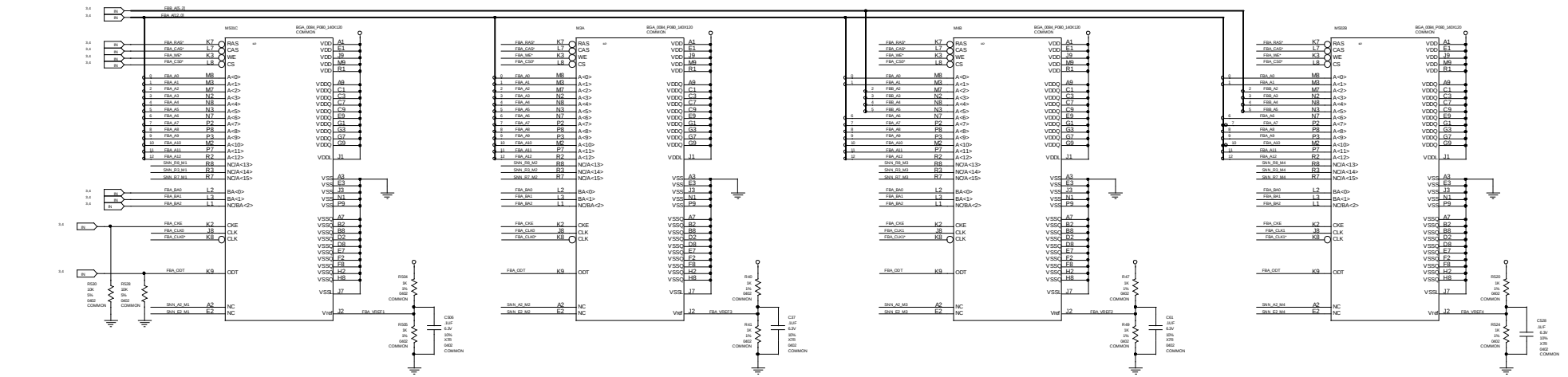
PAGE 2) MXM-II GOLDEN EDGE, PCI EXPRESS INTERFACE



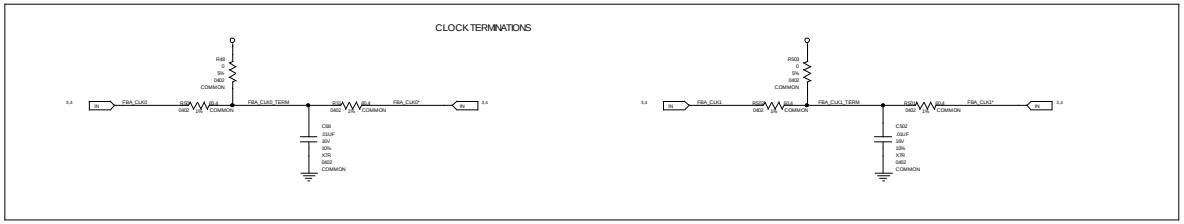
# PAGE 3) GPU MEMORY INTERFACE

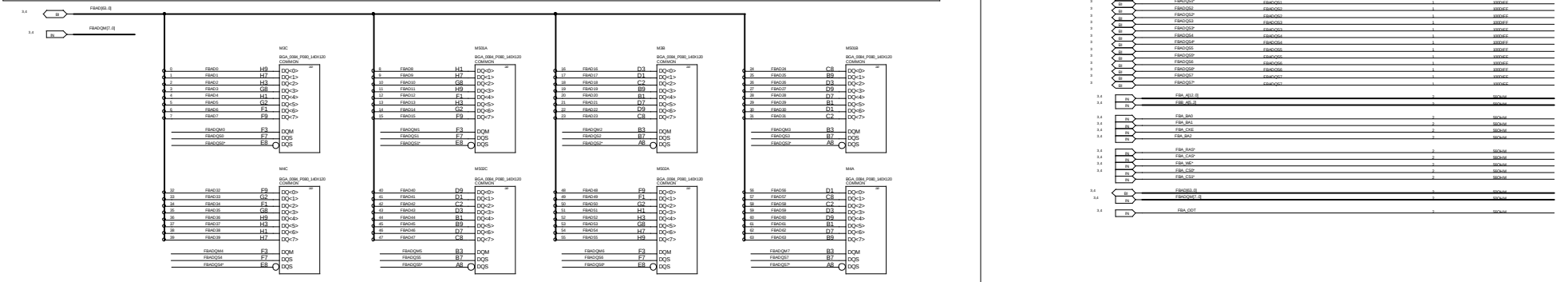


PAGE 4) MEMORY PARTITION A



CLOCK TERMINATIONS





| | |
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| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | Frame Buffer Partition A Memories |



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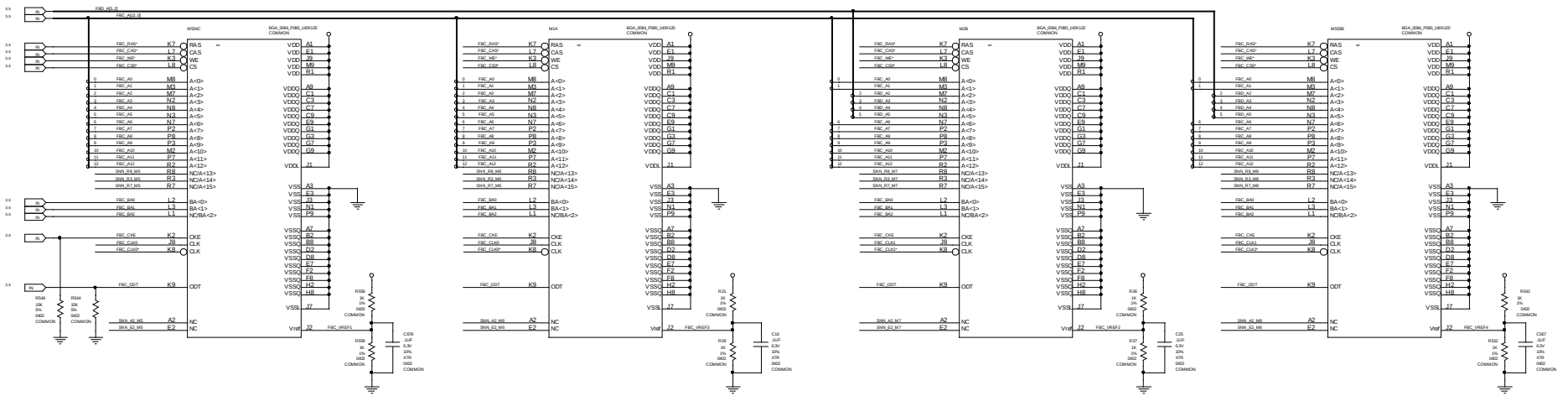
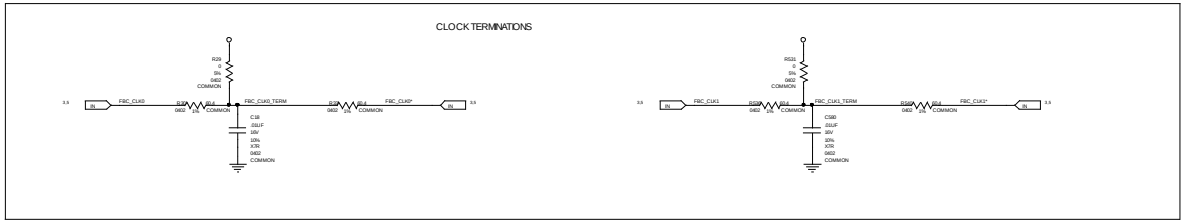
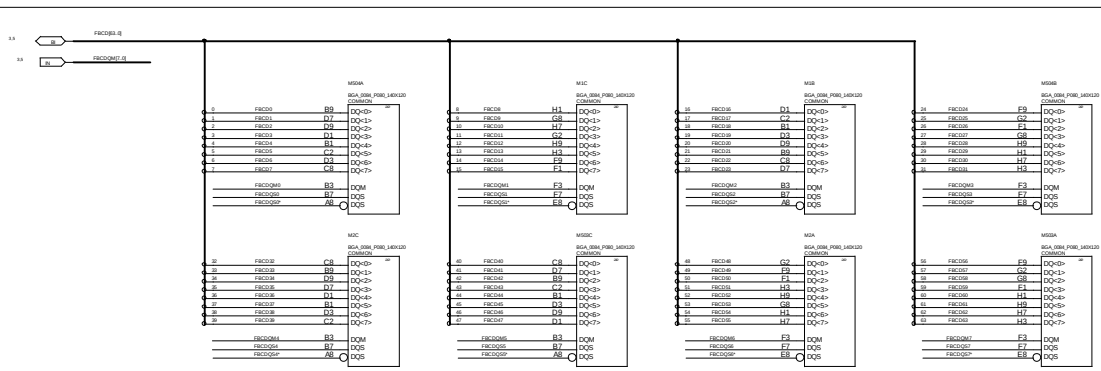
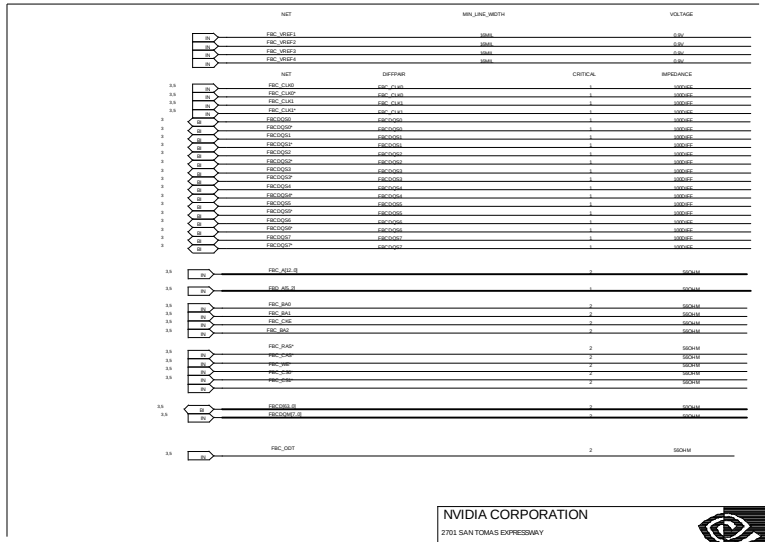
PAGE 5) MEMORY PARTITION C



CLOCK TERMINATIONS







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|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | Frame Buffer Partition C Memories |



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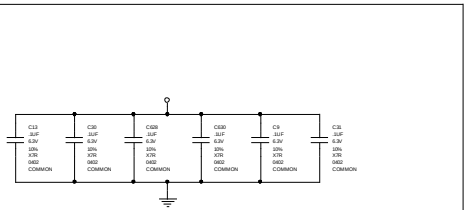
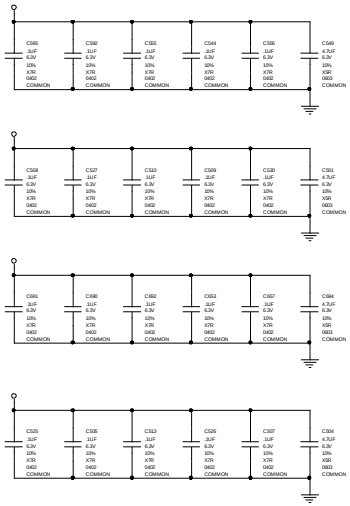
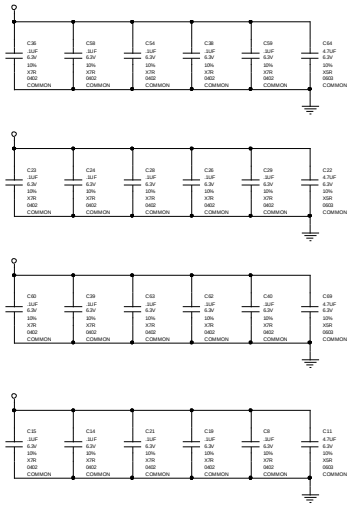
PAGE 6) MEMORY DECOUPLING CAPS

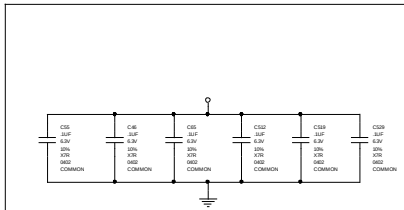
DECOUPLING CAPS FOR MEMORYS (PARTITION A AND PARTITION C)




NVVDD TRANSITION CAP NEAR BY PARTITION A




NVVDD TRANSITION CAP NEAR BY PARTITION C



| | |
|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | Memory Decoupling Caps |

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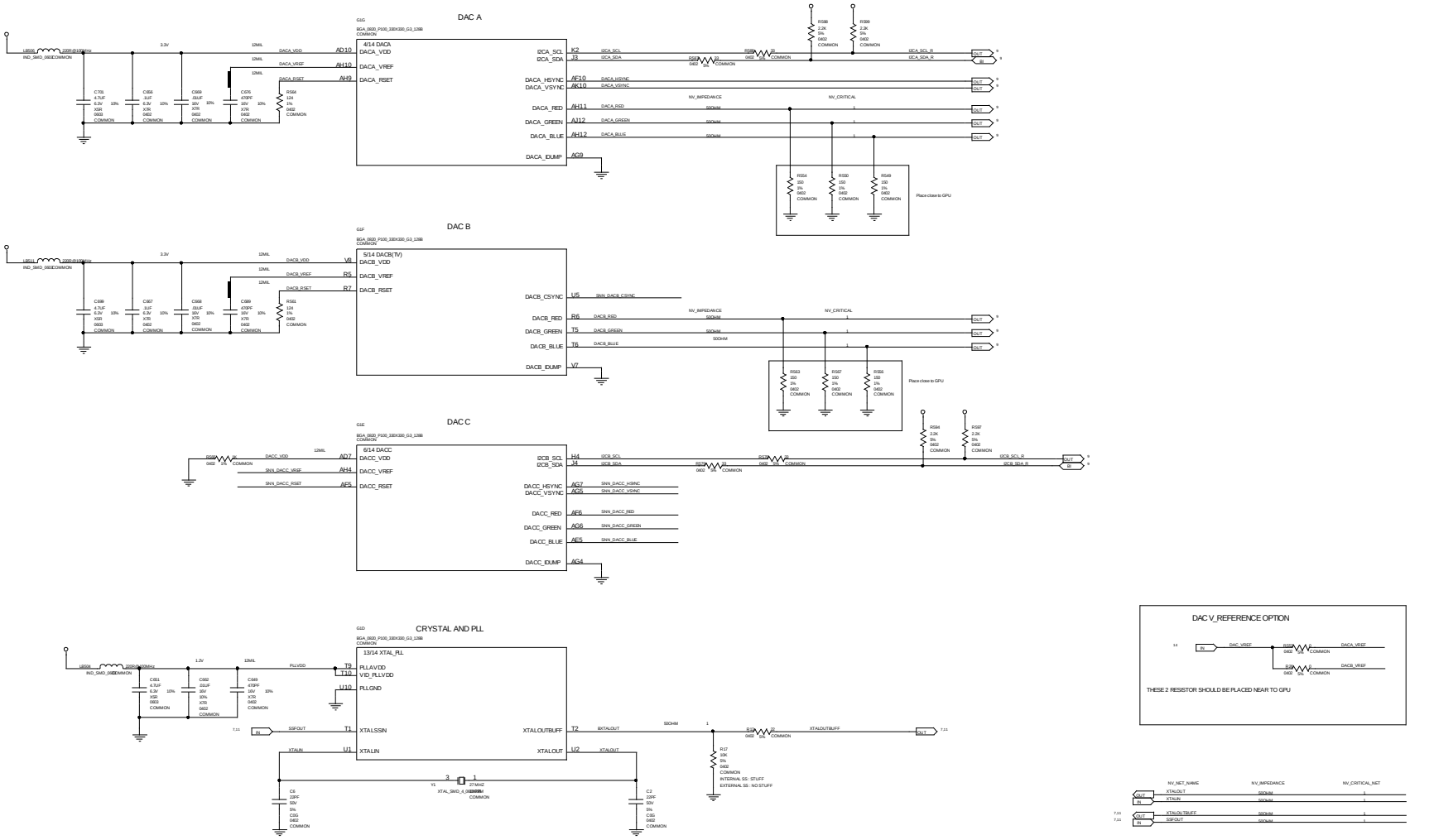
PAGE 7) DAC_A, DAC_B, DAC_C, PLL, CRYSTAL




| NV_NET_NAME | NV_IMPEDANCE | NV_CRITICAL_NET |
|---|---|---|
| XTALOUT | 50OHM | 1 |
| XTALIN | 50OHM | 1 |
| XTALOUTBUFF | 50OHM | 1 |
| SSFOUT | 50OHM | 1 |

| | |
|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL |
| PAGE DETAIL | DACs, Clock Generation |



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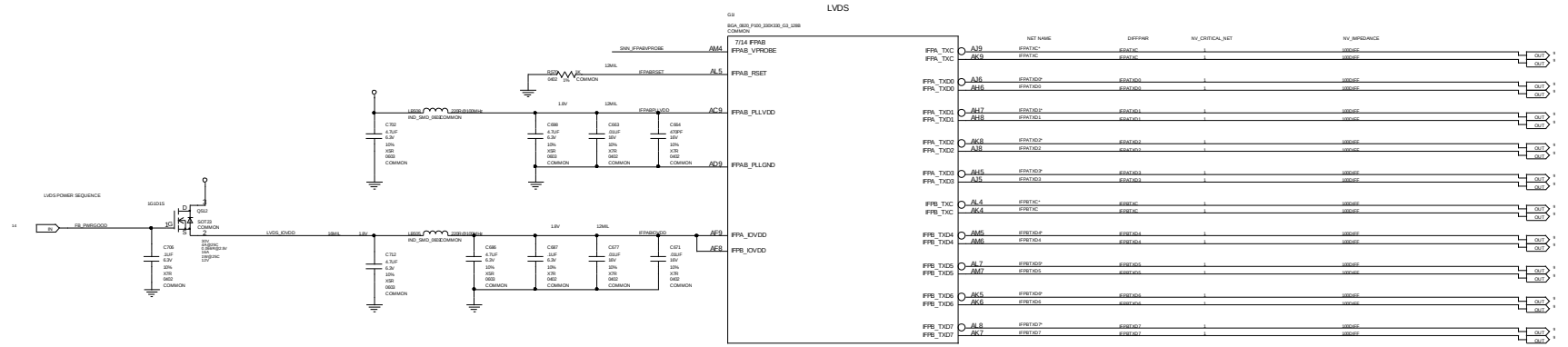
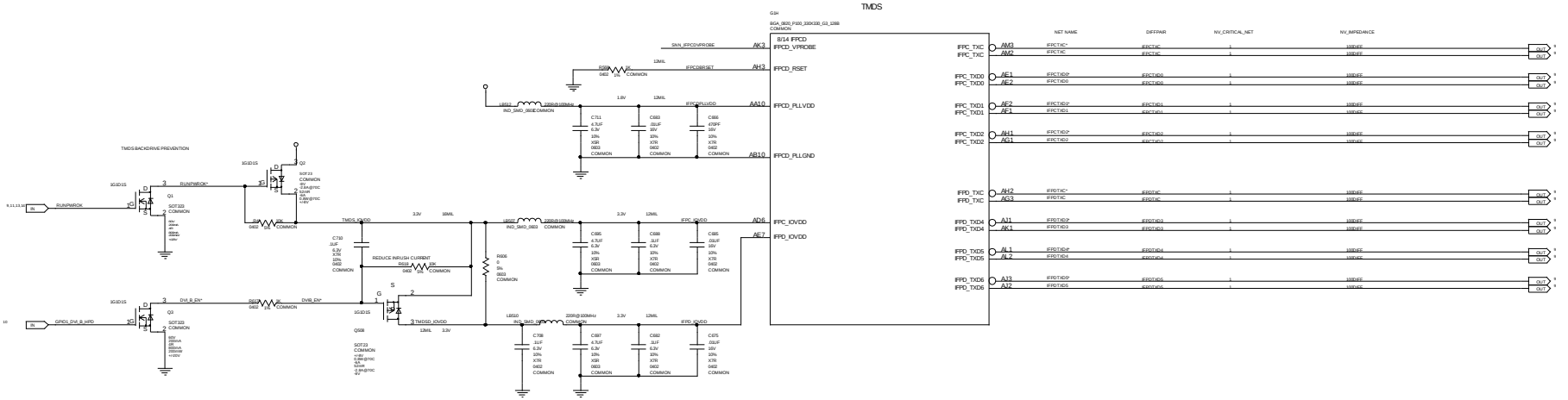
PAGE 8) LVDS(LINK A/B), TMDS(LINK C/D)

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| PAGE DETAIL | LVDS, TMDS GPU Interface |




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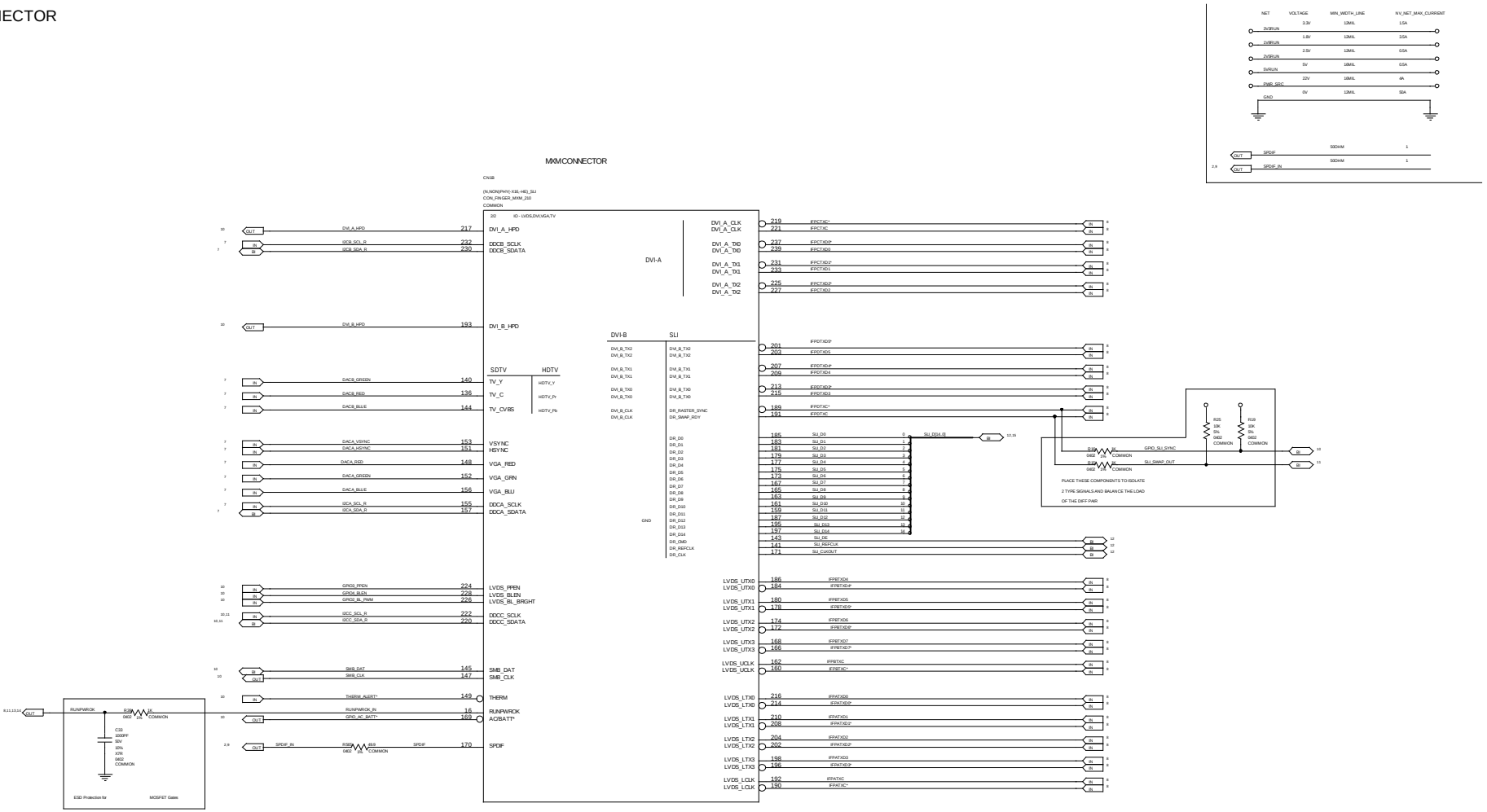
PAGE 9) MXM CONNECTOR




| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
|---|---|
| PAGE DETAIL | MXM Connector, IO Section |

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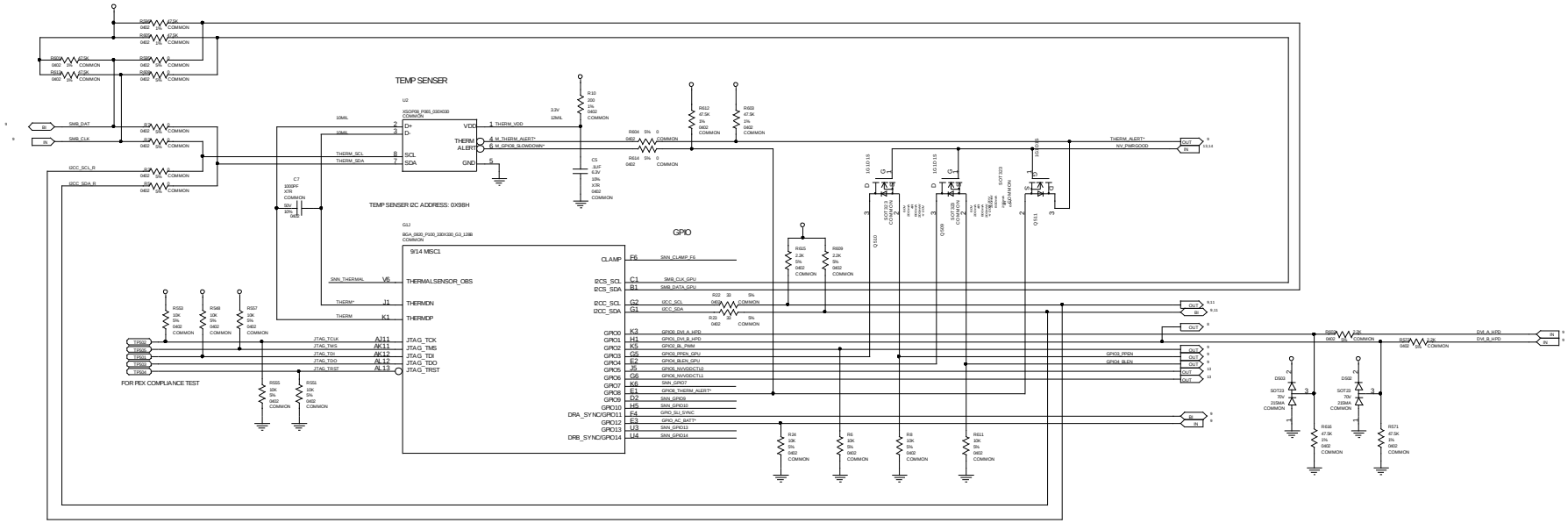
PAGE 10) GPIO, JTAG, TEMP SENSOR




| | |
|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | GPIOs, JTAG, Thermal Sensor |

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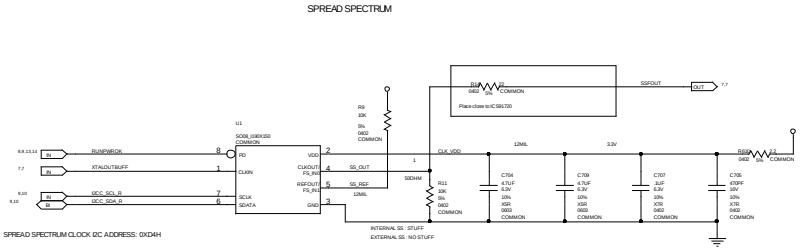
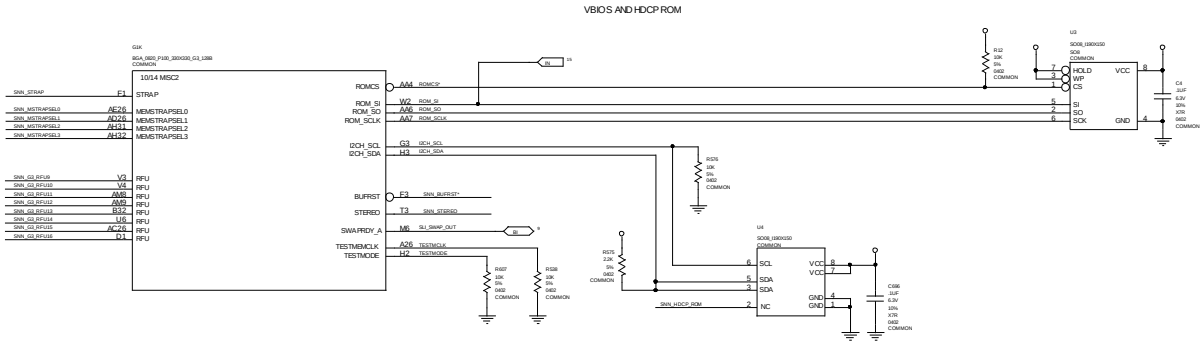
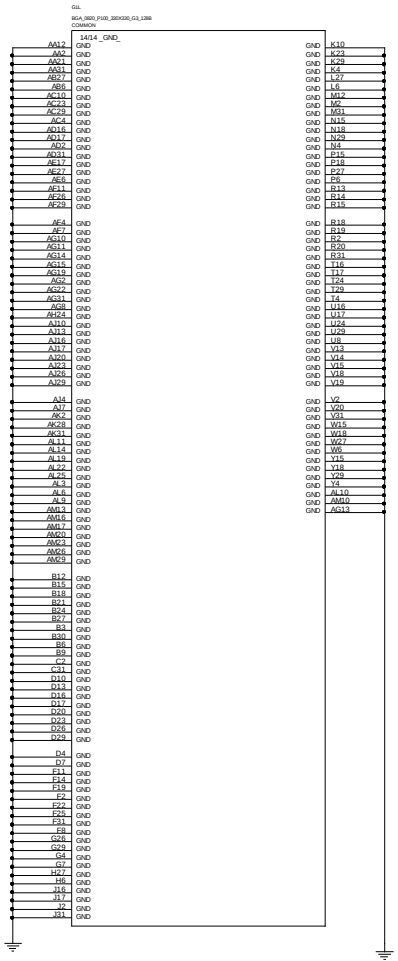
PAGE 11) SPREAD SPECTRUM, VBIOS, HDCP BIOS, GPU GND




| | |
|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | Spread Spectrum, VBIOS and HDCP ROM |



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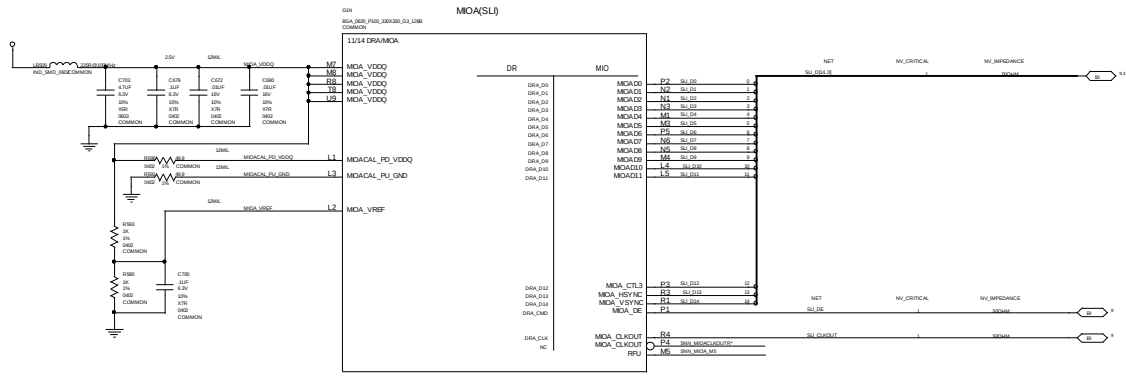
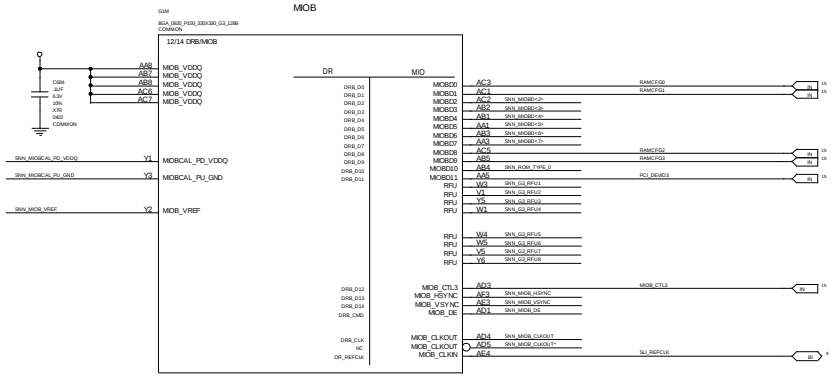
PAGE 12) MIOA(SLI), MIOB

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|---|---|
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| PAGE DETAIL | MIOA(SLI), MIOB |



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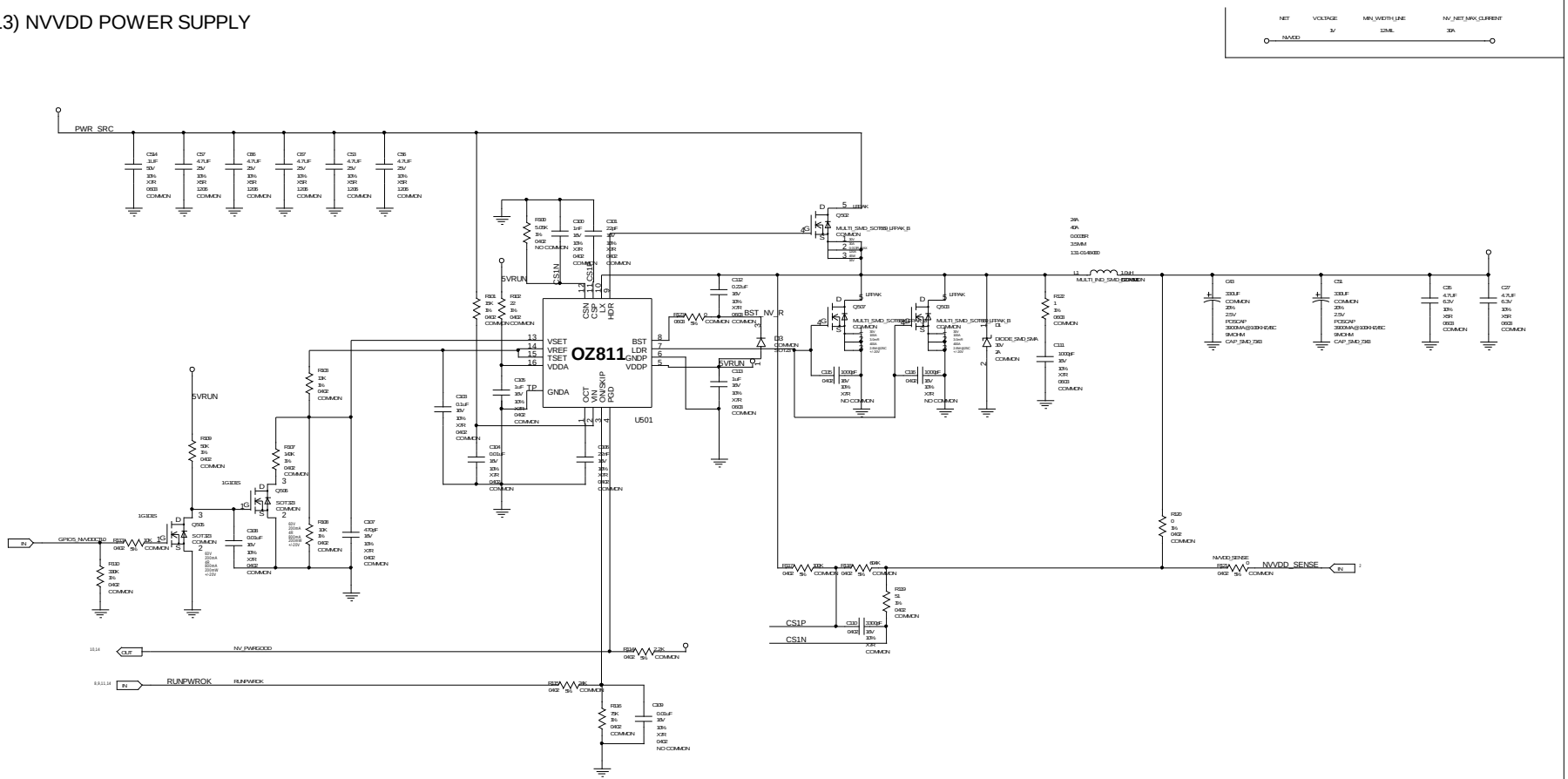
PAGE 13) NVVDD POWER SUPPLY

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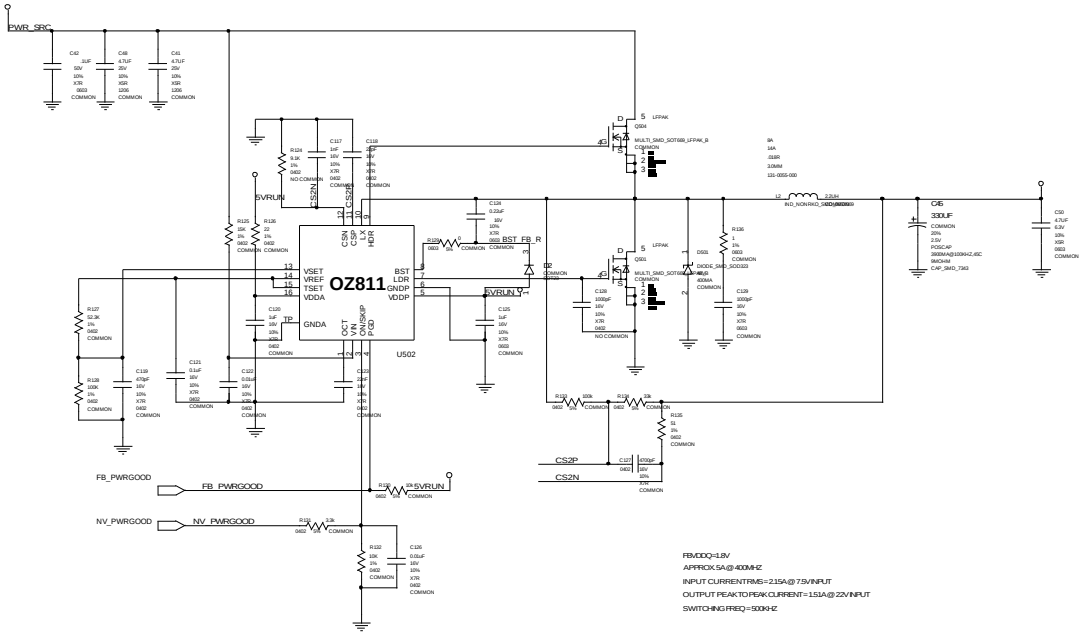
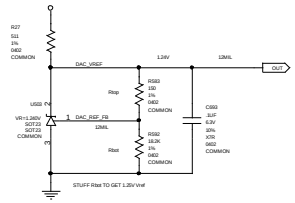
PAGE 14) FBVDDQ AND PEX1V2 POWER SUPPLY

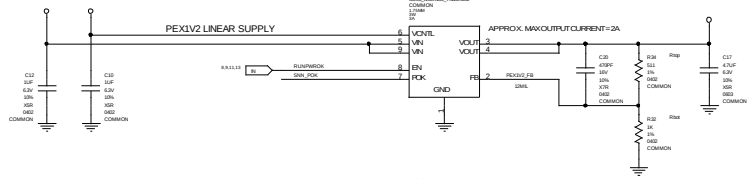



FBVDDQ SWITCHER POWER SUPPLY

FBVDDQ=1.8V
APPROX 5A@400MHZ
INPUT CURRENTRMS=2.15A@7.5VINPUT
OUTPUT PEAKTOPEAK CURRENT=1.51A@22VINPUT
SWITCHING FREQ=500KHZ

DAC V_REFERENCE SUPPLY




Vout = Vref *(1+Rtop/Rbot)
1.209V =0.8V*(1+ 511/1.02k)

| NET | VOLTAGE | MIN_WIDTH_LINE | NV_NET_MAX_CURRENT |
|---|---|---|---|
| PEX1V2 | 1.2V | 12MIL | 2A |
| FBVDDQ | 1.8V | 12MIL | 10A |

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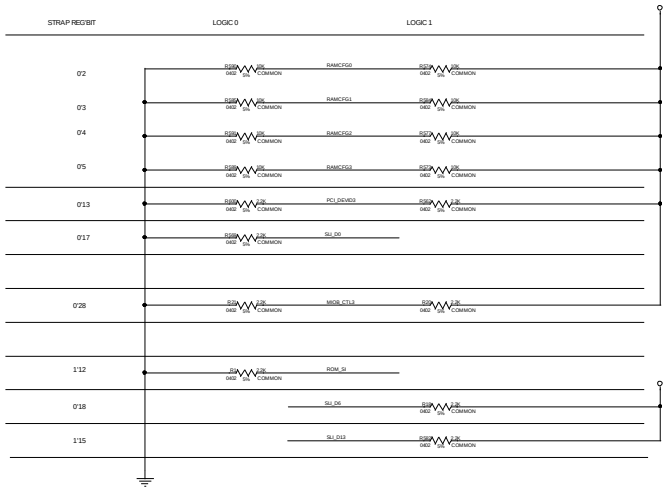
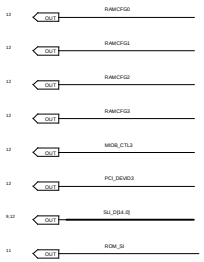
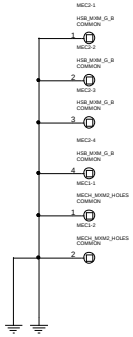
PAGE 15) STRAPS, MOUNTING HOLES




| | |
|---|---|
| RAM_CFG_0 | RAM_CFG[3:0]<br>MS_0000: 16Mx16 DDR2 128bit SDRAM, ELPDA.<br>MS_0001: 16Mx16 DDR2 128bit SDRAM, SAMSUNG, MICRON.<br>MS_0010: 16Mx16 DDR2 128bit SDRAM. INFINEON.<br>MS_0011: 16Mx16 DDR2 128bit SDRAM, HYNK.<br>MS_0100: 32Mx16 DDR2 128bit SDRAM, ELPDA.<br>MS_0101: 32Mx16 DDR2 128bit SDRAM, SAMSUNG, MICRON.<br>MS_0110: 32Mx16 DDR2 128bit SDRAM. INFINEON.<br>MS_0111: 32Mx16 DDR2 128bit SDRAM, HYNK. |
| RAM_CFG_1 | |
| RAM_CFG_2 | |
| RAM_CFG_3 | |
| PCI_DEVID_3 | MS_0: DEVICE ID = 0x0407, G84M4600.<br>MS_1: DEVICE ID = 0x0408: G84M4700<br>MS_1: DEVICE ID = 0x0428: G86M4700 |
| PEX_PLL_EN_TERM100 | |
| | |
| PCI_DEVID_EXT | |
| | |
| MIOA_EN_3.3V | |
| 3GIO_PADCFG_LUT_ADR[0] | |
| SLOT CLOCK CONFIGURATION | |




| | |
|---|---|
| ASSEMBLY | BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL. |
| PAGE DETAIL | STRAPS, TTP, MOUNTING HOLE. |



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Title: Basenet Report
Design: p555_a00
Date: Nov 30 11:00:17 2006

Base nets and synonyms for
p407_lib.P555_A00(p407_lib.p555_a00)sch
_1(I)

| Base Signal | Location([Zone][dir]) |
|---|---|
| 1VBRUN | 9.1G |
| 2VSRUN | 9.1G |
| 3VSRUN | 9.1G |
| 5VRUN | 9.1G |
| BXTALOUT | 7.4D |
| CLK_VDD | 11.2C |
| DACA_BLUE | 7.2F> 9.3B< |
| DACA_GREEN | 7.1F> 9.3B< |
| DACA_HSYNC | 7.1F> 9.3B< |
| DACA_RED | 7.1F> 9.3B< |
| DACA_RSET | 7.1C |
| DACA_VDD | 7.1C |
| DACA_VREF | 7.1C 7.4H |
| DACA_VSYNC | 7.1F> 9.3B< |
| DACB_BLUE | 7.3F> 9.3B< |
| DACB_GREEN | 7.2F> 9.3B< |
| DACB_RED | 7.2F> 9.2B< |
| DACB_RSET | 7.2C |
| DACB_VDD | 7.2C |
| DACB_VREF | 7.2C 7.4H |
| DACC_VDD | 7.3C |
| DAC_REF_FB | 14.4G |
| DAC_VREF | 7.4G< 14.4H> |
| DVIB_EN* | 8.4B |
| DVI_A_HPD | 9.2B> 10.3H< |
| DVI_B_EN* | 8.4B |
| DVI_B_HPD | 9.2B> 10.3H< |
| FBAD<0> | 3.1A 4.4B |
| FBAD<63..0> | 3.1A<> 4.4A<> 4.5F<> |
| FBAD<1> | 3.1A 4.4B |
| FBAD<2> | 3.1A 4.4B |
| FBAD<3> | 3.1A 4.4B |
| FBAD<4> | 3.1A 4.4B |
| FBAD<5> | 3.1A 4.4B |
| FBAD<6> | 3.1A 4.4B |
| FBAD<7> | 3.1A 4.4B |
| FBAD<8> | 3.1A 4.4C |
| FBAD<9> | 3.1A 4.4C |
| FBAD<10> | 3.1A 4.4C |
| FBAD<11> | 3.1A 4.4C |
| FBAD<12> | 3.1A 4.4C |
| FBAD<13> | 3.1A 4.4C |
| FBAD<14> | 3.1A 4.4D |
| FBAD<15> | 3.1A 4.4D |
| FBAD<16> | 3.1A 4.4D |
| FBAD<17> | 3.2A 4.4D |
| FBAD<18> | 3.2A 4.4D |
| FBAD<19> | 3.2A 4.4D |
| FBAD<20> | 3.2A 4.4D |
| FBAD<21> | 3.2A 4.4D |
| FBAD<22> | 3.2A 4.4D |
| FBAD<23> | 3.2A 4.4D |
| FBAD<24> | 3.2A 4.4D |
| FBAD<25> | 3.2A 4.4D |
| FBAD<26> | 3.2A 4.4D |
| FBAD<27> | 3.2A 4.4D |
| FBAD<28> | 3.2A 4.4D |
| FBAD<29> | 3.2A 4.4D |
| FBAD<30> | 3.2A 4.4D |
| FBAD<31> | 3.2A 4.4D |
| FBAD<32> | 3.2A 4.5B |
| FBAD<33> | 3.2A 4.5B |
| FBAD<34> | 3.2A 4.5B |
| FBAD<35> | 3.2A 4.5B |
| FBAD<36> | 3.2A 4.5B |
| FBAD<37> | 3.2A 4.5B |
| FBAD<38> | 3.2A 4.5B |
| FBAD<39> | 3.2A 4.5B |
| FBAD<40> | 3.2A 4.5C |
| FBAD<41> | 3.2A 4.5C |
| FBAD<42> | 3.2A 4.5C |
| FBAD<43> | 3.2A 4.5C |
| FBAD<44> | 3.2A 4.5C |
| FBAD<45> | 3.2A 4.5C |
| FBAD<46> | 3.2A 4.5C |
| FBAD<47> | 3.3A 4.5C |
| FBAD<48> | 3.3A 4.5D |
| FBAD<49> | 3.3A 4.5D |
| FBAD<50> | 3.3A 4.5D |
| FBAD<51> | 3.3A 4.5D |
| FBAD<52> | 3.3A 4.5D |
| FBAD<53> | 3.3A 4.5D |
| FBAD<54> | 3.3A 4.5D |
| FBAD<55> | 3.3A 4.5D |
| FBAD<56> | 3.3A 4.5D |
| FBAD<57> | 3.3A 4.5D |
| FBAD<58> | 3.3A 4.5D |
| FBAD<59> | 3.3A 4.5D |
| FBAD<60> | 3.3A 4.5D |
| FBAD<61> | 3.3A 4.5D |
| FBAD<62> | 3.3A 4.5D |
| FBAD<63> | 3.3A 4.5D |
| FBADQM0> | 3.3A 4.4B |
| FBADQM7..0> | 3.3A< 4.4A< 4.5F< |
| FBADQM1> | 3.3A 4.4C |
| FBADQM2> | 3.3A 4.4D |
| FBADQM3> | 3.3A 4.4D |
| FBADQM4> | 3.3A 4.5B |
| FBADQM5> | 3.3A 4.5C |
| FBADQM6> | 3.3A 4.5D |
| FBADQM7> | 3.3A 4.5D |
| FBADQS0 | 3.3A<> 4.4B 4.4F<> |
| FBADQS0* | 3.4A<> 4.4B 4.4F<> |
| FBADQS1 | 3.4A<> 4.4C 4.4F<> |
| FBADQS1* | 3.4A<> 4.4C 4.4F<> |
| FBADQS2 | 3.4A<> 4.4D 4.4F<> |
| FBADQS2* | 3.4A<> 4.4D 4.4F<> |
| FBADQS3 | 3.4A<> 4.4D 4.4F<> |
| FBADQS3* | 3.4A<> 4.4D 4.4F<> |
| FBADQS4 | 3.4A<> 4.4F<> 4.5B |
| FBADQS4* | 3.4A<> 4.4F<> 4.5B |
| FBADQS5 | 3.4A<> 4.4F<> 4.5C |
| FBADQS5* | 3.4A<> 4.4F<> 4.5C |
| FBADQS6 | 3.4A<> 4.4F<> 4.5D |
| FBADQS6* | 3.4A<> 4.4F<> 4.5D |
| FBADQS7 | 3.4A<> 4.4F<> 4.5D |
| FBADQS7* | 3.4A<> 4.4F<> 4.5D |
| FBA_A<0> | 3.3C 4.1A 4.1C 4.1E 4.1G |
| FBA_A<12..0> | 3.3D< 4.1A< 4.4F< |
| FBA_A<1> | 3.3C 4.1A 4.1C 4.1E 4.1G |
| FBA_A<2> | 3.3C 4.1A 4.1C |
| FBA_A<3> | 3.3C 4.1A 4.1C |
| FBA_A<4> | 3.3C 4.1A 4.1C |
| FBA_A<5> | 3.3C 4.1A 4.1C |
| FBA_A<6> | 3.3C 4.1A 4.1C 4.1E 4.1G |
| FBA_A<7> | 3.3C 4.1A 4.1C 4.1E 4.1G |
| FBA_A<8> | 3.3C 4.1A 4.1C 4.1E 4.1G |
| FBA_A<9> | 3.3C 4.2A 4.2C 4.2E 4.2G |
| FBA_A<10> | 3.3C 4.2A 4.2C 4.2E 4.2G |
| FBA_A<11> | 3.3C 4.2A 4.2C 4.2E 4.2G |
| FBA_A<12> | 3.3C 4.2A 4.2C 4.2E 4.2G |
| FBA_BA0 | 3.3D< 4.2A< 4.2C 4.2E 4.2G 4.4F< |
| FBA_BA1 | 3.3D< 4.2A< 4.2C 4.2E 4.2G 4.4F< |
| FBA_BA2 | 3.3D< 4.2A< 4.2C 4.2E 4.2G 4.4F< |
| FBA_CAS* | 3.4D< 4.1A< 4.1C 4.1E 4.1G 4.5F< |
| FBA_CKE | 3.3D< 4.2A< 4.2C 4.2E 4.2G 4.4F< |
| FBA_CLK0 | 3.4D< 4.2A 4.2C 4.3A< 4.4F< |
| FBA_CLK0* | 3.4D< 4.2A 4.2C 4.3C< 4.4F< |
| FBA_CLK0_TERM | 4.3B |
| FBA_CLK1 | 3.4D< 4.2E 4.2G 4.3C< 4.4F< |
| FBA_CLK1* | 3.4D< 4.2E 4.2G 4.3E< 4.4F< |
| FBA_CLK1_TERM | 4.3D |
| FBA_CS0* | 3.3D< 4.1A< 4.1C 4.1E 4.1G 4.5F< |
| FBA_CS1* | 4.5F< |
| FBA_ODT | 3.5D< 4.2A< 4.2C 4.2E 4.2G 4.5F< |
| FBA_ODT_GPU | 3.1G> 3.4C 3.5C |
| FBA_PLLAVDD_GPU | 3.4C |
| FBA_RAS* | 3.3D< 4.1A< 4.1C 4.1E 4.1G 4.4F< |
| FBA_RESET | 3.1G> 3.3C 3.5C |
| FBA_VREF1 | 4.2B 4.3F< |
| FBA_VREF2 | 4.2F 4.3F< |
| FBA_VREF3 | 4.2D 4.3F< |
| FBA_VREF4 | 4.2H 4.3F< |
| FBA_WE* | 3.3D< 4.1A< 4.1C 4.1E 4.1G 4.5F< |
| FBB_A<2> | 3.3C 4.1E 4.1G |
| FBB_A<5..2> | 3.3D< 4.1A< 4.4F< |
| FBB_A<3> | 3.3C 4.1E 4.1G |
| FBB_A<4> | 3.3C 4.1E 4.1G |
| FBB_A<5> | 3.3C 4.1E 4.1G |
| FBCAL_PD | 3.4G |
| FBCAL_PU | 3.4G |
| FBCAL_TERM | 3.5G |
| FBCD<0> | 3.1E 5.4B |
| FBCD<63..0> | 3.1E<> 5.4A<> 5.5F<> |
| FBCD<1> | 3.1E 5.4B |
| FBCD<2> | 3.1E 5.4B |
| FBCD<3> | 3.1E 5.4B |
| FBCD<4> | 3.1E 5.4B |
| FBCD<5> | 3.1E 5.4B |
| FBCD<6> | 3.1E 5.4B |
| FBCD<7> | 3.1E 5.4B |
| FBCD<8> | 3.1E 5.4C |
| FBCD<9> | 3.1E 5.4C |
| FBCD<10> | 3.1E 5.4C |
| FBCD<11> | 3.1E 5.4C |
| FBCD<12> | 3.1E 5.4C |
| FBCD<13> | 3.1E 5.4C |
| FBCD<14> | 3.1E 5.4C |
| FBCD<15> | 3.1E 5.4C |
| FBCD<16> | 3.1E 5.4D |
| FBCD<17> | 3.2E 5.4D |
| FBCD<18> | 3.2E 5.4D |
| FBCD<19> | 3.2E 5.4D |
| FBCD<20> | 3.2E 5.4D |
| FBCD<21> | 3.2E 5.4D |
| FBCD<22> | 3.2E 5.4D |
| FBCD<23> | 3.2E 5.4D |
| FBCD<24> | 3.2E 5.4D |
| FBCD<25> | 3.2E 5.4D |
| FBCD<26> | 3.2E 5.4D |
| FBCD<27> | 3.2E 5.4D |
| FBCD<28> | 3.2E 5.4D |
| FBCD<29> | 3.2E 5.4D |
| FBCD<30> | 3.2E 5.4D |
| FBCD<31> | 3.2E 5.4D |
| FBCD<32> | 3.2E 5.5B |
| FBCD<33> | 3.2E 5.5B |
| FBCD<34> | 3.2E 5.5B |
| FBCD<35> | 3.2E 5.5B |
| FBCD<36> | 3.2E 5.5B |
| FBCD<37> | 3.2E 5.5B |
| FBCD<38> | 3.2E 5.5B |
| FBCD<39> | 3.2E 5.5B |
| FBCD<40> | 3.2E 5.5C |
| FBCD<41> | 3.2E 5.5C |
| FBCD<42> | 3.2E 5.5C |
| FBCD<43> | 3.2E 5.5C |
| FBCD<44> | 3.2E 5.5C |
| FBCD<45> | 3.2E 5.5C |
| FBCD<46> | 3.2E 5.5C |
| FBCD<47> | 3.3E 5.5C |
| FBCD<48> | 3.3E 5.5D |
| FBCD<49> | 3.3E 5.5D |
| FBCD<50> | 3.3E 5.5D |
| FBCD<51> | 3.3E 5.5D |
| FBCD<52> | 3.3E 5.5D |
| FBCD<53> | 3.3E 5.5D |
| FBCD<54> | 3.3E 5.5D |
| FBCD<55> | 3.3E 5.5D |
| FBCD<56> | 3.3E 5.5D |
| FBCD<57> | 3.3E 5.5D |
| FBCD<58> | 3.3E 5.5D |
| FBCD<59> | 3.3E 5.5D |
| FBCD<60> | 3.3E 5.5D |
| FBCD<61> | 3.3E 5.5D |
| FBCD<62> | 3.3E 5.5D |
| FBCD<63> | 3.3E 5.5D |
| FBCDQM0> | 3.3E 5.4B |
| FBCDQM7..0> | 3.3E> 5.4A< 5.5F< |
| FBCDQM1> | 3.3E 5.4C |
| FBCDQM2> | 3.3E 5.4D |
| FBCDQM3> | 3.3E 5.4D |
| FBCDQM4> | 3.3E 5.5B |
| FBCDQM5> | 3.3E 5.5C |
| FBCDQM6> | 3.3E 5.5D |
| FBCDQM7> | 3.3E 5.5D |
| FBCDQS0 | 3.3E>> 5.4B 5.4F<> |
| FBCDQS0* | 3.4E>> 5.4B 5.4F<> |
| FBCDQS1 | 3.4E<> 5.4C 5.4F<> |
| FBCDQS1* | 3.4E<> 5.4C 5.4F<> |
| FBCDQS2 | 3.4E<> 5.4D 5.4F<> |
| FBCDQS2* | 3.4E<> 5.4D 5.4F<> |
| FBCDQS3 | 3.4E<> 5.4D 5.4F<> |
| FBCDQS3* | 3.4E<> 5.4D 5.4F<> |
| FBCDQS4 | 3.4E<> 5.4F<> 5.5B |
| FBCDQS4* | 3.4E<> 5.4F<> 5.5B |
| FBCDQS5 | 3.4E<> 5.4F<> 5.5C |
| FBCDQS5* | 3.4E<> 5.4F<> 5.5C |
| FBCDQS6 | 3.4E<> 5.4F<> 5.5D |
| FBCDQS6* | 3.4E<> 5.4F<> 5.5D |
| FBCDQS7 | 3.4E<> 5.4F<> 5.5D |
| FBCDQS7* | 3.4E<> 5.4F<> 5.5D |
| FBC_A<0> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<12..0> | 3.3H> 5.1A< 5.4F< |
| FBC_A<1> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<2> | 3.3G 5.1A 5.1C |
| FBC_A<3> | 3.3G 5.1A 5.1C |
| FBC_A<4> | 3.3G 5.1A 5.1C |
| FBC_A<5> | 3.3G 5.1A 5.1C |
| FBC_A<6> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<7> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<8> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<9> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<10> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<11> | 3.3G 5.1A 5.1C 5.1E 5.1G |
| FBC_A<12> | 3.3G 5.2A 5.2C 5.2E 5.2G |
| FBC_BA0 | 3.3H> 5.2A< 5.2C 5.2E 5.2G 5.4F< |
| FBC_BA1 | 3.3H> 5.2A< 5.2C 5.2E 5.2G 5.4F< |
| FBC_BA2 | 3.3H> 5.2A< 5.2C 5.2E 5.2G 5.4F< |
| FBC_CAS* | 3.4H> 5.1A< 5.1C 5.1E 5.1G 5.5F< |
| FBC_CKE | 3.3H> 5.2A< 5.2C 5.2E 5.2G 5.4F< |
| FBC_CLK0 | 3.4H> 5.2A 5.2C 5.3A< 5.3F< |
| FBC_CLK0* | 3.4H> 5.2A 5.2C 5.3B< 5.4F< |
| FBC_CLK0_TERM | 5.3B |
| FBC_CLK1 | 3.4H> 5.2E 5.2G 5.3C< 5.4F< |
| FBC_CLK1* | 3.4H> 5.2E 5.2G 5.3E< 5.4F< |
| FBC_CLK1_TERM | 5.3D |
| FBC_CS0* | 3.3H> 5.1A< 5.1C 5.1E 5.1G 5.5F< |
| FBC_CS1* | 5.5F< |
| FBC_ODT | 3.5D> 5.2A< 5.2C 5.2E 5.2G 5.5F< |
| FBC_ODT_GPU | 3.1G> 3.4G 3.5C |
| FBC_PLLAVDD | 3.4G |
| FBC_RAS* | 3.3H> 5.1A< 5.1C 5.1E 5.1G 5.5F< |
| FBC_RESET | 3.1G> 3.3G 3.5C |
| FBC_VREF1 | 5.2B 5.3F< |
| FBC_VREF2 | 5.2F 5.3F< |
| FBC_VREF3 | 5.2D 5.3F< |
| FBC_VREF4 | 5.2H 5.3F< |
| FBC_WE* | 3.3H> 5.1A< 5.1C 5.1E 5.1G 5.5F< |
| FBD_A<2> | 3.3G 5.1E 5.1G |
| FBD_A<5..2> | 3.3H> 5.1A< 5.4F< |
| FBD_A<3> | 3.3G 5.1E 5.1G |
| FBD_A<4> | 3.3G 5.1E 5.1G |
| FBD_A<5> | 3.3G 5.1E 5.1G |
| FBVDDQ | 14.1G |
| FB_BOOT | 14.2C |
| FB_BOOTC | 14.2D |
| FB_COMP | 14.3B |
| FB_COMP1 | 14.3C |
| FB_DH | 14.2C |
| FB_DL | 14.2C |
| FB_FB | 14.3D |
| FB_FSET | 14.2B |
| FB_ISEN | 14.2C |
| FB_PHASE | 14.2C |
| FB_PWRGOOD | 8.2A< 14.2A> |
| FB_SNUBBER | 14.2E |
| FB_VCC | 14.2B |
| FB_VREF1 | 3.5A |
| FB_VREF2 | 3.5E |
| GPIO0_DVI_A_HPD | 10.3D |
| GPIO1_DVI_B_HPD | 8.4A< 10.3F> |
| GPIO2_BL_PWM | 9.3B< 10.3F> |
| GPIO3_FPEN | 9.3B< 10.3F> |
| GPIO3_FPEN_GPU | 10.3D |
| GPIO4_BLEN | 9.3B< 10.3F> |
| GPIO4_BLEN_GPU | 10.3D |
| GPIO5_NVVDDCTL0 | 10.3F> 13.4B< |
| GPIO6_NVVDDCTL1 | 10.3F> 13.4B< |
| GPIO8_THERM_ALERT* | 10.3D |
| GPIO_AC_BATT* | 9.4B< 10.3F< |
| GPIO_SLI_SYNC | 9.3H<> 10.3F<> |
| I2CA_SCL | 7.1D |
| I2CA_SCL_R | 7.1F> 9.3B< |
| I2CA_SDA | 7.1D |
| I2CA_SDA_R | 7.1F<> 9.3B<> |
| I2CB_SCL | 7.3D |
| I2CB_SCL_R | 7.3G> 9.2B< |
| I2CB_SDA | 7.3D |
| I2CB_SDA_R | 7.3G<> 9.2B<> |
| I2CC_SCL | 10.3D |
| I2CC_SCL_R | 9.4B< 10.3F> 11.2B< |
| I2CC_SDA | 10.3D |
| I2CC_SDA_R | 9.4B<> 10.3F<> 11.2B<> |
| I2CH_SCL | 11.4C |
| I2CH_SDA | 11.4C |
| IFPABIOVDD | 8.2D |
| IFPABIFLVDD | 8.1D |
| IFPABIRSET | 8.1D |
| IFPATXC | 8.1H> 9.4G< |
| IFPATXC* | 8.1H> 9.4G< |
| IFPATXD0 | 8.1H> 9.4G< |
| IFPATXD0* | 8.1H> 9.4G< |
| IFPATXD1 | 8.1H> 9.4G< |
| IFPATXD1* | 8.1H> 9.4G< |
| IFPATXD2 | 8.2H> 9.4G< |
| IFPATXD2* | 8.2H> 9.4G< |
| IFPATXD3 | 8.2H> 9.4G< |
| IFPATXD3* | 8.2H> 9.4G< |
| IFPBTXC | 8.2H> 9.4G< |
| IFPBTXC* | 8.2H> 9.4G< |
| IFPBTXD4 | 8.2H> 9.3G< |
| IFPBTXD4* | 8.2H> 9.3G< |
| IFPBTXD5 | 8.2H> 9.3G< |
| IFPBTXD5* | 8.2H> 9.3G< |
| IFPBTXD6 | 8.2H> 9.4G< |
| IFPBTXD6* | 8.2H> 9.4G< |
| IFPBTXD7 | 8.2H> 9.4G< |
| IFPBTXD7* | 8.2H> 9.4G< |
| IFPCDBRSET | 8.3D |
| IFPCDPLLVDD | 8.3D |
| IFPCTXC | 8.3H> 9.2G< |
| IFPCTXC* | 8.3H> 9.2G< |
| IFPCTXD0 | 8.3H> 9.2G< |
| IFPCTXD0* | 8.3H> 9.2G< |
| IFPCTXD1 | 8.3H> 9.2G< |
| IFPCTXD1* | 8.3H> 9.2G< |
| IFPCTXD2 | 8.4H> 9.2G< |
| IFPCTXD2* | 8.4H> 9.2G< |
| IFPC_IOVDD | 8.4D |
| IFPDTXC | 8.4H> 9.3G< |
| IFPDTXC* | 8.4H> 9.3G< |
| IFPDTXD3 | 8.4H> 9.2G< |
| IFPDTXD3* | 8.4H> 9.2G< |
| IFPDTXD4 | 8.4H> 9.2G< |
| IFPDTXD4* | 8.4H> 9.2G< |
| IFPDTXD5 | 8.4H> 9.2G< |
| IFPDTXD5* | 8.4H> 9.2G< |
| IFPD_IOVDD | 8.4D |
| JTAG_TCLK | 10.3B |
| JTAG_TDI | 10.3B |
| JTAG_TDO | 10.3B |
| JTAG_TMS | 10.3B |
| JTAG_TRST | 10.3B |
| LVDS_IOVDD | 8.2B |
| MIOACAL_PD_VDDQ | 12.2C |
| MIOACAL_PU_GND | 12.2C |
| MIOA_VDDQ | 12.1C 12.2B |
| MIOA_VREF | 12.2C |
| MIOB_CTL3 | 12.4F< 15.2C 15.4B> |
| M_GPIO8_SLOWDOWN* | 10.2C |
| M_THERM_ALERT* | 10.2C |
| NVCTL0_R | 13.4D |
| NVCTL1_R | 13.4D |
| NVVDD | 13.1G |
| NVVDDCTL0 | 13.4D |
| NVVDDCTL1 | 13.4C |
| NVVDD_SENSE | 2.3G> 13.3G< |
| NVVDD_SENSE_FB | 13.3F |
| NV_BOOT | 13.2C |
| NV_BOOTC | 13.2D |
| NV_COMP | 13.2C |
| NV_COMP1 | 13.3C |
| NV_DH | 13.2C |
| NV_DL | 13.2C |
| NV_FB | 13.3D |
| NV_FSET | 13.2B |
| NV_ISEN | 13.2C |
| NV_PHASE | 13.2C |
| NV_PWRGOOD | 10.2F< 13.2B> 14.2A< |
| NV_SNUBBER | 13.2F |
| NV_VCC | 13.2B |
| PCI_DEVID3 | 12.4F< 15.2C 15.4B> |
| PEXIV2 | 14.1G |
| PEXIV2_FB | 14.4D |
| PEX_PLLGVDD | 2.4F |
| PEX_RCLK | 2.2E |
| PEX_RCLK* | 2.2E |
| PEX_RST | 2.1D |
| PEX_RX0 | 2.2E |
| PEX_RX0* | 2.2E |
| PEX_RX1 | 2.2E |
| PEX_RX1* | 2.2E |
| PEX_RX2 | 2.2E |
| PEX_RX2* | 2.2E |
| PEX_RX3 | 2.3E |
| PEX_RX3* | 2.3E |
| PEX_RX4 | 2.3E |
| PEX_RX4* | 2.3E |
| PEX_RX5 | 2.3E |
| PEX_RX5* | 2.3E |
| PEX_RX6 | 2.3E |
| PEX_RX6* | 2.3E |
| PEX_RX7 | 2.3E |
| PEX_RX7* | 2.3E |
| PEX_RX8 | 2.4E |
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| PEX_RX11 | 2.4E |
| PEX_RX11* | 2.4E |
| PEX_RX12 | 2.4E |
| PEX_RX12* | 2.4E |
| PEX_RX13 | 2.5E |
| PEX_RX13* | 2.5E |
| PEX_RX14 | 2.5E |
| PEX_RX14* | 2.5E |
| PEX_RX15 | 2.5E |
| PEX_RX15* | 2.5E |
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| PEX_TX0* | 2.2E |
| PEX_TX0_C | 2.2B |
| PEX_TX0_C* | 2.2B |
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| PEX_TX1_C | 2.2B |
| PEX_TX1_C* | 2.2B |
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| PEX_TX3 | 2.3E |
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| PEX_TX4 | 2.3E |
| PEX_TX4* | 2.3E |
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| ROM_SCLK | 11.3C |
| ROM_SI | 11.3C< 15.3C 15.4B> |
| ROM_SO | 11.3C |
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| SLI_SWAP_OUT | 9.3H<> 11.4C<> |
| SMB_CLK | 9.4B> 10.2A< |
| SMB_CLK_GPU | 10.3D |
| SMB_DAT | 9.4B<> 10.2A<> |
| SMB_DATA_GPU | 10.3D |
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| SNN_A2_M2 | 4.2C |
| SNN_A2_M3 | 4.2E |
| SNN_A2_M4 | 4.2G |
| SNN_A2_M5 | 5.2A |
| SNN_A2_M6 | 5.2C |
| SNN_A2_M7 | 5.2E |
| SNN_A2_M8 | 5.2G |
| SNN_BUFRST* | 11.4C |
| SNN_CLAMP_F6 | 10.3D |
| SNN_DAC8_CSYNC | 7.2D |
| SNN_DACC_BLUE | 7.3D |
| SNN_DACC_GREEN | 7.3D |
| SNN_DACC_HSYNC | 7.3D |
| SNN_DACC_RED | 7.3D |
| SNN_DACC_RSET | 7.3C |
| SNN_DACC_VREF | 7.3C |
| SNN_DACC_VSYNC | 7.3D |
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| SNN_E2_M3 | 4.2E |
| SNN_E2_M4 | 4.2G |
| SNN_E2_M5 | 5.2A |
| SNN_E2_M6 | 5.2C |
| SNN_E2_M7 | 5.2E |
| SNN_E2_M8 | 5.2G |
| SNN_FBA_CMD26 | 3.4C |
| SNN_FBA_CMD27 | 3.4C |
| SNN_FBA_CMD28 | 3.4C |
| SNN_FBA_NC1_D31 | 3.5C |
| SNN_FBA_NC1_D32 | 3.5C |
| SNN_FBC_CMD26 | 3.4G |
| SNN_FBC_CMD27 | 3.4G |
| SNN_FBC_CMD28 | 3.4G |
| SNN_FBC_PLLVDD | 3.4G |
| SNN_FBVTT_AA23 | 3.1G |
| SNN_FBVTT_AB23 | 3.1G |
| SNN_FBVTT_H16 | 3.1G |
| SNN_FBVTT_H17 | 3.1G |
| SNN_FBVTT_J9 | 3.1G |
| SNN_FBVTT_J10 | 3.1G |
| SNN_FBVTT_J23 | 3.1G |
| SNN_FBVTT_J24 | 3.1G |
| SNN_FBVTT_K9 | 3.1G |
| SNN_FBVTT_K11 | 3.1G |
| SNN_FBVTT_K12 | 3.1G |
| SNN_FBVTT_K21 | 3.1G |
| SNN_FBVTT_K22 | 3.1G |
| SNN_FBVTT_K24 | 3.1G |
| SNN_FBVTT_L23 | 3.1G |
| SNN_FBVTT_M23 | 3.1G |
| SNN_FBVTT_T25 | 3.1G |
| SNN_FBVTT_U25 | 3.2G |
| SNN_G3_RFU1 | 12.4E |
| SNN_G3_RFU2 | 12.4E |
| SNN_G3_RFU3 | 12.4E |
| SNN_G3_RFU4 | 12.4E |
| SNN_G3_RFU5 | 12.4E |
| SNN_G3_RFU6 | 12.4E |
| SNN_G3_RFU7 | 12.4E |
| SNN_G3_RFU8 | 12.4E |
| SNN_G3_RFU9 | 11.4A |
| SNN_G3_RFU10 | 11.4A |

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SNN_GPIO9 10.3D
SNN_GPIO10 10.3D
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THERM_VDD 10.2C
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