P584-A01: MXM-I, G86M, 256/128MB, 64-bit
32M16 or 16M16(4 pcs) DDR2
LVDS,DVI_A,TV_OUT,VGA, HDMI/HDCP

Table of Contents

SKU	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10584-0000-000	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-10584-0001-000	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
2	SKU0002	600-10584-0002-000	G86M ?/? 128MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
3	SKU0003	600-10584-0003-000	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
4	SKU0004	600-10584-0004-000	G86M ?/? 128MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
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6	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
7	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
8	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
9	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
10	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
11	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
12	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
13	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
14	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
15	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>

ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	PAGE OVERVIEW

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

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NAME	Joe Kwon	DATE	14-DEC-2006

PAGE 2) PCI-EXPRESS

CN1
CON_MXM_X16_EDGE
(NPHY,_NONPHY)-X16(_SLI)
NONPHY-X16
COMMON

1/2 PCI-Express, Power

3V3RUN (1.5A)
1V8RUN (3.5A)
PWR_SRC (4A)
2V5RUN (0.5A)
5VRUN (0.5A)

GND: 17, 20, 41, 44, 47, 50, 53, 56, 59, 62, 65, 68, 71, 74, 77, 80, 83, 86, 89, 92, 95, 98, 101, 104, 107, 110, 113, 116, 119, 122, 125, 128, 131, 134, 138, 142, 146, 150, 154, 158, 164, 176, 182, 188, 194, 199, 200, 205, 206, 211, 212, 218, 223, 229, 235, 236, 241

CN1	NET_NAME	DIFF_PAIR	C-code
129	PEX_TX0_C	PEX_TX0_C	C592
127	PEX_TX0_C*	PEX_TX0_C	C588
123	PEX_TX1_C	PEX_TX1_C	C584
121	PEX_TX1_C*	PEX_TX1_C	C580
117	PEX_TX2_C	PEX_TX2_C	C577
115	PEX_TX2_C*	PEX_TX2_C	C572
111	PEX_TX3_C	PEX_TX3_C	C571
109	PEX_TX3_C*	PEX_TX3_C	C569
105	PEX_TX4_C	PEX_TX4_C	C566
103	PEX_TX4_C*	PEX_TX4_C	C562
99	PEX_TX5_C	PEX_TX5_C	C561
97	PEX_TX5_C*	PEX_TX5_C	C560
93	PEX_TX6_C	PEX_TX6_C	C559
91	PEX_TX6_C*	PEX_TX6_C	C558
87	PEX_TX7_C	PEX_TX7_C	C557
85	PEX_TX7_C*	PEX_TX7_C	C554
81	PEX_TX8_C	PEX_TX8_C	C553
79	PEX_TX8_C*	PEX_TX8_C	C552
75	PEX_TX9_C	PEX_TX9_C	C551
73	PEX_TX9_C*	PEX_TX9_C	C549
69	PEX_TX10_C	PEX_TX10_C	C548
67	PEX_TX10_C*	PEX_TX10_C	C547
63	PEX_TX11_C	PEX_TX11_C	C546
61	PEX_TX11_C*	PEX_TX11_C	C545
57	PEX_TX12_C	PEX_TX12_C	C544
55	PEX_TX12_C*	PEX_TX12_C	C543
51	PEX_TX13_C	PEX_TX13_C	C542
49	PEX_TX13_C*	PEX_TX13_C	C540
45	PEX_TX14_C	PEX_TX14_C	C538
43	PEX_TX14_C*	PEX_TX14_C	C537
39	PEX_TX15_C	PEX_TX15_C	C536
37	PEX_TX15_C*	PEX_TX15_C	C531

CLK_REQ 137
PEX_RST 139
PEX_REFCLK 135
PEX_REFCLK 133
PRSNT1 134
PRSNT2 38 — R43 0 0402 5% COMMON — PRSNT2_C

G1	PEX_RST	NV_IMPEDANCE	NV_CRITICAL_NET	DIFF_PAIR	NET_NAME
AC6	PEX_RST	100DIFF	1	PEX_TCLK	PEX_TSTCLK
AF13	PEX_TSTCLK_OUT	100DIFF	1	PEX_TCLK	PEX_TSTCLK*
AF14	PEX_TSTCLK_OUT				
AE3	PEX_REFCLK	100DIFF	1	PEX_RCLK	REFCLK
AE4	PEX_REFCLK	100DIFF	1	PEX_RCLK	REFCLK*
AD5	PEX_TX0	100DIFF	1	PEX_TX0	PEX_TX0
AD6	PEX_TX0	100DIFF	1	PEX_TX0	PEX_TX0*
AF1	PEX_RX0	100DIFF	1	PEX_RX0	PEX_RX0
AG2	PEX_RX0	100DIFF	1	PEX_RX0	PEX_RX0*
AE6	PEX_TX1	100DIFF	1	PEX_TX1	PEX_TX1
AE7	PEX_TX1	100DIFF	1	PEX_TX1	PEX_TX1*
AG3	PEX_RX1	100DIFF	1	PEX_RX1	PEX_RX1
AG4	PEX_RX1	100DIFF	1	PEX_RX1	PEX_RX1*
AD7	PEX_TX2	100DIFF	1	PEX_TX2	PEX_TX2
AC7	PEX_TX2	100DIFF	1	PEX_TX2	PEX_TX2*
AF4	PEX_RX2	100DIFF	1	PEX_RX2	PEX_RX2
AF5	PEX_RX2	100DIFF	1	PEX_RX2	PEX_RX2*
AE9	PEX_TX3	100DIFF	1	PEX_TX3	PEX_TX3
AE10	PEX_TX3	100DIFF	1	PEX_TX3	PEX_TX3*
AG6	PEX_RX3	100DIFF	1	PEX_RX3	PEX_RX3
AG7	PEX_RX3	100DIFF	1	PEX_RX3	PEX_RX3*
AD10	PEX_TX4	100DIFF	1	PEX_TX4	PEX_TX4
AC10	PEX_TX4	100DIFF	1	PEX_TX4	PEX_TX4*
AF7	PEX_RX4	100DIFF	1	PEX_RX4	PEX_RX4
AF8	PEX_RX4	100DIFF	1	PEX_RX4	PEX_RX4*
AE12	PEX_TX5	100DIFF	1	PEX_TX5	PEX_TX5
AE13	PEX_TX5	100DIFF	1	PEX_TX5	PEX_TX5*
AG9	PEX_RX5	100DIFF	1	PEX_RX5	PEX_RX5
AG10	PEX_RX5	100DIFF	1	PEX_RX5	PEX_RX5*
AD13	PEX_TX6	100DIFF	1	PEX_TX6	PEX_TX6
AC13	PEX_TX6	100DIFF	1	PEX_TX6	PEX_TX6*
AF10	PEX_RX6	100DIFF	1	PEX_RX6	PEX_RX6
AF11	PEX_RX6	100DIFF	1	PEX_RX6	PEX_RX6*
AC15	PEX_TX7	100DIFF	1	PEX_TX7	PEX_TX7
AD15	PEX_TX7	100DIFF	1	PEX_TX7	PEX_TX7*
AG12	PEX_RX7	100DIFF	1	PEX_RX7	PEX_RX7
AG13	PEX_RX7	100DIFF	1	PEX_RX7	PEX_RX7*
AE15	PEX_TX8	100DIFF	1	PEX_TX8	PEX_TX8
AE16	PEX_TX8	100DIFF	1	PEX_TX8	PEX_TX8*
AG15	PEX_RX8	100DIFF	1	PEX_RX8	PEX_RX8
AG16	PEX_RX8	100DIFF	1	PEX_RX8	PEX_RX8*
AC18	PEX_TX9	100DIFF	1	PEX_TX9	PEX_TX9
AD18	PEX_TX9	100DIFF	1	PEX_TX9	PEX_TX9*
AF16	PEX_RX9	100DIFF	1	PEX_RX9	PEX_RX9
AF17	PEX_RX9	100DIFF	1	PEX_RX9	PEX_RX9*
AE18	PEX_TX10	100DIFF	1	PEX_TX10	PEX_TX10
AE19	PEX_TX10	100DIFF	1	PEX_TX10	PEX_TX10*
AG18	PEX_RX10	100DIFF	1	PEX_RX10	PEX_RX10
AG19	PEX_RX10	100DIFF	1	PEX_RX10	PEX_RX10*
AC21	PEX_TX11	100DIFF	1	PEX_TX11	PEX_TX11
AD21	PEX_TX11	100DIFF	1	PEX_TX11	PEX_TX11*
AF19	PEX_RX11	100DIFF	1	PEX_RX11	PEX_RX11
AF20	PEX_RX11	100DIFF	1	PEX_RX11	PEX_RX11*
AE21	PEX_TX12	100DIFF	1	PEX_TX12	PEX_TX12
AE22	PEX_TX12	100DIFF	1	PEX_TX12	PEX_TX12*
AG21	PEX_RX12	100DIFF	1	PEX_RX12	PEX_RX12
AG22	PEX_RX12	100DIFF	1	PEX_RX12	PEX_RX12*
AD22	PEX_TX13	100DIFF	1	PEX_TX13	PEX_TX13
AD23	PEX_TX13	100DIFF	1	PEX_TX13	PEX_TX13*
AF22	PEX_RX13	100DIFF	1	PEX_RX13	PEX_RX13
AF23	PEX_RX13	100DIFF	1	PEX_RX13	PEX_RX13*
AF25	PEX_TX14	100DIFF	1	PEX_TX14	PEX_TX14
AE25	PEX_TX14	100DIFF	1	PEX_TX14	PEX_TX14*
AG24	PEX_RX14	100DIFF	1	PEX_RX14	PEX_RX14
AG25	PEX_RX14	100DIFF	1	PEX_RX14	PEX_RX14*
AE24	PEX_TX15	100DIFF	1	PEX_TX15	PEX_TX15
AD24	PEX_TX15	100DIFF	1	PEX_TX15	PEX_TX15*
AG26	PEX_RX15	100DIFF	1	PEX_RX15	PEX_RX15
AF27	PEX_RX15	100DIFF	1	PEX_RX15	PEX_RX15*

1/12 PCI_EXPRESS

PEX_IOVDD: AB10, AB11, AB14, AB15, W17, W18, AB20, AB21
PEX_IOVDDQ: AA4, AB5, AB6, AB7, AB8, AB9, AC9, AC11, AB12, AC12, AB13, AB16, AC16, AB17, AC17, AB18, AB19, AC19, AC20
VDD: J9, M9, R9, T9, J10, J11, M11, N11, R11, T11, L12, M12, T12, U12, L13, M13, T13, U13, W13, M14, T14, L15, M15, T15, U15, W15, L16, M16, T16, U16, W16, M17, N17, R17, T17
VDD_LP: W9, W10, W11, W12
VDD33: J12, F13, J13, F14, J15, J16
NVVDD: N9
PEX_PLLAVDD: Y6
PEX_PLLDVDD: AA5 (PEX_PLL_DVDD)
PEX_PLLGND: AA6

G72	G86
NV_PLLAVDD	VDD

PLACE UNDER GPU

PEX1V2: C607 .1UF 16V 10% X7R 0402 COMMON; C595 .1UF 16V 10% X7R 0402 COMMON; C604 1UF 6.3V 10% X5R 0402 COMMON; C591 1UF 6.3V 10% X5R 0402 COMMON; C556 4.7UF 6.3V 10% X5R 0603 COMMON; C633 4.7UF 6.3V 10% X5R 0603 COMMON

PEX1V2: C582 .1UF 10V 10% X5R 0402 COMMON; C585 .1UF 16V 10% X7R 0402 COMMON; C596 1UF 6.3V 10% X5R 0402 COMMON; C573 1UF 6.3V 10% X5R 0402 COMMON; C565 4.7UF 6.3V 10% X5R 0603 COMMON; C37 10UF 6.3V 20% X5R 0805 COMMON

NVVDD: C602 .1UF 6.3V 10% X7R 0402 COMMON; C600 .1UF 6.3V 10% X7R 0402 COMMON; C593 .1UF 6.3V 10% X7R 0402 COMMON; C576 1UF 6.3V 10% X7R 0603 COMMON; C567 .1UF 6.3V 10% X7R 0402 COMMON; C575 .1UF 16V 10% X7R 0402 COMMON; C597 .1UF 6.3V 10% X7R 0402 COMMON; C568 1UF 6.3V 10% X7R 0603 COMMON; C608 .1UF 6.3V 10% X7R 0402 COMMON; C594 .1UF 16V 10% X7R 0402 COMMON; C570 .1UF 6.3V 10% X7R 0402 COMMON; C603 1UF 6.3V 10% X7R 0603 COMMON; C578 .1UF 16V 10% X7R 0402 COMMON; C601 .1UF 16V 10% X7R 0402 COMMON

3V3RUN: C586 .1UF 6.3V 10% X7R 0402 COMMON; C587 .1UF 6.3V 10% X7R 0402 COMMON; C611 1UF 6.3V 10% X5R 0402 COMMON

PEX1V2: C599 4700PF 25V 10% X7R 0402 COMMON; C605 .01UF 16V 10% X7R 0402 COMMON; C635 1UF 6.3V 10% X5R 0402 COMMON; C640 1UF 6.3V 10% X5R 0402 COMMON; C645 1UF 6.3V 10% X5R 0402 COMMON; LB506 10nH 0603 COMMON; C643 4.7UF 6.3V 10% X5R 0603 COMMON

ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	PCI EXPRESS INTERFACE

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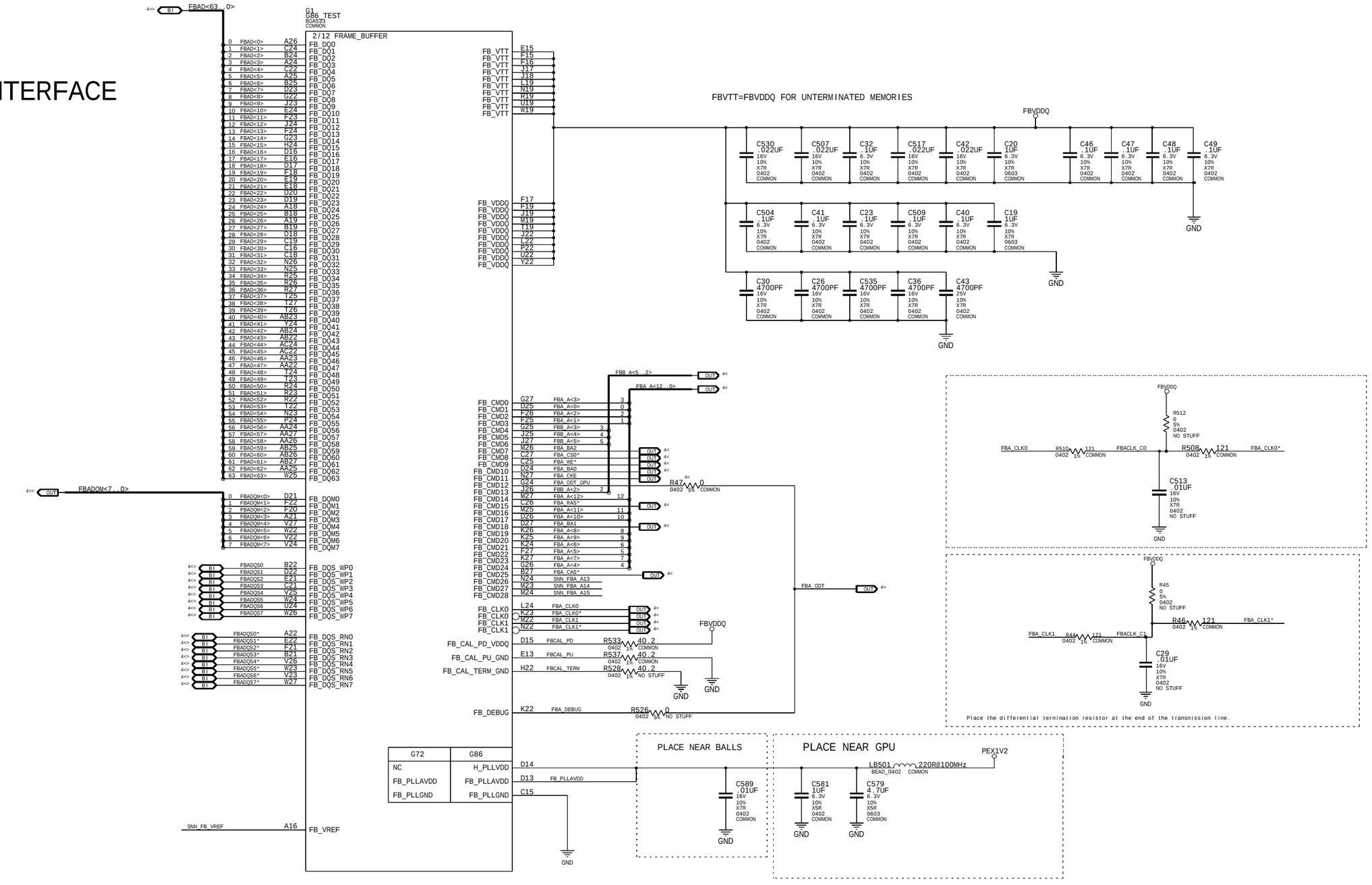
PAGE 3) FBA INTERFACE



ASSEMBLY	
PAGE DETAIL	GPU_MEMORY_INTERFACE

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

NV_PN	600-10584-0002-100		
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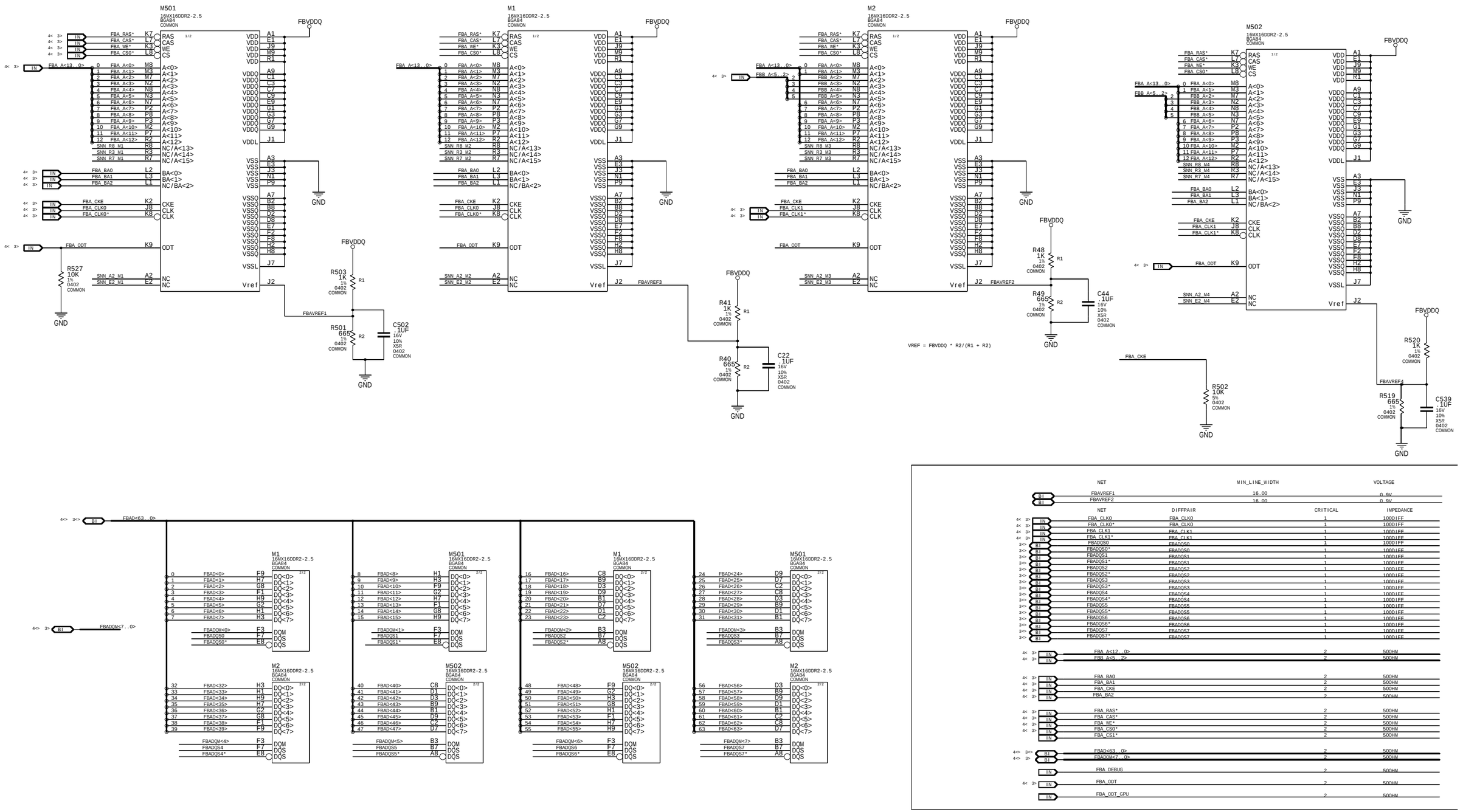
PAGE 4) MEMORY PARTITION A



NET	MIN_LINE_WIDTH	VOLTAGE
FBAVREF1	16.00	0.9V
FBAVREF2	16.00	0.9V

NET	DIFFPAIR	CRITICAL	IMPEDANCE
FBA_CLK0	FBA_CLK0	1	100DIFF
FBA_CLK0*	FBA_CLK0	1	100DIFF
FBA_CLK1	FBA_CLK1	1	100DIFF
FBA_CLK1*	FBA_CLK1	1	100DIFF
FBADQS0	FBADQS0	1	100DIFF
FBADQS0*	FBADQS0	1	100DIFF
FBADQS1	FBADQS1	1	100DIFF
FBADQS1*	FBADQS1	1	100DIFF
FBADQS2	FBADQS2	1	100DIFF
FBADQS2*	FBADQS2	1	100DIFF
FBADQS3	FBADQS3	1	100DIFF
FBADQS3*	FBADQS3	1	100DIFF
FBADQS4	FBADQS4	1	100DIFF
FBADQS4*	FBADQS4	1	100DIFF
FBADQS5	FBADQS5	1	100DIFF
FBADQS5*	FBADQS5	1	100DIFF
FBADQS6	FBADQS6	1	100DIFF
FBADQS6*	FBADQS6	1	100DIFF
FBADQS7	FBADQS7	1	100DIFF
FBADQS7*	FBADQS7	1	100DIFF
FBA_A<12..0>		2	50OHM
FBB_A<5..2>		2	50OHM
FBA_BA0		2	50OHM
FBA_BA1		2	50OHM
FBA_CKE		2	50OHM
FBA_BA2		2	50OHM
FBA_RAS*		2	50OHM
FBA_CAS*		2	50OHM
FBA_WE*		2	50OHM
FBA_CS0*		2	50OHM
FBA_CS1*		2	50OHM
FBAD<63..0>		2	50OHM
FBADQM<7..0>		2	50OHM
FBA_DEBUG		2	50OHM
FBA_ODT		2	50OHM
FBA_ODT_GPU		2	50OHM

ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	FRAME BUFFER PARTITION A

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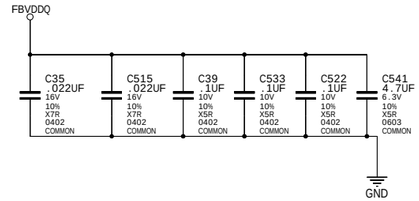
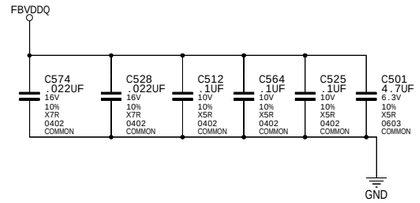
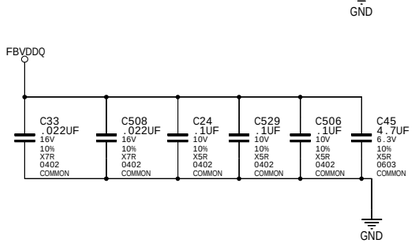
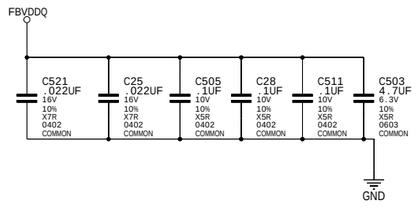
PAGE 5) Memory Decoupling Caps









ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	MEMORY DECOUPLING CAPS

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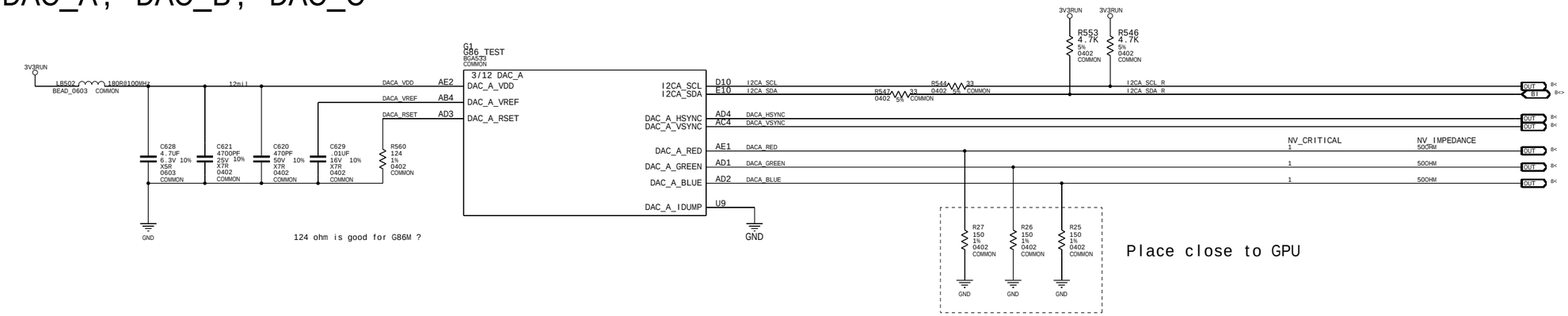
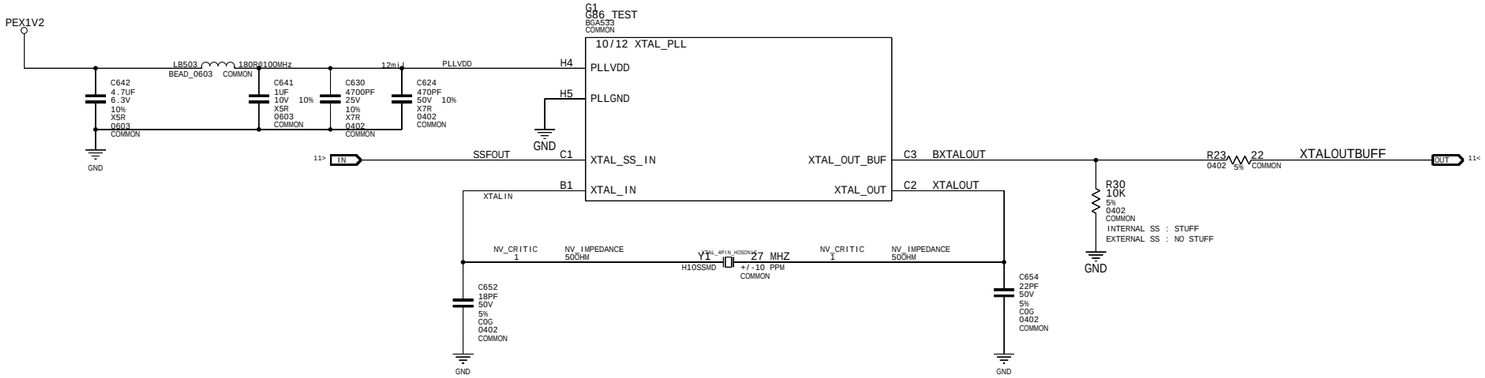
PAGE 6) DAC_A, DAC_B, DAC_C





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ASSEMBLY	
PAGE DETAIL	DAC A/B
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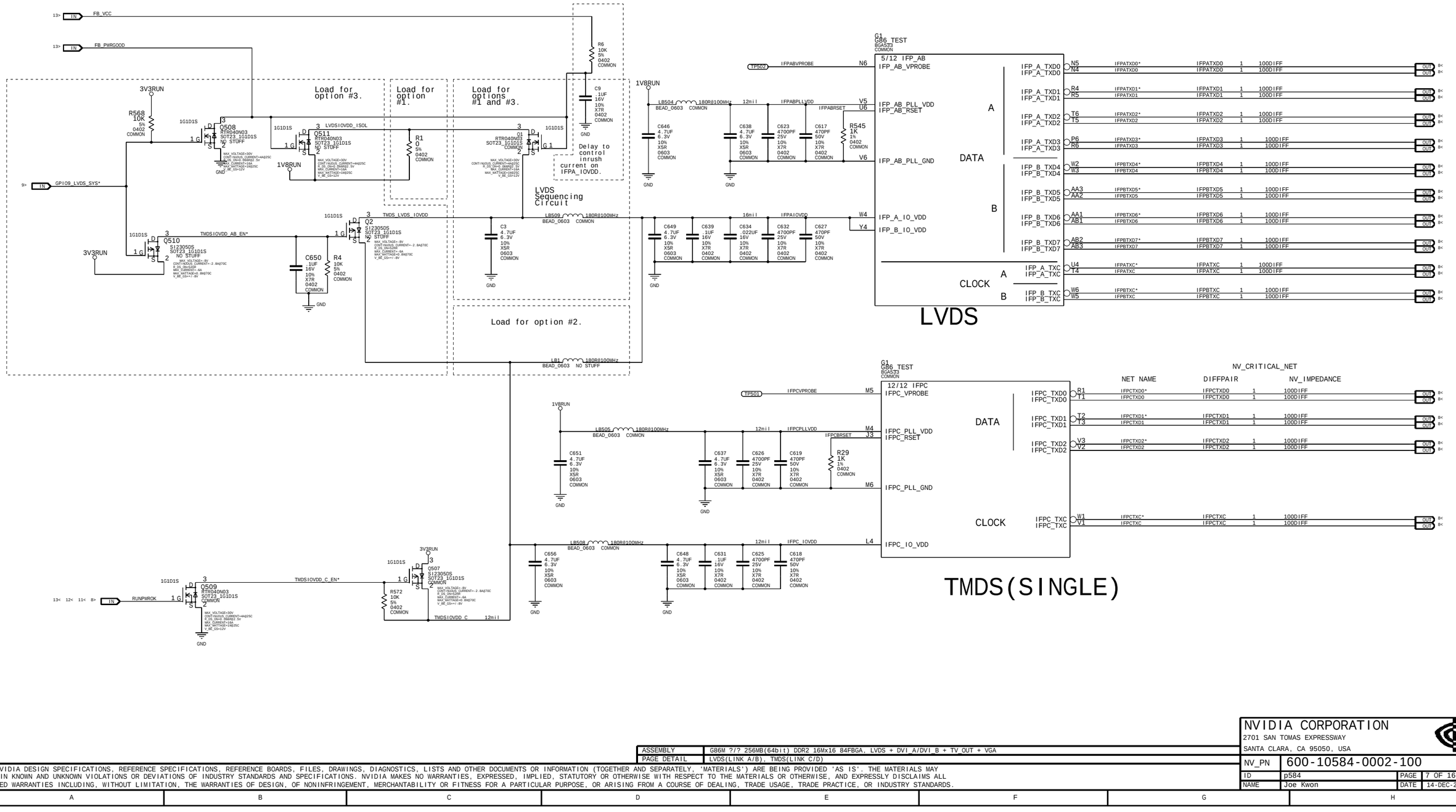
PAGE 7)LVDS / TMDS Interface

Loading options for IFPAB outputs

Option #1) IFPAB outputs to LVDS only.
Option #2) IFPAB outputs to DVI-C only.
Option #3) Controlled with GPIO9, IFPAB dynamically outputs to LVDS or DVI-C.



ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	LVDS(LINK A/B), TMDS(LINK C/D)

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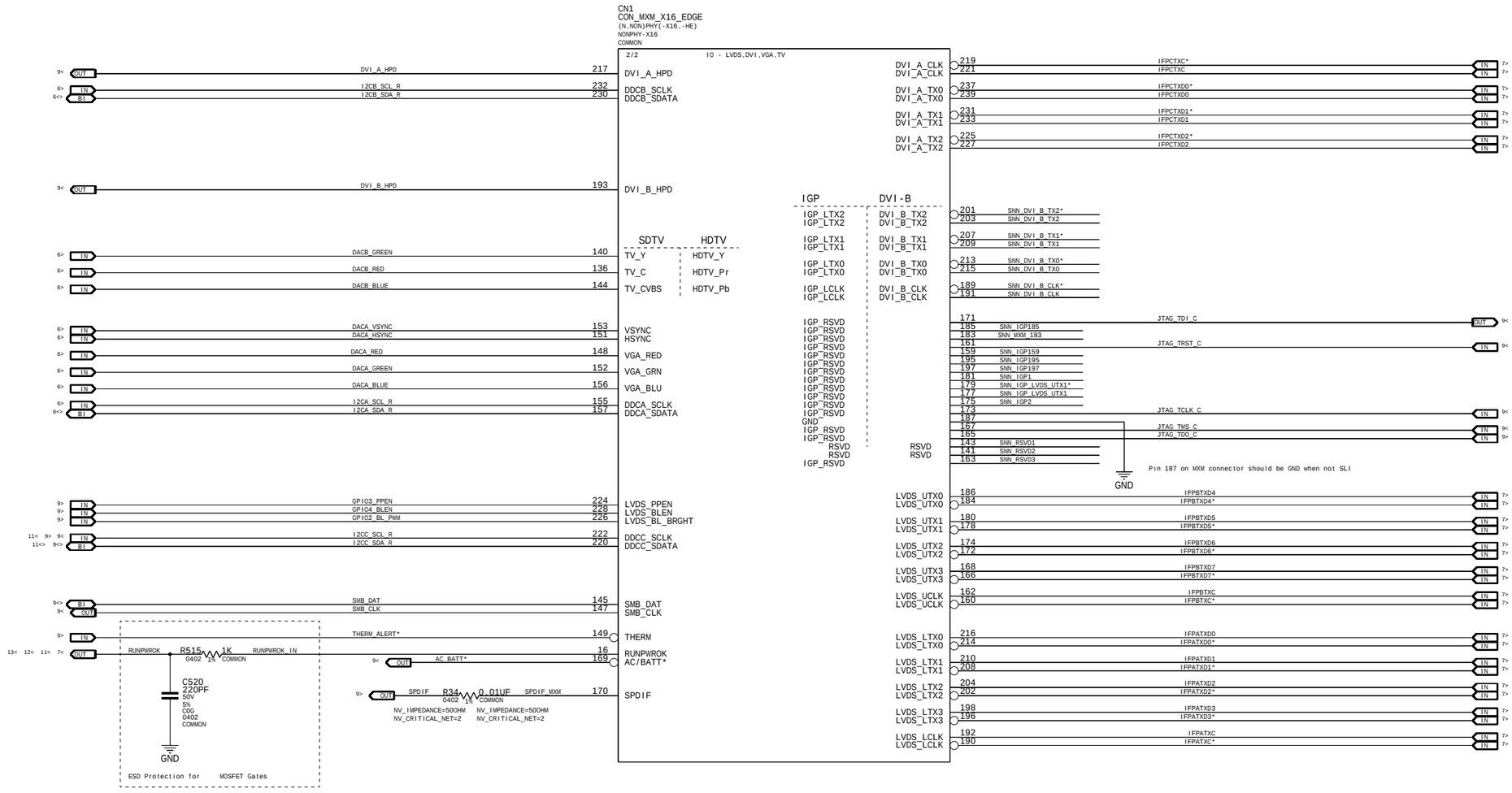
PAGE 8) MXM CONNECTOR



ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	MXM CONNECTOR

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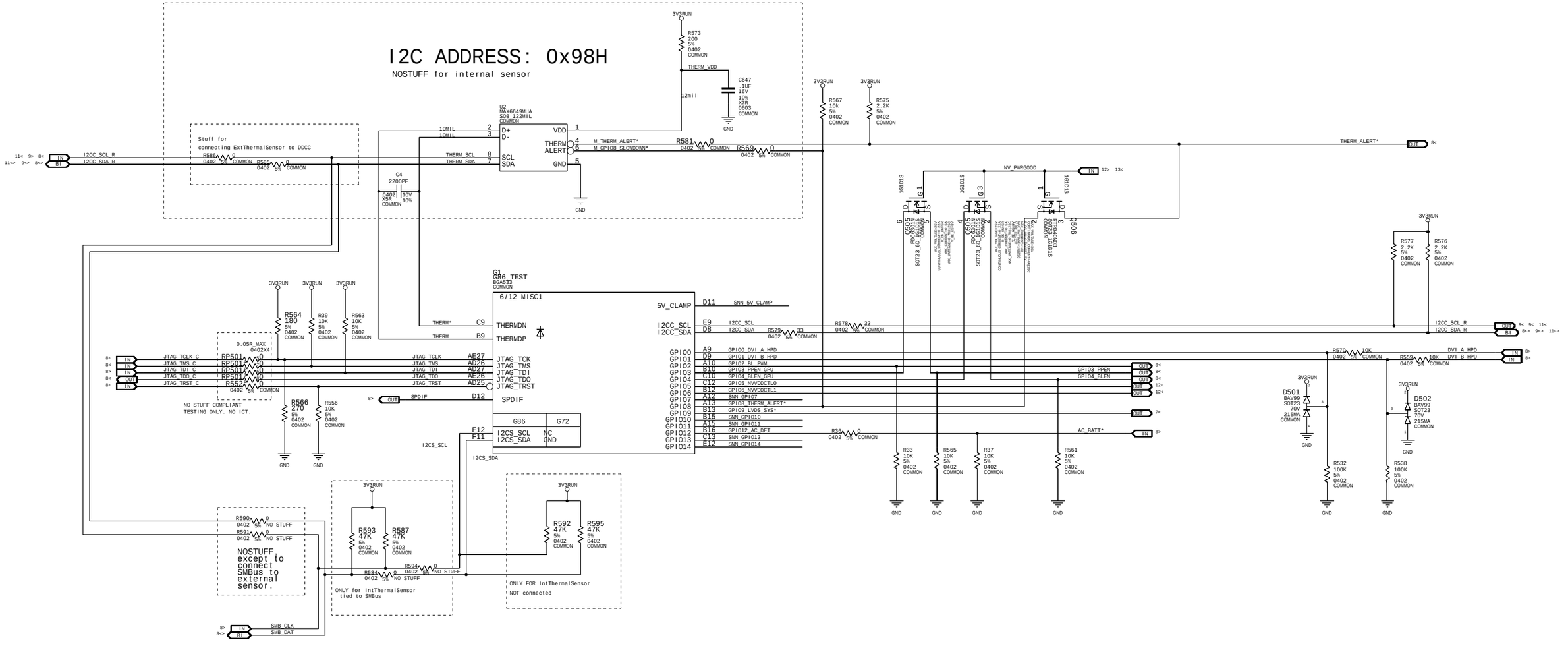
PAGE 9) GPIO, JTAG, TEMP SENSOR, SPDIF



ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	GPIO, JTAG, TEMP SENSOR, SPDIF

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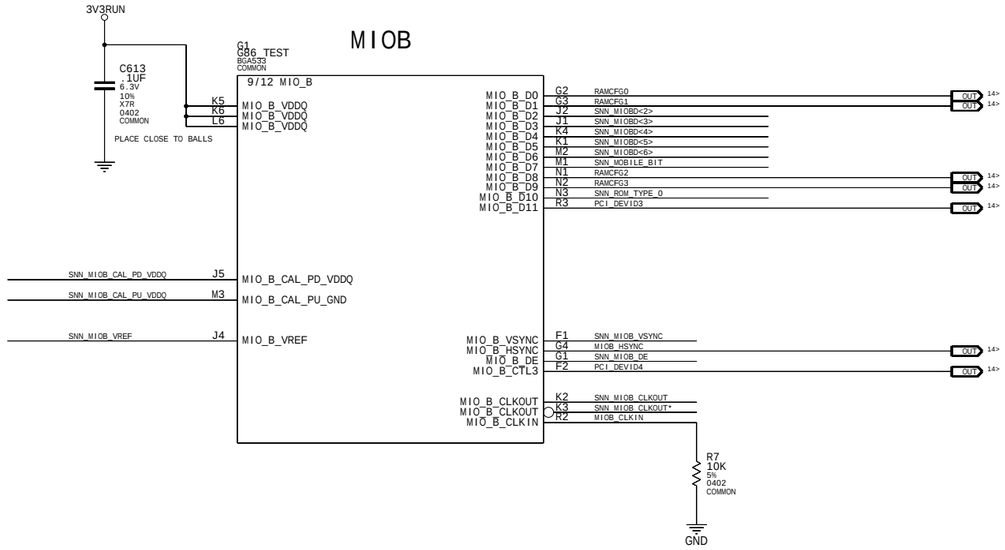
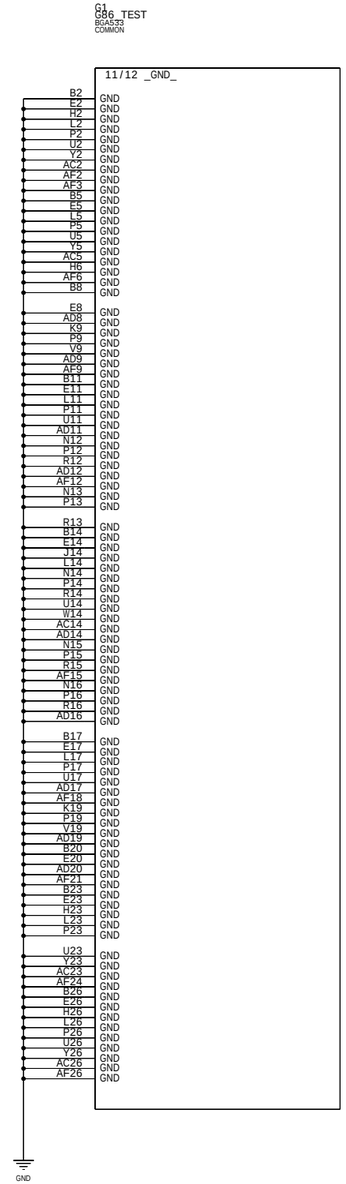
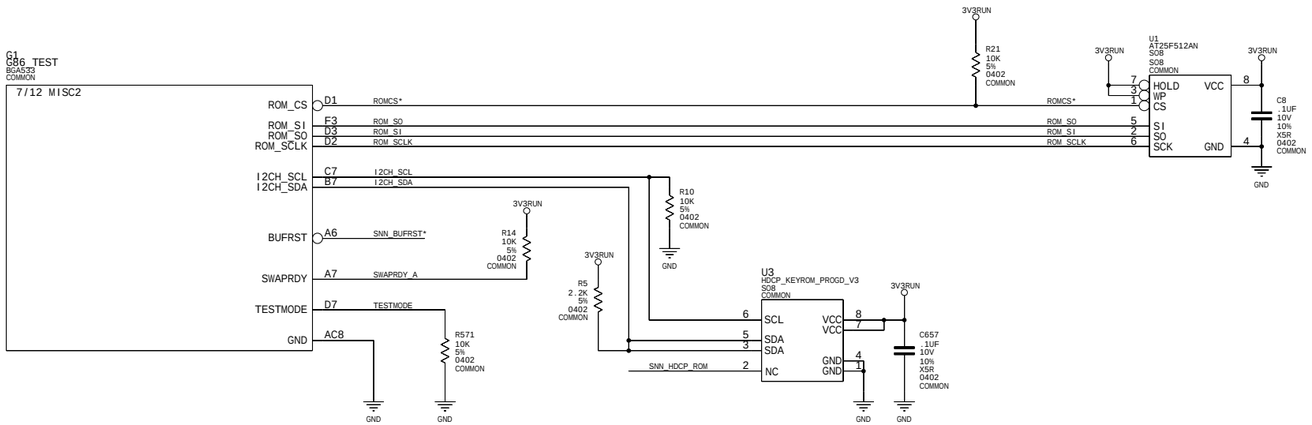
PAGE 10) MIOB, VBIOS, HDCP BIOS

MIOB





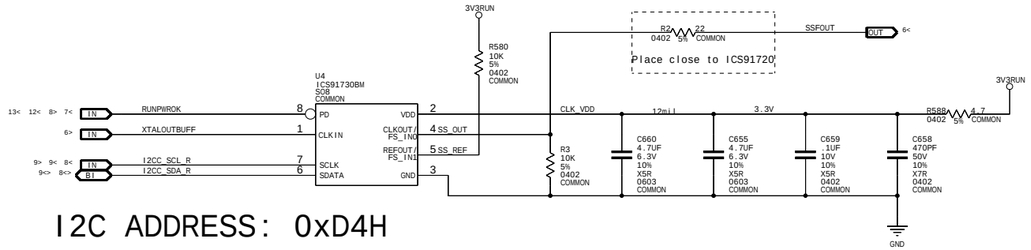


ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI A/DVI B + TV_OUT + VGA
PAGE DETAIL	MIOB, VBIOS, HDCP ROM

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

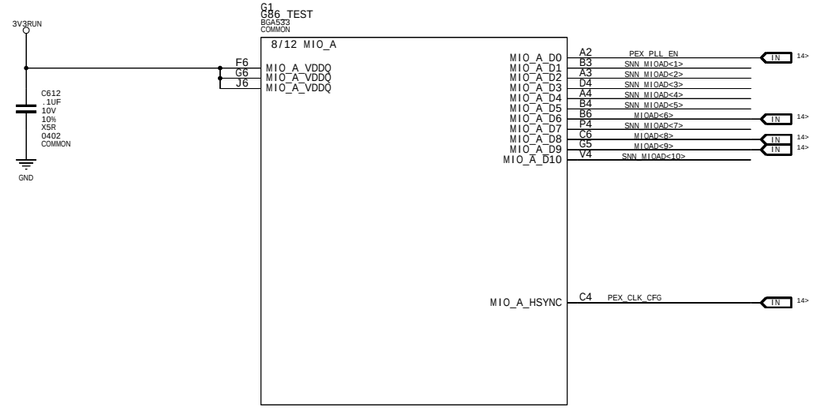
NV_PN	600-10584-0002-100		
ID	p584	PAGE	10 OF 16
NAME	Joe Kwon	DATE	14-DEC-2006

PAGE 11) SPREAD SPECTRUM, MIOA



I2C ADDRESS: 0xD4H

MIOA



ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	SPREAD SPECTURM, MIOA

NVIDIA CORPORATION
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NV_PN	600-10584-0002-100		
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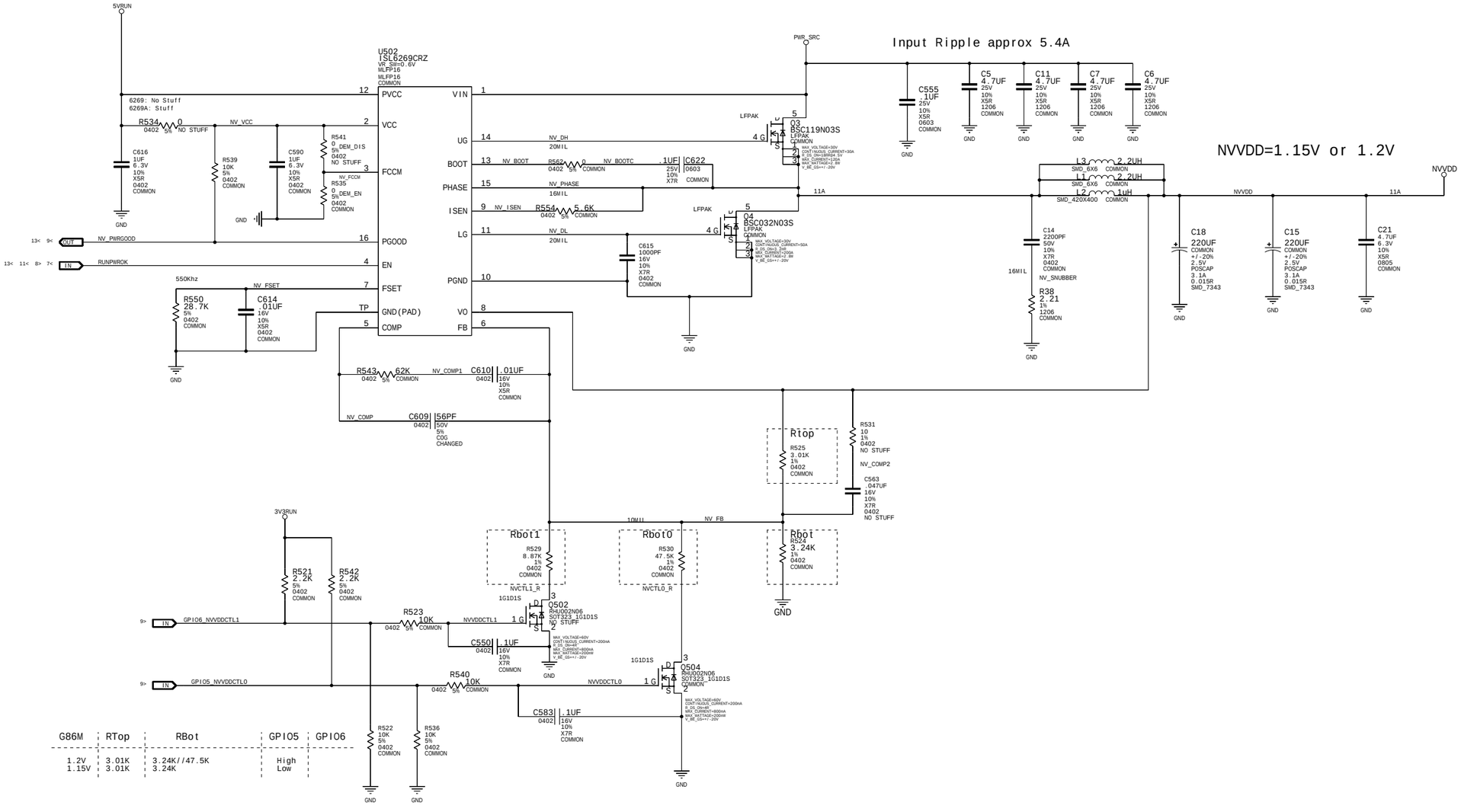
PAGE 12: NVVDD

VOLTAGE NODE PROPERTIES

	VOLTAGE	SOURCE POWER NET	MIN LINE WIDTH	MAX CURRENT	
3V3RUN	3.3V	TRUE	12.00	1.5A	3V3RUN
1V8RUN	1.8V	TRUE	16.00	3.5A	1V8RUN
2V5RUN	2.5V	TRUE	12.00	0.5A	2V5RUN
5VRUN	5.0V	TRUE	12.00	0.5A	5VRUN
PWR_SRC	22V	TRUE	30.00	4A	PWR_SRC
NVVDD	1.2V		16.00	11A	NVVDD
PEX1V2	1.2V		12.00	2A	PEX1V2
FBVDDQ	1.8V		12.00	6A	FBVDDQ

12.00

GND GND

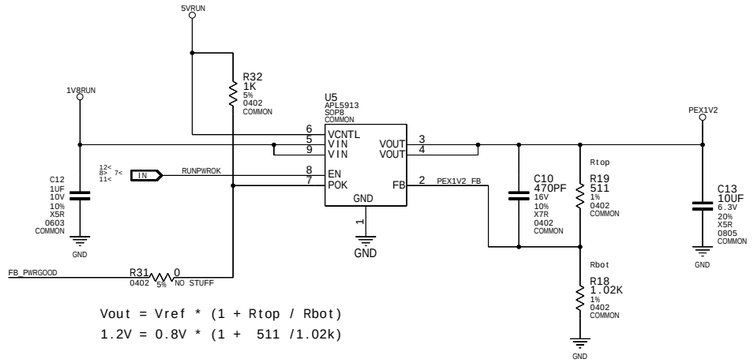


ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	NVVDD POWER SUPPLY

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

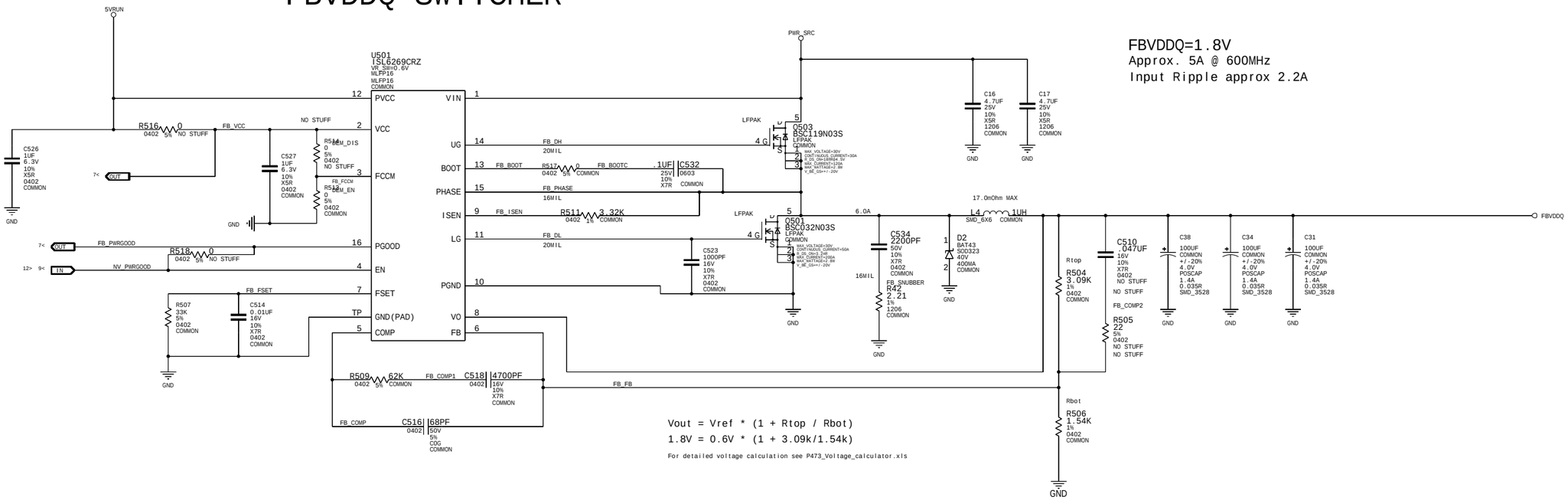
NV_PN	600-10584-0002-100		
ID	p584	PAGE	12 OF 16
NAME	Joe Kwon	DATE	14-DEC-2006

PAGE 13) FBVDD, PEX1V2



PEX1V2 LINEAR SUPPLY

FBVDDQ SWITCHER



FBVDDQ=1.8V
Approx. 5A @ 600MHz
Input Ripple approx 2.2A

ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	FBVDDQ POWER SUPPLY

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

NV_PN	600-10584-0002-100		
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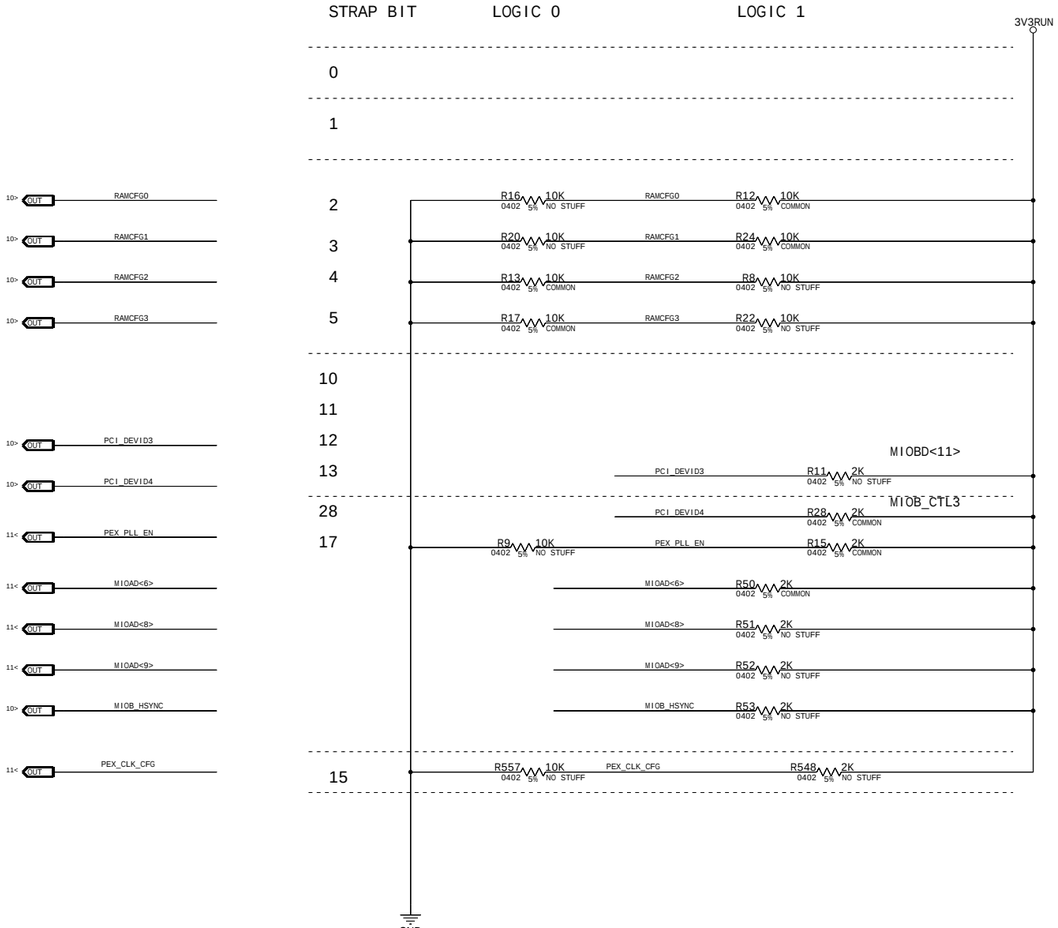
PAGE 14) STRAPS



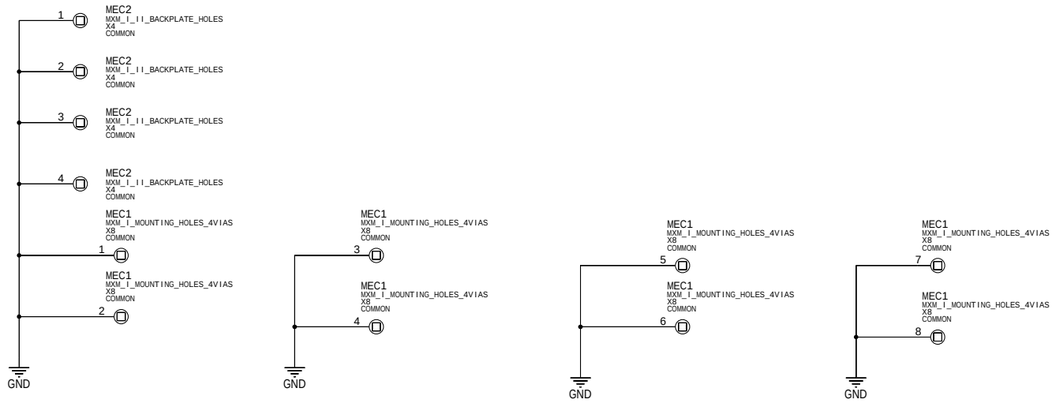
PCI_AD_SWAP
- 0: REVERSED
- 1: NORMAL DEFAULT

SUB_VENDOR
- 0: SYSTEM BIOS
- 1: ADAPTER BIOS DEFAULT

RAM_CFG_0
RAM_CFG_1
RAM_CFG_2
RAM_CFG_3

RAM_CFG[3:0]	Config	Definitions
0000	16Mx16 DDR2	Elpida
0001	16Mx16 DDR2	Samsung
0010	16Mx16 DDR2	Infineon
0011	16Mx16 DDR2	Hynix
0100	Reserved	
0101	32Mx16 DDR2	Samsung
0110	32Mx16 DDR2	Infineon
0111	32Mx16 DDR2	Hynix

PCI_DEVID_0
PCI_DEVID_1
PCI_DEVID_2
PCI_DEVID_3
PCI_DEVID_4(USED FOR G9X)
PEX_PLL_EN_TERM100
3GIO_PADCFG_LUT_ADR0
3GIO_PADCFG_LUT_ADR1
3GIO_PADCFG_LUT_ADR2
3GIO_PADCFG_LUT_ADR3
SLOT_CLOCK_CFG



ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE_DETAIL	STRAPS

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

NV_PN	600-10584-0002-100		
ID	p584	PAGE	14 OF 16
NAME	Joe Kwon	DATE	14-DEC-2006

Title: Basenet Report
Design: p419
Date: Dec 12 17:33:02 2006

Base nets and synonyms for
p419_lib.P419(@p419_lib.p419(sch_1))

Base Signal	Location([Zone][dir])
AC_BATT*	8.4B> 9.3F<
BXTALOUT	6.4D
CLK_VDD	11.2C
DACA_BLUE	6.2H> 8.3A<
DACA_GREEN	6.1H> 8.3A<
DACA_HSYNC	6.1H> 8.3A<
DACA_RED	6.1H> 8.3A<
DACA_RSET	6.1C
DACA_VDD	6.1C
DACA_VREF	6.1C
DACA_VSYNC	6.1H> 8.3A<
DACB_BLUE	6.3F> 8.3A<
DACB_GREEN	6.3F> 8.2A<
DACB_RED	6.3F> 8.3A<
DACB_RSET	6.3C
DACB_VDD	6.3C
DACB_VREF	6.3C
DVI_A_HPD	8.2A> 9.3H<
DVI_B_HPD	8.2A> 9.3H<
FBACLK_C0	3.3G
FBACLK_C1	3.4G
FBAD<0>	3.1C 4.4B
FBAD<63..0>	3.1B<> 4.4A<> 4.5F<>
FBAD<1>	3.1C 4.4B
FBAD<2>	3.1C 4.4B
FBAD<3>	3.1C 4.4B
FBAD<4>	3.1C 4.4B
FBAD<5>	3.1C 4.4B
FBAD<6>	3.1C 4.4B
FBAD<7>	3.1C 4.4B
FBAD<8>	3.1C 4.4C
FBAD<9>	3.1C 4.4C
FBAD<10>	3.1C 4.4C
FBAD<11>	3.1C 4.4C
FBAD<12>	3.1C 4.4C
FBAD<13>	3.1C 4.4C
FBAD<14>	3.1C 4.4C
FBAD<15>	3.1C 4.4C
FBAD<16>	3.1C 4.4D
FBAD<17>	3.1C 4.4D
FBAD<18>	3.1C 4.4D
FBAD<19>	3.2C 4.4D
FBAD<20>	3.2C 4.4D
FBAD<21>	3.2C 4.4D
FBAD<22>	3.2C 4.4D
FBAD<23>	3.2C 4.4D
FBAD<24>	3.2C 4.4D
FBAD<25>	3.2C 4.4D
FBAD<26>	3.2C 4.4D
FBAD<27>	3.2C 4.4D
FBAD<28>	3.2C 4.4D
FBAD<29>	3.2C 4.4D
FBAD<30>	3.2C 4.4D
FBAD<31>	3.2C 4.4D
FBAD<32>	3.2C 4.4B
FBAD<33>	3.2C 4.4B
FBAD<34>	3.2C 4.4B
FBAD<35>	3.2C 4.5B
FBAD<36>	3.2C 4.5B
FBAD<37>	3.2C 4.5B
FBAD<38>	3.2C 4.5B
FBAD<39>	3.2C 4.5B
FBAD<40>	3.2C 4.4C
FBAD<41>	3.2C 4.4C
FBAD<42>	3.2C 4.4C
FBAD<43>	3.2C 4.5C
FBAD<44>	3.2C 4.5C
FBAD<45>	3.2C 4.5C
FBAD<46>	3.2C 4.5C
FBAD<47>	3.2C 4.5C
FBAD<48>	3.2C 4.4D
FBAD<49>	3.3C 4.4D
FBAD<50>	3.3C 4.4D
FBAD<51>	3.3C 4.5D
FBAD<52>	3.3C 4.5D
FBAD<53>	3.3C 4.5D
FBAD<54>	3.3C 4.5D
FBAD<55>	3.3C 4.5D
FBAD<56>	3.3C 4.4D
FBAD<57>	3.3C 4.4D
FBAD<58>	3.3C 4.4D
FBAD<59>	3.3C 4.5D
FBAD<60>	3.3C 4.5D
FBAD<61>	3.3C 4.5D
FBAD<62>	3.3C 4.5D
FBAD<63>	3.3C 4.5D
FBADQM<0>	3.3C 4.4B
FBADQM<7..0>	3.3B> 4.4A<> 4.5F<>

FBADQM<1>	3.3C 4.4C
FBADQM<2>	3.3C 4.4D
FBADQM<3>	3.3C 4.4D
FBADQM<4>	3.3C 4.5B
FBADQM<5>	3.3C 4.5C
FBADQM<6>	3.3C 4.5D
FBADQM<7>	3.3C 4.5D
FBADQS0	3.3C<> 4.4B 4.4F<>
FBADQS0*	3.4C<> 4.4B 4.4F<>
FBADQS1	3.3C<> 4.4C 4.4F<>
FBADQS1*	3.4C<> 4.4C 4.4F<>
FBADQS2	3.4C<> 4.4D 4.4F<>
FBADQS2*	3.4C<> 4.4D 4.4F<>
FBADQS3	3.4C<> 4.4D 4.4F<>
FBADQS3*	3.4C<> 4.4D 4.4F<>
FBADQS4	3.4C<> 4.4F<> 4.5B
FBADQS4*	3.4C<> 4.4F<> 4.5B
FBADQS5	3.4C<> 4.4F<> 4.5C
FBADQS5*	3.4C<> 4.4F<> 4.5C
FBADQS6	3.4C<> 4.4F<> 4.5D
FBADQS6*	3.4C<> 4.4F<> 4.5D
FBADQS7	3.4C<> 4.4F<> 4.5D
FBADQS7*	3.4C<> 4.4F<> 4.5D
FBAVREF1	4.2B 4.3F<>
FBAVREF2	4.2F 4.3F<>
FBAVREF3	4.2D
FBAVREF4	4.3H
FBA_A<0>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<12..0>	3.3E> 4.4F< 4.1A< 4.1C 4.1E 4.1G
FBA_A<13..0>	4.1A< 4.1C 4.1E 4.1G
FBA_A<1>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<2>	3.3D 4.1A 4.1C
FBA_A<3>	3.3D 4.1A 4.1C
FBA_A<4>	3.3D 4.1A 4.1C
FBA_A<5>	3.3D 4.1A 4.1C
FBA_A<6>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<7>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<8>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<9>	3.3D 4.1A 4.1C 4.1E 4.1G
FBA_A<10>	3.3D 4.1A 4.1C 4.1E 4.2G
FBA_A<11>	3.3D 4.1A 4.1C 4.1E 4.2G
FBA_A<12>	3.3D 4.1A 4.1C 4.1E 4.2G
FBA_BA0	3.3E> 4.2A< 4.2C 4.2E 4.2G 4.4F<
FBA_BA1	3.3E> 4.2A< 4.2C 4.2E 4.2G 4.4F<
FBA_BA2	3.3E> 4.2A< 4.2C 4.2E 4.2G 4.4F<
FBA_CAS*	3.3E> 4.1A< 4.1C 4.1E 4.1G 4.5F<
FBA_CKE	3.3E> 4.2A< 4.2C 4.2E 4.2G 4.3G 4.4F<
FBA_CLK0	3.3G 3.4E> 4.2A< 4.2C 4.4F<
FBA_CLK0*	3.3H 3.4E> 4.2A< 4.2C 4.4F<
FBA_CLK1	3.4E> 3.4G 4.2E< 4.2G 4.4F<
FBA_CLK1*	3.4E> 3.4H 4.2E< 4.2G 4.4F<
FBA_CS0*	3.3E> 4.1A< 4.1C 4.1E 4.1G 4.5F<
FBA_CS1*	4.5F<
FBA_DEBUG	3.4D 4.5F<
FBA_ODT	3.4F> 4.2A< 4.2C 4.2E 4.2G< 4.5F<
FBA_ODT_GPU	3.3D 4.5F<
FBA_RAS*	3.3E> 4.1A< 4.1C 4.1E 4.1G 4.5F<
FBA_WE*	3.3E> 4.1A< 4.1C 4.1E 4.1G 4.5F<
FBB_A<2>	3.3D 4.1E 4.1G
FBB_A<5..2>	3.3E> 4.1E< 4.1G 4.4F<
FBB_A<3>	3.3D 4.1E 4.1G
FBB_A<4>	3.3D 4.1E 4.1G
FBB_A<5>	3.3D 4.1E 4.1G
FBCAL_PD	3.4D
FBCAL_PU	3.4D
FBCAL_TERM	3.4D
FB_BOOT	13.4C
FB_BOOTC	13.4D
FB_COMP	13.5C
FB_COMP1	13.4C
FB_COMP2	13.4F
FB_DH	13.3D

FB_DL	13.4D
FB_FB	13.4D
FB_FCCM	13.4C
FB_FSET	13.4B
FB_ISEN	13.4C
FB_PHASE	13.4D
FB_PLLAVDD	3.4D
FB_PWRGOOD	7.2A< 13.2A 13.4A>
FB_SNUBBER	13.4E
FB_VCC	7.1A< 13.4B>
GPIO0_DVI_A_HPD	9.3D
GPIO1_DVI_B_HPD	9.3D
GPIO2_BL_PWM	8.4A< 9.3F>
GPIO3_PPEN	8.3A< 9.3F>
GPIO3_PPEN_GPU	9.3D
GPIO4_BLEN	8.3A< 9.3F>
GPIO4_BLEN_GPU	9.3D
GPIO5_NVVDDCTL0	9.3F> 12.4A<
GPIO6_NVVDDCTL1	9.3F> 12.4A<
GPIO8_THERM_ALERT*	9.3D
GPIO9_LVDS_SYS*	7.2A< 9.3F>
GPIO12_AC_DET	9.3D
I2CA_SCL	6.1D
I2CA_SCL_R	6.1H> 8.3A<
I2CA_SDA	6.1D
I2CA_SDA_R	6.1H<> 8.3A<>
I2CB_SCL	6.3D
I2CB_SCL_R	6.3H> 8.2A<
I2CB_SDA	6.3D
I2CB_SDA_R	6.3H<> 8.2A<>
I2CC_SCL	9.3D
I2CC_SCL_R	8.4A< 9.2A< 9.3H> 11.2B<
I2CC_SDA	9.3D
I2CC_SDA_R	8.4A<> 9.2A<> 9.3H<> 11.2B<>
I2CH_SCL	10.4C
I2CH_SDA	10.4C
I2CS_SCL	9.4C
I2CS_SDA	9.4C
IFPABPLLVDD	7.2E
IFPABRSET	7.2E
IFPABVPROBE	7.2E
IFPAIOVDD	7.2E
IFPATXC	7.3H> 8.4G<
IFPATXC*	7.3H> 8.4G<
IFPATXD0	7.2H> 8.4G<
IFPATXD0*	7.2H> 8.4G<
IFPATXD1	7.2H> 8.4G<
IFPATXD1*	7.2H> 8.4G<
IFPATXD2	7.2H> 8.4G<
IFPATXD2*	7.2H> 8.4G<
IFPATXD3	7.2H> 8.4G<
IFPATXD3*	7.2H> 8.4G<
IFPBTXC	7.3H> 8.4G<
IFPBTXC*	7.3H> 8.4G<
IFPBTXD4	7.2H> 8.3G<
IFPBTXD4*	7.2H> 8.3G<
IFPBTXD5	7.2H> 8.4G<
IFPBTXD5*	7.2H> 8.4G<
IFPBTXD6	7.3H> 8.4G<
IFPBTXD6*	7.2H> 8.4G<
IFPBTXD7	7.3H> 8.4G<
IFPBTXD7*	7.3H> 8.4G<
IFPCBRSET	7.4E
IFPCPLLVDD	7.4E
IFPCTXC	7.4H> 8.2G<
IFPCTXC*	7.4H> 8.2G<
IFPCTXD0	7.3H> 8.2G<
IFPCTXD0*	7.3H> 8.2G<
IFPCTXD1	7.4H> 8.2G<
IFPCTXD1*	7.4H> 8.2G<
IFPCTXD2	7.4H> 8.2G<
IFPCTXD2*	7.4H> 8.2G<
IFPCVPROBE	7.3E
IFPC_IOVDD	7.4E
JTAG_TCLK	9.3C
JTAG_TCLK_C	8.3G< 9.3A<
JTAG_TDI	9.3C
JTAG_TDI_C	8.3G> 9.3A<
JTAG_TDO	9.3C
JTAG_TDO_C	8.3G< 9.3A>
JTAG_TMS	9.3C
JTAG_TMS_C	8.3G< 9.3A<
JTAG_TRST	9.3C
JTAG_TRST_C	8.3G< 9.3A<
LVDSIOVDD_ISOL	7.2B
MIOAD<6>	11.4E< 14.3A> 14.3C
MIOAD<8>	11.4E< 14.3A> 14.3C
MIOAD<9>	11.4E< 14.3A> 14.3C
MIOB_CLKIN	10.2C
MIOB_HSYNC	10.2D> 14.3A> 14.3C
M_GPIO8_SLOWDOWN*	9.2D
M_THERM_ALERT*	9.2D
NVCTL0_R	12.4C
NVCTL1_R	12.4C

NVVDD	2.4F 12.2F
NVVDDCTL0	12.4C
NVVDDCTL1	12.4C
NV_BOOT	12.2C
NV_BOOTC	12.2C
NV_COMP	12.3B
NV_COMP1	12.3B
NV_COMP2	12.3D
NV_DH	12.2C
NV_DL	12.2C
NV_FB	12.4D
NV_FCCM	12.2B
NV_FSET	12.3B
NV_ISEN	12.2C
NV_PHASE	12.2C
NV_PWRGOOD	9.2F< 12.2A> 13.4A<
NV_SNUBBER	12.3E
NV_VCC	12.2B
PCI_DEVID3	10.1D> 14.2A> 14.2C
PCI_DEVID4	10.2D> 14.2A> 14.3C
PEX1V2_FB	13.2C
PEX_CLK_CFG	11.4E< 14.3A> 14.3C
PEX_PLL_DVDD	2.4G
PEX_PLL_EN	11.3E< 14.3A> 14.3C
PEX_RST	2.2D
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
PEX_RX8*	2.4E
PEX_RX9	2.4E
PEX_RX9*	2.4E
PEX_RX10	2.4E
PEX_RX10*	2.4E
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
PEX_TSTCLK	2.2E
PEX_TSTCLK*	2.2E
PEX_TX0	2.2E
PEX_TX0*	2.2E
PEX_TX0_C	2.2C
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RAMCFG3	10.1D> 14.2A> 14.2C
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ROMCS*	10.3C 10.3E
ROM_SCLK	10.4C 10.4E
ROM_SI	10.4C 10.4E
ROM_SO	10.4C 10.4E
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RUNPWROK_IN	8.4B
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SNN_A2_M2	4.2C
SNN_A2_M3	4.2E
SNN_A2_M4	4.2G
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SNN_DACB_CSYNC	6.3D
SNN_DACB_HSYNC	6.3D
SNN_DACB_VSYNC	6.3D
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SNN_DVI_B_CLK*	8.3E
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SNN_DVI_B_TX0*	8.2E
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SNN_DVI_B_TX1*	8.2E
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SNN_DVI_B_TX2*	8.2E
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SNN_E2_M2	4.2C
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THERM_SDA	9.2C
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TMDSIOVDD_C_EN*	7.4B
TMDS_LVDS_IOVDD	7.2C
XTALIN	6.4C
XTALOUT	6.4D
XTALOUTBUFF	6.4F> 11.2B<

ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
PAGE DETAIL	<edit here to insert page detail>

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

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ID	p584	PAGE	15 OF 16
NAME	Joe Kwon	DATE	14-DEC-2006

Title: Cref Part
Report
Design: p419
Date: Dec 12
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ASSEMBLY	G86M ?/? 256MB(64bit) DDR2 16Mx16 84FBGA, LVDS + DVI_A/DVI_B + TV_OUT + VGA
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2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

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NAME	Joe Kwon	DATE	14-DEC-2006