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

Ver. 0A

Page 1: P681-A01 OVERVIEW Page 2: PCI-EXPRESS INTERFACE Page 3: PARTITION A FRAME BUFFER INTERFACE Page 4: PARTITION A MEMORIES Page 5: FBA DECOUPLING CAPS & NVVDD DECOUPLING CAPS Page 6: PARTITION C FRAME BUFFER INTERFACE Page 7: PARTITION C MEMORIES Page 8: FBC DECOUPLING CAPS Page 9: DACA (SOUTH DVI-I) Page 10: DACB (MID VGA) Page 11: IFP AB (SOUTH DVI-I) Page 12: IFP C (NORTH HDMI) Page 13: IFP D (UNUSED) Page 14: IFP EF (UNUSED) Page 15: MIOA & MIOB

Page 16: XTAL, MECHANICALS, THERMALS Page 17: EXTERNAL THERMAL SENSOR, FAN CONTROL, GPIO, JTAG $^{05/11}$ Page 18: BIOS ROM, HDCP ROM, STRAPPING OPTIONS Page 19: LINEAR POWER SUPPLIES

Page 20: FBVDDQ/PEXVDD POWER SUPPLY Page 21: NVVDD POWER SUPPLY

Page 01 1.Remove C690,C70 47uF Page 10 1.Remove J1 D-Sub Page 11 1.Remove R16.Q2 Page 12 1.Remove R1,Q1 Page 16 1.Change Crystal Footprint to 2-PIN SMD 2.Remove C71 47uF 05/08 Page 17 1.Remove Thermal Sensor Circuit Page 18 1.Remove U2,C54,R31,R30,D16 INFOROM circuit Page 19 1.Remove 3V3 to 1.8V circuit 2.Change 5V REGULATOR Circuit Page 20 1.Change L8 Footprint to 1.6uH 2. Change Footprint to multi cap for EL 1500uF Page 21 1.Change NVVDD to UP6161 2.Change L12 footprint to 1.2uH

Page 05 1. Remove Decoupling for EMI cap Page 20 1. C84 change Footprint to multi cap

Page 21 1.Add C39 270uF 2.Add R922,R924 for APW7068 OCSET Page 16 1.Add XTALIN R566 Risister Add XTALOUT R573 Risister Page 02 1.Change C51 to 0805 1UF and ADD C54 0805 1UF Page 03 1.C642,C666,C633 change to .01UF Page 05 1.Remove C516.C525.C549.C556.C541.C512

Remove C513,C546,C540,C528,C547,C507 Remove C544, C545, C520, C523, C532, C508 Remove C535, C526, C543, C553, C537, C88 Page 08 1.Remove C566,C567,C576,C578,C82,C564 Remove C619.C592.C586.C585.C622.C574 Remove C705, C706, C680, C729, C691, C683 Remove C742, C738, C731, C725, C743, C728

Page 20 1.Remove C86,C562,C563,C87

Page 17 1.Remove 4-PIN FAN Circuit Page 12 1.Change Q509 to Q513,Q514 SOT23 footprint

Page 16 1.Change FAN Screw hole Page 20 1.Add C102 820uF

05/14

Page 21 1.Remove D94 scottky diode

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Page 11 1.Add EMI bridge Page 12 2.Add EMI bridge

Page 03 1.Add RP24 termination risister Page 06 2.Add RP23 termination risister

05/26

SWAP CMD

Page 03/06 RP5.1 , RP5.2 FBC_CMD10 , RP5.3 , RP5.4 FBC CMD22 RP4.1 , RP4.2 FBC_CMD18 , RP4.3 , RP4.4 FBC_CMD7 RP24.1, RP24.2 FBA CMD30, RP24.3, RP24.4 FBA CMD7 RP20.1, RP20.2 FBA CMD14, RP20.3, RP20.4 FBA CMD18

RP14.1, RP14.2 FBA_CMD1, RP14.3, RP14.4 FBA_CMD20 RP12.3, RP12.4 FBA CMD29

Page 05 1. Add Decoupling for EMI cap C80,C524,C517,C102

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Page 02 1.Remove JTAG Circuit

Page 09 1.Remove EMI filter, protection diode, C780, C775, C779

Page 10 1.Remove EMI filter,protection diode,C771,C772,C773

Page 12 1.IFP_PLLVDD change netname to 3V3 Page 15 1.Remove R545,C664,R554 of MIOA

Page 17 1.Remove JTAG Circuit

2.Remove FAN PWM Circuit

Page 18 1.Remove HDCP EEROM

Page 19 1.Remove U4 UP7703 Circuit

2.Change 5V Circuit SOT223-->SOT252

Page 20 1.Remove C86,C105,C90

2.Add R917 LMOS Gate risister

3.Add L10

4.Add L9.LB23.LB24

5.Add EL 680UF FootPrint

Page 21 1.Add L13

2.Remove APW7068 OCSET

3.Add GPIO 5,6 Circuit

4.Remove C927,C931

Page 21 1.Remove C933.C30.C31.C38 2.Change C39 FootPrint for 470uF

3.NVVDD Power Sequencing and PWM power change to 12V from 12V_F

NVIDIA CORPORATION

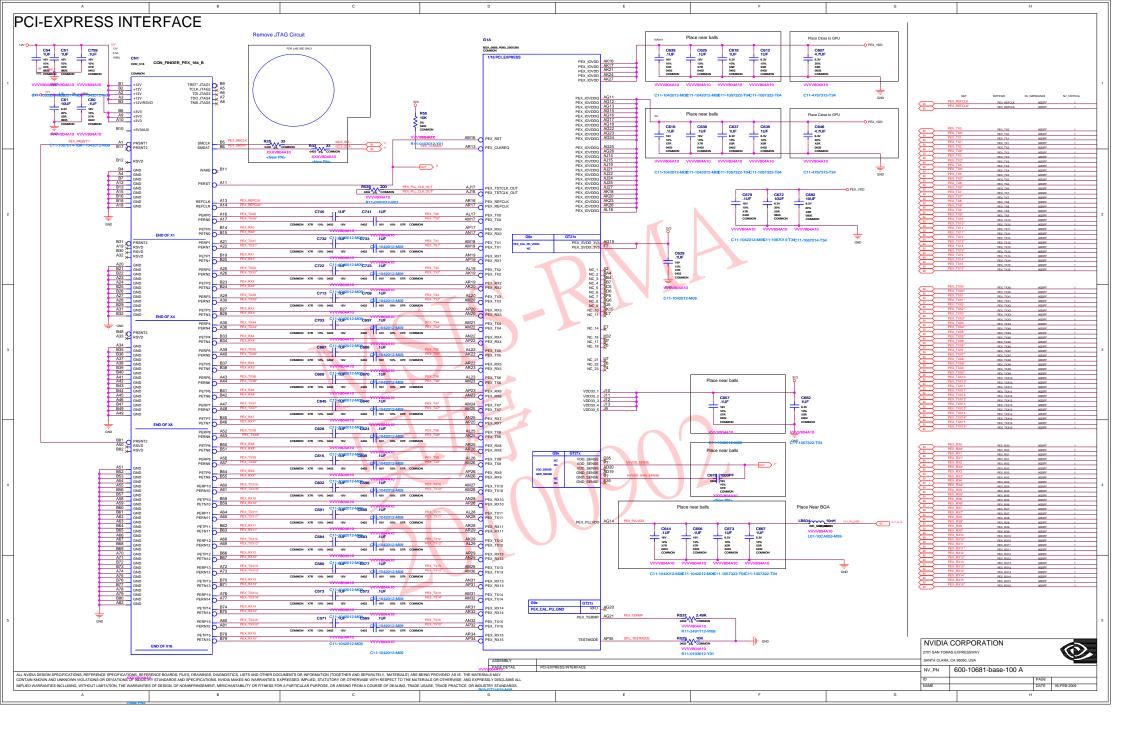
Page 20 1.Add C86,C87,R26

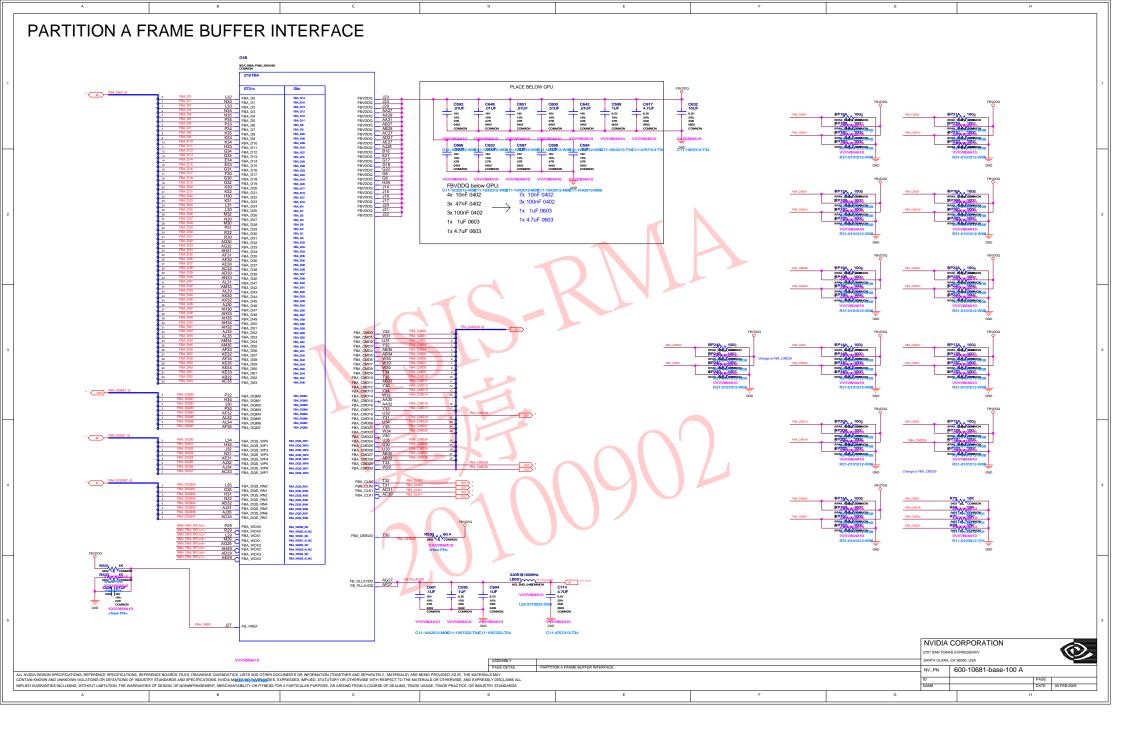
2.Remove C557

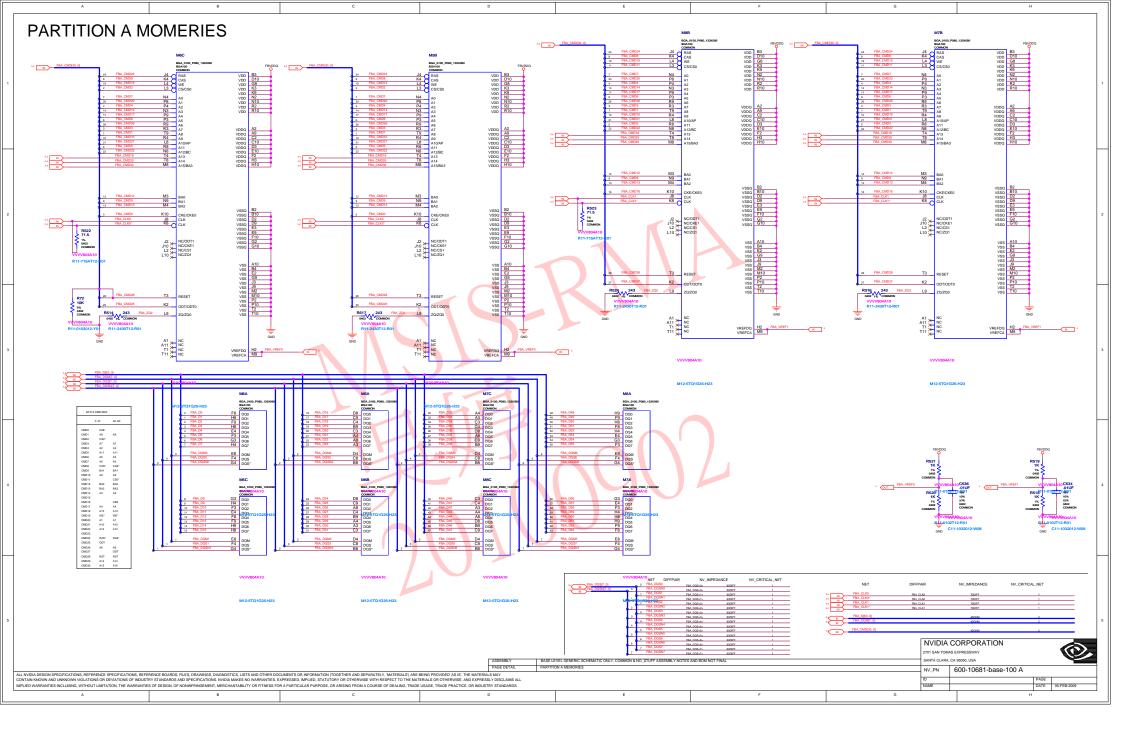
3. Power Sequencing and PWM power change to 12V from 12V_F

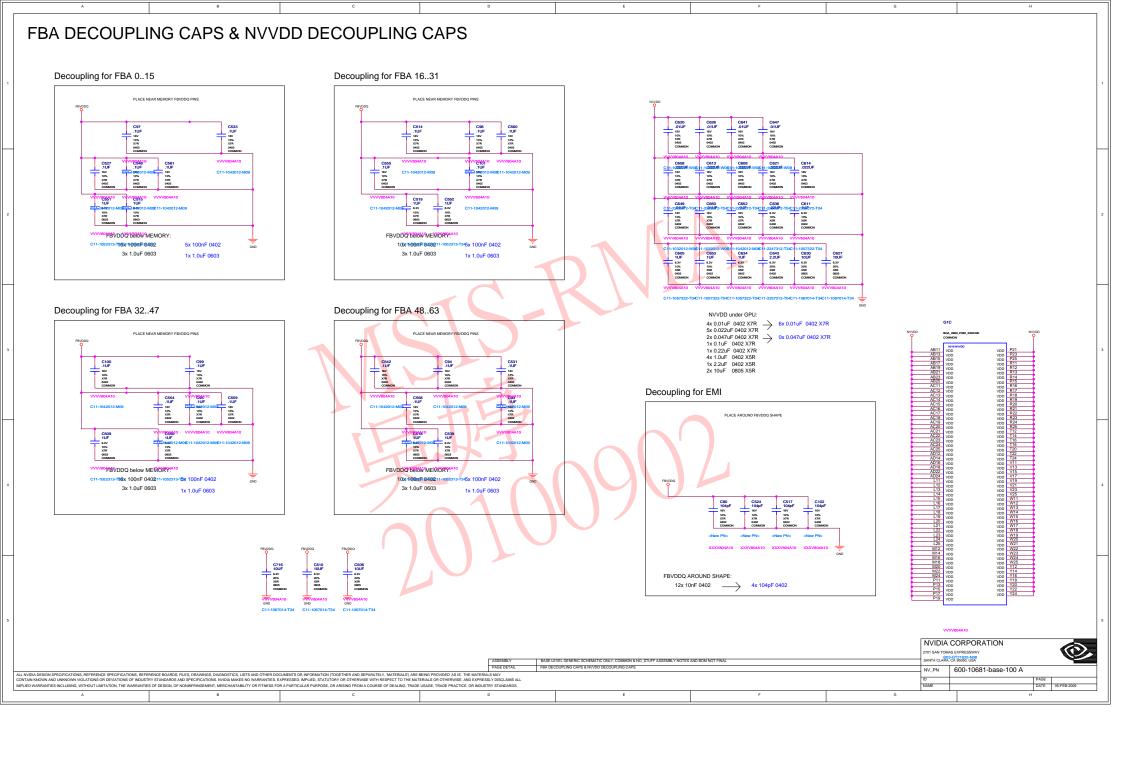
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1	SKU0001	600-10681-0001-100	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 800MHz DDR3 DVI-I/VGA/HDMI
2	SKU0002	600-10681-0002-100.	GT216-300 600/1500MHz 1024MB 64Mx16 BGA100 1000MHz DDR3 DVI-I/VGA/HDMI
3	SKU0011	600-10681-0011-100	GT215-300 600/1500MHz 1024MB 64Mx16 BGA100 900MHz DDR3 DVI-I/VGA/HDMI
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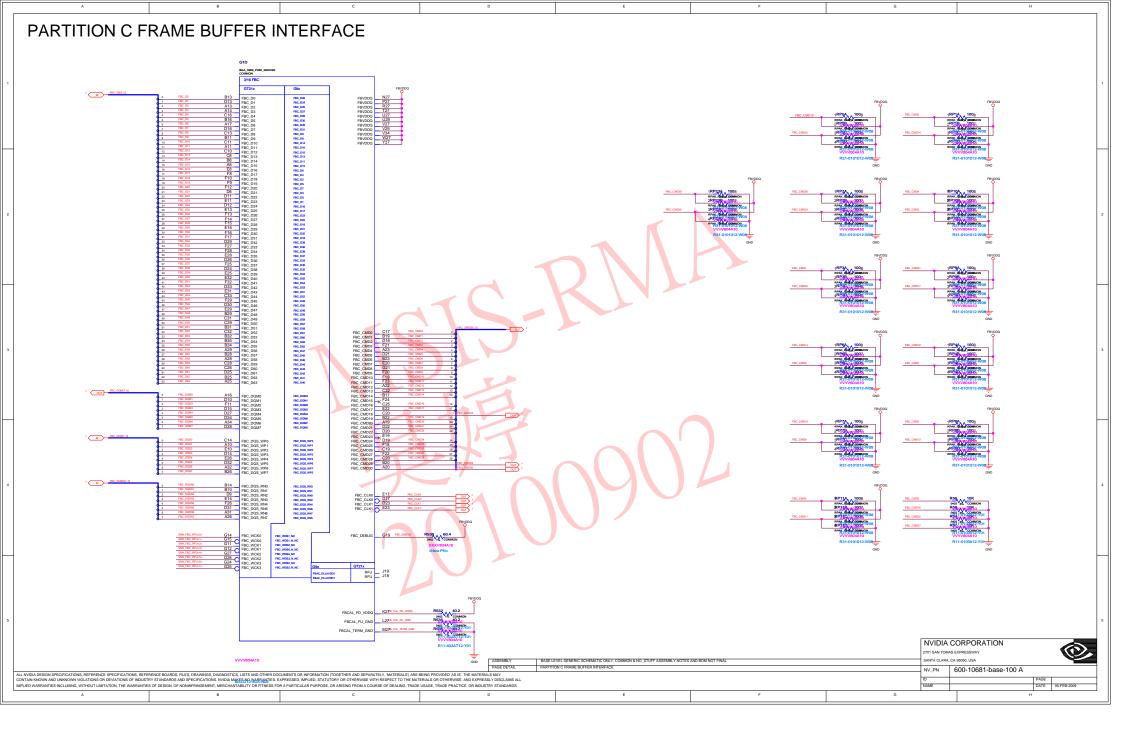
701 SAN TOMAS EXPRESSWA DASE LEVEL GENERAL SCHEMATIC ONLY COMMON & MO. STILES ASSEMBLY MOTES AND BOM NOT FIN ANTA CLARA, CA 95050, USA 600-10681-base-100 A NV_PN ALL INFOLD SEIGN SPECIPICATIONS, REFERENCE SPECIFICATIONS, REFERENCE SOURCE, FLES, DRAWNSS, DUGNOSTICS, LISTS AND OTHER DOCUMENTS OR INCROMATION (TOCETHER AND SEPARATELY, MATERIALS) ARE EIRN PROVIDED AS IS THE MATERIALS MAY CONTAIN INCOMINA DU LINDONIN VIOLATIONS OR DEVIATIONS OF ROUTSTRY STANDARDS AND SPECIFICATIONS, INVIDENTIAL SHAPE AND ADDRESS OF THE STANDARDS. AMPLIED WARRANTES NOLLDING, WITHOUT LIMITATION, THE WARRANTES OF DESIGN, OF NONINFRINGEMENT, INEGHANTABILITY OR PRITESS FOR A PRITICILAR PROPOSE, OR ARBINING FROM A COURSE OF DEALMS, TRADE FUNCTION, OR THOUGHT STANDARDS.

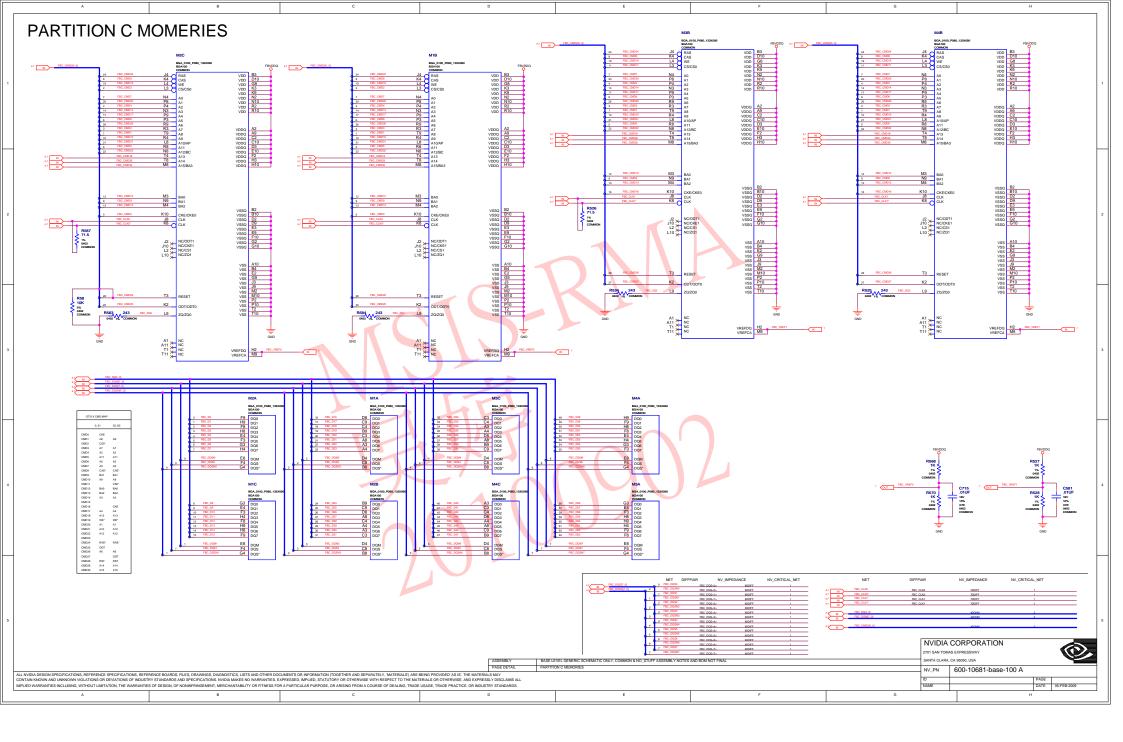


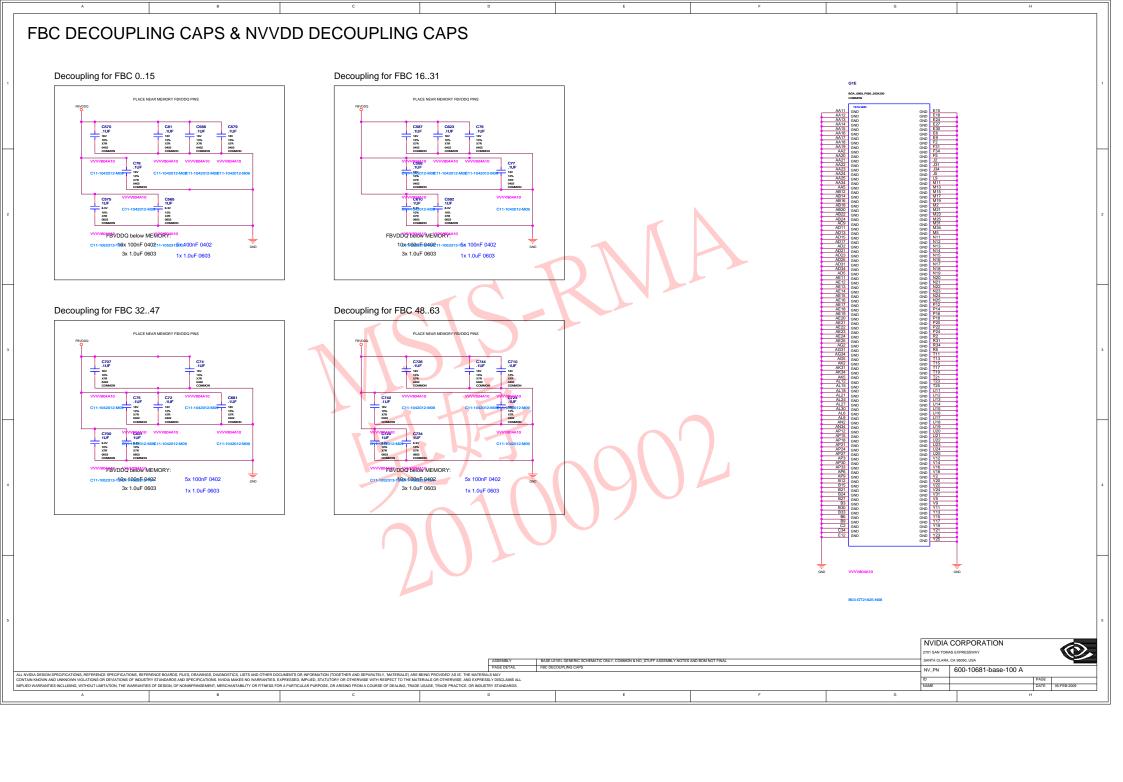


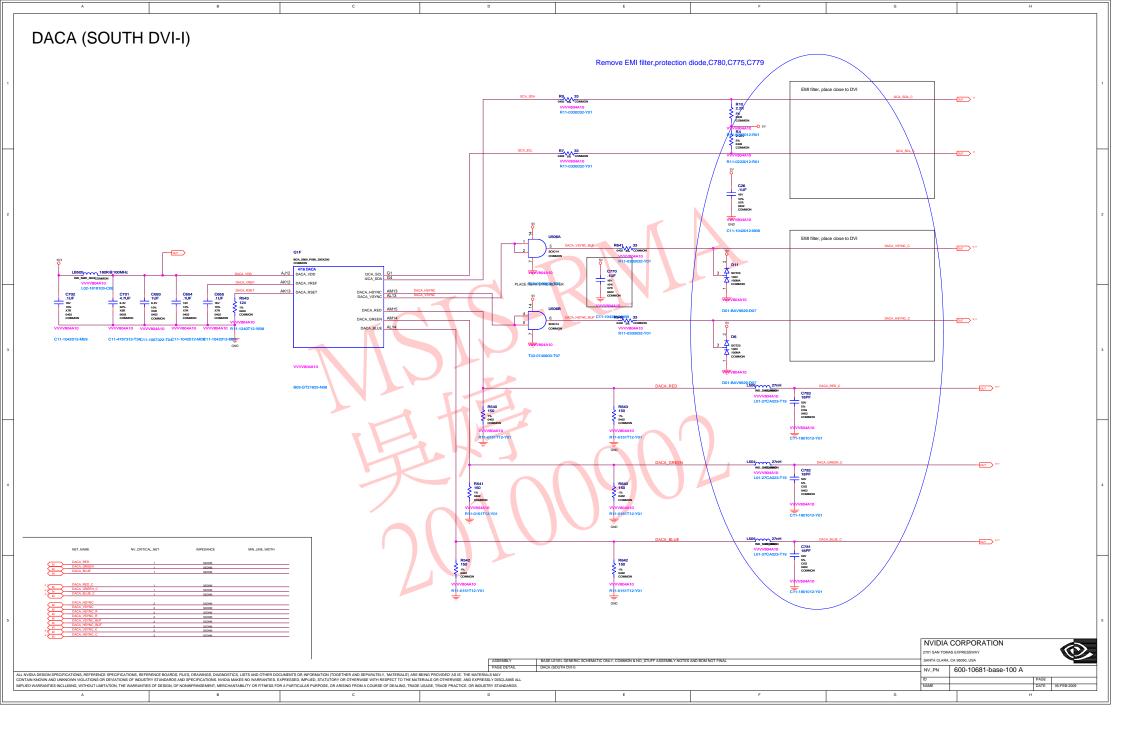


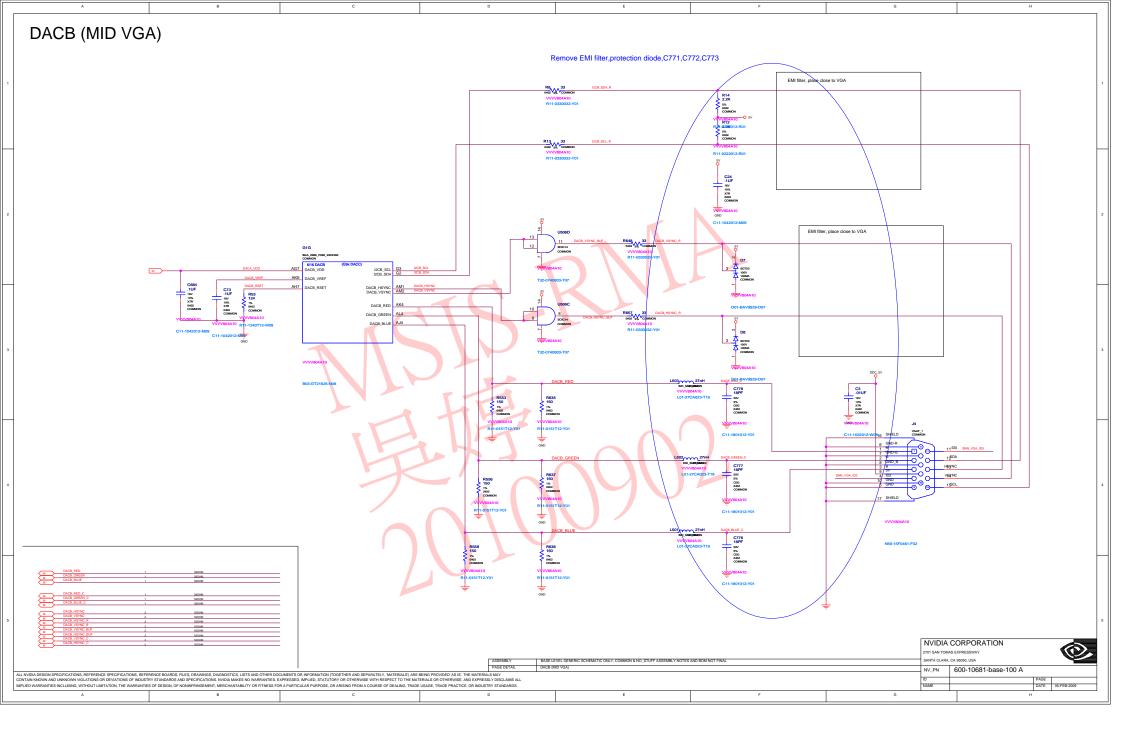


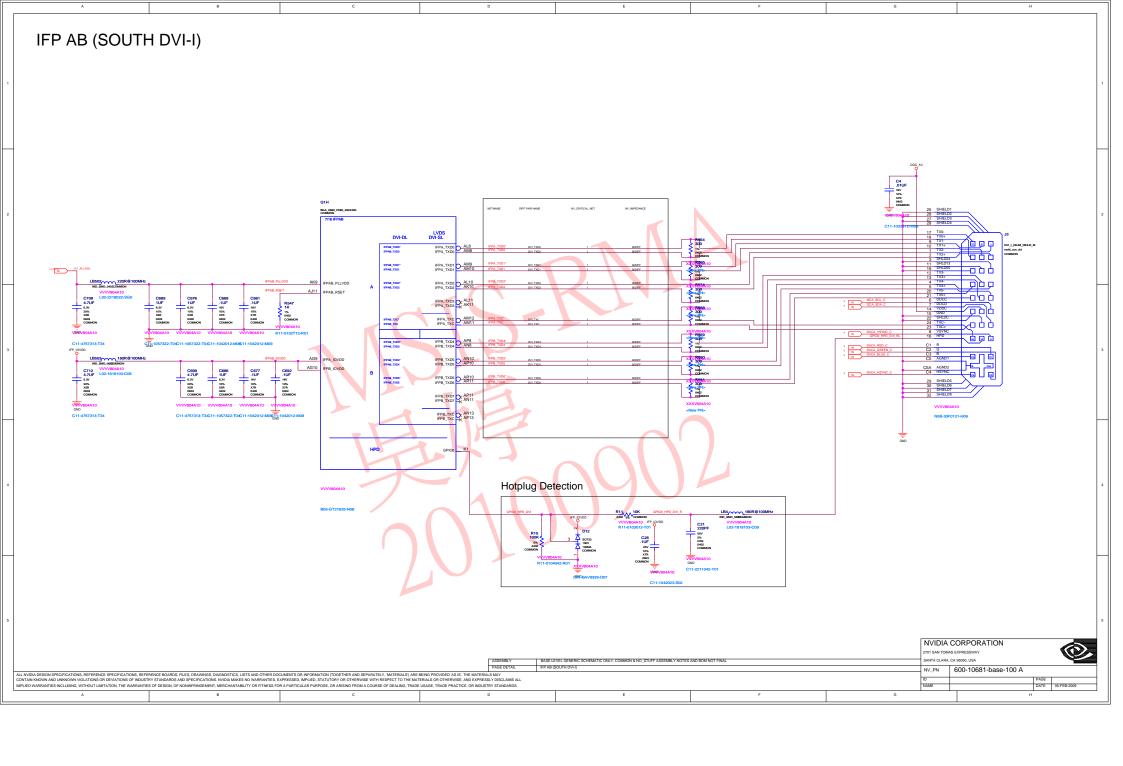


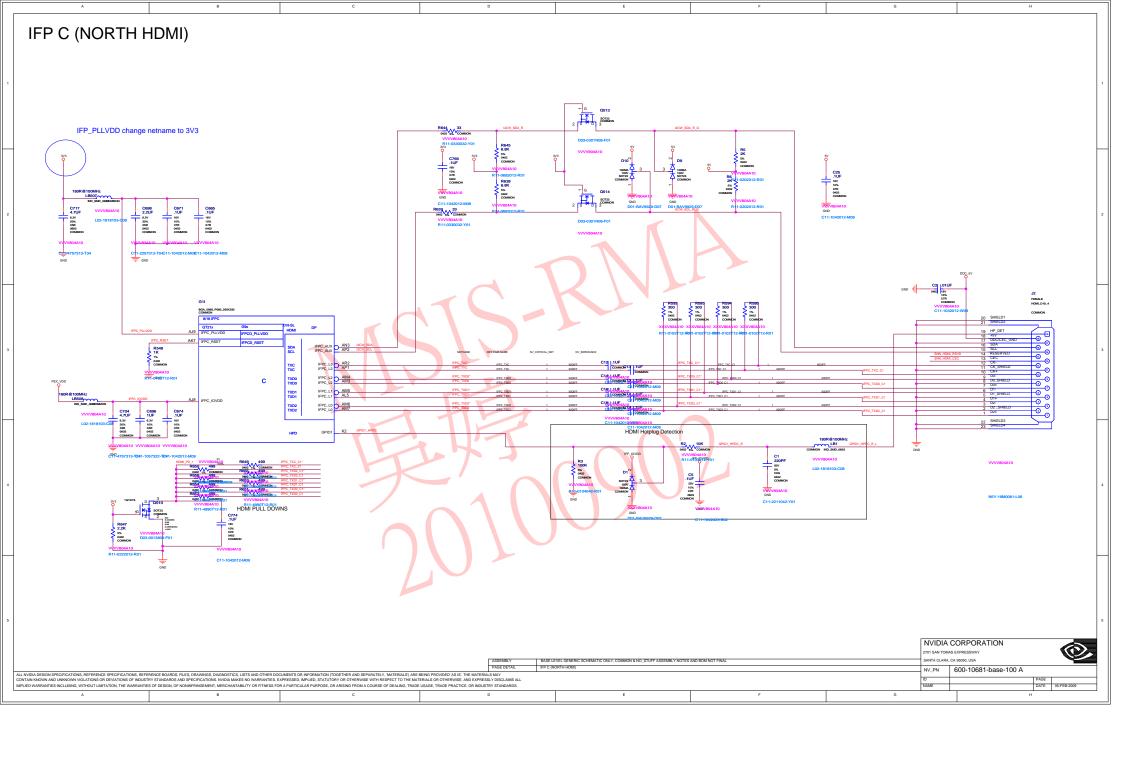


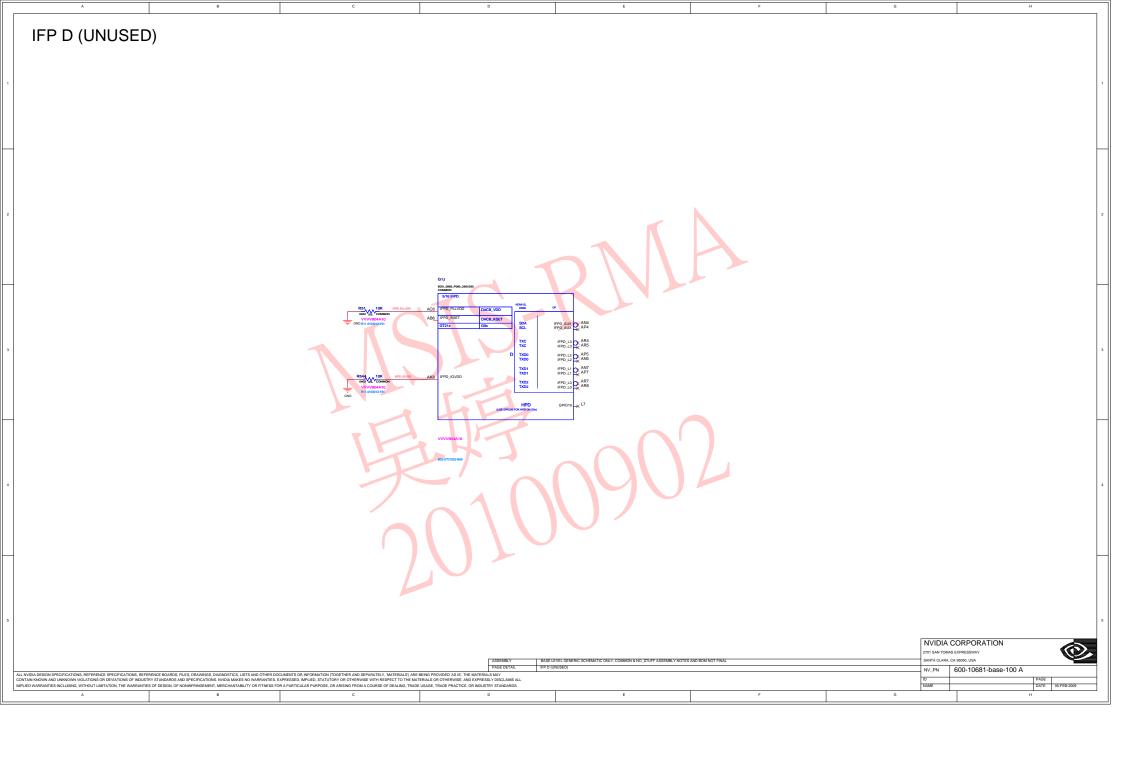


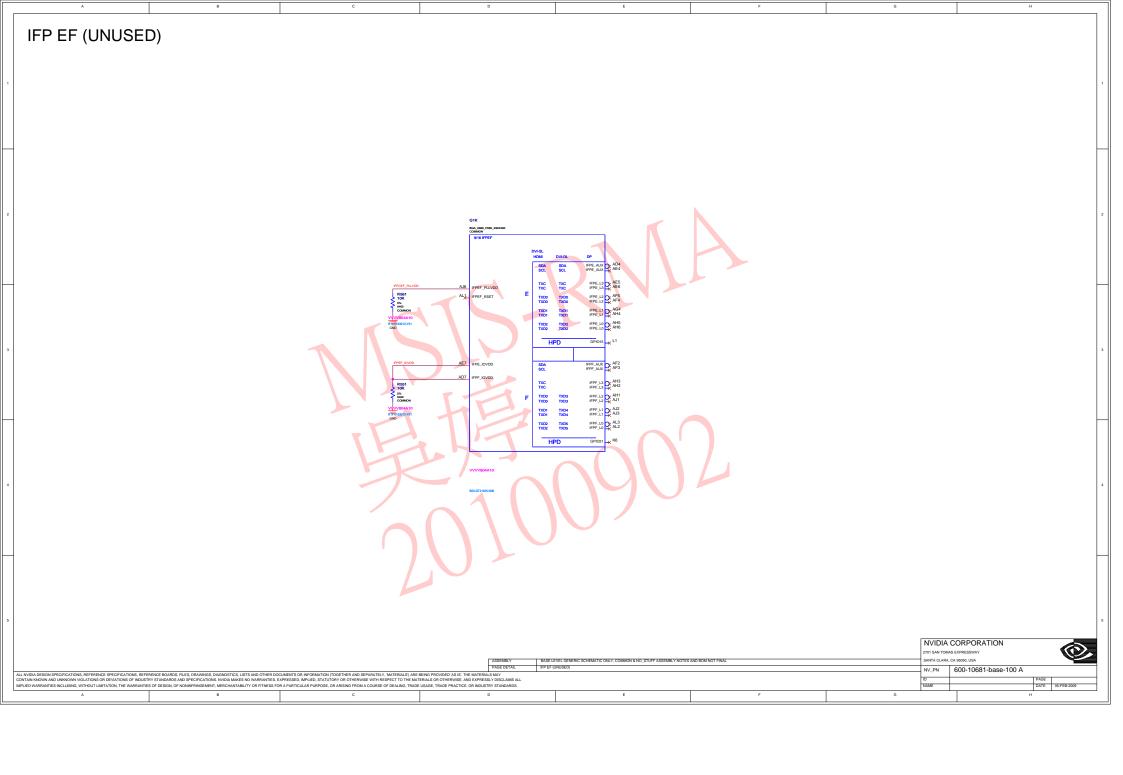


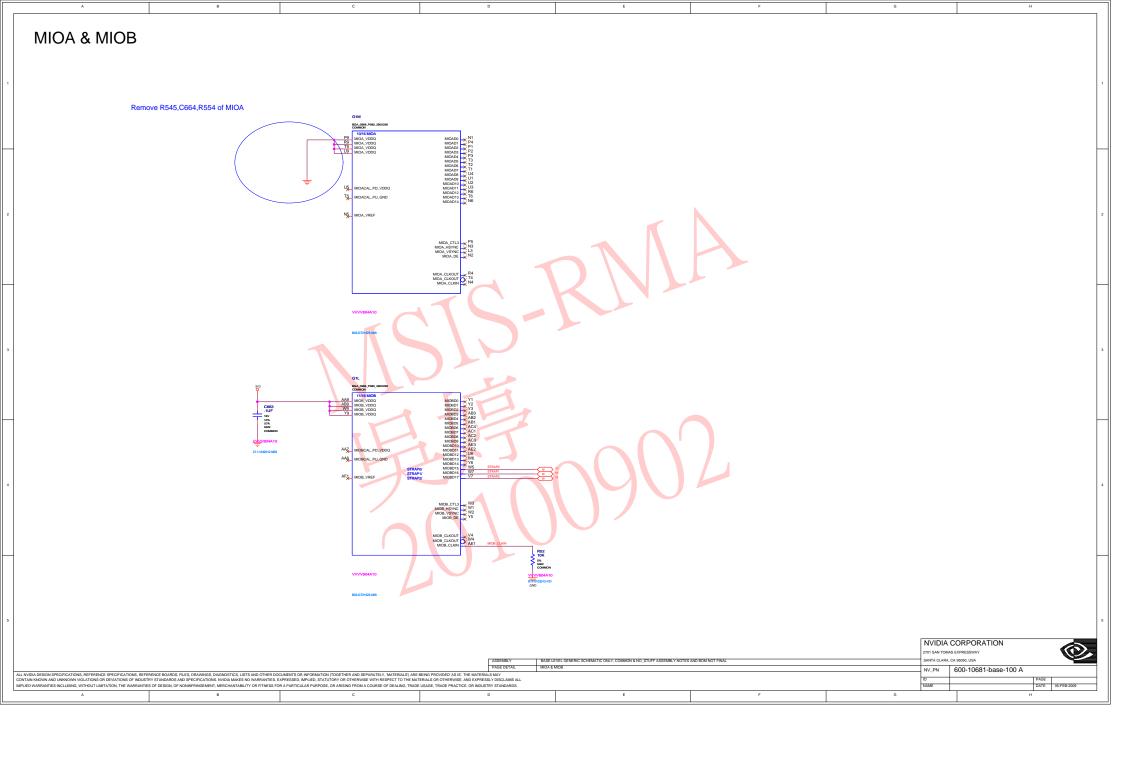


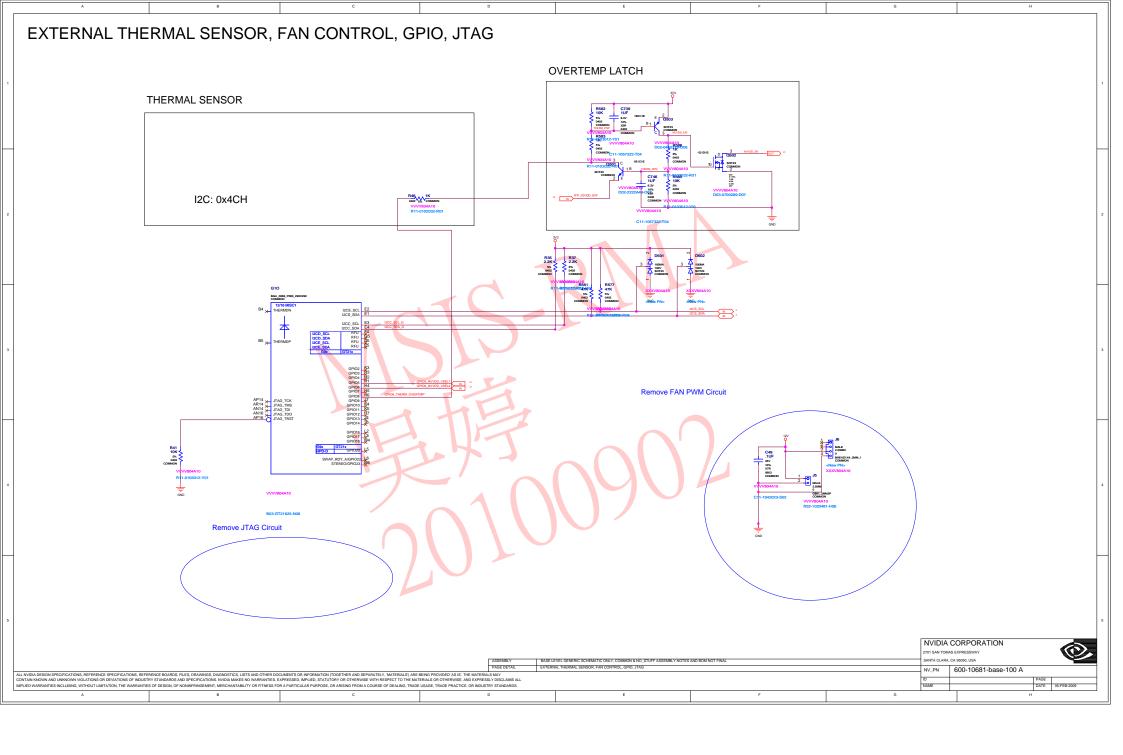


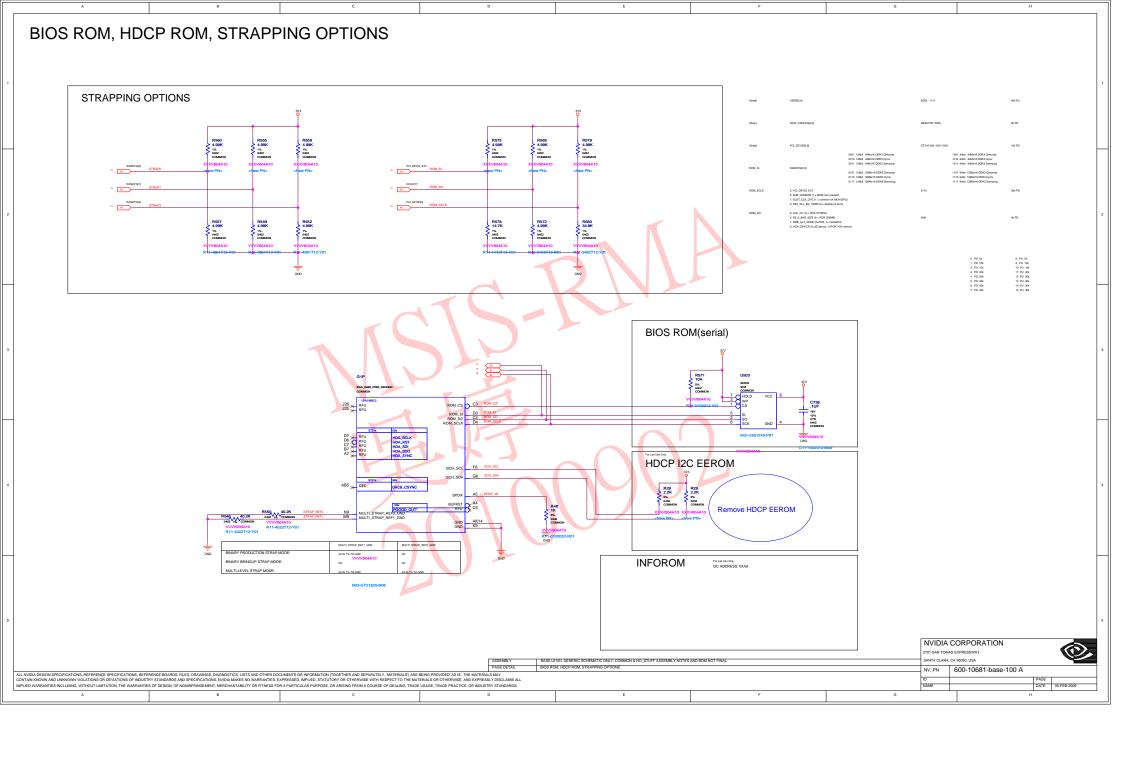


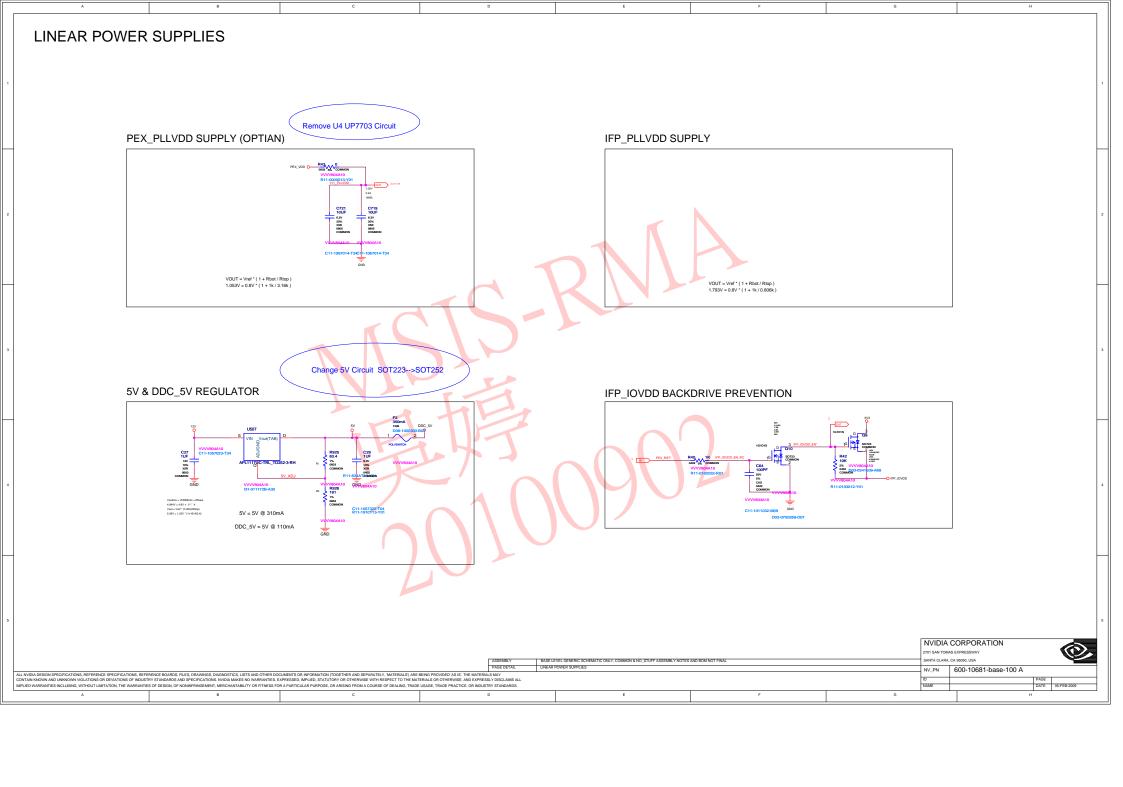


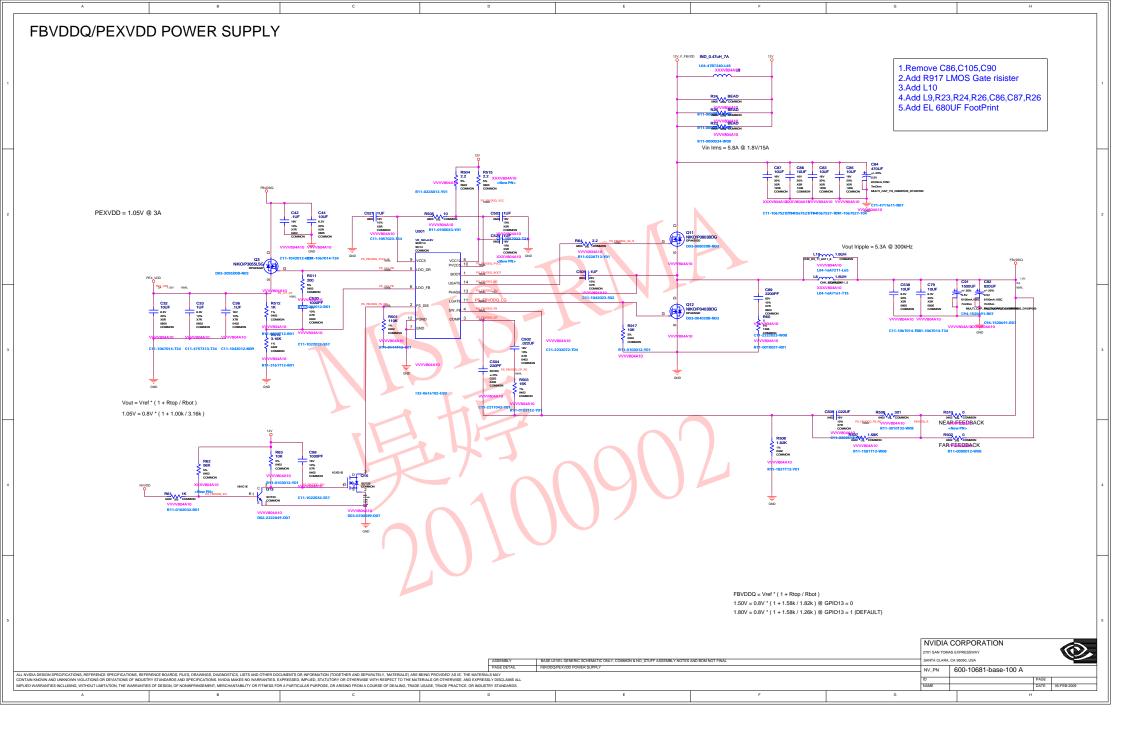


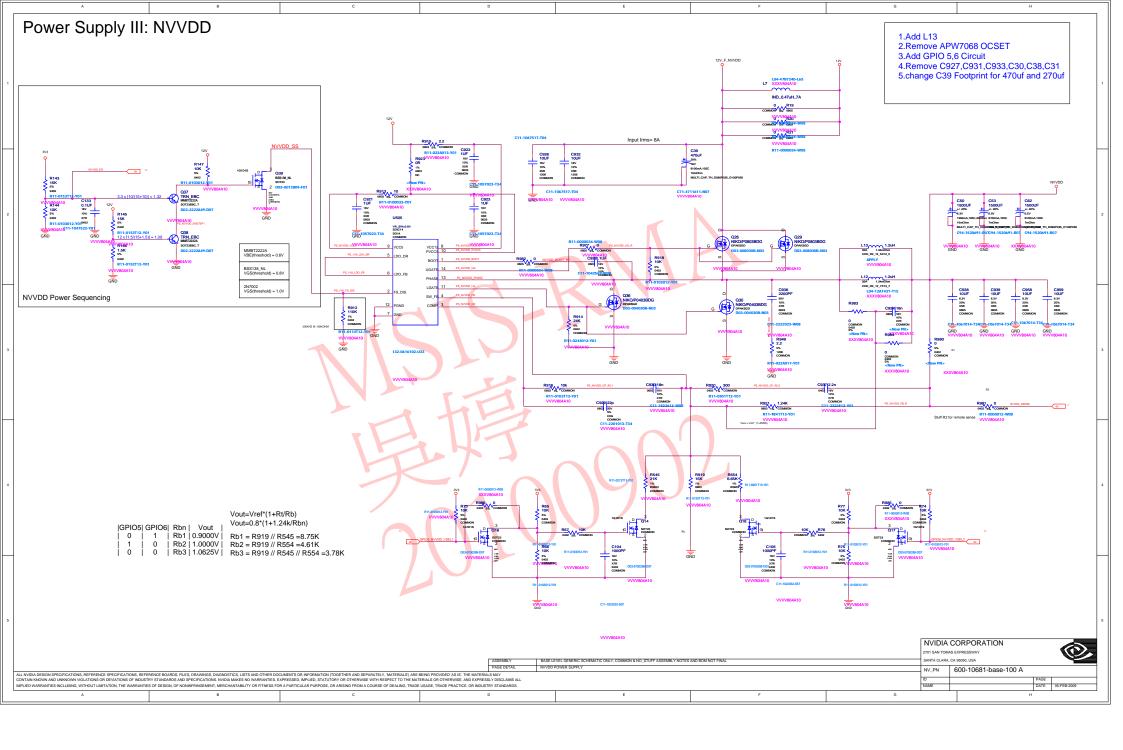










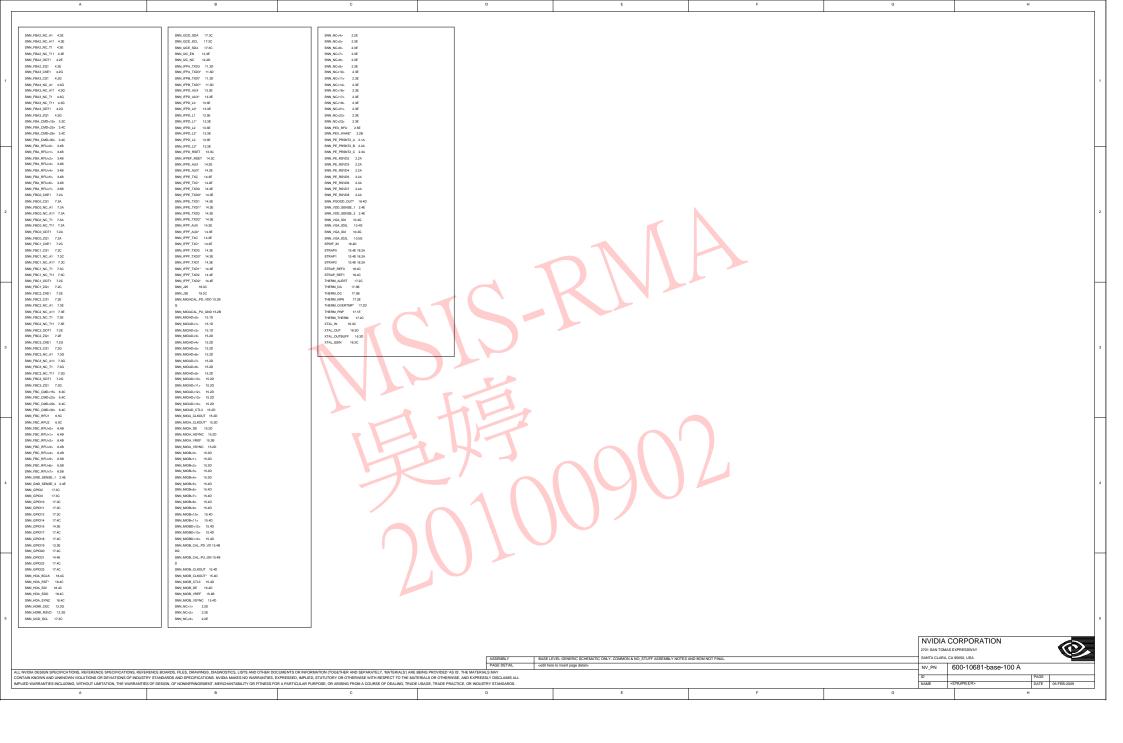


Tals: Basenet Report Dusign: p611 Date: Jin 27 1.35 6/2 2009 Base nets and synonym for person, Jan 24 (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FBA_CMD-21> 3.20.3.40.4.14.41C 4.1E.4.1G FBA_CMD-22> 3.40.3.4F.4.1E.4.1G 4.34.4.20	FBA_DOSN4-0- 3.46 4.48 4.5E FBA_DOSN4-7.6- 3.46 4.34 4.5E FBA_DOSN4-1- 3.46 4.46 4.5E FBA_DOSN4-2- 3.46 4.45 4.5E	FBC_D<25> 6.28 7.4C FBC_D<28> 6.28 7.4C FBC_D<27> 6.28 7.4C	GPI00_FAN_PVM_Q_L 17.4G GPI00_FAN_PVM_R 17.9F GPI013_FBVDDQ_VSEL 17.4D 20.4D	N/VDD_GND_SENSE_R 21.28 21.4C N/VDD_J0F8 21.2C N/VDD_MODE 21.2C	PEX_TXXX 22823G PEX_TXXX 22823G PEX_TXXX 22823G	
Date: Jan 22 13:35:02 2009 Base nets and synonyms for p851 (ib.p861 (ib.p861 (sch_1))	FBA_CMD-22> 3.4C 3.4F 4.1E 4.1G 4.2A 4.2C	FBA_DQSN<1> 3.48 4.48 4.5E	FBC_D<27> 628 7.4C				
Base nets and synonyms for p681_lib.P681(@p681_lib.p681(ach_1))	4.2A 4.2C	FOU DOOM A . A PLAN AND					
p681_lib.P681(@p681_lib.p681(sch_1))			FBC_D<28> 62B 7.4C	GPIO16_FAN_PWM 17.4C	NVVDD_MODE_Q 21.1B	PEX_TXX1* 2.28 2.30	
p881_sb.#681(6(p681_lib.p681(sch_1))	FBA_CMD<24> 3.3F 3.4C 4.1A 4.1C	FBA_DQSN<3> 3.4B 4.4C 4.5E	FBC_D<20> 628 7.4C	GPU_PLLVDD 16:3B	NV/DD_MODE_R 212B	PEX_TXX2	
Base Signal Location([Zone][dirl)	4.1E 4.1G FBA_CND-255 3.4C 3.4G 4.3A 4.3C	FBA_DQSNo4o 3.48 4.4D 4.5E FBA_DQSNc5o 3.48 4.4D 4.5E	FBC_D<30> 6.28.7.4C FBC_D<31> 6.28.7.4C	GPU_TESTMODE 2.5E HDM_PD_1 12.48	NVVDD_REFIN 21.3C NVVDD_RSET 21.9C	PEX_TXX2*	
	FBA_CMD<285 3.2F 3.4C 4.1A 4.1C	FBA_DQSNx8> 3.48 4.4E 4.5E	FBC_D<32> 628 7.3D	12CA_SCL 9.2C 9.2D	NV/DD_SENSE 2.4F.21.4D	PEX_TXX3* 23823G	
V1_ADJ 19.28	4.1E 4.1G	FBA_DQSN<7> 3.48 4.4E 4.5E	FBC_D<33> 62B 7.4D	I2CA_SCL_C 9.2H 11.3G	NVVDD_SENSE_R 21.4E	PEX_TXX4	
V1_PLLVDD 24G3:5E 11:2A 16:3A 19:2C	FBA_CMD<27> 3.4C 3.4G 4.2E 4.2G FBA_CMD<28> 3.4C 4.2E 4.2G 4.3A	FBA_VREF 3.5B FBA_VREF0 4.3C 4.3E 4.4G	FBC_D<34> 6.28 7.4D FBC_D<35> 6.28 7.4D	12CA_SCL_T 9.2F 12CA_SDA 9.1D.9.2C	NV/DD_SS 21.9C NV/DD_VID 21.9C	PEX_TXX4* 2.38 2.3G PEX_TXX5 2.38 2.3G	
IV8_ADJ 19.2F	4.9C	FBA_VREF1	FBC_D<36> 62B 7.4D	12CA_SDA_C 9.1H 11.9G	NVVDD_VREF 21.9C	PEX_TXX5* 2.38.2.3G	
N3 2.1A	FBA_D<0> 3.18 4.38	FBA_ZQ0 4:3A	FBC_D<37> 62B 7.4D	I2CA_SDA_T 9.1F	NV/0D_VSEL2 21:38	PEX_TXX8 2:3B 2:3G	
V3_INFO 18.5F V 19.4C	FBA_D<83.0> 3.18.4.38.4.5G FBA_D<1> 3.18.4.38	FBA_ZQ1 4.3C FBA_ZQ2 4.3E	FBC_D<38> 8.28.7.4D FBC_D<39> 8.28.7.4D	12CB_SCL 10.2C 12CB_SCL_R 10.1E	NV/DD_VSEL2_Q 21:38 NV/DD_VSEL3 21:48	PEX_TXX8* 2:38 2:3G PEX_TXX7 2:38 2:3G	
V_ADJ 19.4B	FBA_D<2> 3.18 4.48	FBA_ZQ3 4.3G	FBC_D<00> 62874D	12CB_SCL_R_L 10.1G	NVVDD_VSEL3_Q 21.9C	PEX_TXX7* 23823G	
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2V_D 19.4A 2V F 21.1F	FBA_D<4> 3.18 4.48	FBC_CLK0* 6.4D 7.2A 7.2C 7.5G	FBC_D<42> 6.38 7.4D	12CB_SDA_R 10.1E	PEX_PLLVDD 2.4E	PEX_TXX8* 2.9G 2.4B	
2V_F 21.1F ACA_BLUE 9.4E 9.5A	FBA_D - 3.18 4.48 FBA_D - 3.18 4.48	FBC_CLK1	FBC_D-43> 6.38 7.4D FBC_D-44> 6.38 7.4D	12CB_SDA_R_L 10.1G 12CC_SCL 17.2B 17.3F 18.5E	PEX_PLL_CLK_OUT 22C PEX_PLL_CLK_OUT 22C	PEX_TXXX	
ACA_BLUE_C 9.4H 9.5A 11.3G	FBA_D<7> 3.18 4.48	FBC_CMD+0> 6.9C 6.4G 7.2A 7.2C	FBC_D-46> 6.38 7.4D	12CC_SCL_G 17.3C	PEX_PRSNT1* 2.1A	PEX_TXX10	
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_Do46> 6.38 7.4D	12CC_SDA 17.2B 17.3F 18.5E	PEX_REFCLK 2.1G 2.2B	PEX_TXX10* 2.3G 2.4B	
DACA_GREEN_C 9.4H 9.5A 11.3G	FBA_D<9> 3.18 4.48	7.1F 7.5G	FBC_D-47> 6.38 7.4D FBC_D-48> 6.38 7.3E	12CC_SDA_G 17.9C	PEX_REFCLK* 2.1G.2.2B	PEX_TXX11 2:9G 2:4B PEX_TXX11* 2:3G 2:4B	
IACA_HSYNC 9.3C.9.5A IACA HSYNC BUF 9.3E.9.5A	FBA_D<10> 3.18 4.48 FBA_D<11> 3.18 4.48	FBC_CMD<1> 8.2F 8.3C 7.1A 7.1C 7.1E 7.1G	FBC_D-48> 6.38 7.3E FBC_D-49> 6.38 7.4E	12CH_SCL 18.4D 12CH SDA 18.4D	PEX_RST* 2.2D 19.4E PEX_RX0 2.2B 2.4G	PEX_TXX11* 2.3G 2.4B PEX_TXX12 2.3G 2.4B	
ACA_HSYNC_C 9.3H 9.5A 11.9G	FBA_D<12> 3.28 4.48	FBC_CMD<2> 6.1G 6.3C 7.1A 7.1C	FBC_D-50> 6:38 7:4E	I2CS_SCL 2.1C 17.3F	PEX_RX0* 22B 2.4G	PEX_TXX12* 2.3G 2.4B	
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VSYNC_BUF 9.2E 9.5A VSYNC_C 9.2H 9.5A 11.9G	FBA_D<20> 3.28 4.4C FBA_D<21> 3.28 4.4C	7.1E 7.1G FBC_CMD<7> 6.3C 6.3G 7.1A 7.1C	FBC_D<85 638 7.4E FBC_D<80 638 7.4E	IFPAB_IOVDD 11.38 IFPAB_PLLVDD 11.28	PEX_RX4* 2.3B 2.4G PEX_RX5 2.3B 2.4G	PS_1V1_CP 20.38 PS_1V1_DR 20.2C	
/SYNC_R 9.2E 9.5A	FBA_D<22> 3:28 4:40	7.1E 7.1G	FBC_D<60> 6.3B 7.4E	IFPAB_RSET 11.3B	PEX_RX5* 2:3B:2.4G	PS_1V1_FB 20.3C	
BLUE 10.4D 10.5A	FBA_D<23> 3.28 4.4C	FBC_CMD-8> 6.3C 6.4F 7.1A 7.1C	FBC_Dx61> 6.3B 7.4E	IFPA_TXC 11:3D	PEX_RX6 2:38 2:4G	PS_FBVDDQ_BOOT 20:20	
BLUE_C 10.4F 10.5A _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 6.3C 6.3F 7.2A 7.2C	FBC_D-682> 8.3B 7.4E FBC_D-683> 8.3B 7.4E	IFPA_TXC* 11.3D IFPA_TXD0 11.2D	PEX_RX8* 2.3B 2.4G	PS_FBVDDQ_CP_RC 20:3D PS_FBVDDQ_CP_RC 20:3D	
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_HSYNC 10.9C 10.5A	FBA_D<27> 3.28 4.4C	FBC_CMD<10> 6.9C 6.9G 7.1A 7.1C	FBC_DQM-05 6:38 7:48	IFPA_TXD1 11.2D	PEX_RX8	PS_FBVDDQ_EN* 20.4C	
HSYNC_BUF 10.3E 10.5A	FBA_D<28> 3.28 4.4C	7.1E 7.1G	FBC_DQM-7.0> 6.3A 7.3A 7.5Q	IFPA_TXD1* 11.20	PEX_RX8* 2.4B 2.4G	PS_FBVDDQ_FB 20.3D	
_HSYNC_C 10.3G 10.5A _HSYNC_R 10.3E 10.5A	FBA_D<20> 3.28 4.4C FBA_D<30> 3.28 4.4C	FBC_CMD<11> 6:3C 6:4F 7:1E 7:1G FBC_CMD<12> 6:3C 6:4G 7:2A 7:2C	FBC_DQM<1> 6.38 7.48 FBC_DQM<2> 6.38 7.4C	IFPA_TXD2 11.3D IFPA_TXD2* 11.2D	PEX_RX9 2.48 2.4G PEX_RX9* 2.48 2.4G	PS_FBVDDQ_FB_RC 20.4G PS_FBVDDQ_FS_DIS 20.3C	
HSYNC_R 10.3E 10.5A RED 10.3D 10.5A	FBA_D<30> 3.28 4.4C FBA_D<31> 3.28 4.4C	FBC_CMD<12> 6.3C 6.4G 7.2A 7.2C 7.2E 7.2G	FBC_DQM<2> 6.38 7.4C FBC_DQM<3> 6.38 7.4C	IFPA_TXD2* 11.2D IFPB_TXD4 11.3D	PEX_RX9* 2.4B 2.4G PEX_RX10 2.4B 2.4G	PS_FBVDDQ_FS_DIS 20.3C PS_FBVDDQ_FG 20.3D	
RED_C 10.3F 10.5A	FBA_D<32> 3.28 4.3D	FBC CMD<13> 6.9C 6.3F 7.2A 7.2C	FBC DOMo4> 6.38 7.40	IFPB TXD4* 11.3D	PEX_RX10* 2.4B 2.4G	PS_FBVDDQ_PH 20.3D	
ISET 10.38	FBA_D<33> 3.28 4.3D	7.2E 7.2G	FBC_DQM-5> 8.38 7.40	IFPB_TXD5 11.3D	PEX_RX11 2.4B 2.4G	PS_FBVDDQ_PVCC 20.2D	
DD 10.28	FBA_D<34> 3.28 4.4D	FBC_CMD<14> 6.1G 6.3C 7.1A 7.1C	FBC_DQMx6> 6.48 7.4E	IFPB_TXD5* 11.3D	PEX_RX111* 2.4B.2.4G	PS_FBVDDQ_PVCC_R 20:2C	
/REF 10.28 /SYNC 10.3C 10.5A	FBA_D<35> 3.28 4.4D FBA_D<38> 3.28 4.4D	7.1E 7.1G FBC_CMD<16> 6.9C 6.4G 7.2E 7.2G	FBC_DQM-7> 6.48 7.4E FBC_DQS-0> 6.48 7.45 7.5E	IFPB_TXD6 11.3D IFPB_TXD6* 11.3D	PEX_RX12	PS_FBVDDQ_RC 20.2F PS_FBVDDQ_UG 20.2D	
/SYNC_BUF_10.3E 10.5A	FBA_D<37> 3.28 4.4D FBA_D<37> 3.28 4.4D	FBC_CMD<17> 6.3C 6.9G 7.1A 7.1C	FBC_DQS-7.0> 6.44 7.34 7.5E	IFPCEF_PLLVDD 14.9C	PEX_RX13	PS_PBVDDQ_UG_R 20.2E	
VSYNC_C 10.2G 10.5A	FBA_D<38> 3.28 4.4D	7.1E 7.1G	FBC_DQ9<1> 6.48 7.48 7.5E	IFPC_IOVDD 12:3A	PEX_RX13* 2.5B 2.5G	PS_FBVDDQ_VCC 20:2D	
_VSYNC_R 10.2E 10.5A	FBA_D<30> 3.28 4.4D FBA_D<40> 3.28 4.4D	FBC_CMD<18> 6.1F 6.9C 7.1E 7.1Q 7.2A 7.2C	FBC_DQ8-25	IFPC_PLLVDD 12:3A	PEX_RX14	PS_NVVDD_BOOT1 21.20 PS_NVVDD_BOOT2 21.30	
.5V 19.4D CLK0 3.4D 4.2A 4.2C 4.5G	FBA_D<40> 3.28 4.4D FBA_D<41> 3.28 4.4D	7.2A 7.2C FBC_CMD<19> 6.3C 6.4F 7.1A 7.1C	FBC_DQS-d> 6.48 7.4C 7.5E FBC_DQS-d> 6.48 7.4D 7.5E	IFPC_RSET 12:9A IFPC_TXC 12:3D	PEX_RX14* 2.5B 2.5G PEX_RX15 2.5B 2.5G	PS_NVVDD_B00T2 21.30 PS_NVVDD_EN 21.2C	
LK0* 3.4D 4.2A 4.2C 4.5G	FBA_D<42> 3.38 4.4D	7.1E 7.1G	FBC_DQ8-5> 6.48 7.4D 7.5E	IFPC_TXC* 12:3D	PEX_RX15* 2.5B.2.5G	PS_NVVDD_EN* 21.28	
CLK1 3.4D 4.2D 4.2F 4.5G	FBA_D+43> 3.38 4.4D	FBC_CMD<20> 6.3F 6.4C 7.1A 7.1C	FBC_DQS-6> 6.48 7.4E 7.5E	IFPC_TXC_C1 12:3F 12:4B	PEX_SMCLK 2.1B	PS_NVVDD_LG1 21:20	
CLK1* 3.4D 4.2F 4.5G	FBA_D<44> 3.38 4.4D	7.1E 7.1G	FBC_DQ8-7> 6.48 7.4E 7.5E	IFPC_TXC_C1* 12:3F 12:4B	PEX_SMDAT 2.1B	PS_NVVDD_LG2 21.3D	
LCMD-65 33C 34G 42A 42C LCMD-30.05 33D 41A 41C 41D	FBA_D<45> 3.38 4.4D FBA_D<46> 3.38 4.4D	FBC_CMD<21> 6:20 6:40 7:1A 7:10 7:1E 7:1G	FBC_DQSN<0> 6.487.487.5E FBC_DQSN<7.0> 6.447.3A7.5E	IFPC_TXD0 12:30 IFPC_TXD0" 12:30	PEX_TCLK 2.1B PEX_TDI 2.1B	PS_NVVDD_PH1 21:20 PS_NVVDD_PH2 21:30	
4.1F 4.5G	FBA_D+47> 3.38 4.4D	FRC CMD-22> 61E64C71E71G	FBC_DQSN<1> 6.4B 7.4B 7.5E	IFPC_TXID0_C1 12:3F 12:4B	PEX_TDO 2:18	PS_NVVDD_RC1 21:2F	
CMD<1> 33C 34F 4.1A 4.1C	FBA_D<48> 3.38 4.3E	7:2A 7:2C	FBC_DQSN<2> 6.4B 7.4C 7.5E	IFPC_TXD0_C1* 12:3F 12:4B	PEX_TERMP 2.5E	PS_NVVDD_RC2 21.3F	
4.1E 4.1G	FBA_D<49> 3.38 4.3E	FBC_CMD-24> 62F 6.4C 7.1A 7.1C	FBC_D08N<3> 6.4B.7.4C.7.5E	IFPC_TXD1 12:30	PEX_TMS 2.1B	PS_NVVDD_UG1 21:20	
2MD<2> 3.3C 3.4G 4.1A 4.1C 2MD<3> 3.2G 3.3C 4.1A 4.1C	FBA_D<50> 3.38 4.4E FBA_D<51> 3.38 4.4E	7.1E 7.1G FBC_CMD<25> 6.4C 6.4G 7.3A 7.3C	FBC_DQSN-45	IFPC_TXD1* 12:3D IFPC_TXD1_C1 12:3F 12:4B	PEX_TRST* 2.18 PEX_TX0 2.1G.2.2D	PS_NVVDD_UG1_R 21.2E PS_NVVDD_UG2 21.3D	
4.1E 4.1G	FBA_D<52> 3.88 4.4E	FBC_CMD<26> 6.2F 6.4C 7.1A 7.1C	FBC_DQSN<6> 6.4B 7.4E 7.5E	IFPC_TXD1_C1* 12:9F 12:4B	PEX_TX0" 2.1G.2.2D	PS_NVVDD_UG2_R 21.3E	
/Do4o 3.1F3.3C4.1A4.1C	FBA_D<53> 3.38 4.4E	7.1E 7.1Q	FBC_DQSN<7> 6.4B 7.4E 7.5E	IFPC_TXD2 12:3D	PEX_TX1 2.1G.2.2D	PS_NVVDD_VCC9 21.2C	
4.1E 4.1G	FBA_D<54> 3.38 4.4E	FBC_CMD<27> 6.4C 6.4G 7.2E 7.2G	FBC_VREF0 7.9C 7.9E 7.4G	IFPC_TX02* 12:30	PEX_TX1* 2:1G:220	PS_NVVDD_VCC12 21.2C	
MD<5> 33C 33G 4.1A 4.1C 4.1E 4.1G	FBA_D<55> 3.38 4.4E FBA_D<58> 3.38 4.4E	FBC_CMD-285 6.4C 7.2E 7.2G 7.3A 7.5C	FBC_VREF1 7.SF 7.SH 7.4H FBC_ZQQ 7.SA	IFPC_TXD2_C1 12:3F 12:4B IFPC_TXD2_C1* 12:3F 12:4B	PEX_TX2 2.2D 2.2G PEX_TX2* 2.2D 2.2G	ROM_CS* 18:3D ROM_SCLK 18:2C 18:3D 18:3D	
4.1E 4.1G MD-6b 3.1G 3.3C 4.1A 4.1C	FBA_D<57> 3.38 4.4E FBA_D<57> 3.38 4.4E	7.3C FBC_D-0b 6.18 7.38	FBC_Z00 7:3A FBC_Z01 7:3C	IFPD_IOVOD 13.3C	PEX_TX2 22G 23D	ROM_SCLR 18:2C18:3D18:3D ROM_SI 18:2C18:3D18:3D	
4.1E 4.1G	FBA_D<58> 3.38 4.4E	FBC_D=63.0> 6.1A.7.3A.7.5G	FBC_ZQ2 7.3E	IFPD_PLLVDD 13.3C	PEX_TX3* 2.2G 2.3D	ROM_SO 18.2C 18.3D 18.3D	
MD<7> 33C 34F 4.1A 4.1C	FBA_D<59> 3.38 4.4E	FBC_D<1> 6.18 7.48	FBC_ZQ3 7.3G	IFPEF_JOVDO 14.3C	PEX_TX4 2.2G 2.3D	SNN_SV3AUX 2.1A	
4.1E 4.1G MDo8b 3.3C 3.4F 4.1A 4.1C	FBA_D<60> 3.38 4.4E FBA_D<61> 3.38 4.4E	FBC_D D S B BC_D S S B B B 7.4B	FBVDDQ 20.2H FBVDDQ_RBOT 20.4F	#FP_JOVDD_EN* 17.2E 19.4G #FP_JOVDD_EN_RC 19.4F	PEX_TX4* 22G 23D PEX_TX5 22G 23D	SNN_BIOB_HSYNC 15.4D SNN_BTXC 11.3D	
4.1E 4.1G	FBA_D<62> 3.38 4.4E FBA_D<62> 3.38 4.4E	FBC_D <a> 6.18 7.48 FBC_D <a> 6.18 7.48	FBVDDQ_VSEL 20.4E	IFP_DUVDD_EN_RC 19.49 IFP_PLLVDD 12.2A 19.2G	PEX_TX5	SNN_BTXC 11.3D SNN_BTXC* 11.3D	
4D-db 32F 33C 42A 42C	FBA_D<83> 3.38 4.4E	FBC_D<5> 6.18 7.48	FB_CAL_PO_VDDQ 6.5C	JTAG_TCLK 2.1C 17.4A	PEX_TX6 2.2G.2.3D	SNN_BUFRST* 18.4D	
42E 42G	FBA_DEBUG 3.4C	FBC_D-65 6.18 7.48	FB_CAL_PU_GND 6.9C	JTAG_TDI 2.1C 17.4A	PEX_TX6* 2.2G.2.3D	SNN_CEC 18.4C	
ID<10> 3.2F 3.3C 4.1A 4.1C 4.1E 4.1G	FBA_DQM<7.0> 3.38 4.4B FBA_DQM<7.0> 3.3A 4.3A 4.5G	FBC_D<7> 6.1B 7.4B FBC_D<8> 6.1B 7.4B	FB_CAL_TERM_OND 65C FB_PLIAVDD 3.5C	JTAG_TD0 2:1C:17.5A JTAG_TMS 2:1C:17.4A	PEX_TX7 2.2G 2.3D PEX_TX7* 2.2G 2.3D	SNN_FBAQ_CKE1 4.2A SNN_FBAQ_CS1 4.2A	
4.1E 4.1G D<11> 3.1F 3.3C 4.1E 4.1G	FBA DQM<1> 3.38 4.48	FBC_D<8> 6.18 7.48 FBC_D<9> 6.18 7.48	FB_PLLAVDD 3.5C GPIO0_HPD_DVI 11.4D	JTAG_TMS 2.1C 17.4A JTAG_TRST* 2.1C 17.5A	PEX_TXP 22G23D PEX_TX8 22G24D	SNN_FBA0_CS1 4.2A SNN_FBA0_NC_A1 4.3A	
4D<12> 3.1G 3.3C 4.2A 4.2C	FBA_DQM<2> 3.38 4.4C	FBC_D<10> 6.187.48	GPI00_HPO_DVI_Q 11.4D	MIOA_CLKIN 15.2D	PEX_TX8* 2.2G.2.4D	SNN_FBA0_NC_A11 4:3A	
4.2E 4.2G	FBA_DQM<3> 3.38 4.40	FBC_D<11> 6.18.7.48	GPIO0_HPO_DVI_R 11.4E	MIOA_VDDQ 15.1C	PEX_TX9 2.2G 2.4D	SNN_FBA0_NC_T1 4.3A	
42E 42G	FBA_DQMo45 3.38 4.4D FBA_DQMc55 3.38 4.4D	FBC_D<12> 6.28 7.48 FBC_D<13> 6.28 7.4B	GPI00_HPO_DVI_RL 11.9G GPI01_HPOC 12.4C	MIOB_CLKIN 15.4D NVVDD 21.2H	PEX_TX9" 22G 24D PEX_TX10 22G 24D	SNN_FBA0_NC_T11 4.3A SNN_FBA0_ODT1 4.2A	
4.2E 4.2G 4D<14> 3.3C 3.3F 4.1A 4.1C	FBA_DQM-db 3.48 4.4E	FBC_D<13> 6.28 7.48 FBC_D<14> 6.28 7.48	GPIO1_HPDC 12.4C GPIO1_HPDC_Q 12.4D	NV/DD 21.2H NV/DD_CP 21.3C	PEX_TX10 22G 24D PEX_TX10 22G 24D	SNN_FBA0_CDT1 4.2A SNN_FBA0_ZQ1 4.2A	
4.1E 4.1G	FBA_DQM<7> 3.4B 4.4E	FBC_D<15> 6.28 7.48	GPIO1_HPDC_R 12.4F	NVVDD_CP_RC 21.4D	PEX_TX11 22G 24D	SNN_FBA1_CKE1 4.2C	
ID<16> 3.3C 3.4G 4.2E 4.2G	FBA_DQS<0> 3.4B 4.4B 4.5E	FBC_D<16> 6.287.3C	GPIO1_HPDC_R_L 124G	NV/DD_CSN 21.3D	PEX_TX11* 22G 24D	SNN_FBA1_CS1 4.2C	
0<17> 33C 33G 4.1A 4.1C	FBA_DQ8<7.0> 3.44 4.34 4.5E	FBC_D<17> 6.28 7.4C	GPIO4_FAN_TACH 17:3C	NWDD_CSN_R 21.3D	PEX_TX12	SNN_FBA1_NC_A1 4.9C	
4.1E 4.1G D<18> 3.3C 3.4G 4.1E 4.1G	FBA_DQS<1> 3.48 4.48 4.5E FBA_DQS<2> 3.48 4.4C 4.5E	FBC_D<18> 6.28 7.4C FBC_D<19> 6.28 7.4C	GPIO5_NVVDD_VSEL1 17:3D 21:1A 21:3A GPIO6_NVVDD_VSEL2 17:3D 21:3A	NVVDD_CSP 21.3D NVVDD_EAP 21.3C	PEX_TX12* 22G 24D PEX_TX13 22G 25D	SNN_FBA1_NC_A11 4:3C SNN_FBA1_NC_T1 4:3C	
42A 42C	FBA_DQS<3> 3.48 4.4C 4.5E	FBC_D<20> 6.287.4C	GPIO7_NVVDD_VSEL3 17:3D 21:3A	NVDD_EN 17:2F 21:2A	PEX_TX13* 22G 25D	SNN_FBA1_NC_T11 4.3C	
ID<19> 3.2G 3.3C 4.1A 4.1C	FBA_DQS-4> 3.4B 4.4D 4.5E	FBC_D<21> 6.28 7.4C	GPIO8_THERM_OVERTM 17:3C	NVVDD_EN* 17.1E	PEX_TX14 22G 25D	SNN_FBA1_ODT1 4.2C	
4.1E 4.1G	FBA_DQS-5> 3.48.4.4D.4.5E	FBC_D<22> 6.287.4C FBC_D<22> 8.287.4C	p.	NWDD_FB 21.40	PEX_TX14* 220.25D PEX_TX15 220.25D	SNN_FBA1_ZQ1 42C	
MD<20> 3.9F 3.4C 4.1A 4.1C 4.1E 4.1G	FBA_DQS<0> 3.48 4.4E 4.5E FBA_DQS<7> 3.48 4.4E 4.5E	FBC_D<25 6.287.4C FBC_D<24 6.287.4C	GPIO9_FAN_PWM 17.9C GPIO9_FAN_PWM_Q 17.4F	NVVDD_FB_RC 21.4D NVVDD_GND_SENSE 2.4F 21.4B	PEX_TX15	SNN_FBA2_CKE1 4.2E SNN_FBA2_CS1 4.2E	
					NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY		
		ASSEMBLY BASE LEVEL GENERAL SCHEMATIC CHLY, COMMON & NO. STUPF ASSEMBLY NOTES AND BOAN NOT FAMIL				SANTA CLARA, CA 95050, USA	
			PAGE DETAIL <edit detail="" here="" insert="" page="" to=""></edit>			NV_PN 600-10681-base-100 A	
		IATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS. TH STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AI	HE MATERIALS MAY			NV_PN 600-10681-base-100 A D	

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A : Cnel Part of	B C80 [202F]	C562 [8.24]	C C658 [11.38]	C763 [9.25]	7.269	R52 [17.4E]	R528 (8.5D)	RPS (6.4H 6.4H 6.4H	
p681 Jan 22	C90 [20.2F] C91 [20.3H] C92 [21.4G]	C583 [8.28] C584 [8.18] C585 [2.5C]	C659 [2:3F] C680 [15:3B] C681 [12:2B]	C764 [10.3E] C765 [10.4E] C768 [10.4E]	MS (7.2F.7.4D 7.4E) M4 (7.4E.7.4D	R53 [13.3C] R54 [15.5D] R55 [10.38]	R529 (8.5D) R530 (2.5F) R531 (8.4D)	6.4H) RP9 (6.3H 6.3H 6.2H 6.2H)	
)	C93 [20.3G] C94 [5.3D] C95 [5.3D]	C588 (8.1A) C567 (2.5C) C588 (2.5C)	C682 [3.2D] C683 [11.3B] C684 [2.3C]	C767 [12.48] C768 [9.4F] C769 [10.4F]	7.2H] M5 [4.4C.4.4B 4.2D]	R56 [6.4H] R57 [2.1C] R58 [6.4H]	R532 [2.2C] R533 [9.3D] R534 [9.4D]	RP10 (6.2H 6.2H 6.2H 6.2H) RP11 (6.4Q 6.4Q 6.4Q	
8.4E) 4F)	C96 [5.3B] C97 [5.1D]	C589 [2.5C] C570 [8.2C]	C665 [2.9C] C666 [2.4F]	C770 [10.4F] C771 [10.3F]	M6 [4.28.4.48 4.4C]	R59 (6.4H) R60 (7.3A)	R535 [9:5D] R536 [9:3B]	6.4G) RP12 (3.4H 3.4H 3.4H	
(0.90) (2.90) (1.20)	C98 [5.1A] C99 [20.4C] C100 [5.3B]	CS71 [8.2A] CS72 [8.1A] CS73 [2.5C]	C687 [12.2B] C688 [2.2F] C689 [12.4B]	C772 [8.5F] C773 [8.5F] C774 [8.5F]	M7 [4.2H.4.4E 4.4D] M8 [4.2F.4.4E	R61 [6.4H] R62 [20.2F] R63 [20.4B]	R537 (13.9C) R538 (18.4B) R539 (11.3B)	3.4H] RP13 (320.320.320 3.20)	
2.4F] 0.3G]	C101 [5.3A] C102 [5.2D]	C574 [8.28] C575 [8.18]	C670 [16.38] C671 [11.38]	C775 [9.4F] C776 [9.3F]	4.4D) MEC1 [16.2F]	R64 [20.48] R65 [20.2E]	R540 [12.3B] R541 [18.2B]	RP14 [3:3G 3:3G 3:3G 3:3G 3:3G]	
0.2G] 0.1G] 19.4D]	C103 [20.4F] C104 [5.4F] C105 [5.4F]	C576 [2.5C] C577 [7.4H] C578 [8.2D]	O872 [11.38] O873 [2.2F] O874 [2.4F]	CN1 [2.38] D1 [12.4E] D2 [9.2E]	MEC2 [16.2F] MEC3 [16.3E] MEC4 [16.2E]	R66 [20.4E] R67 [20.4E] R68 [20.4E]	R542 [18.4B] R543 [18.2C] R544 [14.3C]	RP15 [3.4Q.3.4Q.3.4Q 3.4Q] RP16 [3.2H.3.2H.3.2H	
0.20]	C108 [5.5C] C107 [20.3G]	C579 [2.4C] C580 [2.4C]	C675 [8.38] C676 [8.38]	D3 [9.75] D4 [16.25] D5 [10.15]	MECS [16.2E] MECS [16.3G]	R69 [20.4F] R70 [20.4F]	R545 [10.3D] R546 [18.2B]	3.2H] RP17 [3.3H 3.3H 3.3H	
2:10] 2:16] 2:16]	C108 [20.3D] C109 [20.3F] C110 [20.3D]	C581 [8.2C] C582 [8.1C] C583 [8.1C]	C877 [2:2F] C878 [8:4B] C879 [10:3B]	DS [10.1E] D6 [12.2E] D7 [0.3F]	Q1 [12.4D] Q2 [12.1E] Q3 [12.2E]	R71 [20.4G] R72 [3.4H] R73 [3.4H]	R547 [10.4D] R548 [18.2B] R549 [10.5D]	3.3H] RP18 (3.1G.3.1G.3.1G 3.1G)	
[12:3E] [12:3E]	C111 [21.4D] C112 [21.4D]	C584 [8.2C] C585 [2.4C]	C880 [17:38] C881 [11:38]	D8 [10.2F] D9 [10.3F]	Q4 [11.4D] Q5 [20.2B]	R74 [20.9G] R75 [20.9D]	R550 [18.2C] R551 [18.2B]	RP19 [33G 3.3G 3.2G 3.2G]	
[12:36] [12:36] [12:36]	C113 [21.3E] C114 [21.4H] C115 [21.4G]	C586 [5.4E] C587 [2.4C] C588 [8.1D]	C682 [2:9C] C683 [2:9C] C684 [11:3B]	D10 [9.2F] D11 [11.4E] D12 [12.2E]	06 [21.4F] 07 [21.4F] 08 [17.4F]	R76 [3.4H] R77 [3.4H] R78 [4.3A]	R552 [14.9C] R553 [16.3D] R554 [7.3A]	RP20 (3.4G.3.4G.3.4G 3.4G) RP21 (3.1H.3.1H.3.1H	
12:3E] 12:2G]	C116 [20.2G] C117 [21.4H]	C589 [3.1D] C590 [3.2E]	C685 [2:20] C686 [8:3A]	D13 [17.4F] D14 [19.4B]	Q9 [21.2F] Q10 [21.2F]	R79 [21.4A] R80 [21.4A]	R556 [17.3D] R556 [17.3D]	3.1H] RP22 [3.3H 3.3H 3.2H	
[10.2G] [11.4F] [10.1G]	C118 [21.4G] C119 [15.2B] C120 [21.3C]	C591 [3.5D] C592 [3.5D] C593 [2.4C]	C687 [10.38] C688 [11.38] C689 [9.3A]	D15 [17:5F] D16 [18:5G] D501 [20:3F]	011 [19.40] 012 [19.4F] 013 [17.2E]	R81 [21.48] R82 [21.18] R83 [15.18]	R557 [17.2C] R558 [16.3C] R550 [7.4G]	3.2H] U1 [12.2E] U2 [19.4B]	
[10.2G] [10.2F]	C190 [17.1E] C191 [17.2E]	C594 [3.2D] C595 [3.2D]	C690 [16.38] C691 [5.4F]	D502 [17.2E] D503 [17.2F]	Q14 [20.2E] Q15 [20.3E]	R84 [15.3D] R85 [21.4C]	R560 [18.2D] R561 [7.4G]	U3 [18.5F] U4 [18.4F]	
[9.2F] [19.4C]	C133 [21.4E] C501 [20.2E]	C596 [3.1E] C597 [3.1D]	C892 [12-4A] C893 [2-9C]	D508 [10.3E] D509 [10.5E]	Q16 [20.4F] Q17 [20.48]	R86 [21.4C] R101 [20.4B]	R562 [18.3F] R563 [18.2D]	U5 [19.28] U6 [21.30]	
[11.4E] [19.48] [20.38]	C502 [20,2D] C503 [5,2C] C504 [5,4A]	C598 [3.5C] C599 [2.4C] C600 [5.4E]	C894 [8.4A] C895 [2.3A] C898 [12.2A]	D510 [10.4E] D511 [8.4E] D512 [8.5E]	Q18 (20.4C) Q19 (21.48) Q20 (17.1E)	R167 [21.1E] R168 [21.3A] R169 [21.3A]	R565 [12.2F] R566 [12.2F] R567 [18.2D]	US01 [20.3D] US02 [17.2B] US03 [18.3F]	
[19.4C] [21.1E]	C505 [5.4A] C506 [5.5C]	C601 [3.5D] C602 [5.2E]	C697 [10.3A] C698 [9.3A]	D513 [9.4E] F1 [19.4C] G1 [2.90]	Q502 (17.2F) Q503 (21.2B)	R100 [21.5A] R170 [21.4A] R171 [21.5A] R172 [21.9A]	R568 [19.2F] R569 [17.3E]	U504 [19.2F] U506 [9.2D.9.3D]	
[20.38] [21.1E] [19.48]	C507 [5.4F] C508 [5.28] C509 [5.2C]	C603 [3.5A] C604 [2.1F] C605 [5.2F]	C699 [2:3C] C700 [12:4A] C701 [8:3B]	G1 [2:50] G1 [3:3C] G1 [5:4H]	Q504 [21.28] Q505 [21.38] Q507 [21.28]	R172 [21.38] R173 [21.38] R174 [21.20]	R570 (18.20) R572 (17.3E) R573 (18.2E)	U506 [10.2D 10.3D] Y1 [16.3C]	
[19.4A] [20.38]	C510 [5.1C] C511 [5.2A]	C606 [2.4C] C607 [8.2C]	C702 [8.3A] C703 [8.3A]	G1 [8:3C] G1 [8:3C]	0565 [21:36] 0567 [21:28] 0568 [2:44] R1 [2:40] R2 [2:47]	R175 [21.3C] R176 [21.3C]	R574 [18.2E] R580 [7.3C]		_
[21:38] [21:3G]	C512 [5.28] C513 [5.4F]	C608 [5.2F] C609 [2.1F]	C704 [11:3A] C705 [2:9C]	G1 [8.5C] G1 [10.3C] G1 [11.9C]	R2 [12.4F] R3 [12.4E] R4 [2.1F]	R177 [21.3C] R178 [21.2C]	R581 [7:2A] R582 [21:28]		
[20.2C] [21.3F] [21.38]	C514 [5.4C] C515 [5.2C] C516 [5.3A]	C610 [5.2F] C611 [5.2F] C612 [2.4C]	C706 [83D] C707 [163B] C708 [103A]	G1 [12.48] G1 [13.3D]	R5 [12.2F]	R179 [21.2C] R180 [21.2C] R181 [21.3C]	R583 [21.2A] R584 [21.2A] R589 [21.2E]		
[20.2C] [17.4G]	C517 [20.2C] C518 [5.4F]	C613 [2.1E] C614 [3.1E]	C709 [11.3A] C710 [2.9C]	G1 [14.3D] G1 [15.2C 15.4C]	R6 [9.2E] R7 [10.1E] R8 [9.1F]	R182 [21.9C] R183 [21.4D]	R590 [21.2F] R591 [2.1C]		
[21:96] [17:46] [21:3F]	C519 [5.3A] C520 [5.4F] C521 [5.1A]	C615 [2.1F] C616 [8.2D] C617 [5.1E]	C711 [3.5D] C712 [7.4G] C713 [5.58]	G1 [18.3C] G1 [17.3C] G1 [18.4C]	R9 (2.1F) R10 (11.4E) R11 (10.1F)	R184 (21.3D) R185 (21.4D) R186 (21.4D)	R505 [21.2D] R506 [2.1C] R507 [2.1C]		
[2.1A] [17.9G]	C522 [5.3D] C523 [5.2A]	C618 [5.2F] C619 [8.2D]	C713 [5.58] C714 [12.2A] C715 [19.3C]	J1 [10.5G] J2 [12.3H]	R12 [10.1E] R13 [10.1F]	R187 [21.3E] R189 [21.3E]	R509 [2.18] R603 [2.1C]		
[21.10] [21.90] [18.5F]	C524 [5.1D] C525 [20.2D] C526 [20.3C]	C620 [8.1D] C621 [2.4C] C622 [2.1F]	C716 [19.20] C717 [8.4C] C718 [19.2F]	J3 [11.30] J4 [[0.40] J5 [17.4H]	R14 [12:20] R15 [12:10] R16 [11:40]	R190 [21.1E] R191 [21.1E] R194 [17.1E]	R804 [21.2C] R805 [21.4D] R810 [21.3F]		
[18.4F]	C526 [20.3C] C527 [5.3D] C528 [5.3A]	C623 [5.1F] C624 [5.2G]	C718 [19.2F] C719 [2.2C] C720 [2.2C]	n 100 mg	R17 [12.2F] R18 [11.4D]	R195 [17.2E] R196 [17.2E]	R811 [21.28] R812 [21.3E]		
[21.4D] [21.4G] [17.4C]	C529 [5.18] C530 [4.4H] C531 [5.3D]	C625 [2.4C] C626 [2.2E] C627 [5.2F]	C721 [83D] C722 [83C] C723 [83C]		R19 [12:20] R20 [12:20] R21 [19:48]	R197 [21,28] R199 [21,3C] R200 [21,4D]	R614 (10.3D) R615 (10.5D) R616 (10.4D)		
[2.1A] [2.1A]	C532 [4.40] C533 [5.3D]	C628 [8.4A] C629 [3.1E]	C724 [8.4D] C725 [8.3B]	L5 (21.2G)	R22 [19.4B] R23 [19.4A]	R201 [21.4E] R202 [21.4E]	R617 [9.4E] R618 [9.2E]		
[21.1G] [21.4H] [19.4F]	C594 [5.4C] C595 [5.4D] C596 [5.2D]	C690 [3.20] C691 [5.2F] C692 [2.1F]	C726 [17,2C] C728 [83D] C729 [2,2C]	L7 [17.45] L8 [21.40] L10 [20.20]	R24 [17.4G] R25 [17.4F] R26 [2.18]	R203 [21.2C] R501 [20.2D] R502 [20.2D]	R619 (0.5E) R620 (0.3E) R621 (0.3E)		
[21.1F] [21.3H]	C537 [5.28] C538 [5.9C]	C633 [5.2F] C634 [2.1F]	C790 [2.2C] C791 [8.4C]	L11 [20.2G] L501 [10.4E]	R26 [2.18] R27 [2.10] R28 [17.40]	R503 [20.3C] R504 [20.3C]	R622 [12.4A] R623 [10.2E]		
[16.3C] [16.3D] [19.2B]	C539 [5.3C] C540 [5.3B] C541 [5.3B]	C695 [2.1F] C696 [2.1E] C697 [2.9C]	C732 [5.4E] C733 [18.3F] C734 [19.2F]	L502 [10.4F] L503 [10.3E] L504 [8.4F]	R29 [18.4E] R30 [18.4E] R31 [18.5E]	R505 [20.38] R506 [20.38] R507 [4.3A]	R624 (12.4B) R625 (12.4B) R626 (12.4B)		
[2.4G]	C541 [5.38] C542 [5.20] C543 [5.10]	C638 [5.1F] C639 [3.1E]	C795 [8.9C] C796 [8.9C]	L506 [8.49] L506 [8.39]		R508 [4.9G] R509 [20.2D]	R627 [12.4B] R628 [12.4B]		
[16.3A] [8.3B] [10.3B]	C544 [5.2A] C545 [5.1B] C546 [5.4B]	C640 [5.2F] C641 [2.4E] C642 [2.9C]	C737 [2.2C] C738 [8.3D] C739 [8.3D]	LB1 [12.4F] LB2 [9.2G] LB3 [9.1G]	R35 [17.3G]	RS10 [4.3C] RS11 [4.4H] RS12 [4.4H]	R629 (12.48) R630 (12.48) R631 (12.48)		
[8.3B] [8.3A]	C547 [5.2A] C548 [5.2D]	C843 [2.1F] C844 [5.1F]	C740 [8.3D] C742 [2.2C]	LB4 (11.4F) LB5 (10.1F)	R36 [17.26] R37 [17.30] R38 [17.26]	R513 [4.4G] R514 [4.4G]	R632 [10.3E] RP1 [6.1H 6.1H 6.1H		
[8.1D] [8.2D] [8.2A]	C549 [5.3C] C550 [5.3B] C551 [5.2C]	C645 [3.1D] C646 [5.2E] C647 [5.2F]	C743 [21.2A] C744 [21.2F] C746 [21.2F]	LB6 [10.1F] LB501 [3.5D] LB502 [11.3A]	R39 [17.4C] R40 [17.4B] R41 [17.1E]	R515 [4.2A] R516 [4.2E] R517 [4.3E]	6.1H] RP2 (6.2G 6.2G 6.2G 6.2G]		
[21.4B] [5.4F]	C562 [5.18] C563 [20.2F]	C648 [3.1D] C649 [5.2F]	C748 [21.1F] C750 [21.2E]	LB503 [2.4F] LB504 [9.2A]	R42 [19.4F] R43 [17.5C]	R518 [7.9G] R519 [7.2E]	RP3 [6:2G 6:3G 6:2G 6:3G]		
[8.18] [8.28] [20.2G]	C584 [5.3C] C585 [5.3B] C586 [5.1D]	C680 [5.2F] C681 [9.3B] C682 [9.3B]	C752 [21.2C] C755 [2.1A] C757 [21.2C]	LB505 [11.3A] LB506 [16.3A] LB507 [12.2A]	R44 [19.4G] R45 [19.3C] R46 [19.3C]	RS20 [7.4H] RS21 [7.4H] RS22 [2.5F]	RP4 (6.3H 6.3H 6.3H) RP5 (6.1G 6.1G		
[20.2H] [20.3G]	C557 [5.28] C558 [20.2G]	C683 [2.4E] C684 [2.3F]	C758 [21.3E] C759 [21.3F]	LB508 [10.2A] LB509 [12.3A]	R47 [19.2C] R48 [17.2D]	R523 [3.4D] R524 [3.5A]	6.1G) RP6 [6.3G 6.3G 6.3G		
[20.2F] [20.2G] [20.3G]	C589 [20,2G] C580 [8,2A] C581 [8,2B]	C685 [5.2E] C686 [5.4F] C687 [16.36]	C780 [21.4F] C781 [21.3F] C782 [21.28]	M1 [7:207.4B 7.4C] M2 [7:487.4C	R49 [17.2C] R50 [18.4D] R51 [17.3E]	RS25 (8.5D) RS26 (3.5A) RS27 (7.3E)	6.9G] RP7 [6.4G 6.4G 6.4G 6.4G]		
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