

P1071: GF108, 1024MB x16 DDR3, DVI+HDMI+VGA

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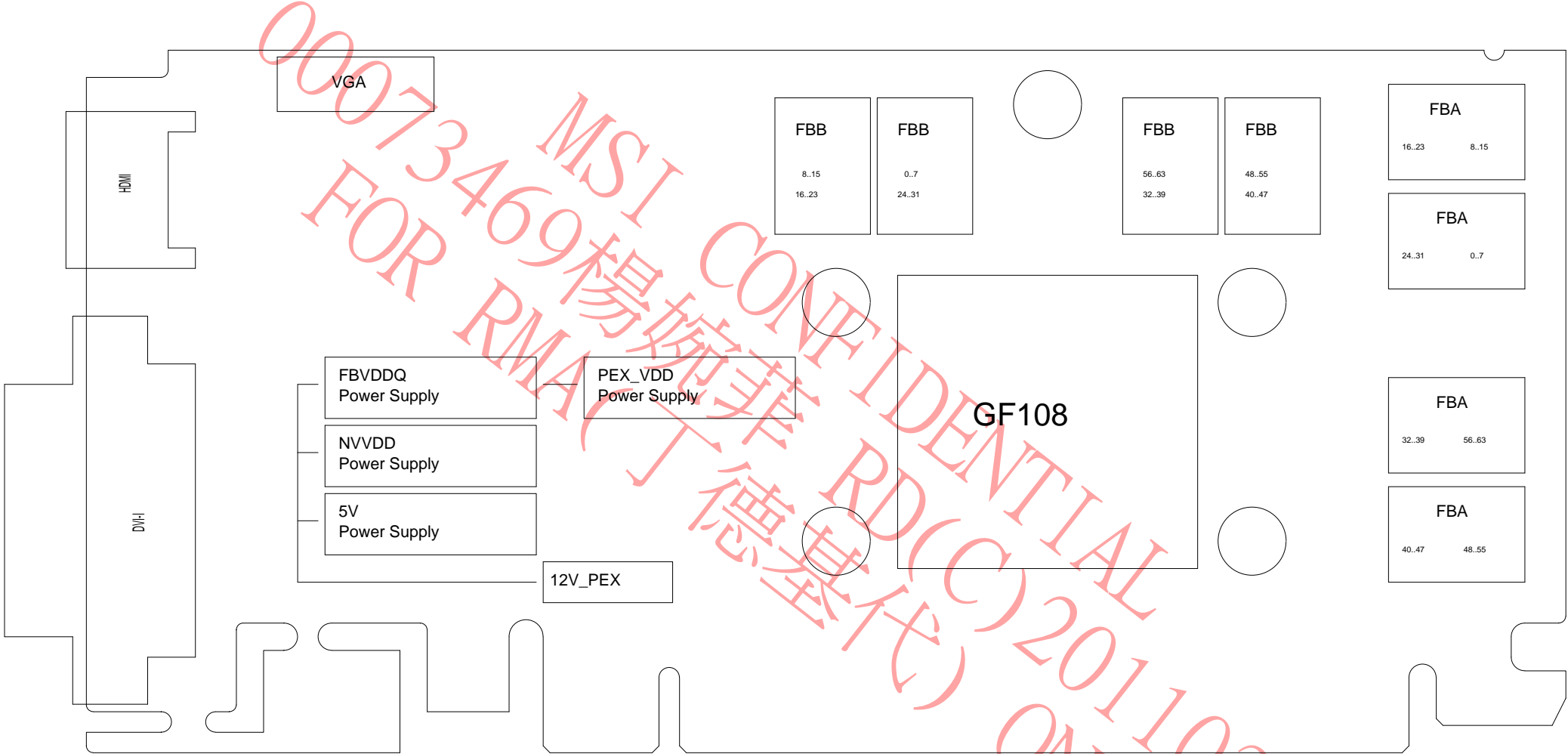
REV	VARIANT	NVPIN	ASSEMBLY
B	BASE	600-11071-BASE-SCH	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-11071-0001-100	GF108-300-A1 625/1250/900MHz 1024MB/128bit DDR3, DVI-DL+HDMI+VGA
2	SKU0002	600-11071-0002-100	GF108-300-A1 650/1300/900MHz 1024MB/128bit DDR3, DVI-DL+HDMI+VGA
3	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
4	<UNDEFINED>	<UNDEFINED>	<UNDEFINED>
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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Overview

NVIDIA CORPORATION			
2701 SAN TOMAS EXPRESSWAY			
SANTA CLARA, CA 95050, USA			
NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOM REV	A	DATE	01-APR-2010

Block Diagram

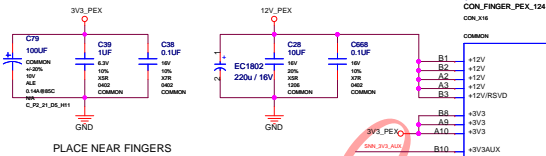


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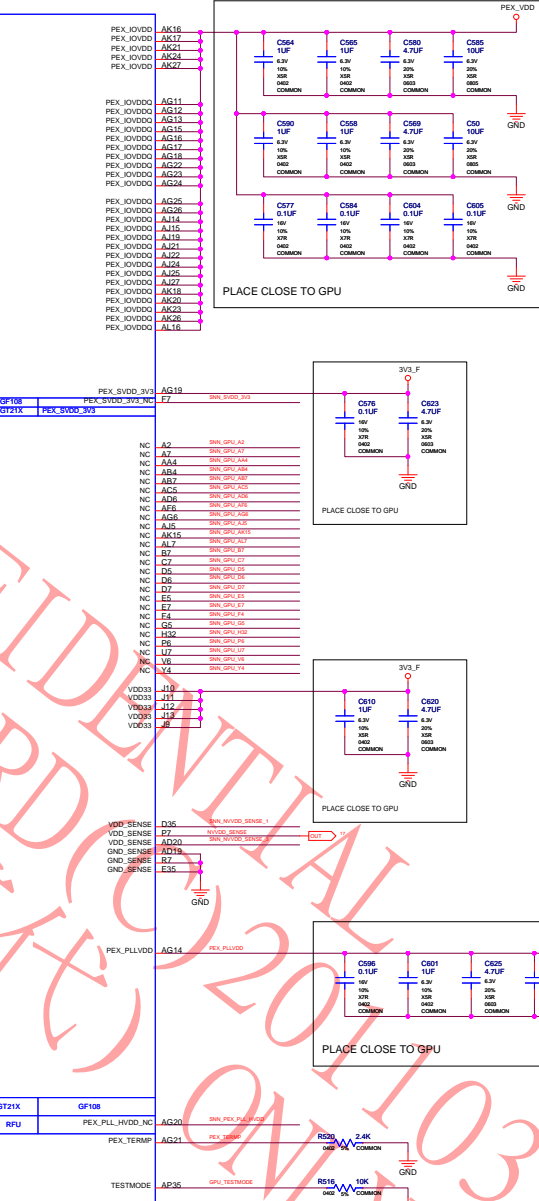
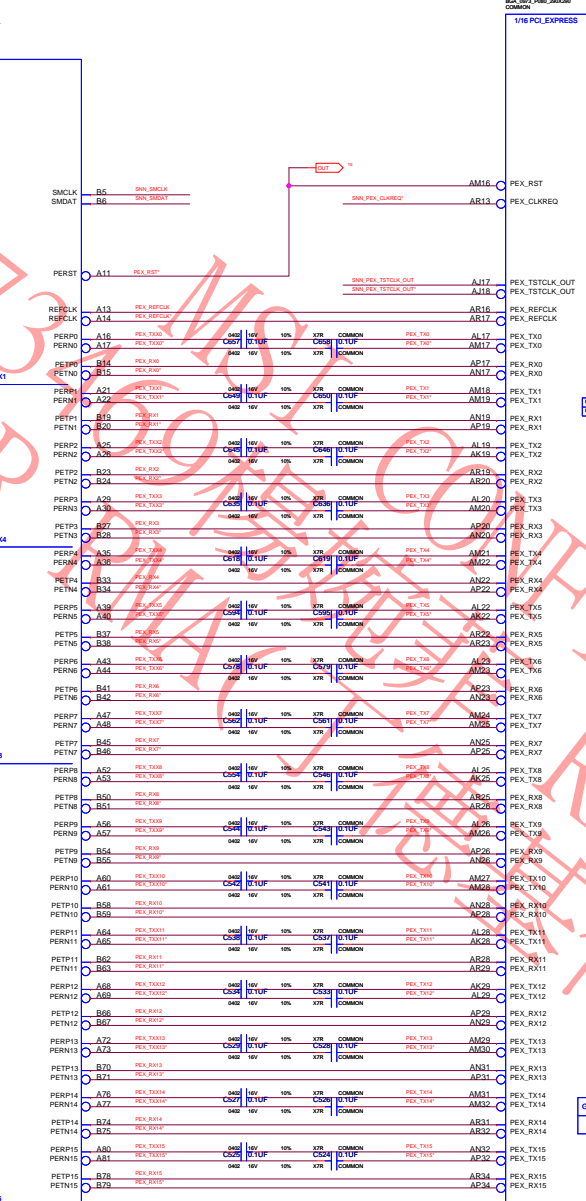
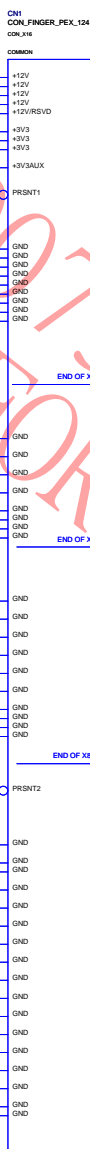
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NVIDIA CORPORATION			
2701 SAN TOMAS EXPRESSWAY			
SANTA CLARA, CA 95050, USA			
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PCB REV	P1071-A01	PAGE	
BOX REV	A	DATE	01-APR-2010

PCI Express Interface




Net Name		DIFF_PAIR	CRITICAL	IMPEDANCE
IN	PE1_720	PE1_720	1	100Ω
IN	PE1_720P	PE1_720	1	100Ω
IN	PE1_721	PE1_721	1	100Ω
IN	PE1_721P	PE1_721	1	100Ω
IN	PE1_722	PE1_722	1	100Ω
IN	PE1_722P	PE1_722	1	100Ω
IN	PE1_723	PE1_723	1	100Ω
IN	PE1_723P	PE1_723	1	100Ω
IN	PE1_724	PE1_724	1	100Ω
IN	PE1_724P	PE1_724	1	100Ω
IN	PE1_725	PE1_725	1	100Ω
IN	PE1_725P	PE1_725	1	100Ω
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IN	PE1_727	PE1_727	1	100Ω
IN	PE1_727P	PE1_727	1	100Ω
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IN	PE1_728P	PE1_728	1	100Ω
IN	PE1_729	PE1_729	1	100Ω
IN	PE1_729P	PE1_729	1	100Ω
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IN	PE1_730P	PE1_730	1	100Ω
IN	PE1_731	PE1_731	1	100Ω
IN	PE1_731P	PE1_731	1	100Ω
IN	PE1_732	PE1_732	1	100Ω
IN	PE1_732P	PE1_732	1	100Ω
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IN	PE1_738P	PE1_738	1	100Ω
IN	PE1_739	PE1_739	1	100Ω
IN	PE1_739P	PE1_739	1	100Ω
IN	PE1_740	PE1_740	1	100Ω
IN	PE1_740P	PE1_740	1	100Ω
IN	PE1_741	PE1_741	1	100Ω
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IN	PE1_742P	PE1_742	1	100Ω
IN	PE1_743	PE1_743	1	100Ω
IN	PE1_743P	PE1_743	1	100Ω
IN	PE1_744	PE1_744	1	100Ω
IN	PE1_744P	PE1_744	1	100Ω
IN	PE1_745	PE1_745	1	100Ω
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IN	PE1_746	PE1_746	1	100Ω
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IN	PE1_822P	PE1_822	1	100Ω
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IN	PE1_824P	PE1_824	1	100Ω
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IN	PE1_827	PE1_827	1	100Ω
IN	PE1_827P	PE1_827	1	100Ω
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IN	PE1_829	PE1_829	1	100Ω
IN	PE1_829P	PE1_829	1	100Ω
IN	PE1_830	PE1_830	1	100Ω
IN	PE1_830P	PE1_830	1	100Ω
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IN	PE1_831P	PE1_831	1	100Ω
IN	PE1_832	PE1_832	1	100Ω
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IN	PE1_844	PE1_844	1	100Ω
IN	PE1_844P	PE1_844	1	100Ω
IN	PE1_845	PE1_845	1	100Ω
IN	PE1_845P	PE1_845	1	100Ω
IN	PE1_846	PE1_846	1	100Ω
IN	PE1_846P	PE1_846	1	100Ω
IN	PE1_847	PE1_847	1	100Ω
IN	PE1_847P	PE1_847	1	100Ω
IN	PE1_848	PE1_848	1	100Ω
IN	PE1_848P	PE1_848	1	100Ω
IN	PE1_849	PE1_849	1	100Ω
IN	PE1_849P	PE1_849	1	100Ω</



Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN PEX_PSRST*	120MIL		
IN PEX_TERM*	120MIL		
IN GPU_TESTNODE	120MIL		
IN PEX_PLVDD	120MIL	1.00V	0.160A

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NV_PN		600-11071-BASE-SCH		
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GPU Frame Buffer

G1B

SDA, DQ7, FBA, 2K0300

COMMON

216 FBA

FBA, D0

FBA, D1

FBA, D2

FBA, D3

FBA, D4

FBA, D5

FBA, D6

FBA, D7

FBA, D8

FBA, D9

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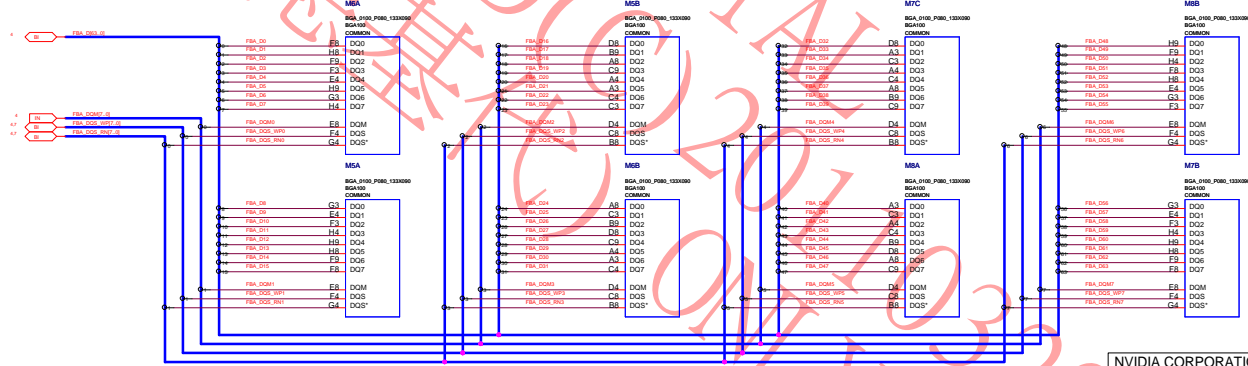
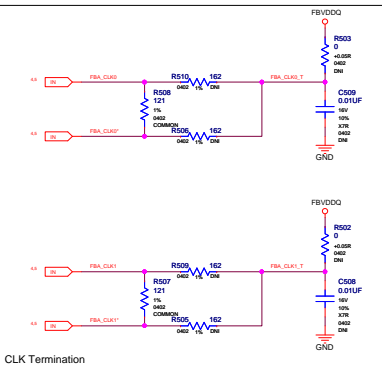
FBA, D309

FBA Partition

Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
FBA_CLK0-T		0.75V	
FBA_CLK1-T		0.75V	
FBA_VREF			
FBA_Z00			
FBA_Z01			
FBA_Z02			
FBA_Z03			



CMD	<0.3V>	<0.6V>
CM00	C00*	
CM01	C00*	
CM02	C00*	
CM03	C00*	
CM04	C00*	
CM05	C00*	
CM06	C00*	
CM07	C00*	
CM08	C00*	
CM09	C00*	
CM10	C00*	
CM11	C00*	
CM12	C00*	
CM13	C00*	
CM14	C00*	
CM15	C00*	
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CM97	C00*	
CM98	C00*	
CM99	C00*	
CM100	C00*	



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY; COMMON & NO. 1017/1018 ASSEMBLY NOTES AND BOARD NOT FINAL
PAGE DETAIL	FBA Partition

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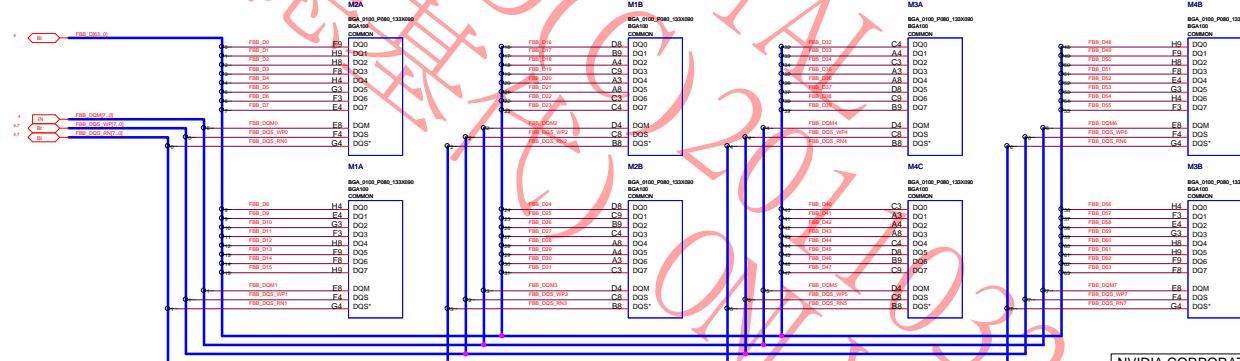
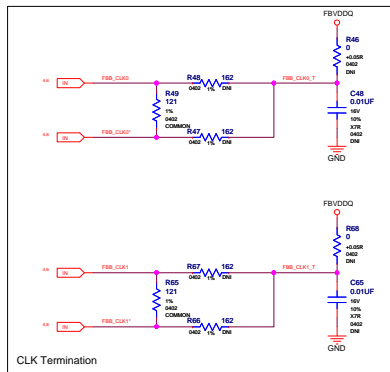
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FBB Partition

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN	FBS_CLK0_T		0.75V	
IN	FBS_CLK0_T		0.75V	
IN	FBS_VREF0	1.00MIL		
IN	FBS_VREF1	1.00MIL		
IN	FBS_Z00	1.00MIL		
IN	FBS_Z01	1.00MIL		
IN	FBS_Z02	1.00MIL		
IN	FBS_Z03	1.00MIL		



CMD Mapping		
CMD	+0.21s	+0.23s
CMD0	CSD*	
CMD1		
CMD2	OST	
CMD3	CNE	
CMD4		
CMD5	BST	BST
CMD6	AB	AB
CMD7	A7	A7
CMD8	A2	A2
CMD9	A3	A3
CMD10	A4	A4
CMD11	A1	A1
CMD12	BA0	BA0
CMD13	HE*	HE*
CMD14		
CMD15	CAD*	CAD*
CMD16		CSF
CMD17		
CMD18		OST
CMD19		
CMD20	A13	A13
CMD21	A8	A8
CMD22	AE	AE
CMD23	A11	A11
CMD24	A5	A5
CMD25	A3	A3
CMD26	BA2	BA2
CMD27	BA1	BA1
CMD28	A12	A12
CMD29	A10	A10
CMD30	RA5*	RA5*
CMD31		

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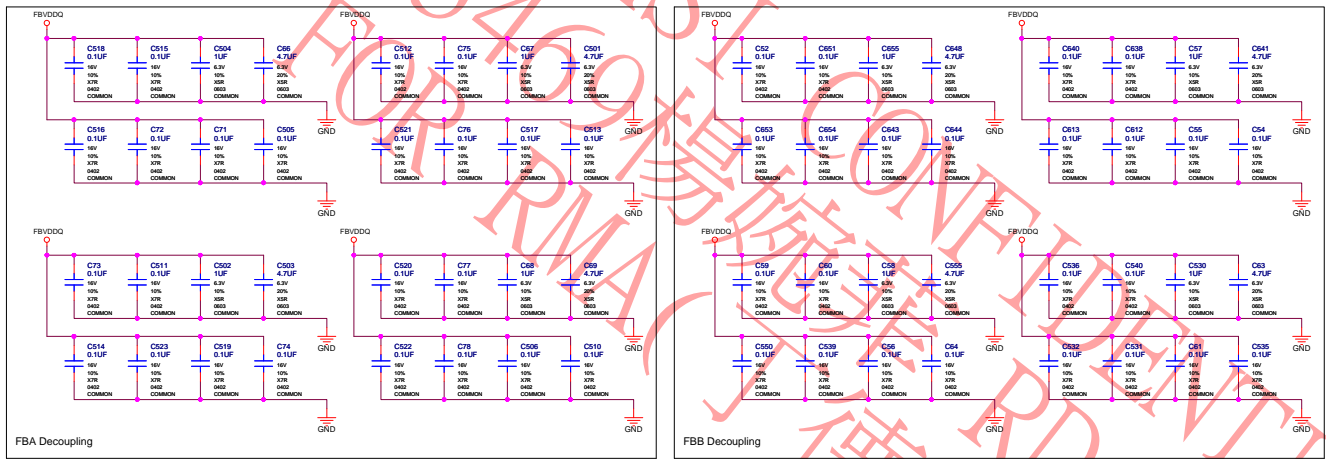
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NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
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PAGE DETAIL	FBB Partition

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Memory Decoupling



Net Name		DIFF_PAIR	CRITICAL	IMPEDANCE
FBA_DQS_W0V_0	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
	FBA_DQS_W0V_0	FBA_DQS0	+	NOSET
FBB_DQS_W0V_0	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET
	FBB_DQS_W0V_0	FBB_DQS0	+	NOSET

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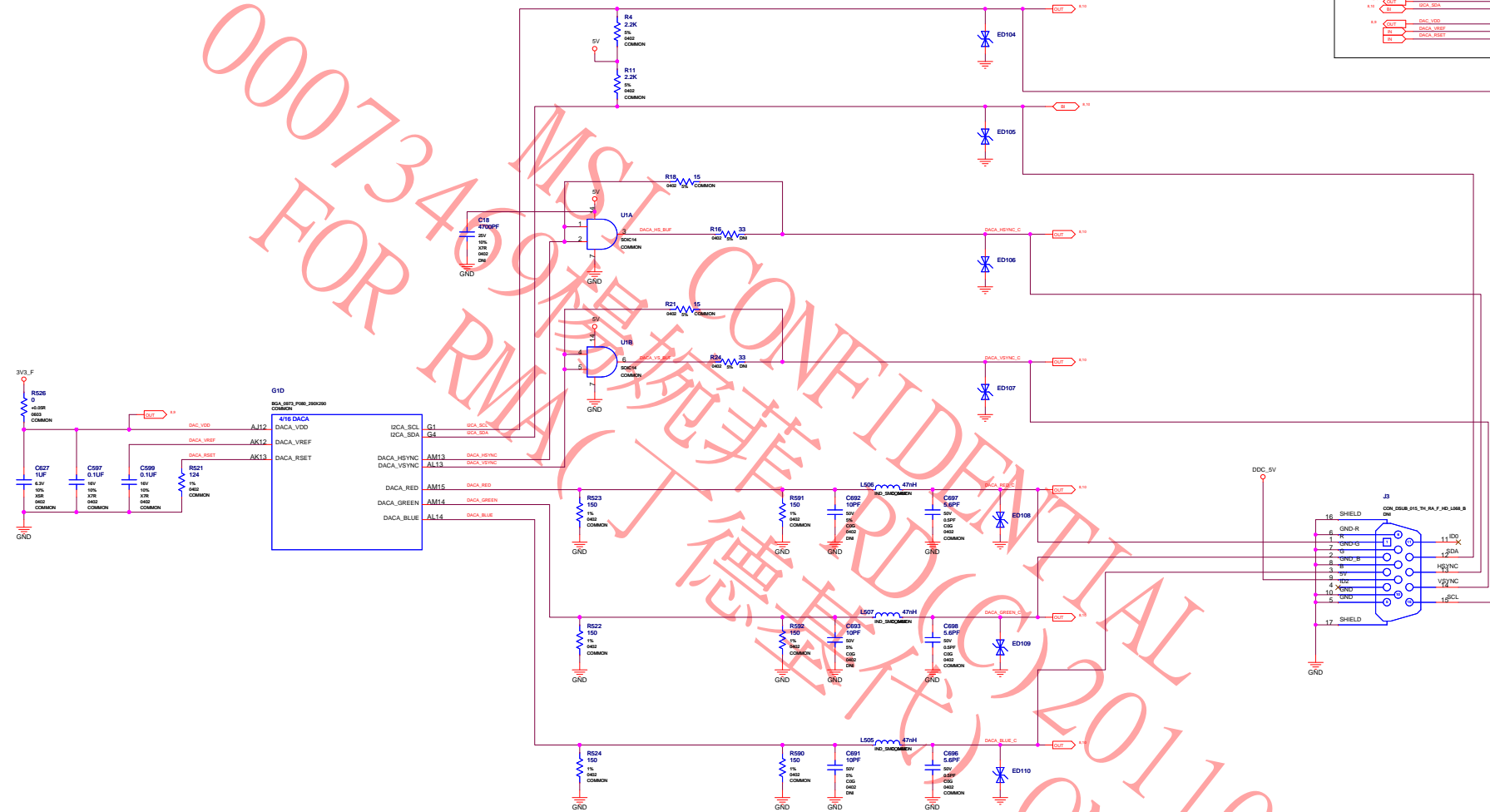
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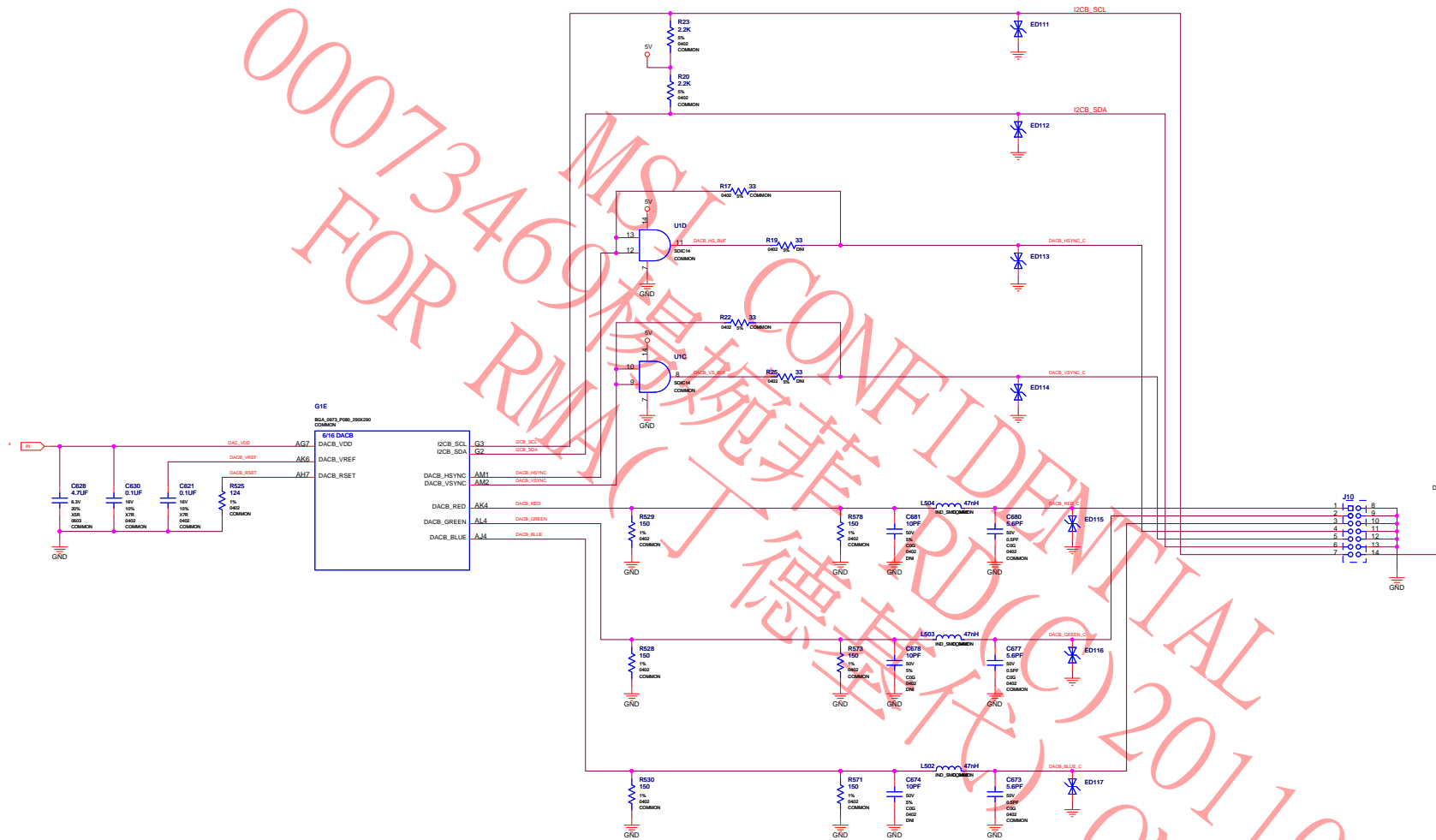
DACA VGA



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
0.10	 DQAC_RED		1	50Ω±5%
	 DQAC_RED_C		1	50Ω±5%
	 DQAC_GREEN		1	50Ω±5%
	 DQAC_GREEN_C		1	50Ω±5%
0.10	 DQAC_BLUE		1	50Ω±5%
	 DQAC_BLUE_C		1	50Ω±5%
	 DQAC_VIOLET		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
0.10	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
0.10	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%
	 DQAC_VIOLET_C		2	50Ω±5%

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
0.10	 DQAC_RED		1.8V	100mA
	 DQAC_RED_C		1.8V	100mA
0.10	 DQAC_GREEN		1.8V	100mA
	 DQAC_GREEN_C		1.8V	100mA
0.10	 DQAC_BLUE		1.8V	100mA
	 DQAC_BLUE_C		1.8V	100mA
0.10	 DQAC_VIOLET		1.8V	100mA
	 DQAC_VIOLET_C		1.8V	100mA

DACB VGA Header



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IN	DACB_RED	1	1	50OHMS
IN	DACB_RED_C	1	1	50OHMS
IN	DACB_GREEN	1	1	50OHMS
IN	DACB_GREEN_C	1	1	50OHMS
IN	DACB_BLUE	1	1	50OHMS
IN	DACB_BLUE_C	1	1	50OHMS
IN	DACB_YELLOW	2	2	50OHMS
IN	DACB_YELLOW_C	2	2	50OHMS
IN	DACB_VIOLET	2	2	50OHMS
IN	DACB_VIOLET_C	2	2	50OHMS

Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN GCB_SCL			
IN GCB_SDA			
IN DACB_WREF	12MIL		
IN DACB_RSET	12MIL		

SPECIAL MECHANIC

MEC3

CON_HER_002X006_TH_ST_M_PH00_CBL
COMMON

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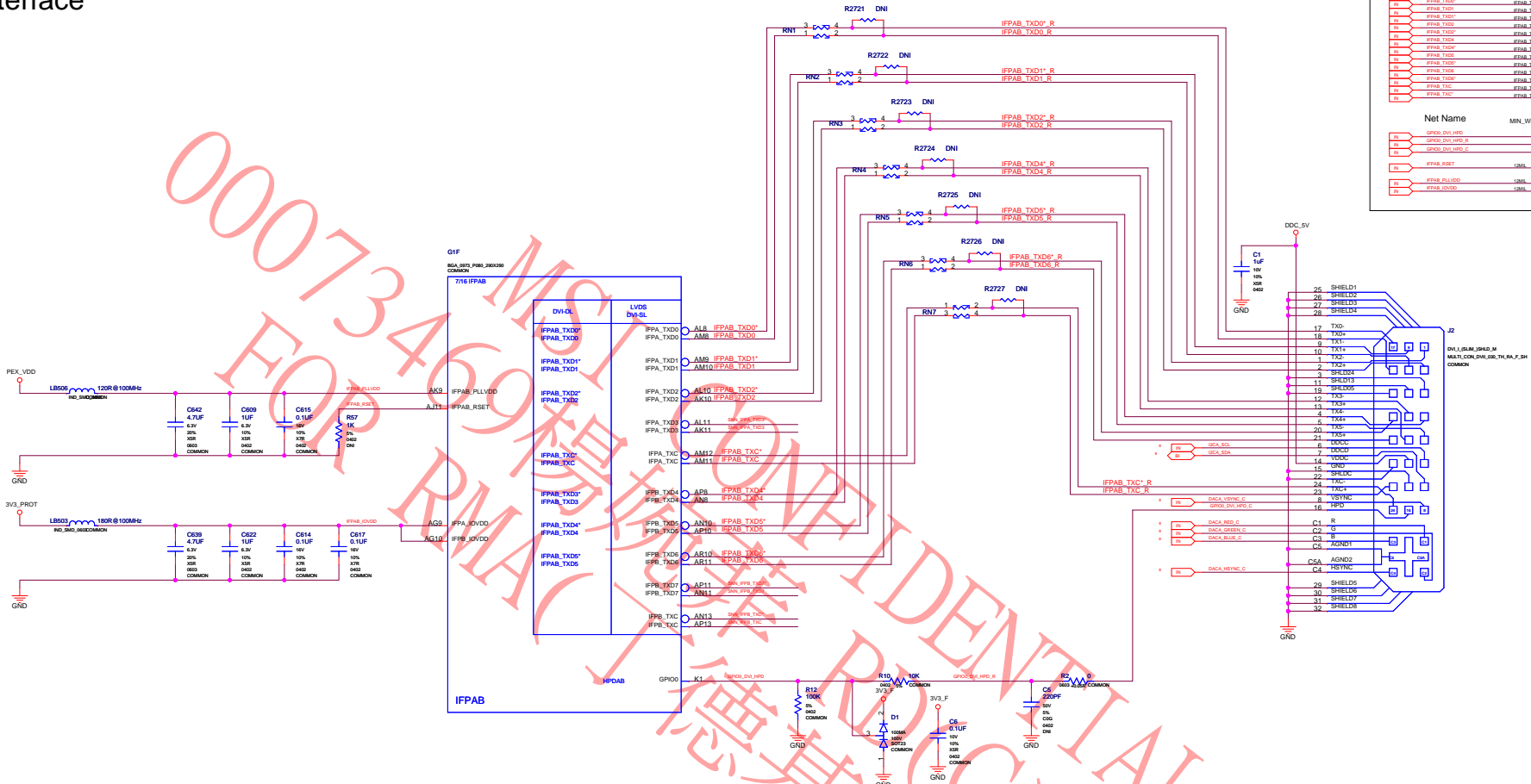
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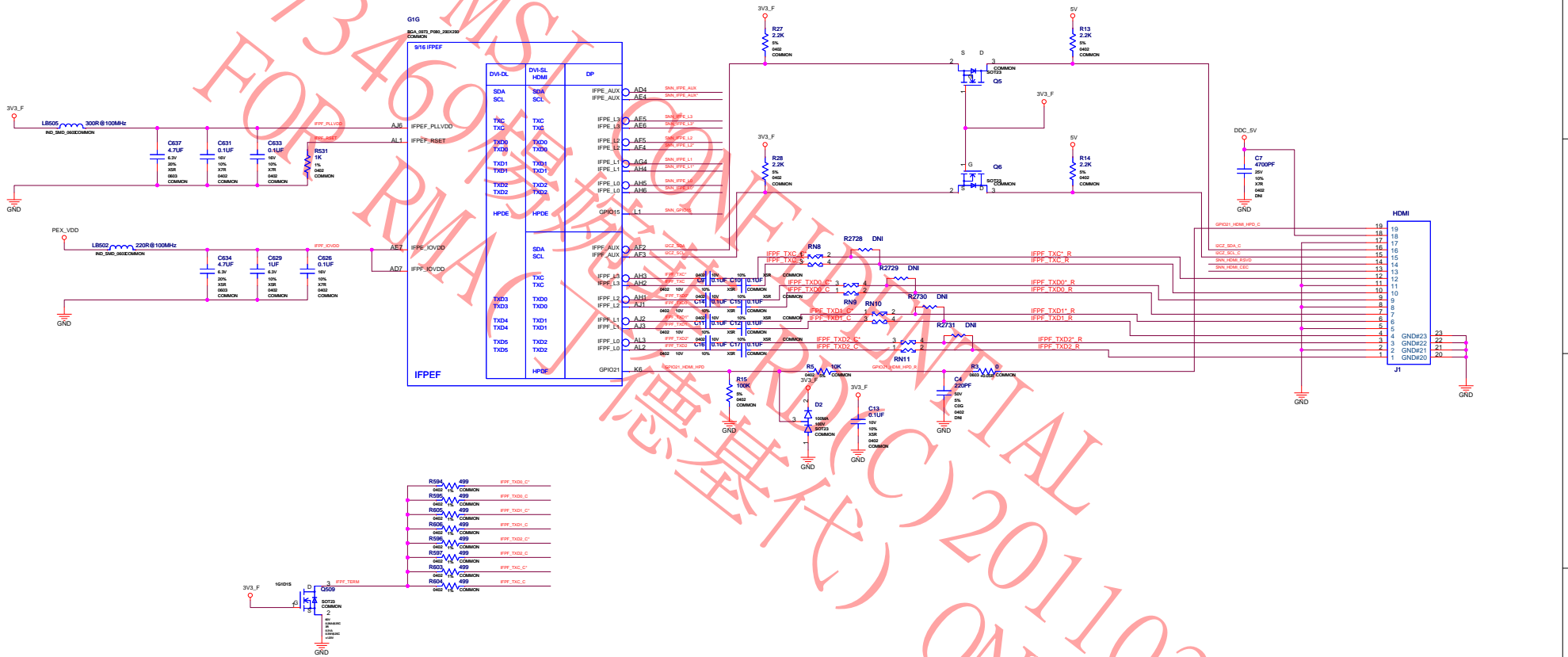
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PAGE DETAIL	DACB VGA Header

TMDS Interface



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HDMI Interface



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IN	RFV_T200	RFV_T200_+	+	50ohm
IN	RFV_T202P	RFV_T202P_+	+	50ohm
IN	RFV_T201	RFV_T201_+	+	50ohm
IN	RFV_T201P	RFV_T201P_+	+	50ohm
IN	RFV_T203	RFV_T203_+	+	50ohm
IN	RFV_T202N	RFV_T202N_+	+	50ohm
IN	RFV_T20	RFV_T20_+	+	50ohm
IN	RFV_T20C	RFV_T20C_+	+	50ohm
IN	RFV_T201C	RFV_T201C_+	+	50ohm
IN	RFV_T200C	RFV_T200C_+	+	50ohm
IN	RFV_T202C	RFV_T202C_+	+	50ohm
IN	RFV_T202C'	RFV_T202C'_+	+	50ohm
IN	RFV_T201C'	RFV_T201C'_+	+	50ohm
IN	RFV_T200C'	RFV_T200C'_+	+	50ohm
IN	RFV_T203C	RFV_T203C_+	+	50ohm
IN	RFV_T203C'	RFV_T203C'_+	+	50ohm
IN	RFV_T20C'	RFV_T20C'_+	+	50ohm
IN	RFV_T20C'	RFV_T20C'_-	-	50ohm

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN	IO2F_B0A			
IN	IO2F_B0L			
IN	IO2F_B0A_C			
IN	IO2F_B0L_C			
IN	IO2F01_KEMM_H0D			
IN	IO2F01_KEMM_H0D_B			
IN	IO2F01_KEMM_H0D_C			
IN	IO2F_TERM	1.0MM	0V	
IN	IO2F_RESET	1.0MM		
IN	IO2F_PLVDED	1.0MM	3.3V	0.100A
IN	IO2F_K0V05	1.0MM	1.00V	0.100A

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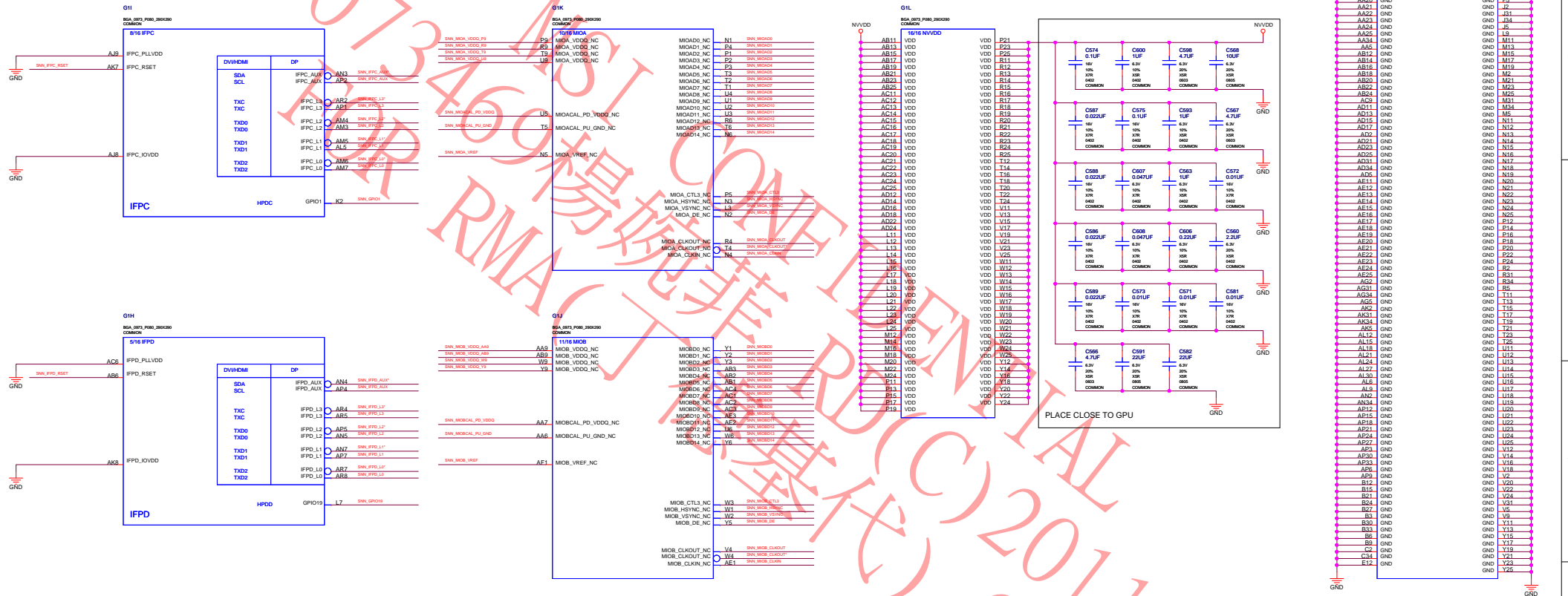
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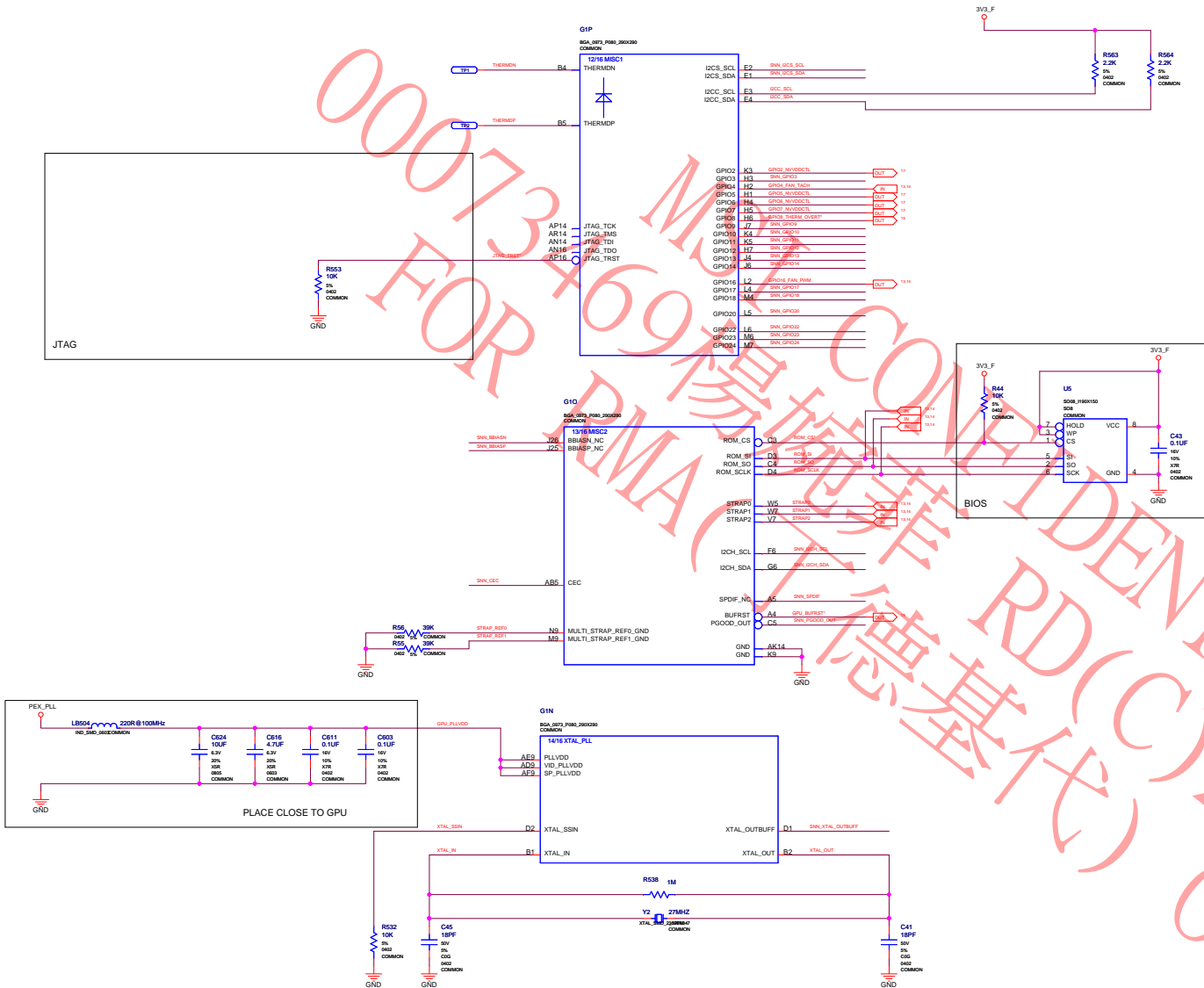
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Unused Interfaces, NVVDD Decoupling



XTAL, ROM, JTAG, Misc



	Net Name	DIFF_PAIR	CRITICAL	IMPEDANCE
IN	ITAL_IN	ITAL	1	SUSST
IN	ITAL_OUT	ITAL	1	SUSST
Net Name				
IN	ITAL_GEN			
IN	THESEN	LMR		
IN	THESEN2	LMR		
IN	JTAG_TCK			
IN	JTAG_TMS			
IN	JTAG_TRST			
IN	JTAG_TDO			
IN	JTAG_TDI			
IN	JTAG_TEST			
IN	STRAP_RESET			
IN	STRAP_RESET1			
IN	SDC_S0L			
IN	SDC_S0A			
IN	SDC_S0L_B			
IN	SDC_S0A_B			
IN	BURM_VCC	LMR	3.3V	
15.1V	GPDS_FAN_TACH			
OUT	GPDS_FAN_PWM			
IN	ROM_CS*			
IN	ROM_CS			
IN	ROM_S0			
IN	ROM_S0			
IN	ROM_SELECT			
15.1V	STRAP0			
15.1V	STRAP1			
15.1V	STRAP2			
IN	CPU_PLVDD	LMR	1.05V	0.06A

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	XTAL, ROM, JTAG, MISC

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NV_PN	600-11071-BASE-SCH
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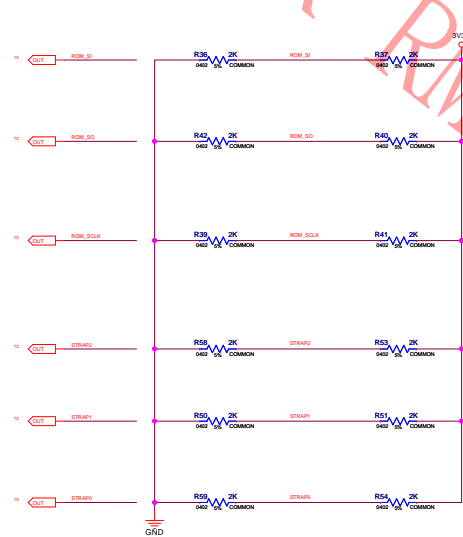
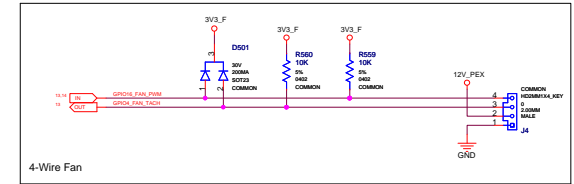
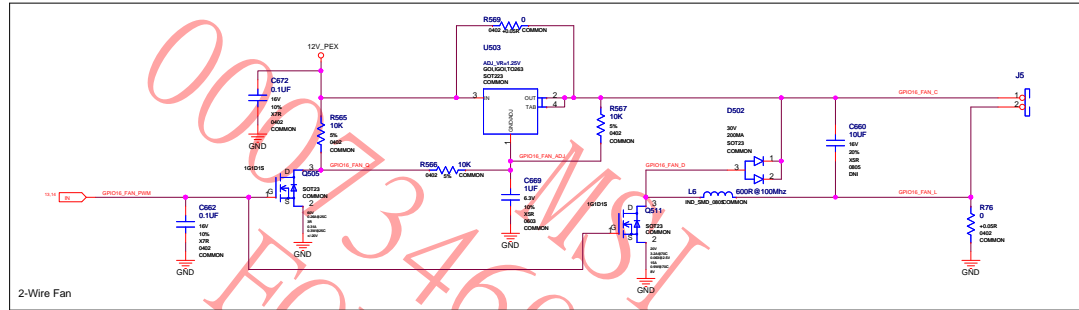
PCB REV	P1071-A01
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BOM REV	A
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A horizontal line with a point labeled H.

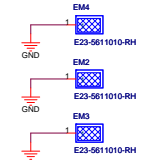
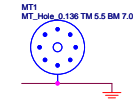
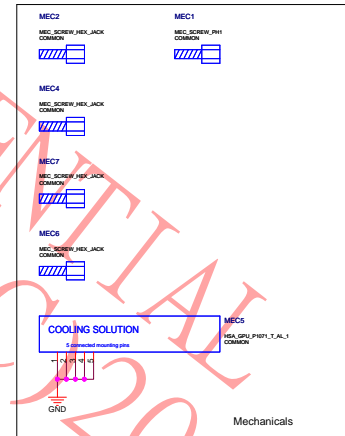
Straps, Thermal, Mechanical



GF108 Straps

Bit Signal Values

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354	RAMCFG2	9610	Normal</



Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
IN GPIO16_FAN_Q			
IN GPIO16_FAN_ADJ			
IN GPIO16_FAN_C			
IN GPIO16_FAN_L			

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Straps, Thermal, Mechanical

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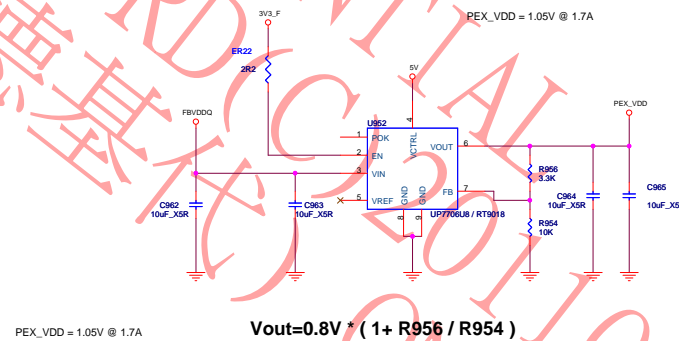
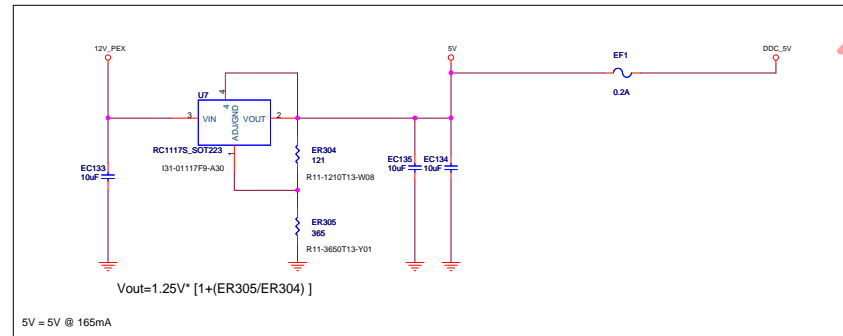
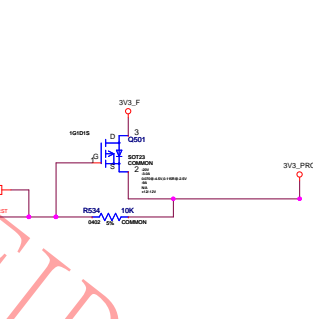
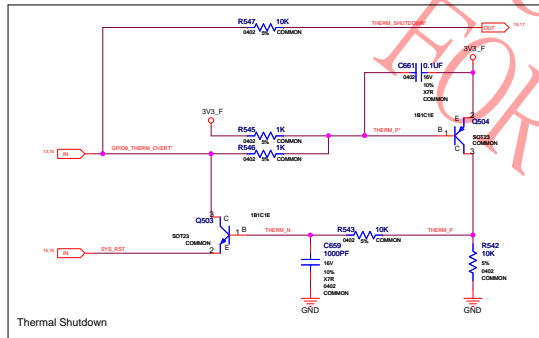
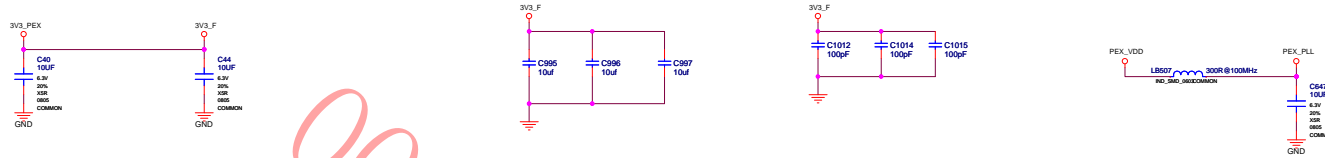
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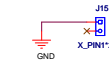
NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-AD1	PAGE	
BOM REV	A	DATE	01-APR-2010

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Power Supply I: Misc Power, Thermal Shutdown



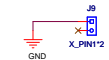
	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
15.17	Q2A	THEIR3_SHUTDOWN		
15.18	Q2B	Q2PWR_THERM_DIVERT		
15.19	Q2C	THEIR3_P		
15.20	Q2D	THEIR3_N		
15.21	Q2E	SV3_R201		
15.22	Q2F	SV3_R202		
15.23	Q2G	PEX_R203		
15.24	Q2H	Q2D_BURST1		
15.25	Q2I	PEX_R204_BURST		
15.26	Q2J	PS_5V1_INTERRUPT	1.00V	
15.27	Q2K	PS_5V1_PROT	1.00V	
15.28	Q2L	PS_PREVIOD_OUT1	1.00V	
15.29	Q2M	PS_PREVIOD_FB	1.00V	
15.30	Q2N	PEX_R11	1.00V	0.255A
15.31	Q2O	PEX_P1	1.00V	0A
15.32	Q2P	PS_VDD1	1.00V	0.260A
15.33	Q2Q	PS_VDD2	1.00V	0.160A
15.34	Q2R	Q2C_V1	0V	0.160A
15.35	Q2S	PEX_VDD	1.00V	1.2A



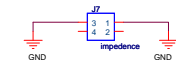
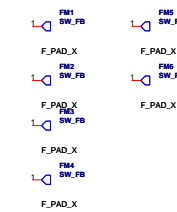
Top
Single Ended_Memory CMD
6.6929 mil
40 ohm +/- 10%



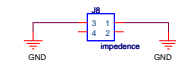
Int3
Single Ended_RGB
4.76377 mil
50 ohm +/- 10%



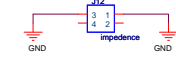
Bottom
Single Ended_Memory Data
3.937 mil
53 ohm +/- 10%



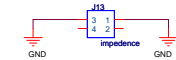
Top
Differential_PCIE BUS
3.94 / 4.72 mil
90 ohm +/- 10%



Int3
Differential_DVI
3.94 / 5.98 mil
90 ohm +/- 10%



Int3
Differential_Memory Clock
4.33 / 4.13 mil
80 ohm +/- 10%



Bottom
Differential_PCIE BUS
3.94 / 4.72 mil
90 ohm +/- 10%

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Power Supply I: Misc Power, Thermal Shutdown

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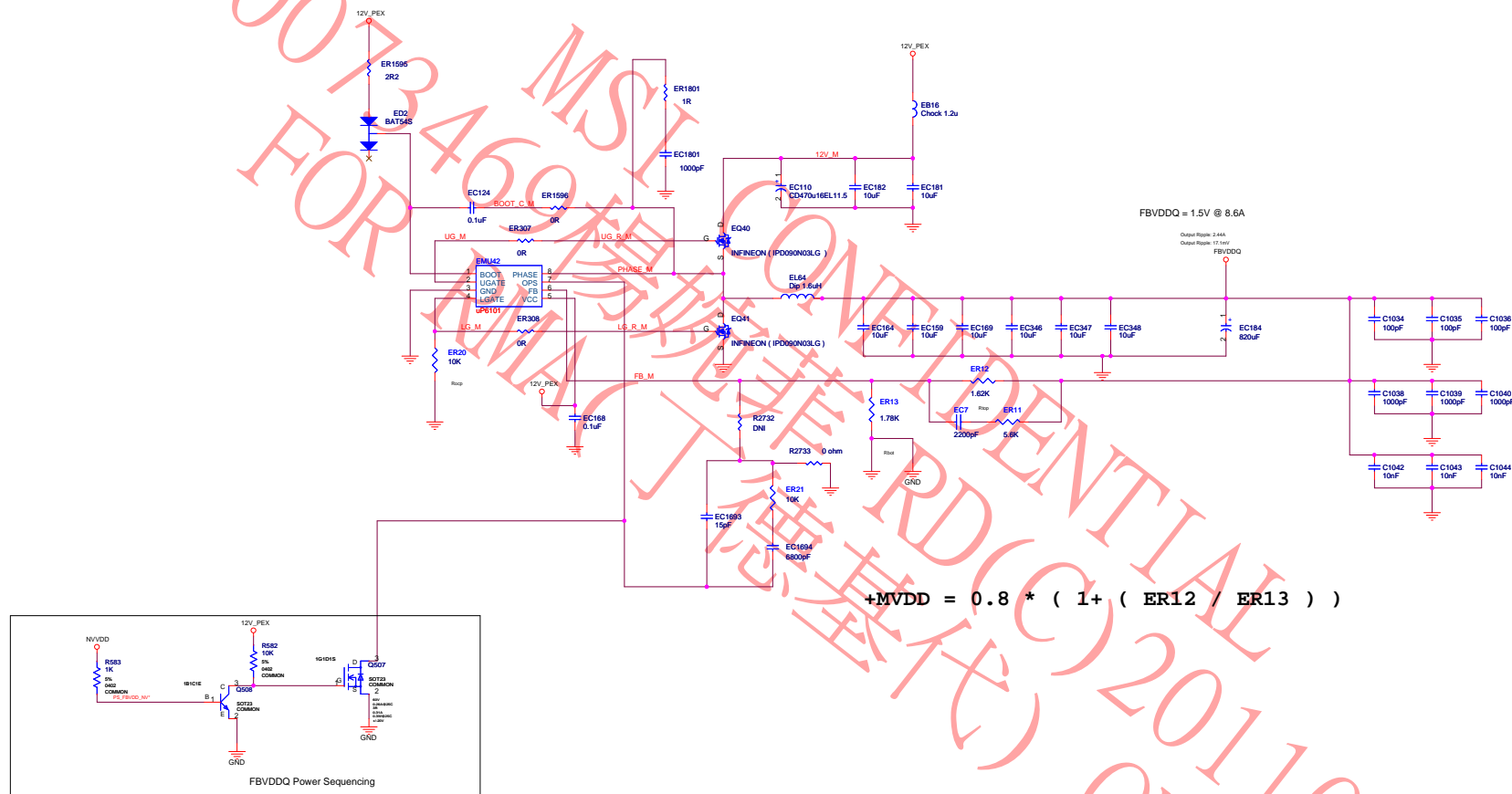


NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOM REV	A	DATE	01-APR-2010

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Power Supply II: FBVDDQ

	Net Name	MIN_WIDTH	VOLTAGE	MAX_CURRENT
PS	PS_FIBRO_VCC	100uL		
PS	PS_FIBRO_VEN	100uL		
PS	PS_FIBRO_EN	100uL		
PS	PS_FIBRO_BOOT	100uL		
PS	PS_FIBRO_BOOT_IC	100uL		
PS	PS_FIBRO_FIB	100uL		
PS	PS_FIBRO_FIB_IC	100uL		
PS	PS_FIBRO_CP_IC	100uL		
PS	PS_FIBRO_LS	100uL		
PS	PS_FIBRO_LS_IC	100uL		
PS	PS_FIBRO_LS	100uL		
PS	PS_FIBRO_POWER	100uL		
PS	PS_FIBRO_SWITCH	100uL		
FIBRO00	FIBRO00	100uL	1.25V	8.0A



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Power Supply II: FBVDDQ

NVIDIA CORPORATION

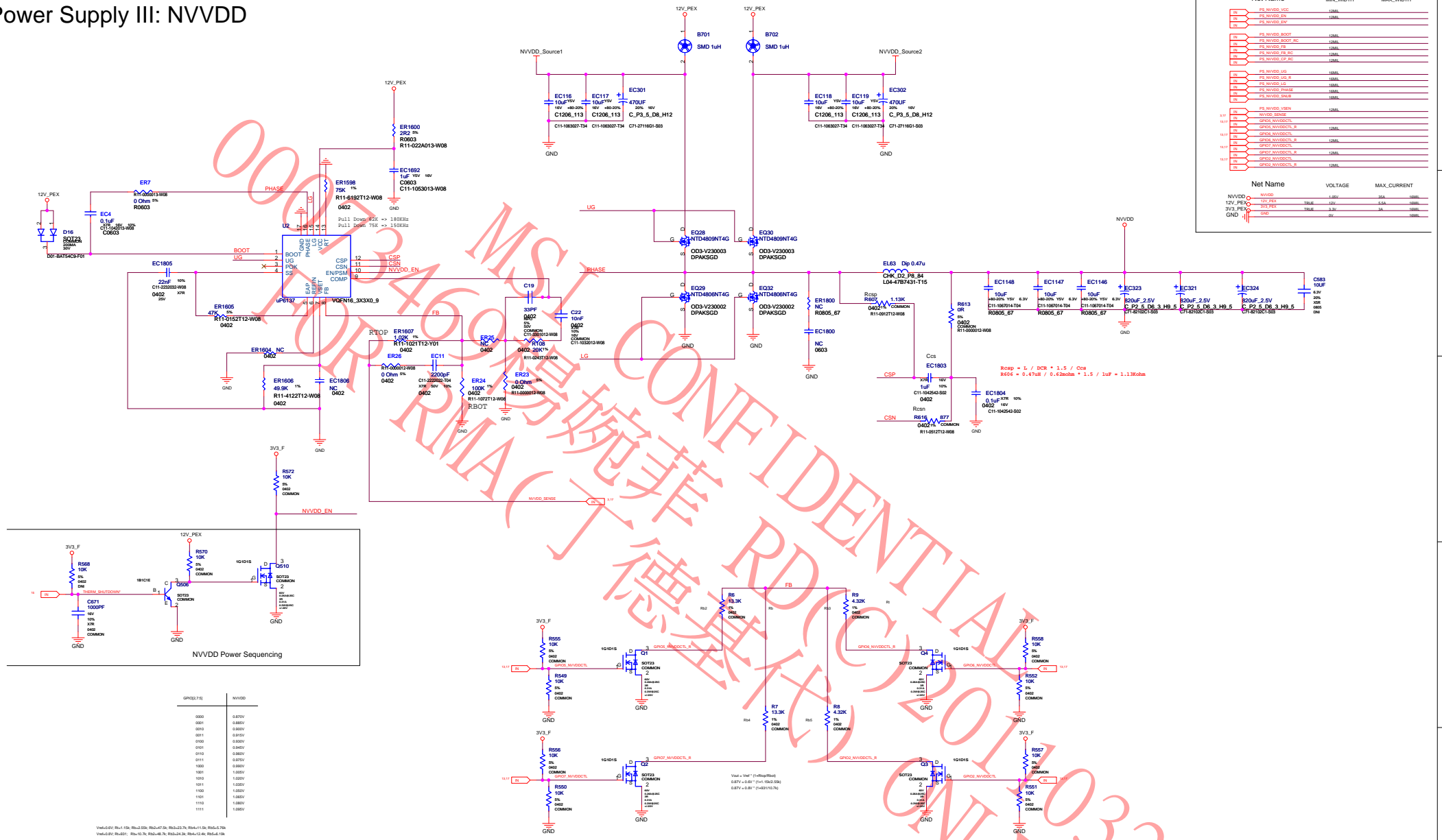
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NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOM REV	A	DATE	01-APR-2010


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Power Supply III: NVVDD



	Net Name	VOLTAGE	MAX_CURRENT
	PS_WVD0_VCC	1.70V	
(N)	PS_WVD0_EN	1.70V	
(N)	PS_WVD0_RST	1.70V	
	PS_WVD0_BOOT	1.70V	
(N)	PS_WVD0_BOOT_ICD	1.70V	
(N)	PS_WVD0_FB	1.60V	
(N)	PS_WVD0_FB_ICD	1.60V	
(N)	PS_WVD0_OP_ICD	1.60V	
	PS_WVD0_SIS	1.60V	
(N)	PS_WVD0_USB_1	1.60V	
(N)	PS_WVD0_L2	1.60V	
(N)	PS_WVD0_POWER	1.60V	
(N)	PS_WVD0_SHIELD	1.60V	
	PS_WVD0_VSEN	1.70V	
(N)	WVD0_SENSOR	1.60V	
0.9 V	GND0_WVD0VECTS_A	1.60V	
	GND0_WVD0VECT_B	1.60V	
0.9 V	GND0_WVD0VECT_C	1.60V	
	GND0_WVD0VECT_D	1.60V	
0.9 V	GND0_WVD0VECT_E	1.60V	
	GND0_WVD0VECT_F	1.60V	
0.9 V	GND0_WVD0VECT_G	1.60V	
	GND0_WVD0VECT_H	1.60V	
	GND0_WVD0VECT_I	1.60V	

	Net Name	VOLTAGE	MAX_CURRENT
NVDD0	NVDD0	1.00V	30A 100%
12V_PEG	12V_PEG	70.0V	5.0A 100%
70V_PEG	70V_PEG	70.0V	5.0A 100%
GND	GND	0V	100%

NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA			
NV_PN	600-11071-BASE-SCH		
PCB REV	P1071-A01	PAGE	
BOM REV	A	DATE	01-APR-2010

A		B		C		D		E		F		G		H	
Title: Baseline Report		5.2F		FBA_201 5.1G+5.3C		FBB_D-38b 4.2E+4F		IGCE_SGL_C 11.1G+11.3G		PEX_T85 3.2A+3.3D		SNN_FBA0_A1 5.3A			
Design: P1071_A01		FBA_CMD-29 4.4C+5.2A+5.2C+5.2E		FBB_D-202 5.1G+5.3E		FBB_D-38c 4.2E+4F		IGCE_T85_T 3.2A+3.3D		PEX_T87 3.2A+3.3D		SNN_FBA0_A11 5.3F			
Date: Mar 31 14:19:50 2010		5.2F		FBA_203 5.1G+5.3F		FBB_D-40 4.2E+5F		IGCE_SDA 11.1G+11.3G		PEX_T88 3.2A+3.3D		SNN_FBA0_J2 5.3A			
Base nms and synonyms for		FBA_CMD-30 4.4C+5.1A+5.1C+5.1E		6.2C+6.4B+		FBB_D-41a 4.2E+5F		IGCE_SDA_C 11.3F		PEX_T89 3.2A+3.3D		SNN_FBA0_L2 5.3C			
P1071_A01 (P1071_A01)@P1071_A01_001_001_001_001_001		5.1F		FBB_D-42 4.1G+4.4D+5.2A+5.2C+5.2E		6.2C+6.4B+		IPFAB_PLVUD0 10.1G+10.3G		PEX_T90 3.2A+3.3D		SNN_FBA0_L20 5.3C			
Base Signal Location(2mm@0.0)		FBA_D-107 4.1A+5.4D		FBB_D-42b 4.2E+5F		FBB_D-42c 4.2E+5F		IPFAB_PLVUD1 10.1G+10.3G		PEX_T91 3.2A+3.3D		SNN_FBA0_L200 5.3C			
2.3V_F5 15.1G		FBA_D-11 4.1A+5.4D		FBB_D-42d 4.2E+5F		FBB_D-42e 4.2E+5F		IPFAB_T8C 10.1G+10.3D		PEX_T92 3.2A+3.3D		SNN_FBA0_L3 5.3C			
2.3V_PEX 17.2H		FBA_D-2 4.1A+5.4D		FBB_D-42f 4.2E+5F		FBB_D-42g 4.2E+5F		IPFAB_T8D 10.1G+10.3D		PEX_T93 3.2A+3.3D		SNN_FBA0_L30 5.3C			
2.3V_PROT 15.1G		FBA_D-3 4.1A+5.4D		FBB_D-42h 4.2E+5F		FBB_D-42i 4.2E+5F		IPFAB_T8E 10.1G+10.3D		PEX_T94 3.2A+3.3D		SNN_FBA0_L4 5.3C			
2V_PEX 17.2H		FBA_D-4 4.1A+5.4D		FBB_D-42j 4.2E+5F		FBB_D-42k 4.2E+5F		IPFAB_T8F 10.1G+10.3D		PEX_T95 3.2A+3.3D		SNN_FBA0_L5 5.3C			
DACA_BLUE_C 8.1G+8.3F+10.3F+		FBA_D-5 4.1A+5.4D		FBB_D-42l 4.2E+5F		FBB_D-42m 4.2E+5F		IPFAB_T8G 10.1G+10.3D		PEX_T96 3.2A+3.3D		SNN_FBA0_L6 5.3C			
DACA_GREEN 8.1G+8.3C		FBA_D-6 4.1A+5.4D		FBB_D-42n 4.2E+5F		FBB_D-42o 4.2E+5F		IPFAB_T8H 10.1G+10.3D		PEX_T97 3.2A+3.3D		SNN_FBA0_L7 5.3C			
DACA_GREEN_C 8.1G+8.4F+10.3F+		FBA_D-7 4.1A+5.4D		FBB_D-42p 4.2E+5F		FBB_D-42q 4.2E+5F		IPFAB_T8I 10.1G+10.3D		PEX_T98 3.2A+3.3D		SNN_FBA0_L8 5.3C			
DACA_HSYNC 8.1G+8.3C		FBA_D-8 4.1A+5.4D		FBB_D-42r 4.2E+5F		FBB_D-42s 4.2E+5F		IPFAB_T8J 10.1G+10.3D		PEX_T99 3.2A+3.3D		SNN_FBA0_L9 5.3C			
DACA_HSYNC_C 8.1G+8.3F+10.3F+		FBA_D-9 4.1A+5.4D		FBB_D-42t 4.2E+5F		FBB_D-42u 4.2E+5F		IPFAB_T8K 10.1G+10.3D		PEX_T00 3.2C+3.3A+		SNN_FBA0_L10 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-10 4.1A+5.4D		FBB_D-42v 4.2E+5F		FBB_D-42w 4.2E+5F		IPFAB_T8L 10.1G+10.3D		PEX_T01 3.2C+3.3A+		SNN_FBA0_L11 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-11 4.1A+5.4D		FBB_D-42x 4.2E+5F		FBB_D-42y 4.2E+5F		IPFAB_T8M 10.1G+10.3D		PEX_T02 3.2C+3.3A+		SNN_FBA0_L12 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-12 4.1A+5.4D		FBB_D-42z 4.2E+5F		FBB_D-42aa 4.2E+5F		IPFAB_T8N 10.1G+10.3D		PEX_T03 3.2C+3.3A+		SNN_FBA0_L13 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-13 4.1A+5.4D		FBB_D-42ab 4.2E+5F		FBB_D-42ac 4.2E+5F		IPFAB_T8O 10.1G+10.3D		PEX_T04 3.2C+3.3A+		SNN_FBA0_L14 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-14 4.1A+5.4D		FBB_D-42ad 4.2E+5F		FBB_D-42ae 4.2E+5F		IPFAB_T8P 10.1G+10.3D		PEX_T05 3.2C+3.3A+		SNN_FBA0_L15 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-15 4.1A+5.4D		FBB_D-42af 4.2E+5F		FBB_D-42ag 4.2E+5F		IPFAB_T8Q 10.1G+10.3D		PEX_T06 3.2C+3.3A+		SNN_FBA0_L16 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-16 4.1A+5.4D		FBB_D-42ah 4.2E+5F		FBB_D-42ai 4.2E+5F		IPFAB_T8R 10.1G+10.3D		PEX_T07 3.2C+3.3A+		SNN_FBA0_L17 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-17 4.1A+5.4E		FBB_D-42aj 4.2E+5F		FBB_D-42ak 4.2E+5F		IPFAB_T8S 10.1G+10.3D		PEX_T08 3.2C+3.3A+		SNN_FBA0_L18 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-18 4.2A+5.4E		FBB_D-42am 4.2E+5F		FBB_D-42an 4.2E+5F		IPFAB_T8T 10.1G+10.3D		PEX_T09 3.2C+3.3A+		SNN_FBA0_L19 5.3C			
DACA_GREEN_C 9.1G+9.3F+10.3F+		FBA_D-19 4.2A+5.4E		FBB_D-42ao 4.2E+5F		FBB_D-42ap 4.2E+5F		IPFAB_T8U 10.1G+10.3D		PEX_T10 3.2C+3.3A+		SNN_FBA0_L20 5.3C			
DACA_VIS_BUF 8.1G+8.3D		FBA_D-20 4.2A+5.4E		FBB_D-42aq 4.2E+5F		FBB_D-42ar 4.2E+5F		IPFAB_T8V 10.1G+10.3D		PEX_T11 3.2C+3.3A+		SNN_FBA0_L21 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-22 4.2A+5.4E		6.2F		FBB_D-42as 4.2E+5F		IPFAB_T8W 10.1G+10.3D		PEX_T12 3.2C+3.3A+		SNN_FBA0_L22 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-23 4.2A+5.4E		FBB_D-42at 4.2E+5F		FBB_D-42au 4.2E+5F		IPFAB_T8X 10.1G+10.3D		PEX_T13 3.2C+3.3A+		SNN_FBA0_L23 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-24 4.2A+5.4E		FBB_D-42av 4.2E+5F		FBB_D-42aw 4.2E+5F		IPFAB_T8Y 10.1G+10.3D		PEX_T14 3.2C+3.3A+		SNN_FBA0_L24 5.3C			
DACA_GREEN_C 9.1G+9.4E		FBA_D-25 4.2A+5.5E		FBB_D-42ax 4.2E+5F		FBB_D-42ay 4.2E+5F		IPFAB_T8Z 10.1G+10.3D		PEX_T15 3.2C+3.3A+		SNN_FBA0_L25 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-26 4.2A+5.5E		FBB_D-42ba 4.2E+5F		FBB_D-42bb 4.2E+5F		IPFAB_T8AA 10.1G+10.3D		PEX_T16 3.2C+3.3A+		SNN_FBA0_L26 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-27 4.2A+5.5E		FBB_D-42bc 4.2E+5F		FBB_D-42bd 4.2E+5F		IPFAB_T8AB 10.1G+10.3D		PEX_T17 3.2C+3.3A+		SNN_FBA0_L27 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-28 4.2A+5.5E		FBB_D-42be 4.2E+5F		FBB_D-42bf 4.2E+5F		IPFAB_T8AC 10.1G+10.3D		PEX_T18 3.2C+3.3A+		SNN_FBA0_L28 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-29 4.2A+5.5E		FBB_D-42bg 4.2E+5F		FBB_D-42b0 4.2E+5F		IPFAB_T8AD 10.1G+10.3D		PEX_T19 3.2C+3.3A+		SNN_FBA0_L29 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-30 4.2A+5.5E		FBB_D-42bh 4.2E+5F		FBB_D-42bi 4.2E+5F		IPFAB_T8AE 10.1G+10.3D		PEX_T20 3.2C+3.3A+		SNN_FBA0_L30 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-31 4.2A+5.5E		FBB_D-42bj 4.2E+5F		FBB_D-42bk 4.2E+5F		IPFAB_T8AF 10.1G+10.3D		PEX_T21 3.2C+3.3A+		SNN_FBA0_L31 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-32 4.2A+5.5E		FBB_D-42bl 4.2E+5F		FBB_D-42bm 4.2E+5F		IPFAB_T8AG 10.1G+10.3D		PEX_T22 3.2C+3.3A+		SNN_FBA0_L32 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-33 4.2A+5.5E		FBB_D-42bn 4.2E+5F		FBB_D-42bo 4.2E+5F		IPFAB_T8AH 10.1G+10.3D		PEX_T23 3.2C+3.3A+		SNN_FBA0_L33 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-34 4.2A+5.5E		FBB_D-42bp 4.2E+5F		FBB_D-42bq 4.2E+5F		IPFAB_T8AI 10.1G+10.3D		PEX_T24 3.2C+3.3A+		SNN_FBA0_L34 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-35 4.2A+5.5E		FBB_D-42br 4.2E+5F		FBB_D-42bs 4.2E+5F		IPFAB_T8AJ 10.1G+10.3D		PEX_T25 3.2C+3.3A+		SNN_FBA0_L35 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-36 4.2A+5.5E		FBB_D-42bt 4.2E+5F		FBB_D-42bu 4.2E+5F		IPFAB_T8AK 10.1G+10.3D		PEX_T26 3.2C+3.3A+		SNN_FBA0_L36 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-37 4.2A+5.5E		FBB_D-42bv 4.2E+5F		FBB_D-42bw 4.2E+5F		IPFAB_T8AL 10.1G+10.3D		PEX_T27 3.2C+3.3A+		SNN_FBA0_L37 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-38 4.2A+5.5E		FBB_D-42bx 4.2E+5F		FBB_D-42by 4.2E+5F		IPFAB_T8AM 10.1G+10.3D		PEX_T28 3.2C+3.3A+		SNN_FBA0_L38 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-39 4.2A+5.5E		FBB_D-42bz 4.2E+5F		FBB_D-42c0 4.2E+5F		IPFAB_T8AN 10.1G+10.3D		PEX_T29 3.2C+3.3A+		SNN_FBA0_L39 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-40 4.2A+5.5E		FBB_D-42c1 4.2E+5F		FBB_D-42c2 4.2E+5F		IPFAB_T8AO 10.1G+10.3D		PEX_T30 3.2C+3.3A+		SNN_FBA0_L40 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-41 4.2A+5.5E		FBB_D-42c3 4.2E+5F		FBB_D-42c4 4.2E+5F		IPFAB_T8AP 10.1G+10.3D		PEX_T31 3.2C+3.3A+		SNN_FBA0_L41 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-42 4.2A+5.5E		FBB_D-42c5 4.2E+5F		FBB_D-42c6 4.2E+5F		IPFAB_T8AQ 10.1G+10.3D		PEX_T32 3.2C+3.3A+		SNN_FBA0_L42 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-43 4.2A+5.5E		FBB_D-42c7 4.2E+5F		FBB_D-42c8 4.2E+5F		IPFAB_T8AR 10.1G+10.3D		PEX_T33 3.2C+3.3A+		SNN_FBA0_L43 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-44 4.2A+5.5E		FBB_D-42c9 4.2E+5F		FBB_D-42ca 4.2E+5F		IPFAB_T8AS 10.1G+10.3D		PEX_T34 3.2C+3.3A+		SNN_FBA0_L44 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-45 4.2A+5.5E		FBB_D-42cb 4.2E+5F		FBB_D-42cc 4.2E+5F		IPFAB_T8AT 10.1G+10.3D		PEX_T35 3.2C+3.3A+		SNN_FBA0_L45 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-46 4.2A+5.5E		FBB_D-42cd 4.2E+5F		FBB_D-42cd 4.2E+5F		IPFAB_T8AU 10.1G+10.3D		PEX_T36 3.2C+3.3A+		SNN_FBA0_L46 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-47 4.2A+5.5E		FBB_D-42ce 4.2E+5F		FBB_D-42ce 4.2E+5F		IPFAB_T8AV 10.1G+10.3D		PEX_T37 3.2C+3.3A+		SNN_FBA0_L47 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-48 4.2A+5.5E		FBB_D-42cf 4.2E+5F		FBB_D-42cf 4.2E+5F		IPFAB_T8AW 10.1G+10.3D		PEX_T38 3.2C+3.3A+		SNN_FBA0_L48 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-49 4.2A+5.5E		FBB_D-42cg 4.2E+5F		FBB_D-42cg 4.2E+5F		IPFAB_T8AX 10.1G+10.3D		PEX_T39 3.2C+3.3A+		SNN_FBA0_L49 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-50 4.2A+5.5E		FBB_D-42ch 4.2E+5F		FBB_D-42ch 4.2E+5F		IPFAB_T8AY 10.1G+10.3D		PEX_T40 3.2C+3.3A+		SNN_FBA0_L50 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-51 4.2A+5.5E		FBB_D-42ci 4.2E+5F		FBB_D-42ci 4.2E+5F		IPFAB_T8AZ 10.1G+10.3D		PEX_T41 3.2C+3.3A+		SNN_FBA0_L51 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-52 4.2A+5.5E		FBB_D-42cj 4.2E+5F		FBB_D-42cj 4.2E+5F		IPFAB_T8BA 10.1G+10.3D		PEX_T42 3.2C+3.3A+		SNN_FBA0_L52 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-53 4.2A+5.5E		FBB_D-42ck 4.2E+5F		FBB_D-42ck 4.2E+5F		IPFAB_T8BB 10.1G+10.3D		PEX_T43 3.2C+3.3A+		SNN_FBA0_L53 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-54 4.2A+5.5E		FBB_D-42cl 4.2E+5F		FBB_D-42cl 4.2E+5F		IPFAB_T8BC 10.1G+10.3D		PEX_T44 3.2C+3.3A+		SNN_FBA0_L54 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-55 4.2A+5.5E		FBB_D-42cm 4.2E+5F		FBB_D-42cm 4.2E+5F		IPFAB_T8BD 10.1G+10.3D		PEX_T45 3.2C+3.3A+		SNN_FBA0_L55 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-56 4.2A+5.5E		FBB_D-42cn 4.2E+5F		FBB_D-42cn 4.2E+5F		IPFAB_T8BE 10.1G+10.3D		PEX_T46 3.2C+3.3A+		SNN_FBA0_L56 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-57 4.2A+5.5E		FBB_D-42co 4.2E+5F		FBB_D-42co 4.2E+5F		IPFAB_T8BF 10.1G+10.3D		PEX_T47 3.2C+3.3A+		SNN_FBA0_L57 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-58 4.2A+5.5E		FBB_D-42cp 4.2E+5F		FBB_D-42cp 4.2E+5F		IPFAB_T8BG 10.1G+10.3D		PEX_T48 3.2C+3.3A+		SNN_FBA0_L58 5.3C			
DACA_BLUE_C 9.1G+9.3C		FBA_D-59 4.2A+5.5E		FBB_D-42cq 4.2E+5F		FBB_D-42cq 4.2E+5F		IPFAB_T8BH 10.1G+10.3D		PEX_T49 3.2C+3.3A+		SNN_FBA0_L59 5.3C			
DACA_GREEN 9.1G+9.4C		FBA_D-60 4.2A+5.5E		FBB_D-42cr 4.2E+5F		FBB_D-42cr 4.2E+5F		IPFAB_T8BI 10.1G+10.3D		PEX_T50 3.2C+3.3A+		SNN_FBA0_L60 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-61 4.2A+5.5E		FBB_D-42cs 4.2E+5F		FBB_D-42cs 4.2E+5F		IPFAB_T8BJ 10.1G+10.3D		PEX_T51 3.2C+3.3A+		SNN_FBA0_L61 5.3C			
DACA_HSYNC 9.1G+9.3C		FBA_D-62 4.2A+5.5E		FBB_D-42ct 4.2E+5F		FBB_D-42ct 4.2E+5F		IPFAB_T8BK 10.1G+10.3D		PEX_T52 3.2C+3.3A+		SNN_FBA0_L62 5.3C			
DACA_HSYNC_C 9.1G+9.3C		FBA_D-63 4.2A+5.5E		FBB_D-42cu 4.2E+5F		FBB_D-42cu 4.2E+5F		IPFAB_T8BL 10.1G+10.3D		PEX_T53 3.2C+3.3A+		SNN_FBA0_L63 5.3C			
DACA_BLUE 9.1G+9.4C		FBA_D-64 4.2A+5.5E		FBB_D-42cv 4.2E+5F		FBB_D-42cv 4.2E+5F		IPFAB_T8BM 10.1G+10.3D		PEX_T54 3.2C+3.3A+		SNN_FBA0_L64 5.3C			
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DACA_GREEN 9.1G+9.4C		FBA_D-66 4.2A+5.5E		FBB_D-42cx 4.2E+5F		FBB_D-42cx 4.2E+5F		IPFAB_T8BO 10.1G+10.3D		PEX_T56 3.2C+3.3A+		SNN_FBA0_L66 5.3C			
DACA_GREEN_C 9.1G+9.4C		FBA_D-67 4.2A													

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										C128 (12.31)										C128 (12.31)										D073 (10.30)										R82 (15.20)										R597 (13.10)																													
										C129 (12.31)										C129 (12.31)										D074 (10.30)										R83 (15.20)										R598 (13.10)																													
										C130 (12.31)										C130 (12.31)										D075 (10.30)										R84 (15.20)										R599 (13.10)																													
										C131 (12.31)										C131 (12.31)										D076 (10.30)										R85 (15.20)										R600 (13.10)																													
										C132 (12.31)										C132 (12.31)										D077 (10.30)										R86 (15.20)										R601 (13.10)																													
										C133 (12.31)										C133 (12.31)										D078 (10.30)										R87 (15.20)										R602 (13.10)																													
										C134 (12.31)										C134 (12.31)										D079 (10.30)										R88 (15.20)										R603 (13.10)																													
										C135 (12.31)										C135 (12.31)										D080 (10.30)										R89 (15.20)										R604 (13.10)																													
										C136 (12.31)										C136 (12.31)										D081 (10.30)										R90 (15.20)										R605 (13.10)																													
										C137 (12.31)										C137 (12.31)										D082 (10.30)										R91 (15.20)										R606 (13.10)																													
										C138 (12.31)										C138 (12.31)										D083 (10.30)										R92 (15.20)										R607 (13.10)																													
										C139 (12.31)										C139 (12.31)										D084 (10.30)										R93 (15.20)										R608 (13.10)																													
										C140 (12.31)										C140 (12.31)										D085 (10.30)										R94 (15.20)										R609 (13.10)																													
										C141 (12.31)										C141 (12.31)										D086 (10.30)										R95 (15.20)										R610 (13.10)																													
										C142 (12.31)										C142 (12.31)										D087 (10.30)										R96 (15.20)										R611 (13.10)																													
										C143 (12.31)										C143 (12.31)										D088 (10.30)										R97 (15.20)										R612 (13.10)																													
										C144 (12.31)										C144 (12.31)										D089 (10.30)										R98 (15.20)										R613 (13.10)																													
										C145 (12.31)										C145 (12.31)										D090 (10.30)										R99 (15.20)										R614 (13.10)																													
										C146 (12.31)										C146 (12.31)										D091 (10.30)										R100 (15.20)										R615 (13.10)																													
										C147 (12.31)										C147 (12.31)										D092 (10.30)										R101 (15.20)										R616 (13.10)																													
										C148 (12.31)										C148 (12.31)										D093 (10.30)										R102 (15.20)										R617 (13.10)																													
										C149 (12.31)										C149 (12.31)										D094 (10.30)										R103 (15.20)										R618 (13.10)																													
										C150 (12.31)										C150 (12.31)										D095 (10.30)										R104 (15.20)										R619 (13.10)																													
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										C157 (12.31)										C157 (12.31)										D102 (10.30)										R111 (15.20)										R626 (13.10)																													
										C158 (12.31)										C158 (12.31)										D103 (10.30)										R112 (15.20)										R627 (13.10)																													
										C159 (12.31)										C159 (12.31)										D104 (10.30)										R113 (15.20)										R628 (13.10)																													
										C160 (12.31)										C160 (12.31)										D105 (10.30)										R114 (15.20)										R629 (13.10)																													
										C161 (12.31)										C161 (12.3																																																											