V064 G73 7600GS DDR2

0A

base on 8988 modify, for G73 chip remove DDR dram add DDR2 dram add RT9218 for FBVDDQ

0B

schematic no any component change.

PAGE SUMMARY:

8981 Ver: 00A modify P229-B01 Summary

Page 11. Add Video in connect to mini-din 10 pin & remove J5.

Page 12. Add DVI-I common choke.

Page 13. Connect net MIOBD 2, MIOBD 6 & MIOBD 7 to BUS.

Page 15. Modify Power ,PWM change to ISL6549.

Page 16. Add Video function.

8988 Ver: 00A modify 8981-100 Summary

Page 02. Delete PCI-E connector

Page 15. Change 5V power supply to BR02VDD & Add sequence

Page 17,18,19,20. Add BR02 bradge circuit

8988 Ver: 00A BOM

SKU000:MSI 602-8988-A10 MS-8988 00A NV43/VGA/DVI-I/VHT-10/256M DDR (Hynix 16*16-4)

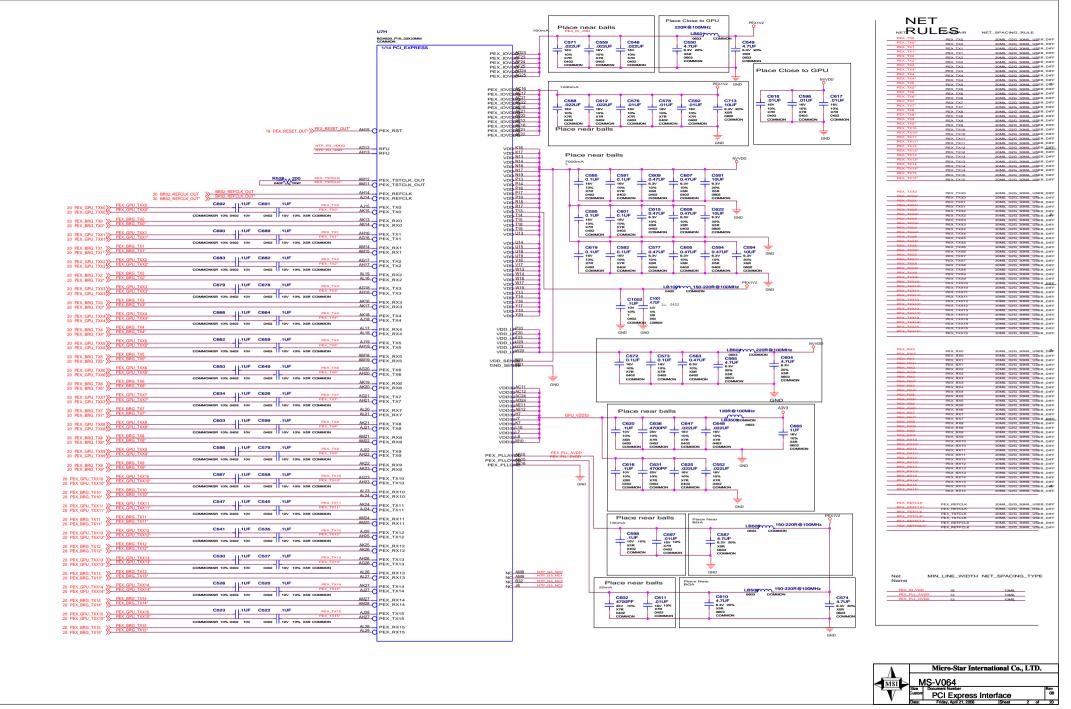
SKU001:MSI 602-8988-A20 MS-8988 00A OPT:A NV43/VGA/DVI-I/VHT-10/128M DDR(Samsung 8*16-3.6)

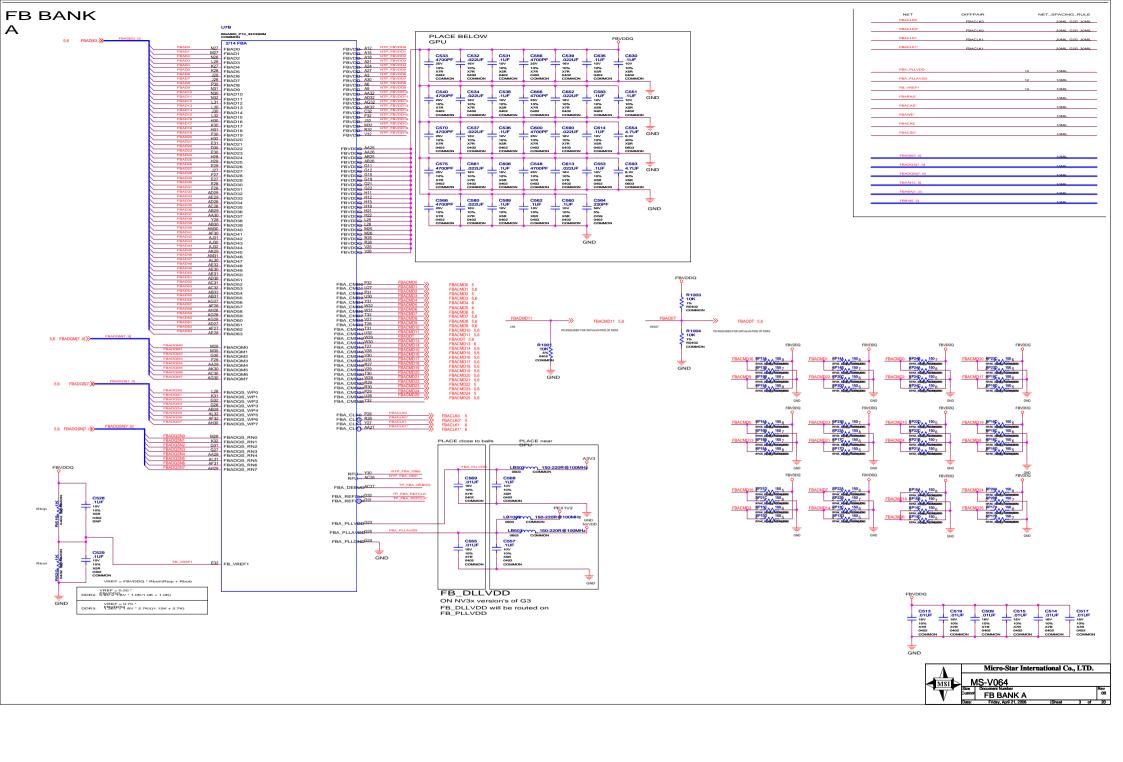
REVISION HISTORY:

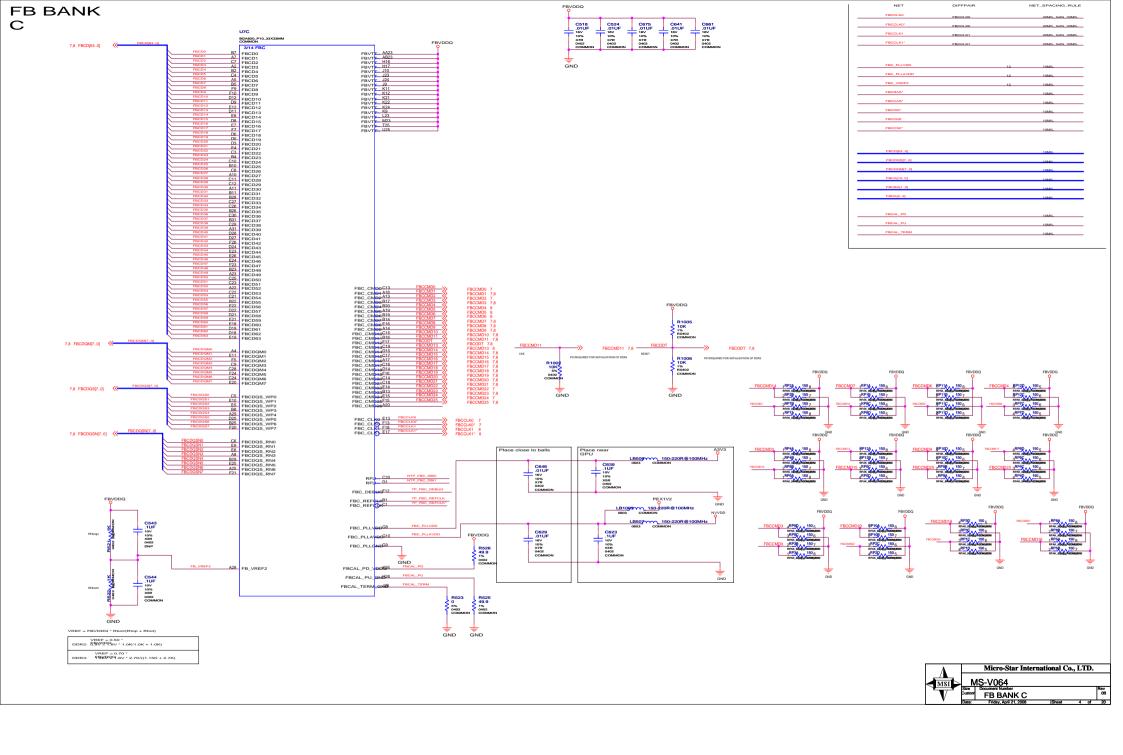
X1 Initial Release

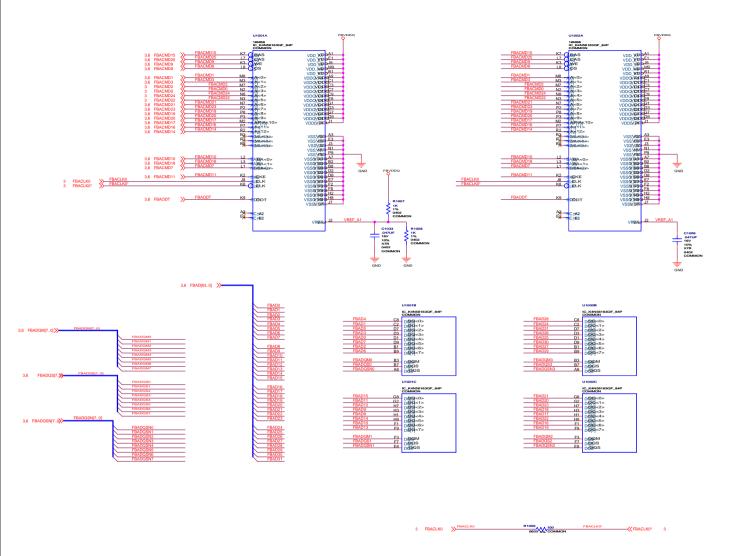
sku	VARIANT	NVPN	ASSEMBLY
В	BASE	600-10229-BASE-SCH	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES
- 1	nv43dvivgatv128m16x	600-10229-0002-101	PASS-BOM-NAS GIEN-DVI-I/VGA/S-VIDEO 128MB
2	nv43dvivgatv128m8x	600-10229-0003-101	MSMSTSQR3 GEN DVI-I/VGA/HDTV 128MB 8Mx16
3	43gldvivgatv128m8x	600-50229-0001-101	FSRPB01 NV43-GL GEN DVI-I/VGA/HDTV 128MB
4	nv43dvivgatv256m16x	600-10229-0004-101	BM対象がRV43 GEN DVI-I/VGA/HDTV 256MB 16Mx16
5	<undefined></undefined>	<undefined></undefined>	ISQBefineD>
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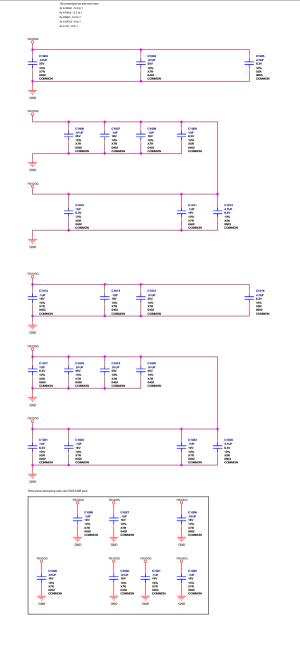




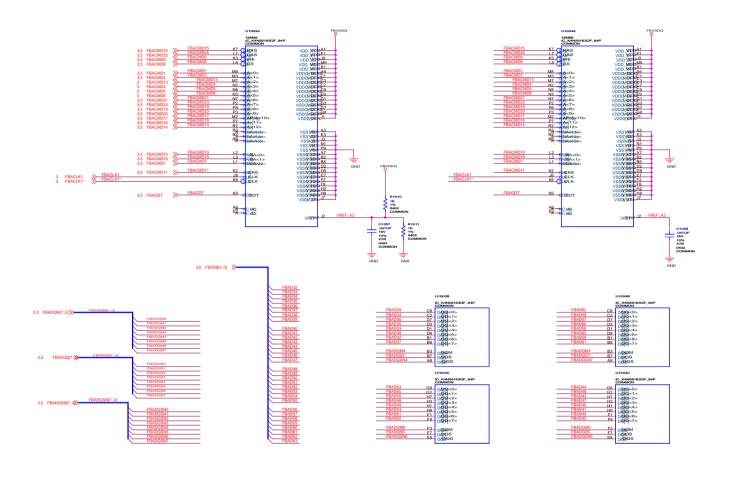






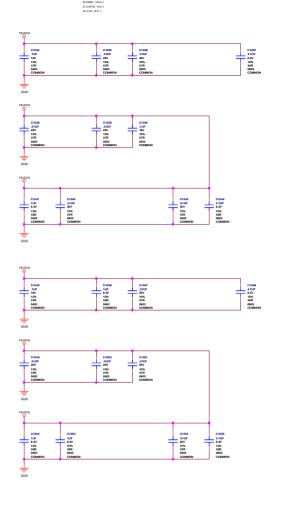






3 FBACLK1 ≫FBACLK1

R1012 100 FBACLK1" (FBACLK1" 3

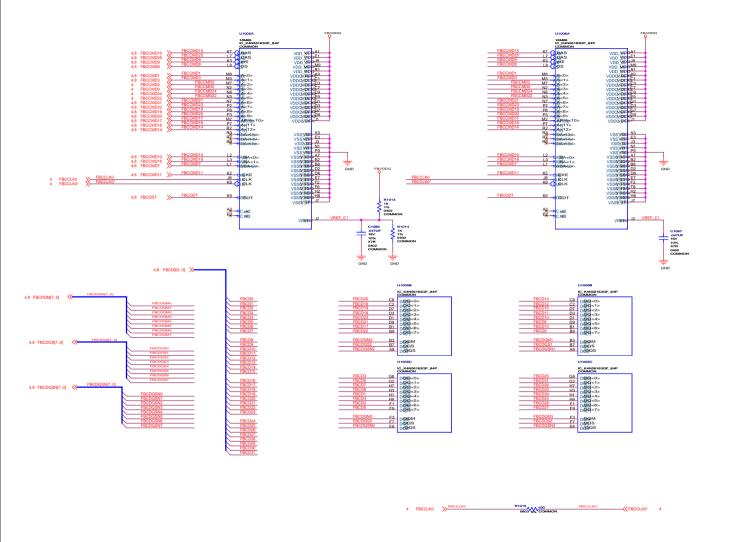


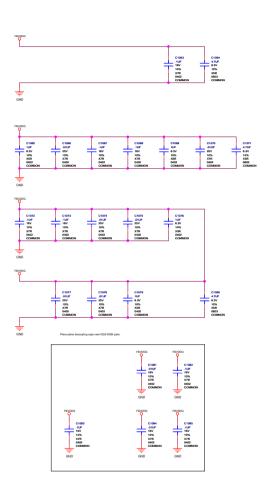


Micro-Star International Co., LTD.

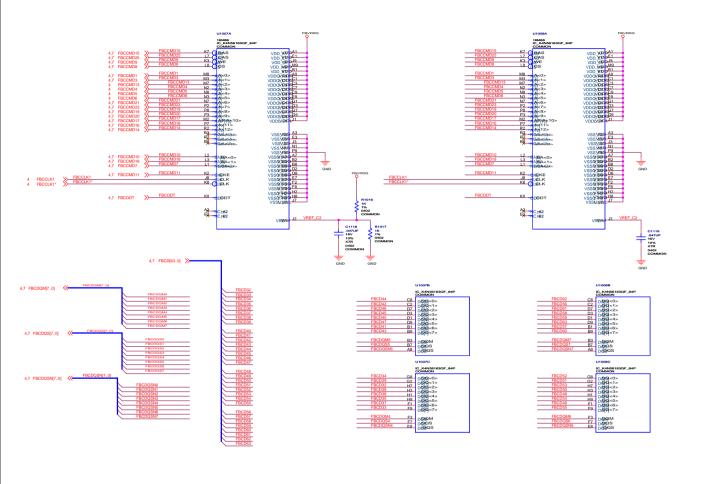
MS-V064
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Date: Friday, Apri 21, 2006 Sheet 6 of 25





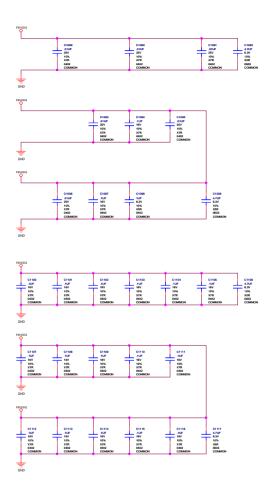


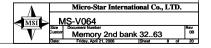




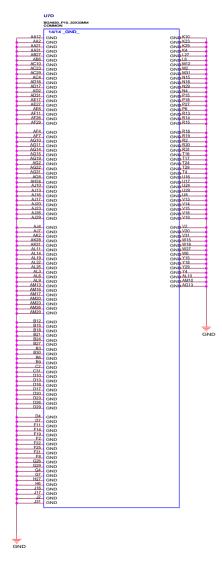
4 FBCCLK1 ≫FBCCLK1

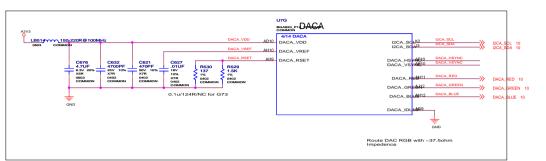
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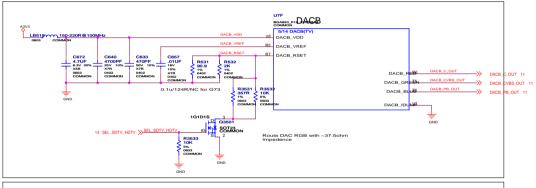


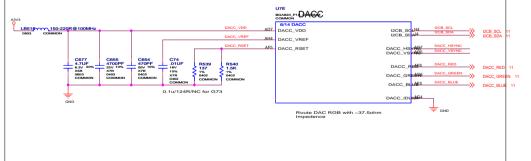


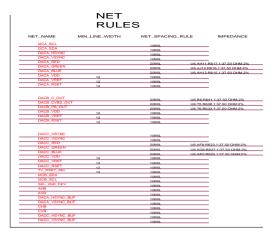
GND, DACA, DACB, DACC



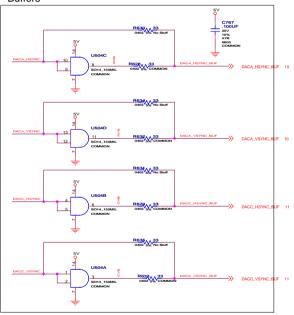




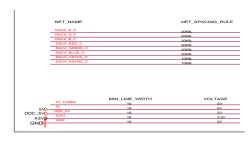


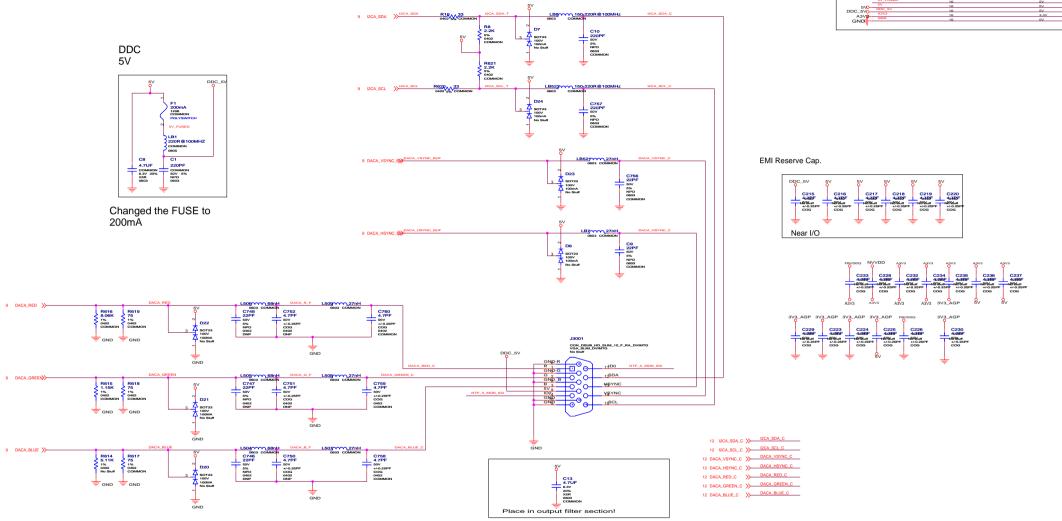


DACA & DACC Sync Buffers



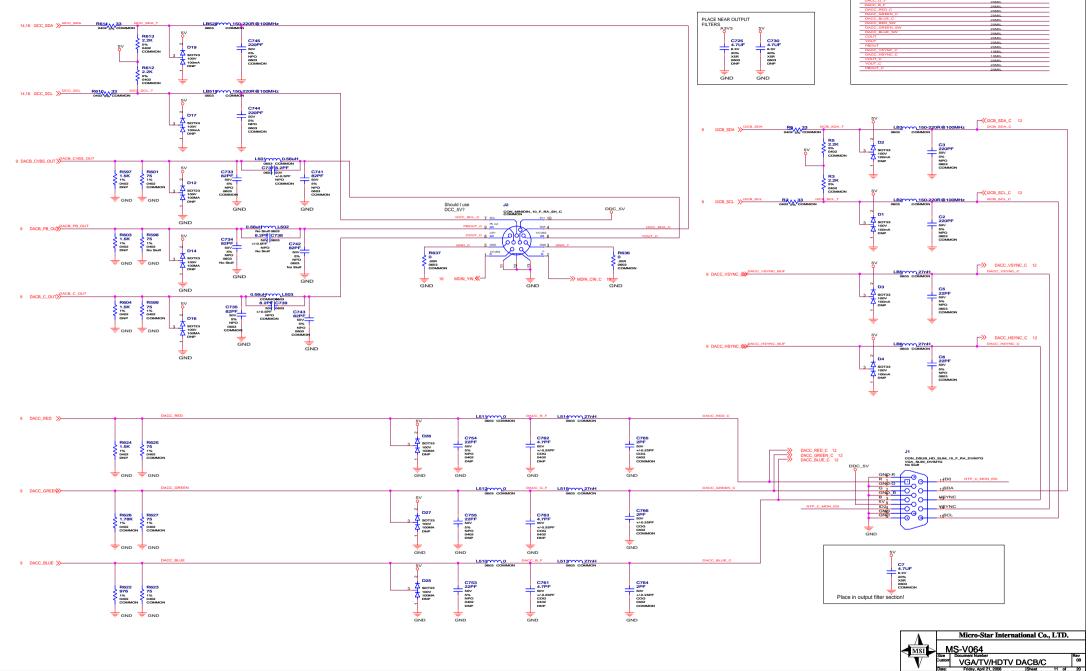




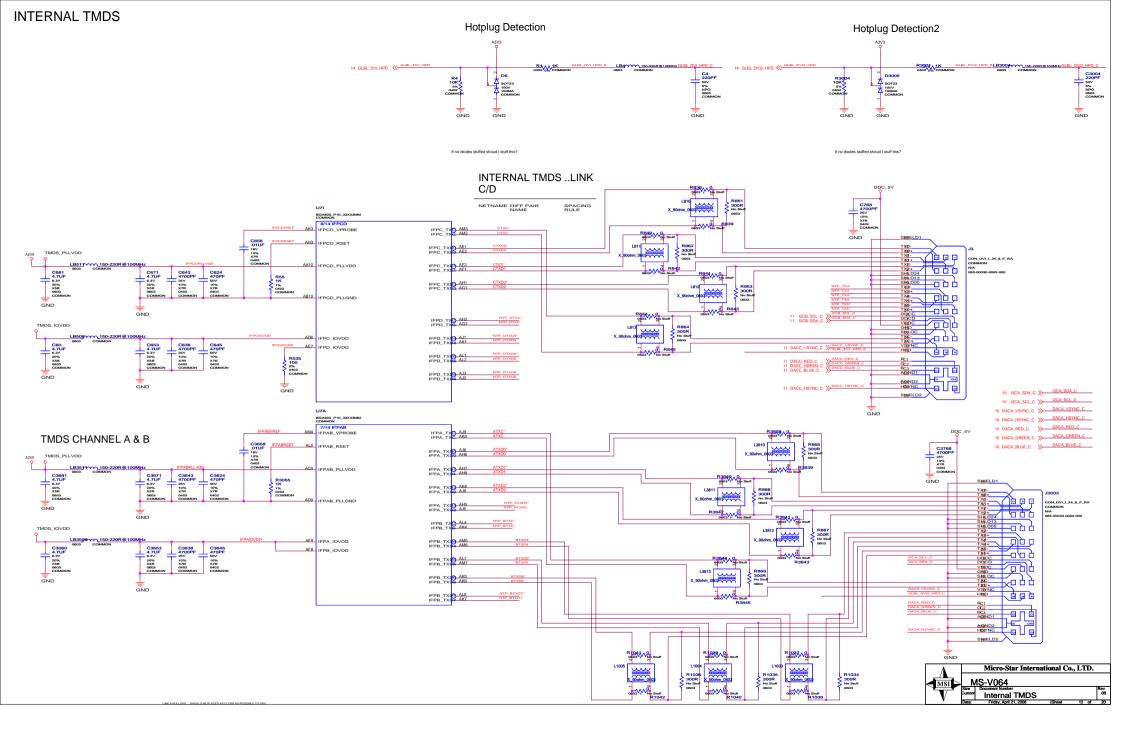




VGA/TV Out/HDTV DACB/C

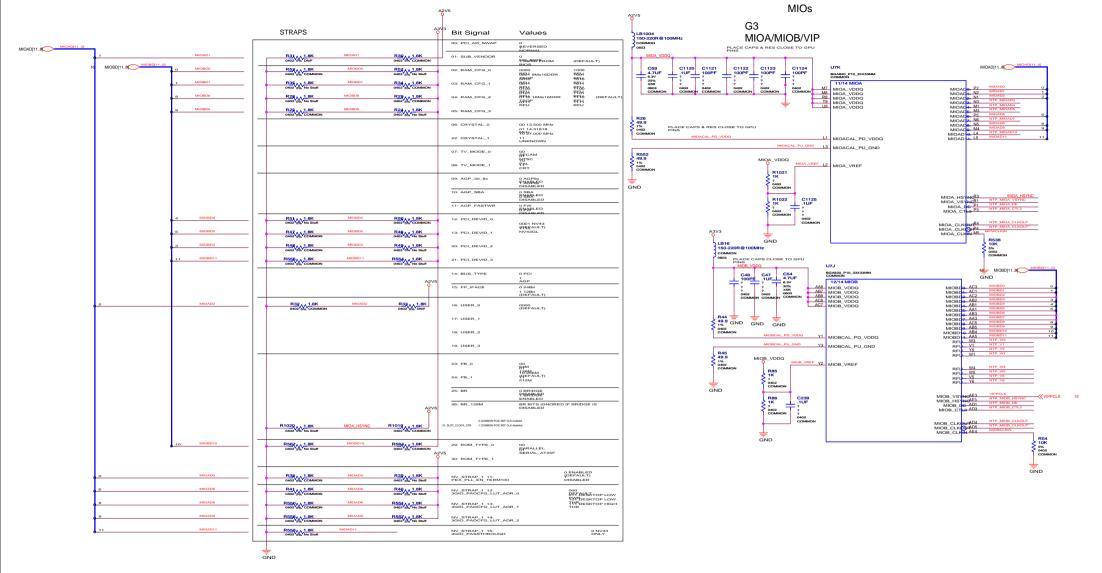


NET_SPACING_TYPE



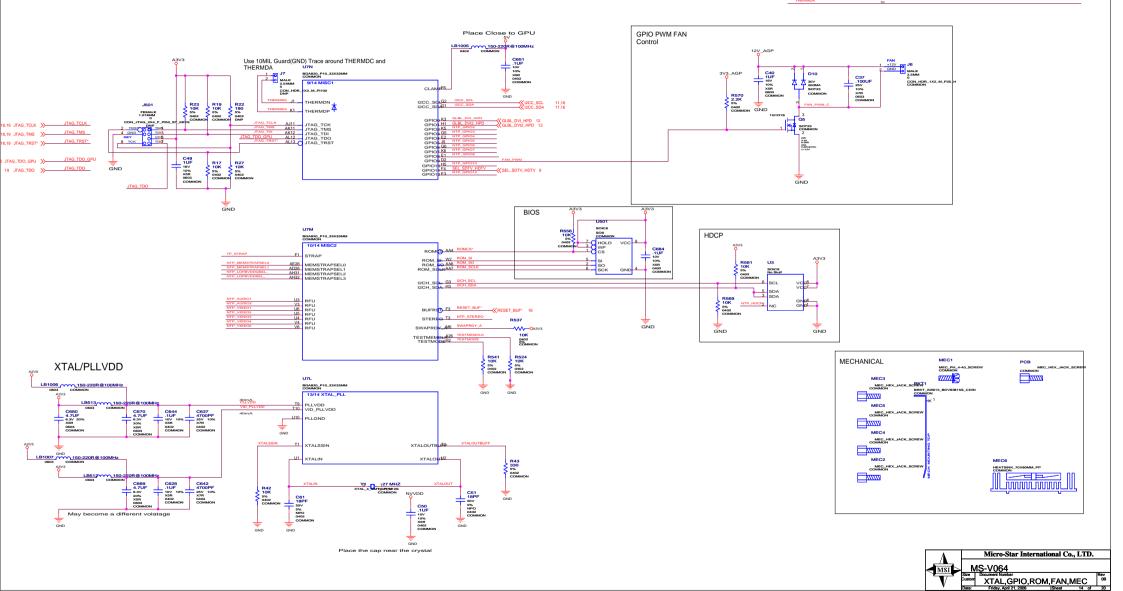
STRAPS, MIOA/MIOB

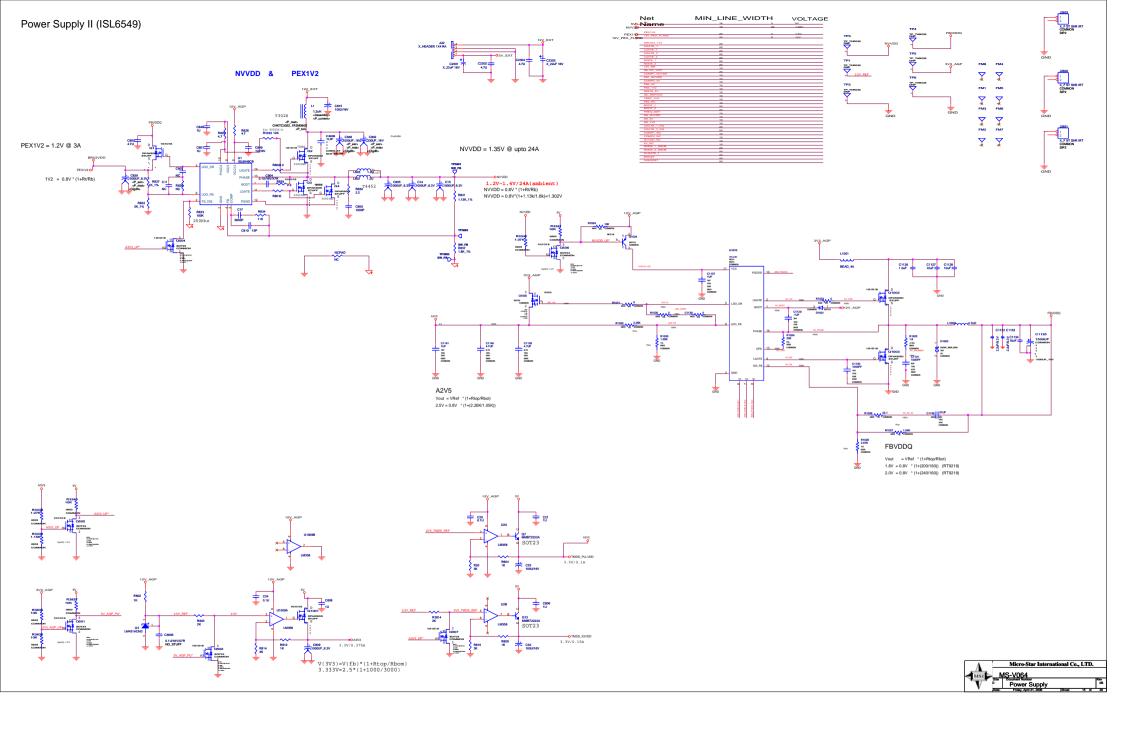
STRAPS

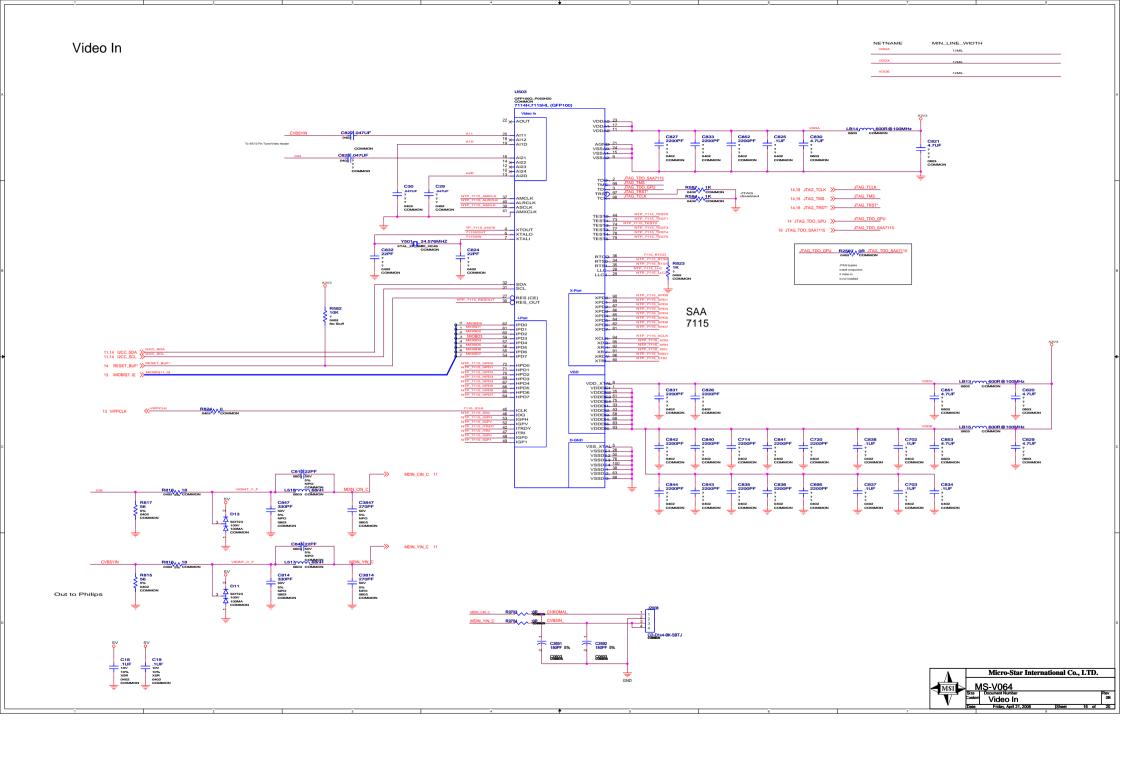




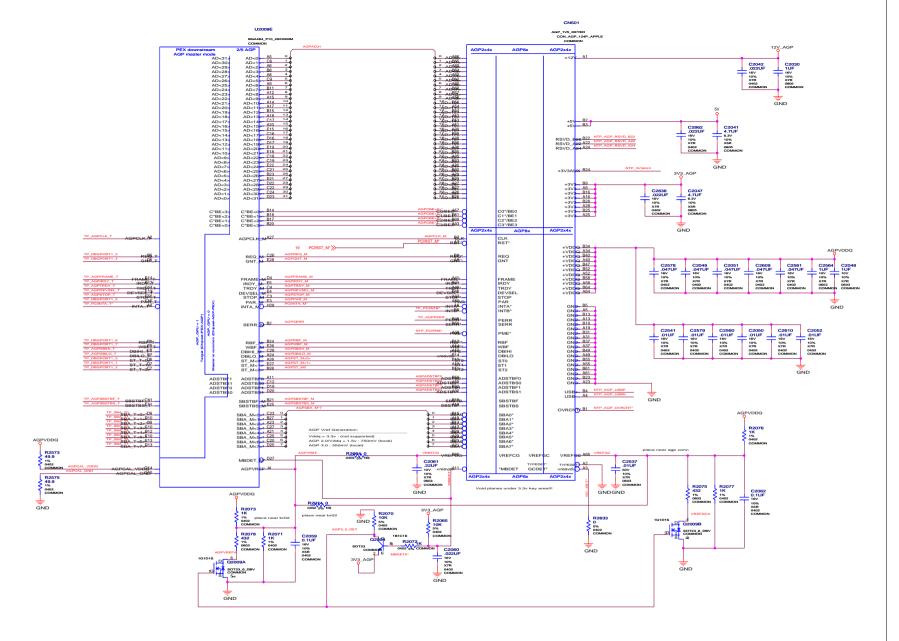
XTAL, GPIO, ROM







2. AGP to **BR02 Interface**

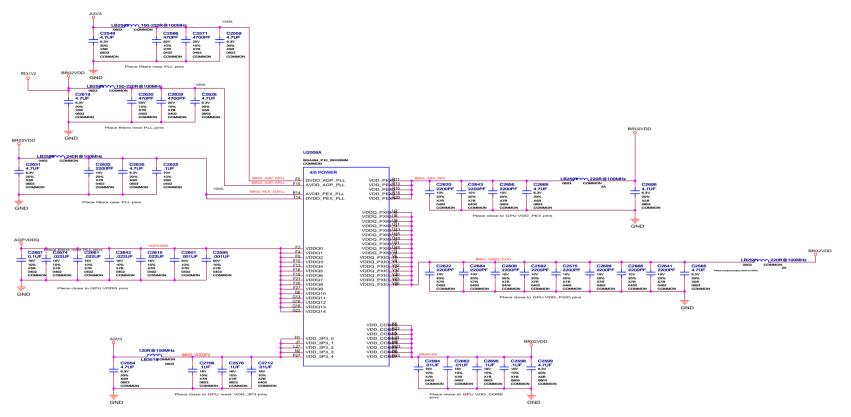


SigName Net Type Voltage 12V_AGP 1A 12MIL 12V 1.5V O AGPVDDQ

Micro-Star International Co., LTD. MS-V064 AGP to BR02 Interface

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, MATERIALS) SHOULD BE SENFARRENCHAFF AND SEPARATELY, MATERIALS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS RIPHORE STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS REPORTED TO THE MATERIALS OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS.

3. BR02 PWR/GND/De-Coupling

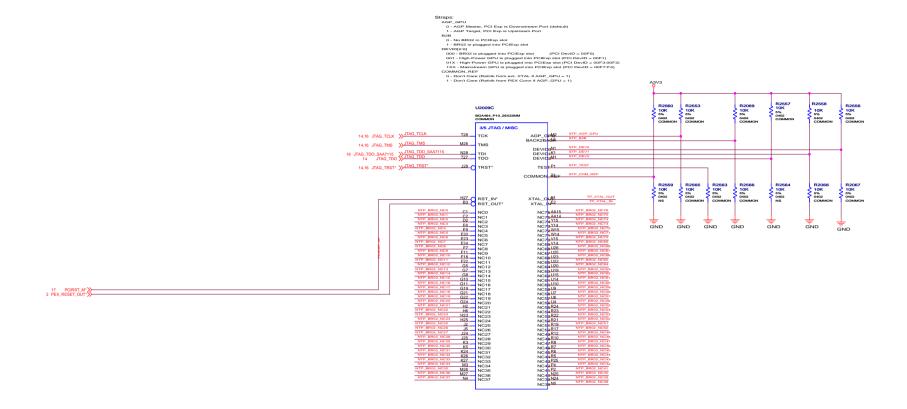


F14 AGNID AGR RU R15 AGND_PEX_PLL T15 DGND_PEX_PLL GND

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4. BR02 JTAG / Straps / Misc.



Micro-Star International Co., LTD. MS-V064 Size | Document Number
Custor | BR02 JTAG / Straps / Misc.

5. BR02 **PCI Express**

SigName	NetSpacing		Min_Line_Width	DiffPair	
PEXBR_TXOA PEXBR_TXOA	20MIL G2G	зомя	2.5MII		PEX BRG TX0a
PEX BRG TXO	20MIL G2G		2.5MII		PEX BRG TX0a
PEX_BRG_TX0*	20MIL G2G 20MIL G2G	30MIL	2.5MII	-	PEX BRG TX0b
PEX_GPU_TXX	20MIL G2G	20MIL	3.5MI		PEX GPU TXX0
PEX_GPU_TXX	20MIL G2G	30MIL	3.5MII		PEX GPU TXX0
PEXER_TXIA	20MIL G2G	30MIL	2.5MII		PEX BRG TX1a
PEX_BRG_TX1		30MIL	2.5MII		PEX BRG TX1a
PEX BRG TX1*	20MIL G2G	30MIL	2.5MII		PEX BRG TX1b
PEX_GPU_TXX	20MIL G2G 20MIL G2G		2.5MII		PEX BRG TX1b PEX GPU TXX1
PEX_GPU_TXX1	20MIL G2G		2.5MII		PEX GPU TXX1
PEXBR_TX2A PEXBR_TX2A	20MIL_G2G	30MIL	3.5MII		PEX BRG TX2a
PEX_BRG_TX2	20MIL_G2G	30MIL	3.5MII		PEX BRG TX2a
PEX BRG TX2*	20MIL G2G		2.5MII		PEX BRG TX2b
PEX_GPU_TXX	20MIL G2G	30MIL	3.5MII		PEX BRG TX25 PEX GPU TXX2
PEX_GPU_TXX	20MIL G2G 20MIL G2G	20MII	3.5MII	_	PEX GPU TXX2 PEX GPU TXX2
PEXBR_TX3A	20MIL G2G	2004	2.5MII		DEV BRG TYRE
PEXBR_TX3A*	20MIL_G2G	20MIL	3.5MII		PEX_BRG_TX3a
DEV BRO TVN	20MIL_G2G	30MIL	3.5MII		PEX BRG TX36
PEX_BRG_TX3* PEX_GPU_TXX	20MIL G2G	ZOME	2.5MII		PEX BRG TX36
	20MIL G2G 20MIL G2G		2.5MII		PEX GPU TXX3
PEXBR_TX4A	20MIL G2G		2.5MII		PEX BRG TX4a
PEXER TX4A PEXER TX4A	20MIL_G2G	20MIL	2.5MII		PEX BRG TX4a
PEX_BRG_TX4 PEX_BRG_TX4	20MIL_G2G	30MIL	2.5MII		PEX BRG TX4b
DEX GOLL TXX	20MIL G2G		2.5MII		PEX BRG TX4b
PEX_GPU_TXX	20MIL G2G	30MIL	3.5MII		PEX GPU TXX4
PEXBR_TXSA PEXBR_TXSA	20MIL G2G		3.5MII		PEX BRG TXSa
	20MIL G2G		2.5MI		PEX BRG TX5a
PEX_BRG_TXS	20MIL G2G	30MIL	2.5MII		PEX BRG TX5b
PEX_BRG_TXS*	20MIL G2G	30MIL	2.5MII		PEX BRG TX5b
	20MIL G2G		2.5MII		PEX GPU TXX5 PEX GPU TXX5
PEXER_TX6A	20MIL G2G 20MIL G2G	30MIL	2.5MII	•	PEX BRG TX6a
PEXBR_TX6A*	20MIL G2G		2.5MII		PEX BRG TX6a
PEX_BRG_TX6		30MIL	3.5MII		PEX BRG TX6b
PEX_BRG_TX6* PEX_GPU_TXX6	20MIL G2G		2.5MII		PEX BRG TX6b
PEX GPU TXX	20MIL G2G	30MIL	2.5MII		PEX GPU TXX6
PEX_GPU_TXX	20MIL G2G 20MIL G2G		2.5MII		PEX GPU TXX6 PEX BRG TX7a
PEXBR_TX7A*	20MIL G2G		3.5MI		PEX BRG TX7a
PEX_BRG_TX7 PEX_BRG_TX7	20MIL G2G		3.5MII		PEX BRG TX7b
PEX_BRG_TX7* PEX_GPU_TXX	20MIL G2G	30MIL	2.5MII		PEX BRG TX75
PEX_GPU_TXX	20MIL G2G		2.5MII		PEX GPU TXX7
PEXBR_TX8A PEXBR_TX8A	20MIL G2G 20MIL G2G		2.5MII		PEX GPU TXX7 PEX BRG TX8a
PEXBR_TX8A*	20MIL G2G		3.5MII		PEX BRG TX8s
PEX_BRG_TX8	20MIL G2G	30MIL	3.5MII		PEX BRG TX8a PEX BRG TX8b
PEX_BRG_TX8*	20MIL G2G	30MIL	3.5MII		PEX BRG TX86
PEX_GPU_TXX	20MIL G2G	30MIL			PEX GPU TXX8
PEXER_TX9A	20MIL G2G 20MIL G2G	ZOME	2.5MII 2.5MII		PEX GPU TXX8 PEX BRG TX9a
PEXBR_TX9A*	20MIL G2G		3.540		PEX BRG TX9a
PEX_BRG_TX9			2.5MII		PEX BRG TX9b
PEX BRG TX9* PEX GPU TXX	20MIL_G2G		3.5MII		PEX_BRG_TX9b
PEX_GPU_TXX		ZOMIL	3.5MII		PEX_GPU_TXX9
PEXER TX10A			2.5MII		PEX GPU TXX9
PEXBR_TX10A*	20MIL G2G 20MIL G2G	COMP	2.5MII		PEX BRG TX10s PEX BRG TX10s
PEX_BRG_TX10	20MIL_G2G		2.5MII		PEX BRG TX10b
PEX BRG TX10 PEX BRG TX10 PEX BRG TX10 PEX GPU TXX1	20MIL G2G	30MIL	2.5MII		PEX BRG TX10b
PEX_GPU_TXX1	20MIL G2G	20MIL	2.5MII		PEX GPU TXX10
PEXBR_TX11A	20MIL G2G 20MIL G2G	30MIL	2.5MII		PEX BRG TX11a
PEXBR_TX11A*			2.5MII		PEX BRG TX11a
PEX BRG TX11	20MIL G2G		2.5MII		PEX BRG TX11b
PEX_BRG_TX11	20MIL G2G		2.5MII		PEX BRG TX11b
PEX GPU TXX	20MIL G2G		2.5MII		PEX GPU TXX11
PEXBR_TX12A	20MIL G2G 20MIL G2G		2.5MII		PEX GPU TXX11 PEX BRG TX12s
PEXBR_TX12A*	20MIL G2G		2.5MII		PEX BRG TX12s PEX BRG TX12s
PEX_BRG_TX12	20MIL G2G	30MIL	3.5MII		PEX BRG TX12b
PEX_BRG_TX12	20MIL G2G		2.5MII		PEX BRG TX12b
PEX_GPU_TXX1		30MIL	2.5MII		PEX GPU TXX12 PEX GPU TXX12
PEXBR_TX13A	20MIL G2G 20MIL G2G		2.5MII		PEX GPU TXX12 PEX BRG TX12a
PEXER_TX13A*	20MIL G2G		2.5MII		PEX BRG TX13s PEX BRG TX13s
PEX_BRG_TX13	20MIL G2G	30MIL	3.5MII		PEX BRG TX13b
PEX_BRG_TX13		30MIL	2.5MII		PEX BRG TX13b
		30MIL	2.5MII		PEX GPU TXX13
PEX_GPU_TXX1 PEXBR_TX14A PEXBR_TX14A	20MIL G2G		2.5MII		PEX GPU TXX12
	20MIL G2G 20MIL G2G	30MIL	2.5MII		PEX BRG TX14s PEX BRG TX14s
PEX_BRG_TX14		30MIL	2.5MII		PEX BRG TX14b
PEX_BRG_TX14		30MIL	3.5MII		PEX BRG TX14b
PEX_GPU_TXX1	4 20MIL G2G				PEX GPU TXX14
PEXER_TXISA PEXER_TXISA	20MIL G2G	30MIL	2.5MII		PEX GPU TXX14 PEX BRG TX15s
PEXER_TX15A*	20MIL G2G 20MIL G2G		3.5MII		PEX BRG TX15s PEX BRG TX15s
PEX_BRG_TX15	20MIL G2G	30MIL	3.5MI		PEX BRG TX15b
PEX_BRG_TX15 PEX_BRG_TX15 PEX_GPU_TXX1	20MIL_G2G	20MIL	2.5MII		PEX BRG TX15b
PEX_GPU_TXX1	20MIL G2G	30MIL	. 2.5MII		PEX GPU TXX15

	BGAMAD PLO_20022MM COMMAN N										Ĵ			Y2	00225.000MHZ		
					1/5 PCI Expr	ess eam/AGP mast	iter mode				C2544 .01UF 16V				33PF	(10 PPM C2	2538 776s
			2 BR02_REFCLK_OU 2 BR02_REFCLK_OU	T* BR02_REFCLK_OUT	PEX_REFCLE	COUTP COUTN			Place close to Bi	R02	10% X7R 0402 COMMON		U2504		+/-5% COG 0402 COMMON	040 CO	
2 PEX_GPU_TXX0>> 2 PEX_GPU_TXX0>>	PEX_GPU_TXX0* PEX_GPU_TXX0	C2716			PEX_RXOP PEX_RXON	RX15P RX15N			COMMON 10% X5R 0402 10V		GND	8		REFCLK_XTAL_OUT	↓ GND	↓ GND	
2 PEX_BRG_TX0* 2 PEX_BRG_TX0	PEX_BRG_TX0* PEX_BRG_TX0	16V 0.1UF COMMON 0402	C2717 16V 0.1UF	PEXBR_TX0A	PEX_TX0P PEX_TX0N	TX15P TX15N	PEX_REFC	LK INWI BROZ RECLKO	C2583F		BR02_REFCLK*	7 6 Q0	XTAL_IN			BRIDGE_REF_CLOCK	_
2 PEX_GPU_TXX1** 2 PEX_GPU_TXX1	PEX_GPU_TXX1* PEX_GPU_TXX1	10% X5R	COMMON 0402 10% XSR		/25 PEX_RX1P /26 PEX_RX1N	RX14P RX14N	T EXCITE		C2552 .1UF			2 VEE	VCCA1	VCCA_REFCLKGEN			
2 PEX_BRG_TX1* >>-	PEX_BRG_TX1* PEX_BRG_TX1	16V 0.1UF COMMON 0402	C2720 16V 0.1UF	PEXBR_TX1A	25 PEV TV1P	TX14P TX14N			0402 10V 10% XSR COMMON	R2551 102 1% 0402 DNI	R2550 R2549 49.9 49.9 1% 1% 0402 0402 COMMON COMMO	GND					
2 PEX_BRG_TX1 >>	PEX_GPU_TXX2* PEX_GPU_TXX2	10% X5R	COMMON 0402 10% XSR	Α.	PEX_RX2P	RX13P				0402 DNI	COMMON COMMO	ON 0402	5% COMMON	C2071 C	2070 11UF		
2 PEX_GPU_TXX2 >>	PEX_BRG_TX2* PEX_BRG_TX2	16V 0.1UF COMMON 0402	C2709 16V 0.1UF	PEXBR_TX2A	PEX_TX2P	RX13N TX13P				G	ND GND		=	6.3V 16 20% 16 X5R X	IV IN IR		
2 PEX_BRG_TX2 >> 2 PEX_GPU_TXX3*>>	PEX_GPU_TXX3* PEX_GPU_TXX3	10% X5R	COMMON 0402 10% XSR		22 PEX_RX3P	TX13N RX12P								0805 0	IO2 DMMON		
2 PEX_GPU_TXX3>>	PEX_BRG_TX3*	16V 0.1UF	C2694 16V 0.1UF		PEX_RX3N PEX_TX3P PEX_TX3N	RX12N TX12P							G	ND GND			
2 PEX_BRG_TX3 >>	PEX_GPU_TXX4*	10% X5R	COMMON 0402 10% XSR		20 PEX RX4P	TX12N RX11P					A3V3						
2 PEX_GPU_TXX4 2 PEX_GPU_TXX4 2 PEX_BRG_TX4* >>	PEX_BRG_TX4*	C2673 16V 0.1UF	C2681	PEXBR_TX4A	21 PEX_RX4N	RX11N TX11P					Ĭ						
2 PEX_BRG_TX4* 2 PEX_BRG_TX4 2 PEX_GPU_TXX5*	PEX_BRG_TX4 PEX_GPU_TXX5* PEX_GPU_TXX5	10% X5R	16V 0.1UF COMMON 0402 10% XSR		/21_O PEX_TX4N	TX11N RX10P							U3005				
2 PEX_GPU_TXX5	PEX_BRG_TX5*	C2663 16V 0.1UF	C2668	PEXBR_TXSA	20_ PEX_RX5N	RX10N TX10P						8	XSOP8_P065_W44I	CLK_XTAL_IN			
2 PEX_BRG_TX5 \$\infty = \] 2 PEX_GPU_TXX6*\rightarrow=	PEX_BRG_TXS PEX_GPU_TXX6*	COMMON 0402 10% X5R	16V 0.1UF COMMON 0402 10% X5R	Α.	PEX_TX5N	TX10N				_	BR02_REFCLK BR02_REFCLK*	7 6 00	XTAL_IN4_BRUZ_REF	CEK_XTAL_OUT			
2 PEX_GPU_TXX6\$\(\) 2 PEX_BRG_TX6* \(\)	PEX_BRG_TX6*	C2647 16V 0.1UF	C2660 16V 0.1UF	PEXBR_TX6A	18 PEX_TX6P	RX9N E TX9P						2 VEE	VCCA1 VCCA_REF	NV021 CLKGEN			
2 PEX_BRG_TX6	PEX_BRG_TX6 PEX_GPU_TXX7*	10% X5R	16V 0.1UF COMMON 0402 10% X5R	PEXBR_TX6A*	18 PEX TX6N	D TX9N								C3848 .01UF			
2 PEX_GPU_TXX7	PEX_BRG_TX7*	C2639 16V 0.1UF	C2644		PEX_RX7N	RX8N					GNE	0		16V 10% X7R 0402			
2 PEX_BRG_TX7*	PEX_BRG_TX7 PEX_GPU_TXX8*	COMMON 0402 10% XSR	16V 0.1UF COMMON 0402 10% XSR	PEXBR_TX7A*	PEX_TX7N	TX8N						A3V3	R3846 0 0402 5% COMMON	GND GND	101		
2 PEX_GPU_TXX8	PEX_GPU_TXX8 PEX_BRG_TX8*	C2618 16V 0.1UF	C2522		PEX_RX8P PEX_RX8N	RX7P E RX7N			C3 .01L	849 JF							
2 PEX_BRG_TX8* 2 PEX_BRG_TX8	PEX_BRG_TX8 PEX_GPU_TXX9*	COMMON 0402 10% X5R	16V 0.1UF COMMON 0402 10% XSR		PEX_TX8N	E TX7N			A3V3 10	6V 0% 7R		R3847	O COMMON				
2 PEX_GPU_TXX9	PEX_GPU_TXX9	C2613 16V 0.1UF	C2617	A	PEX_RX9N	RX6P RX6N			CON	MMON GND		J3006					
2 PEX_BRG_TX9* 2 PEX_BRG_TX9	PEX_BRG_TX9	COMMON 0402 10% X5R	COMMON 0402		PEX_TX9N	TX6N TX6P			R3j	48 0	VDD X1/CLI	XSOPB_P065_W44MM		BR02_REFCL	K_XTAL_IN		
2 PEX_GPU_TXX10*	PEX_GPU_TXX10	C2605			PEX_RX10P PEX_RX10N	<u>-</u>			BR0	2_REFCLK 5 2_REFCLK 7	O CLK S	12	R3R49 0 0402 5% COMM	MON BRUZ_REPCER_X	A3V3		
2 PEX_BRG_TX10*	PEX_BRG_TX10* PEX_BRG_TX10 PEX_GPU_TXX11*	COMMON 0402 10% X5R	C2612 16V 0.1UF COMMON 0402	PEXBR_TX10A*	PEX_TX10P PEX_TX10N	TX5P TX5N				3		6 SEL_XIAL_IC	-S	ICS 20MH2	9		
2 PEX_GPU_TXX11*	PEX_GPU_TXX11 PEX_BRG_TX11	C2595	10% X5R		A8 PEX_RX11P A9 PEX_RX11N	RX4P RX4N				<u></u>		000-1	C3850 .01UF	R3R50 0 0402 5% COMMO	พี		
2 PEX_BRG_TX11* 2 PEX_BRG_TX11	PEX_BRG_TX11 PEX_BRG_TX11 PEX_GPU_TXX12*	16V 0.1UF COMMON 0402 10% X5R	C2502 16V 0.1UF COMMON 0402	PEXBR_TX11A PEXBR_TX11A*	V8PEX_TX11P V8PEX_TX11N	TX4P TX4N				GND		C3851 	16V 10% X7R 0402 COMMON	R3R51 0 0402 5% COMMO	N		
2 PEX_GPU_TXX12*	PEX_GPU_TXX12* PEX_GPU_TXX12*	C2589	10% X5R		Y6 PEX_RX12P Y7 PEX_RX12N	RX3P RX3N		R20				GND 10% X7R 0402 COMMON	_	ICS 25MHz	∯ GND		
2 PEX_BRG_TX12* 2 PEX_BRG_TX12	PEX_BRG_TX12	16V 0.1UF COMMON 0402 10% X5R	C2593 16V 0.1UF COMMON 0402	PEXBR_TX12A*	N6 PEX_TX12P N7 PEX_TX12N	TX3P TX3N		R20 200 5% 0603 DNI	66			Ţ	GND				
2 PEX_GPU_TXX13* 2 PEX_GPU_TXX13	PEX_GPU_TXX13* PEX_GPU_TXX13	C2577	10% XSR		A5 PEX_RX13P PEX_RX13N	RX2P RX2N		DNI				GN	ID	ICS 501C-XTAL SELE 1:20MHz	CT		
2 PEX_BRG_TX13* 2 PEX_BRG_TX13	PEX_BRG_TX13* PEX_BRG_TX13	16V 0.1UF COMMON 0402 10% X5R	C2586 16V 0.1UF COMMON 0402	PEXBR_TX13A PEXBR_TX13A*	W5 PEX_TX13P PEX_TX13N	TX2P TX2N			R2583					0:25MHz			
2 PEX_GPU_TXX14* 2 PEX_GPU_TXX14	PEX_GPU_TXX14* PEX_GPU_TXX14	C2570	10% XSR		PEX_RX14P PEX_RX14N	RX1P RX1N		9 9	R2583 1.8K 1% 0603 COMMON								
2 PEX_BRG_TX14* 2 PEX_BRG_TX14	PEX_BRG_TX14* PEX_BRG_TX14	16V 0.1UF COMMON 0402 10% X5R	16V 0.1UF COMMON 0402	PEXBR_TX14A PEXBR_TX14A*	N3 PEX_TX14P N4 PEX_TX14N	TX1P TX1N	Common	-	COMMON								
2 PEX_GPU_TXX15* 2 PEX_GPU_TXX15	PEX_GPU_TXX15* PEX_GPU_TXX15	C2562	10% XSR		A2 PEX_RX15P A3 PEX_RX15N	RX0P RX0N	PEX_TSTCL PEX_TSTCL	K_OUTR	— GND								
2 PEX_BRG_TX15* 2 PEX_BRG_TX15	PEX_BRG_TX15* PEX_BRG_TX15	16V 0.1UF COMMON 0402 10% XSR CO	C2567 16V 0.1UF 0MMON 0402	PEXBR_TX15A*	V2 PEX_TX15P N2 PEX_TX15N	TX0P TX0N	PEX_REFC	K_RSH38									
			10% XSR														

BR02_REFCLK_OUT	20MIL_G2G_30MIL	3.5MIL	BR02_REFCLK_OUT
BROZ REFCLK OUT*	20MIL_G2G_30MIL	3.5MIL	BR02_REFCLK_OU
DROZ REFCLIC	20MIL_G2G_30MIL	3.5MIL	BR02_REFCLK
BROZ RECLKO	20MIL_G2G_30MIL	3.5MIL	BR02_REFCLK
BROZ RECLICO	20MIL_G2G_30MIL 20MIL G2G 30MIL	3.5MIL 3.5MIL	BR02_RFCLKC BR02_RFCLKC
	20MIL_G2G_30MIL	3.5MIL	BR02_RFCERC
PEX_REFCLK_RSET		3.5MIL	
PEX_TSTCLK_OUT	20MIL G2G 30MIL	a.smil.	PEX TSTOLK OUT
PEX_TSTCLK_OUT*	20MIL G2G 30MIL	2.5MIL	PEX TSTOLK OUT
BR02_REFCLK_OUT	20MIL G2G 30MIL	3.5MIL	BR02 REFCLK OU
BR02_REFCLK_OUT*	20MIL G2G 30MIL	a.sMIL	BR02 REFCLK OUT

