

P419-A02: MXM-I, G86M, 256/128MB, 64-bit
32M16 or 16M16(4 pcs) DDR2
LVDS,DVI_A,TV_OUT,VGA, HDMI/HDCP

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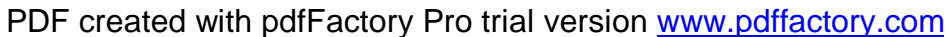
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REV	VARIANT	NVPN	ASSEMBLY
B	BASE	600-10419-0000-000	BASE LEVEL, GENERIC SCHEMATIC ONLY, COMMON & NO. STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	SKU0001	600-10419-0001-000	GBM 117 256MB(4x16) DDR2 16Mx16 84FBGA, LVDS + DVI, ADVI, B + TV, OUT + VGA
2	SKU0002	600-10419-0002-000	GBM 117 128MB(4x16) DDR2 16Mx16 84FBGA, LVDS + DVI, ADVI, B + TV, OUT + VGA
3	SKU0003	600-10419-0003-000	GBM 117 256MB(4x16) DDR2 16Mx16 84FBGA, LVDS + DVI, ADVI, B + TV, OUT + VGA
4	SKU0004	600-10419-0004-000	GBM 117 128MB(4x16) DDR2 16Mx16 84FBGA, LVDS + DVI, ADVI, B + TV, OUT + VGA
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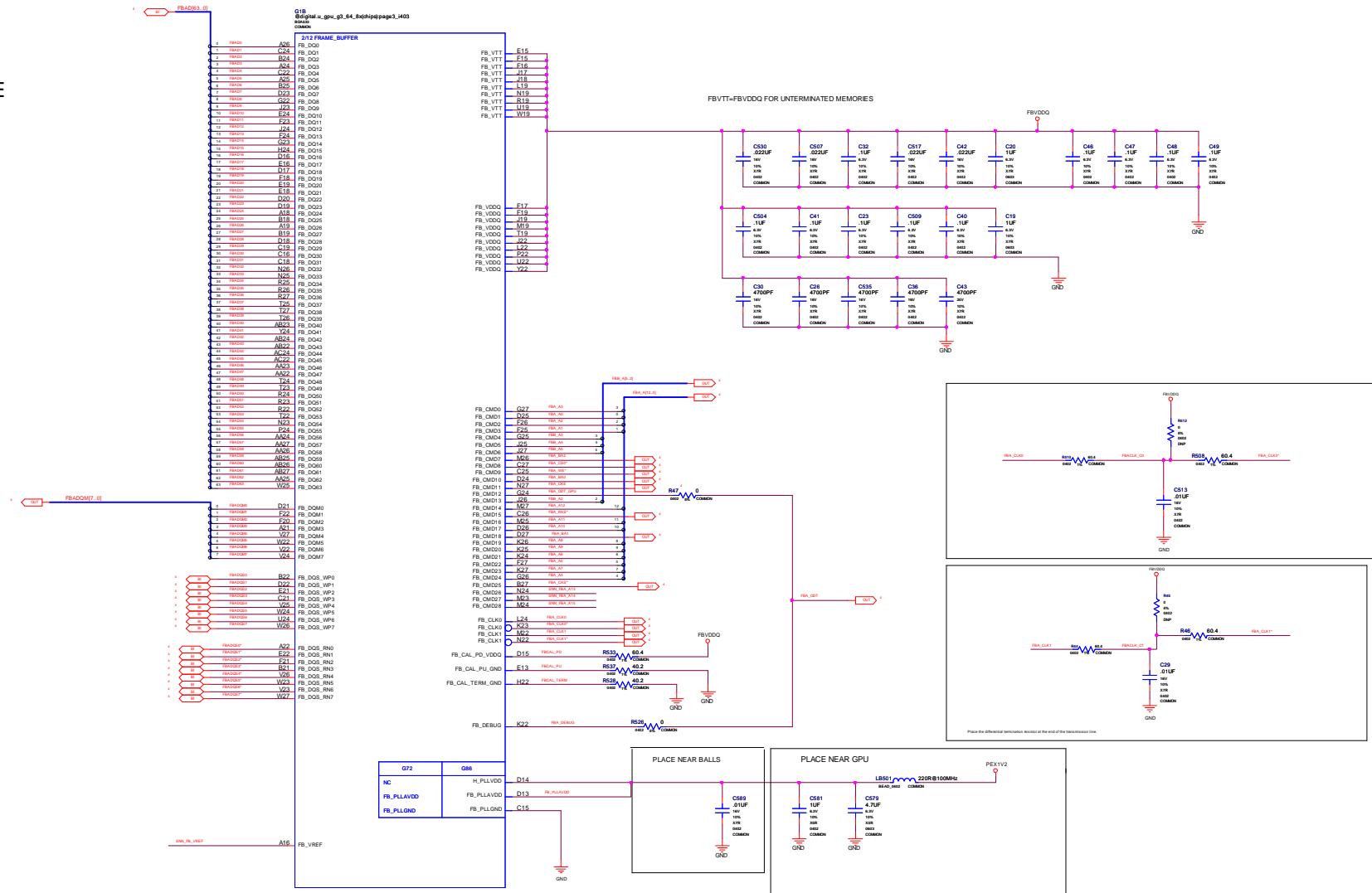
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PAGE 3) FBA INTERFACE



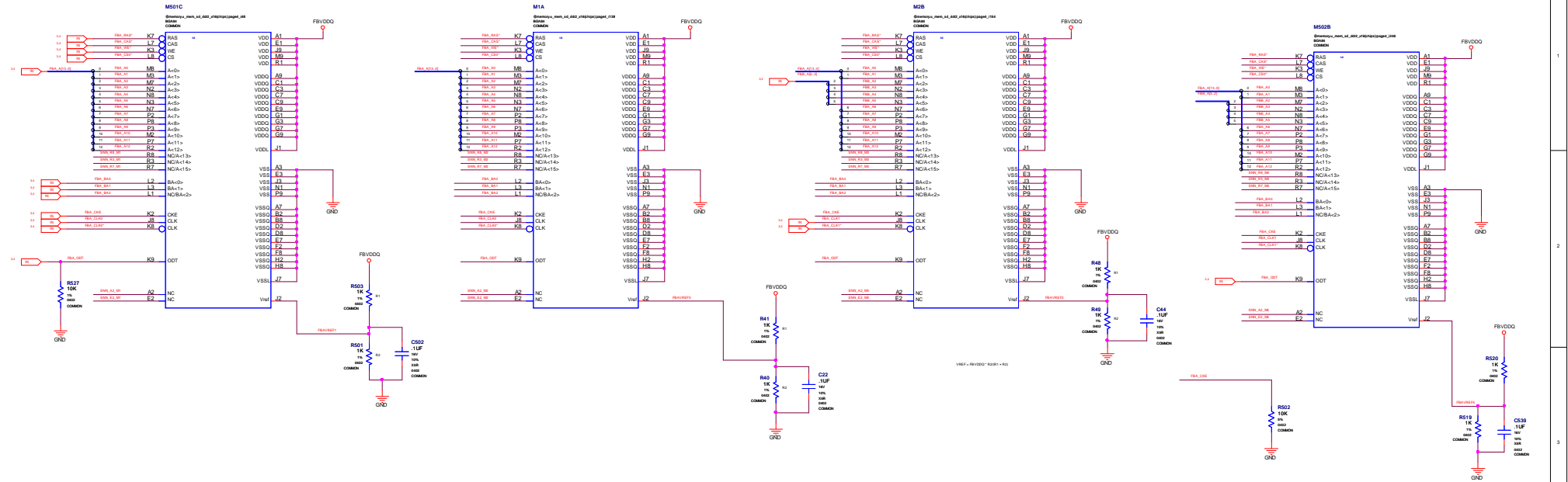
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PAGE 4) MEMORY PARTITION A



NET	MIL-STD-883C	VOLTAGE
1	100V	100V
2	100V	100V
3	100V	100V
4	100V	100V
5	100V	100V
6	100V	100V
7	100V	100V
8	100V	100V
9	100V	100V
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97	100V	100V
98	100V	100V
99	100V	100V
100	100V	100V

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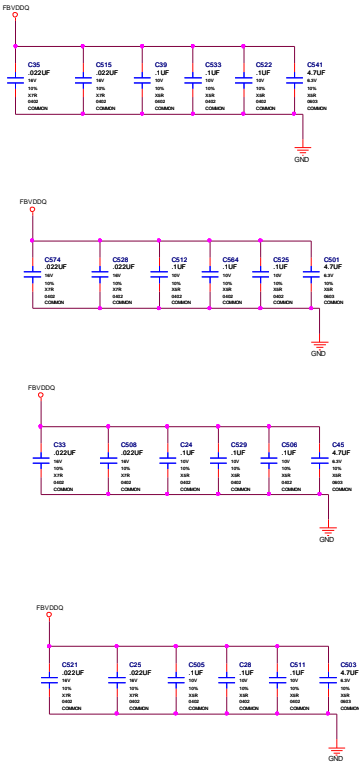
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PAGE DETAIL FRAME BUFFER PARTITION A

PAGE 5) Memory Decoupling Caps



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PAGE DETAIL

MEMORY DECOUPLING CAPS

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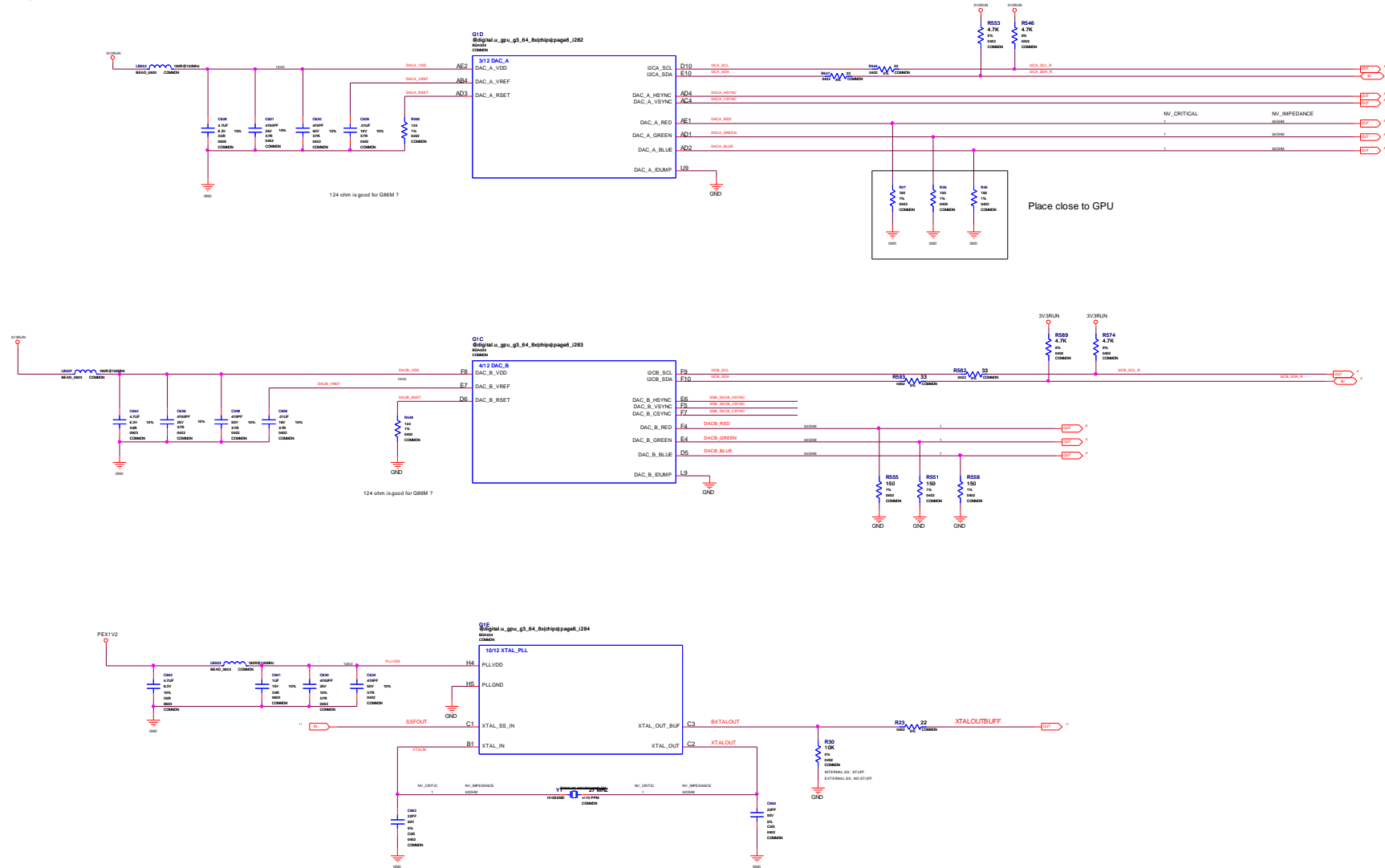
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PAGE 6) DAC_A, DAC_B, DAC_C



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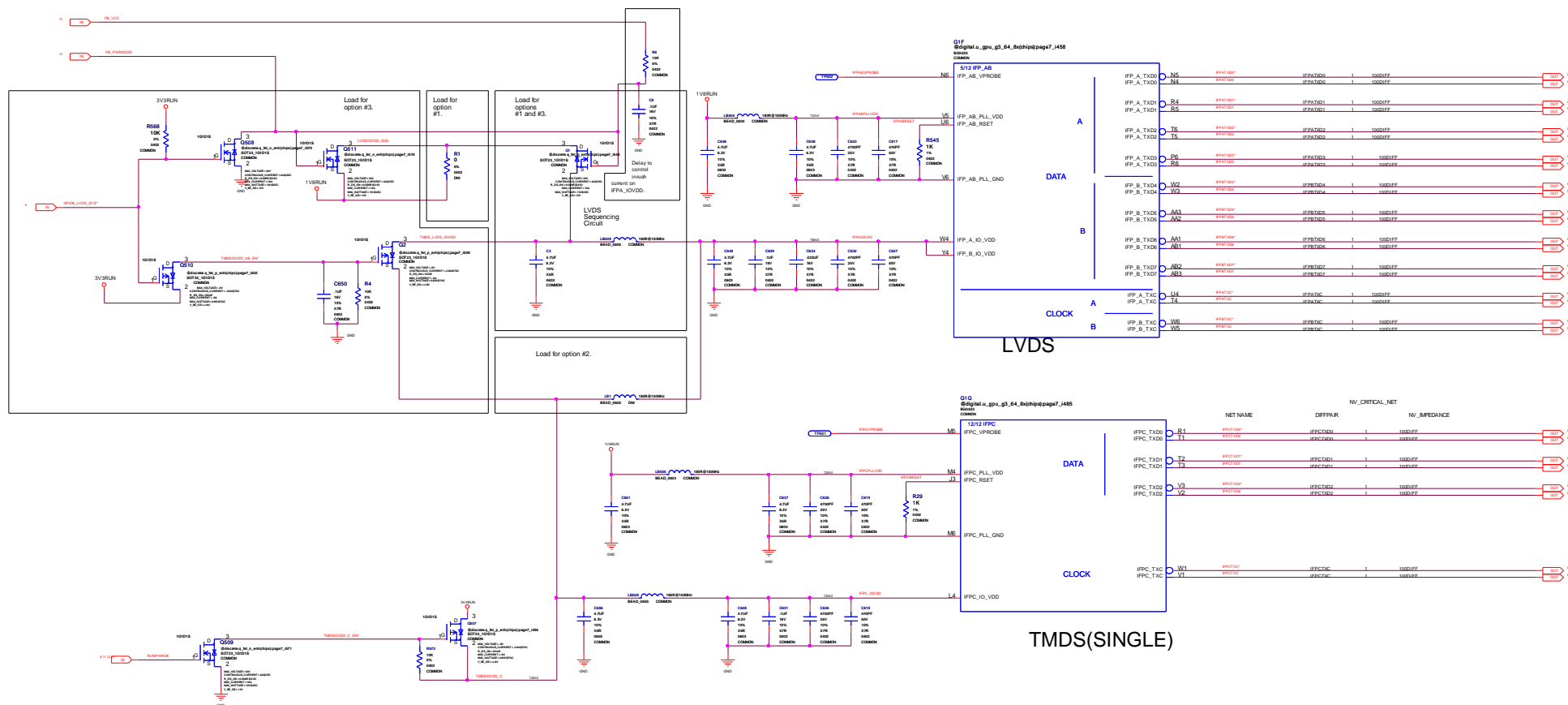
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Loading options for IFPAB outputs

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



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PAGE DETAIL	LVDS(LINK A/B), TMD5(LINK C/D)

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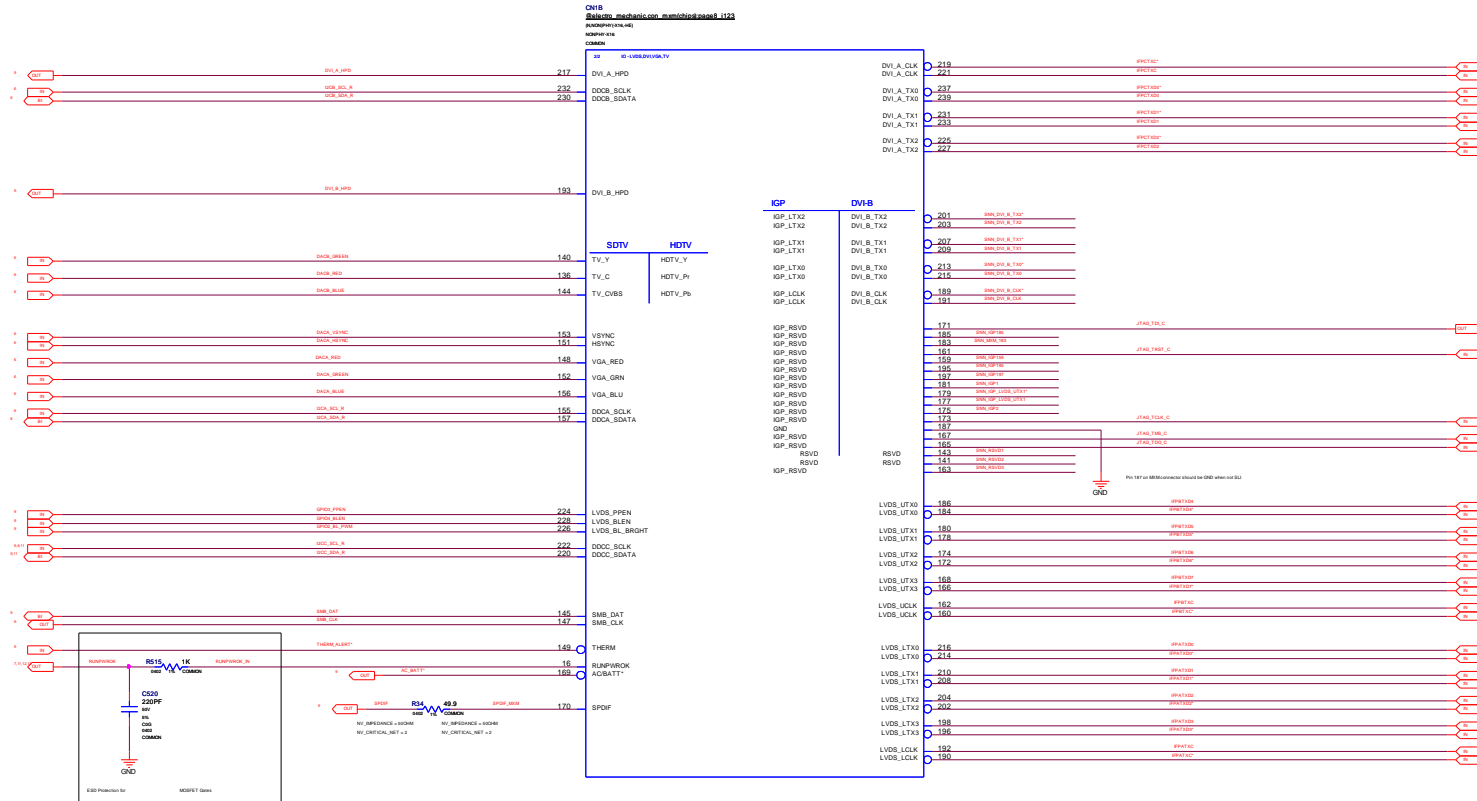
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PAGE 8) MXM CONNECTOR



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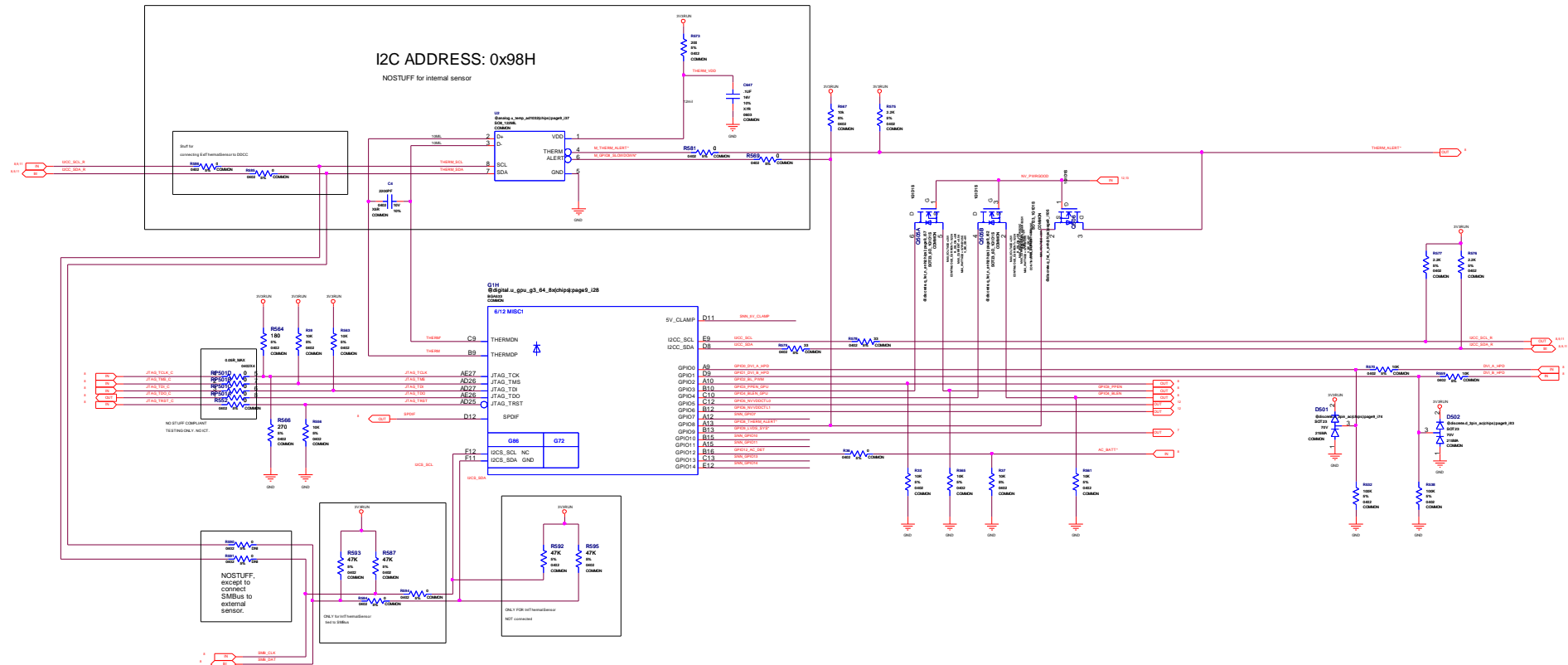


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PAGE 9) GPIO, JTAG, TEMP SENSOR, SPDIF



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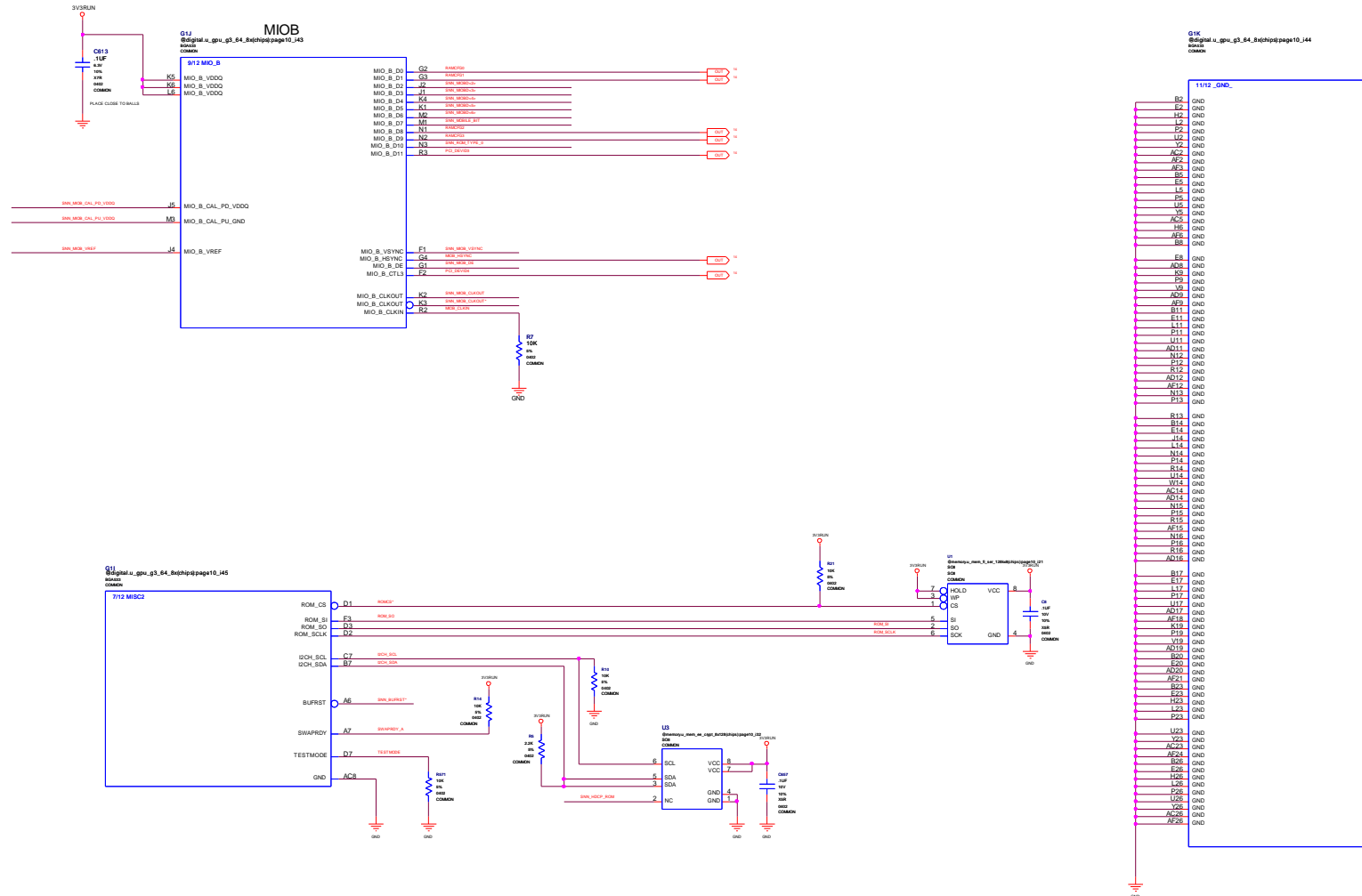
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PAGE 10) MIOB, VBIOS, HDCP BIOS



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PAGE DETAIL	MIOB, VBIOS, HDCP ROM

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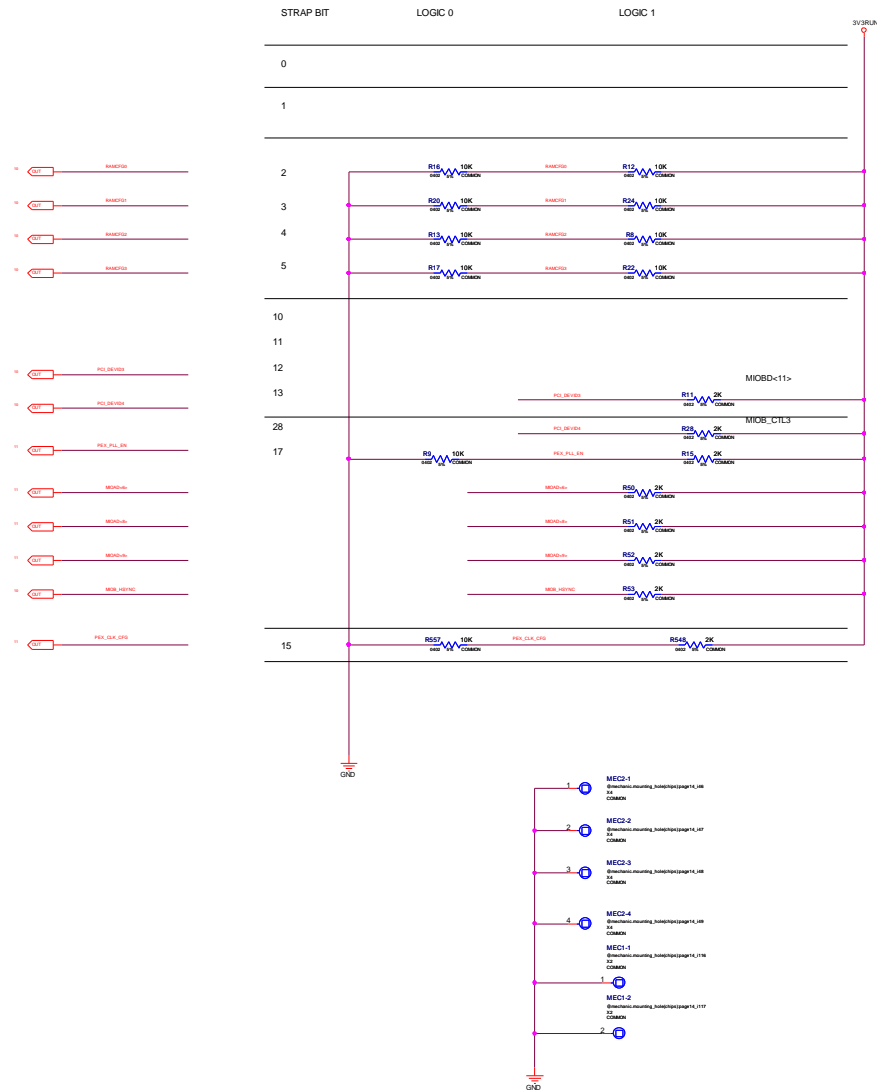
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PAGE 14) STRAPS



PCI_AD_SWAP	0: REVERSED 1: NORMAL	DEFAULT
SUB_VENDOR	0: SYSTEM BIOS 1: ADAPTER BIOS	DEFAULT
RAM_CFG_0	RAM_CFG[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_TERM00		
3GIO_PADCFG_LUT_ADR0		
3GIO_PADCFG_LUT_ADR1		
3GIO_PADCFG_LUT_ADR2		
3GIO_PADCFG_LUT_ADR3		
SLOT_CLOCK_CFG		

The diagram illustrates a network topology for video transmission. A source node (GND) is connected to a series of nodes. The nodes are labeled MEC2-1, MEC2-2, MEC2-3, MEC2-4, MEC1-1, and MEC1-2. MEC2-1, MEC2-2, MEC2-3, and MEC2-4 are connected to a common bus. MEC1-1 and MEC1-2 are connected to a common bus. The source node is connected to MEC2-1, MEC2-2, MEC2-3, MEC2-4, MEC1-1, and MEC1-2. The source node is connected to MEC2-1, MEC2-2, MEC2-3, MEC2-4, MEC1-1, and MEC1-2. The source node is connected to MEC2-1, MEC2-2, MEC2-3, MEC2-4, MEC1-1, and MEC1-2.

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Design 4419		Design 4419		Design 4419		Design 4419		Design 4419		Design 4419		Design 4419		Design 4419	
Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008		Date Dec 12 17:33:22 2008	
Base nets and symmetries for 4419 (Rev. 1) (Rev															

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NET	VOLTAGE	MIN_WIDTH_LINE	NV_NET_MAX_CURRENT
PEX1V2	1.2V	12MIL	2A
F8VDDQ	1.8V	12MIL	10A



add C10
add R19
add R18
add C13