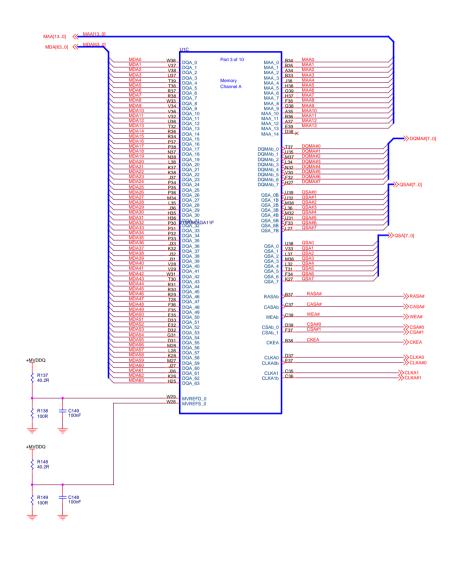
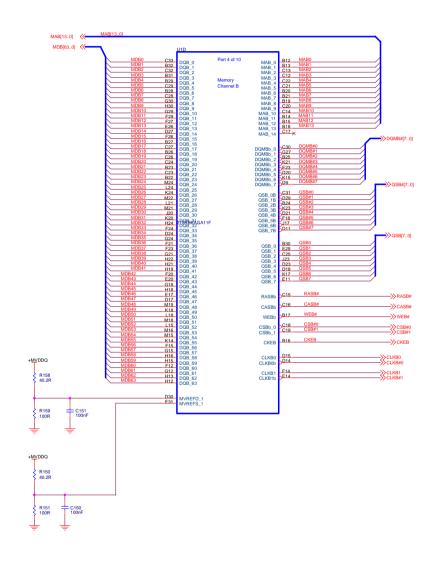


R423 MEMORY CHANNELS A and B



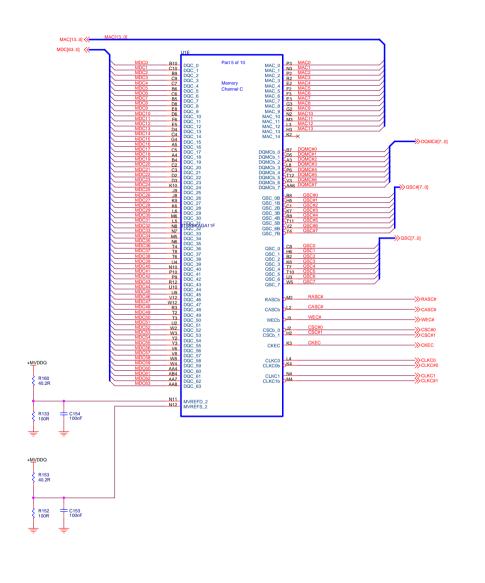


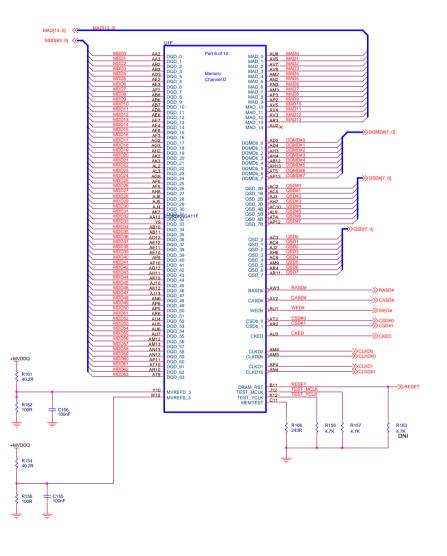


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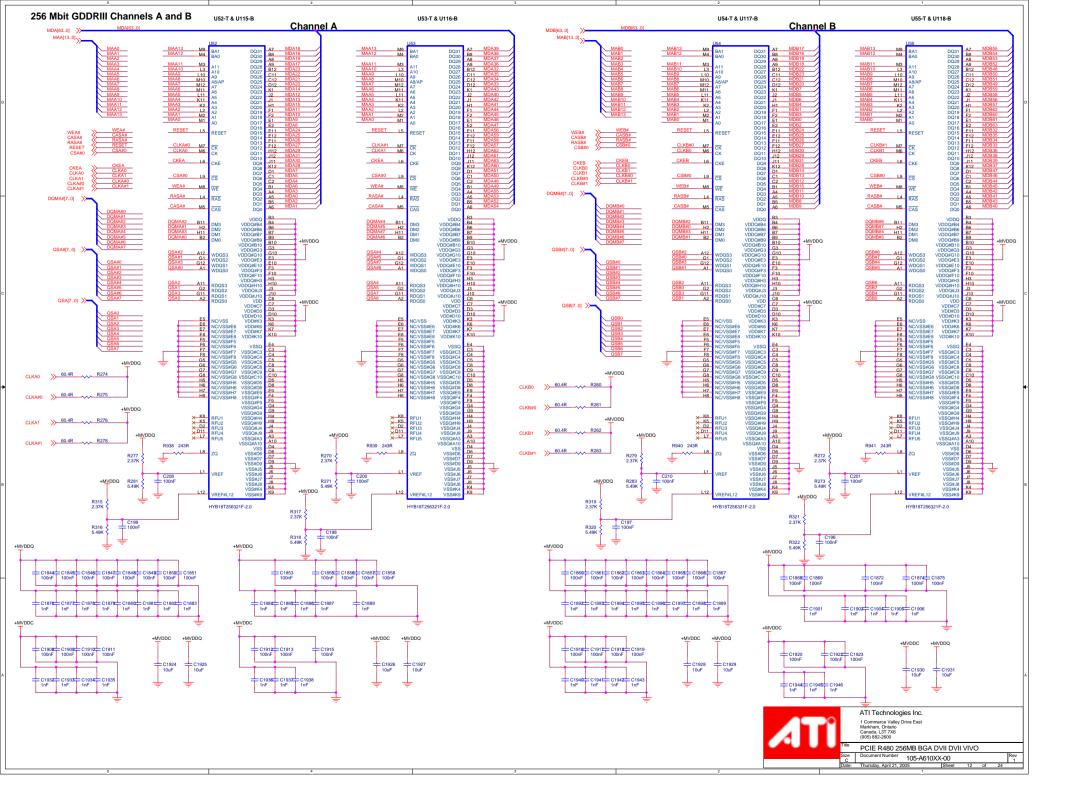
PCIE R480 256MB BGA DVII DVII VIVO

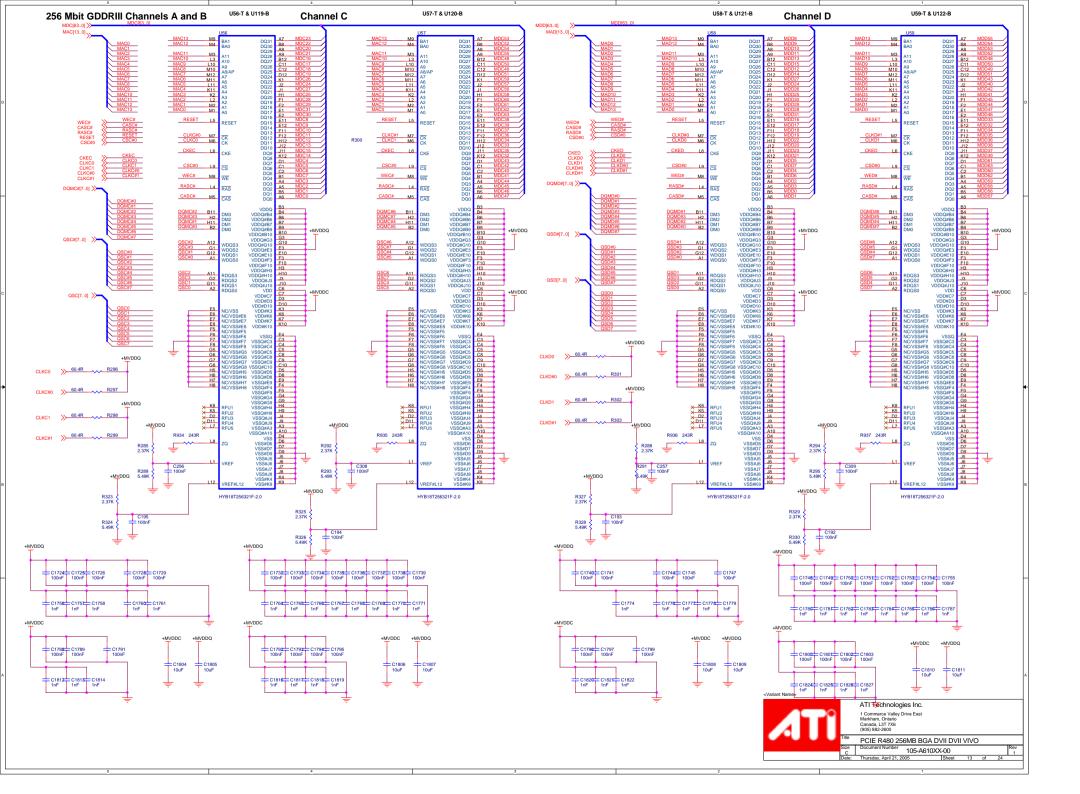
R-420 MEMORY CHANNELS C and D

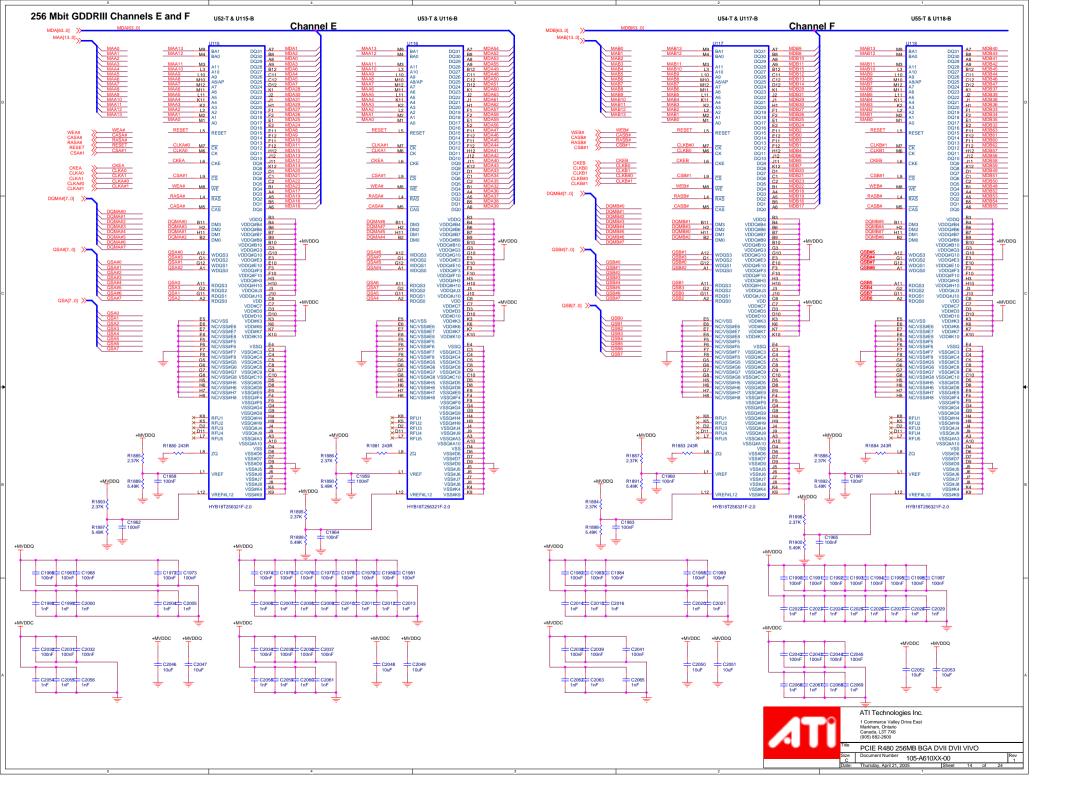


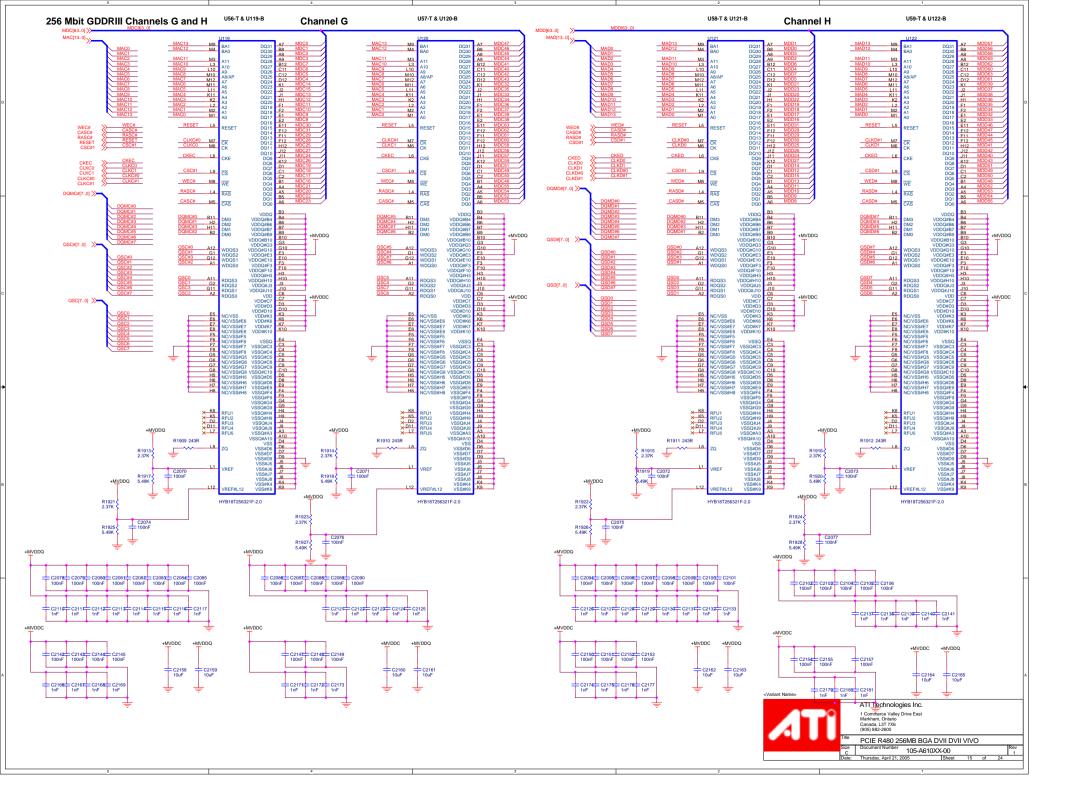


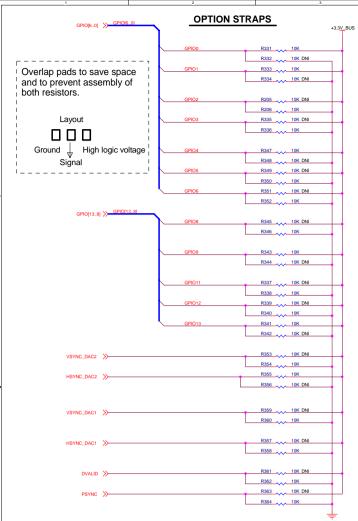








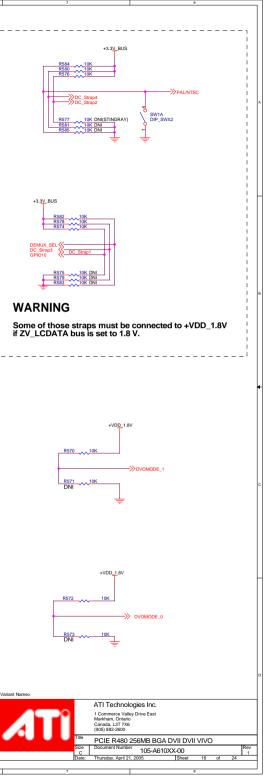




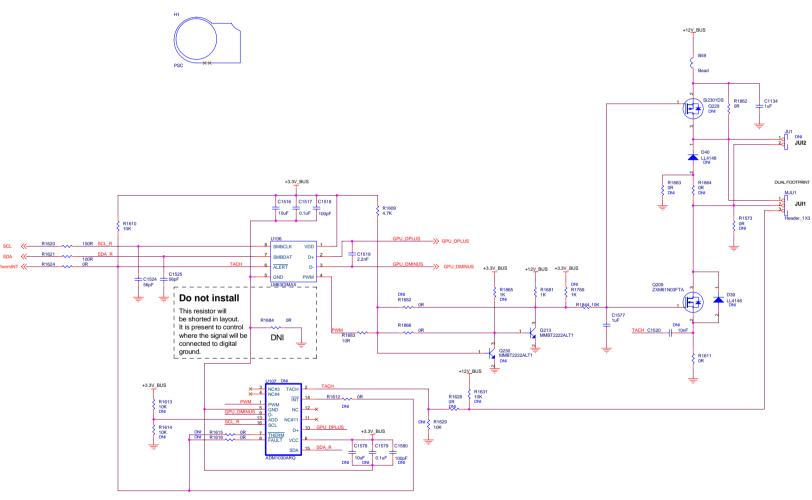
R423 Shared Straps				
STRAPS	PIN	DESCRIPTION	DEFAULT	
MOBILE_FEATURE0	GPIO(0)	Transmitter Power Savings Enable 0. 50% Tx output swing for mobile mode 1. full Tx output swing (Desktop must have an external pullup)	0	
MOBILE_FEATURE1	GPIO(1)	Transmitter De-emphasis Enable 0: Tx de-emphasis disabled for mobile mode 1: Tx de-emphasis enabled (Desktop must have an external pullup)	0	
PCIE_MODE (ATI Internal)	GPIO(3:2)	PCIE mode: 00: PCI Express 1.0A mode 01: Kyrene-compatible mode 10: PCI Express 1.0 mode 110: PCI Express 1.0 mode 11: PCI Express 1.0 mode	00	
TX_IEXT	GPIO(4)	Transmitter Extra Current 0: normal mode 1: extra current in Tx output stage - potential power savings for mobile mode	0	
FORCE_COMPLIANCE	GPIO(5)	Force chip to get to compilance state quickly for Tester purposes 0: Normal operation 1: Force to compilance state	0	
PLL_BW (ATI Internal)	GPIO(6)	0: Full PLL Bandwidth 1: Reduced PLL bandwidth	0	
DEBUG_ACCESS	GPIO(8)	Strap to set the debug muxes to bring out DEBUG signals even if registers are inaccessible 0: Disable debug access 1: Enable debug access	0	
ROMIDCFG(3:9)	GPIO(9,13:11)	If no ROM attached, controls chip IDis. If rom attached identifies ROM type. GPRIGE, 13, 12, 11] 0002- No ROM, CHG, ID-00 0012- No ROM, CHG, ID-01 0013- No ROM, CHG, ID-01 1001- No ROM, CHG, ID-01 1001- No Roma, ATSESTOR ROM (ATTACHED) 1001- STEZ Sensit BAZEPSR ROM (ST) 1010- STEZ Sensit BAZEPSR ROM (ST) 1010- STEZ Sensit BAZEPSR ROM (ST) 1101- No Sensit BAZEPSR ROM (ST) 1101- No Sensit BAZEPSR ROM (ST) 1101- No Sensit BAZEPSR ROM (ST) 1111- No Sensit BAZEPSR ROM (No SENSIT) 1111- NO SENSIT ROM (No SENSIT ROM (No SENSIT) 1111- NO SENSIT ROM (No SENSI	1100	
MULTIFUNC(1:0)	H2SYNC, V2SYNC	IC Multi-function device select 00 - single function device. 01 - two function device. 01 - two function device. 01 - two function device. 10 - two function device. 11 - two function device. 11 - two function device.		
VIP_DEVICE	VSYNC	Indicates if any slave VIP host devices drove this in low during reset. 0 - Slave VIP host port devices present 1 No slave VIP host port devices prosting presence during reset		
RFU	HSYNC	RFU 0 - Normal 1 - Not used	0	

R423 Dedicated Straps			REV. 0.0
ZV_VOLTAGE_SEL0	DVOVMODE_0	DVOVMODE_0 is for ZV_LCDCNTL and ZV_LCDDATA(11:0). 0 - 3.3 V signaling 1 - 1.8 V signaling	0
ZV_VOLTAGE_SEL1	DVOVMODE_1	DVOVMODE_1 is for ZV_LCDDATA(23:12) 0 - 3.3 V signaling	0

Board Straps			REV. 0.0
STRAPS	PIN	DESCRIPTION	DEFAULT
MEMTYPE(1:0)	DVALID, PSYNC.	Memory connected to R420 identification for BIOS 09 - Sensuing GDR 3 memory 144 Ball BGA package 10 - TBD 11 - TBD	000
DC_Strap1	GPIO(10)	Internal TMDS Enabled 0 - Disabled 1 - Enabled	1
DC_Strap2	LCDDATA(13)	Video Capture Enabled 0 - Disabled 1 - Enabled	0
DC_Strap3	LCDDATA(14)	Not defined	0
DC_Strap4, DEMUX_SEL	LCDDATA(15,19)	Video capture enable 00 - DAC2 Off 10 - DAC2 On as CRT 10 - DAC2 On as CRT 11 - DAC2 On as TVOUT 11 - DAC2 On as TVOUT	01
PAL/NTSC	LCDDATA(18)	TVO Standard Default (Resistor pull-up and switch short to GND) 0-PAL (on board resistor pull-down and switch closed) 1-NTSC (on board resistor pull-up)	1
EXT_PWR	GPIO15	External power cable detect 0 - Cable is properly connected 1 - Cable is not propely connected 1 - Cable is not propely connected. Software should prevent the board from booting, should display a warning at stores and a flouid discretizate engine and manuary dook speed.	NA

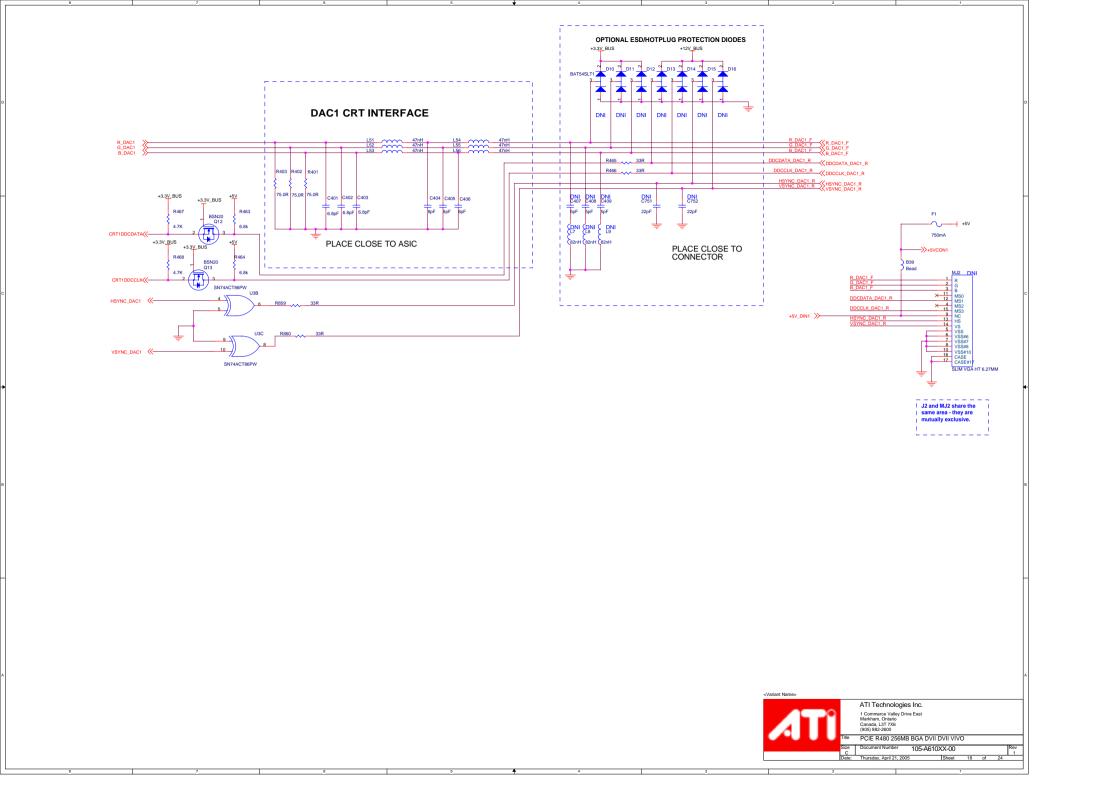


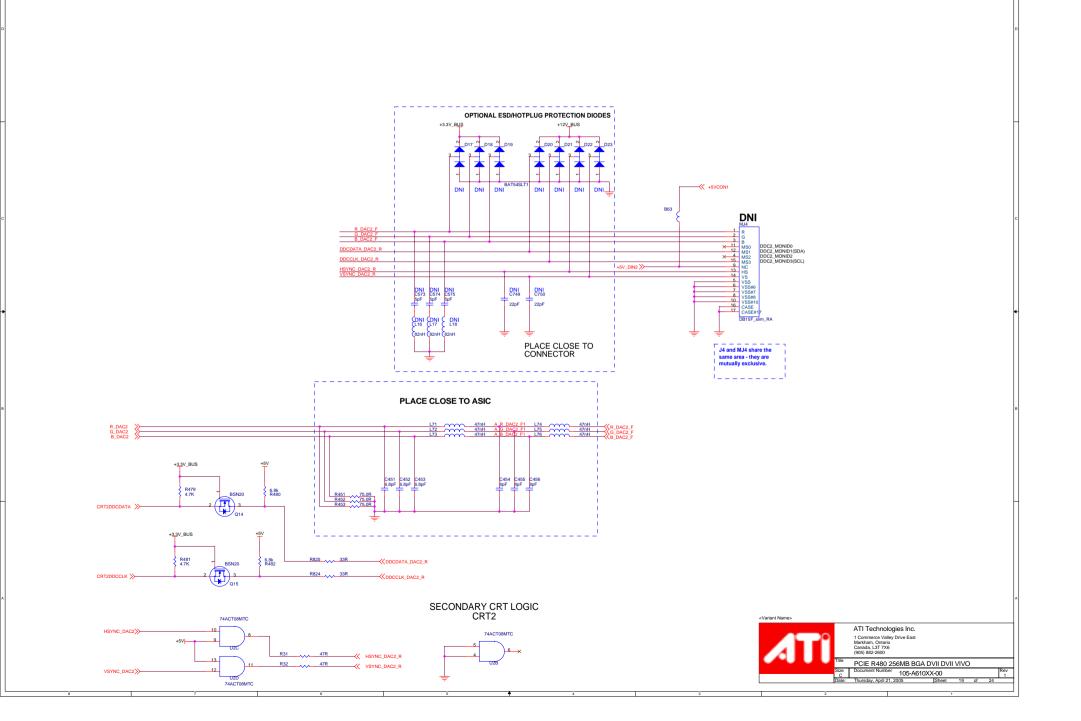
TEMPERATURE SENSE AND SPEED CONTROLLED FAN



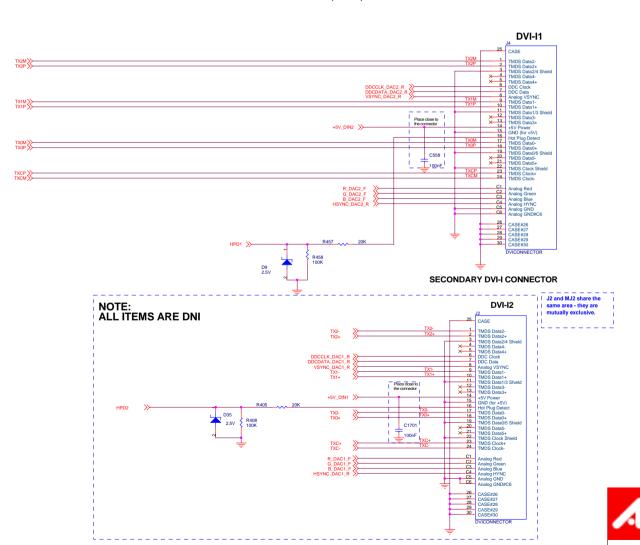
Change to Maxim part







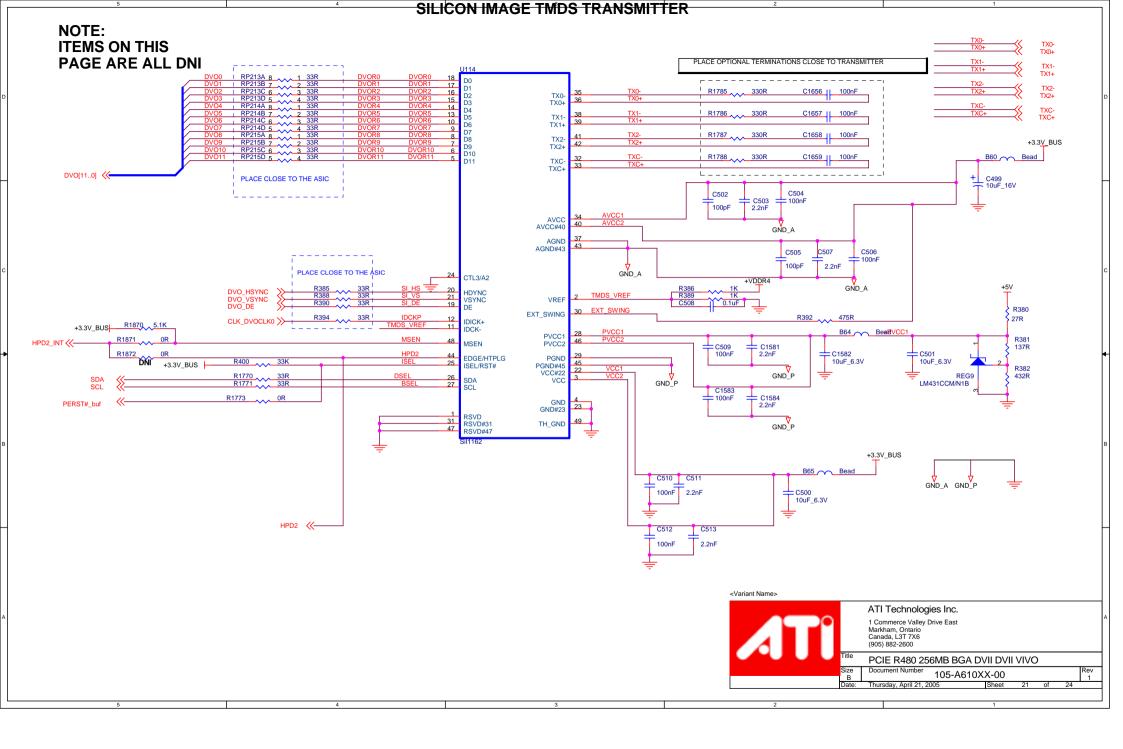
PRIMARY DVI-I CONNECTOR (DVI-I1)

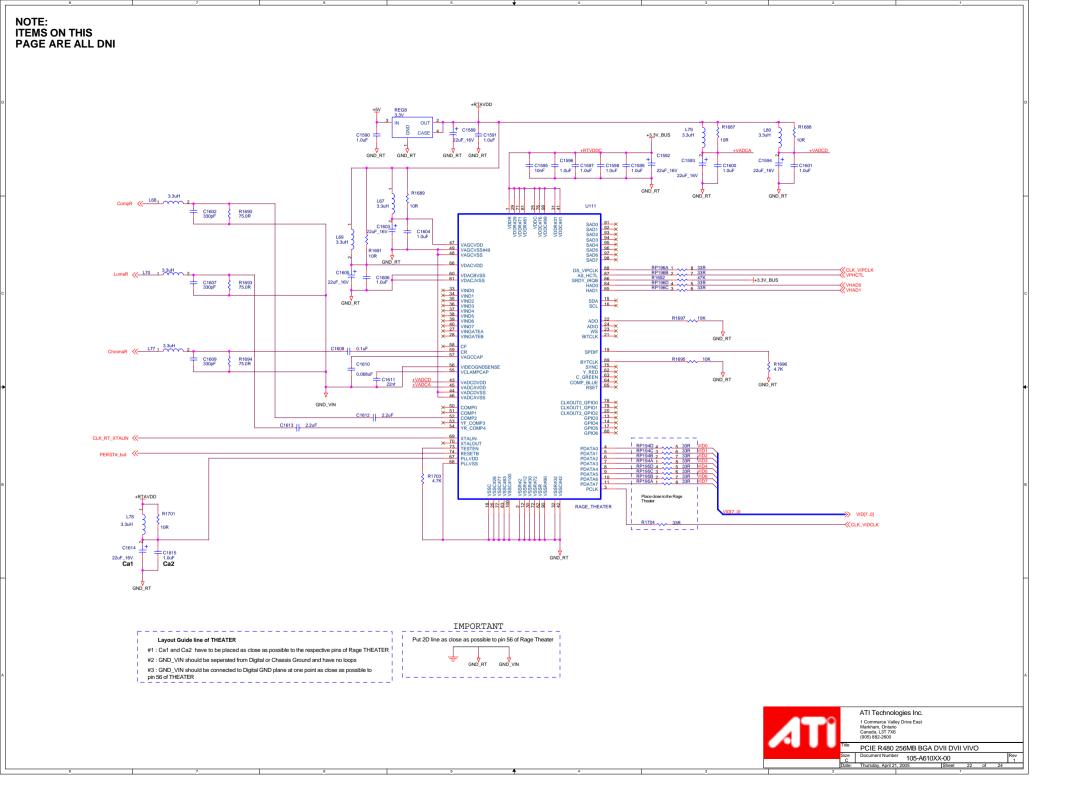


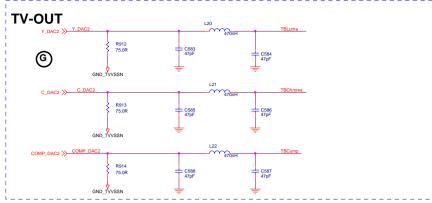
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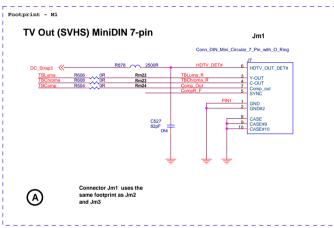
ATI Technologies Inc. 1 Commerce Valley Drive East Markham, Ontario Canada, L3T 7X6 (905) 882-2600

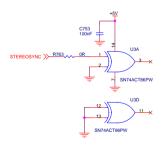
PCIE R480 256MB BGA DVII DVII VIVO

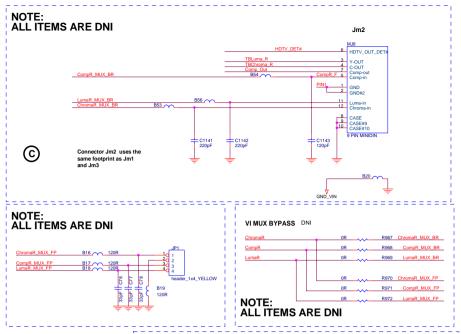


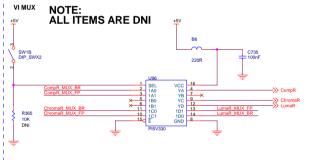












	Install	DNI
TV-OUT 7-PIN MiniDIN 102-00302-00 102-00305-00	A B E	©
VIVO 9-PIN MiniDIN 102-00303-00 102-00306-00	©	A B E
No Options (Just DB15)		A B © E
(A) (C) share the same	e footprint	

A) (C) share the same footprint



