

### REFERENCE DESIGN

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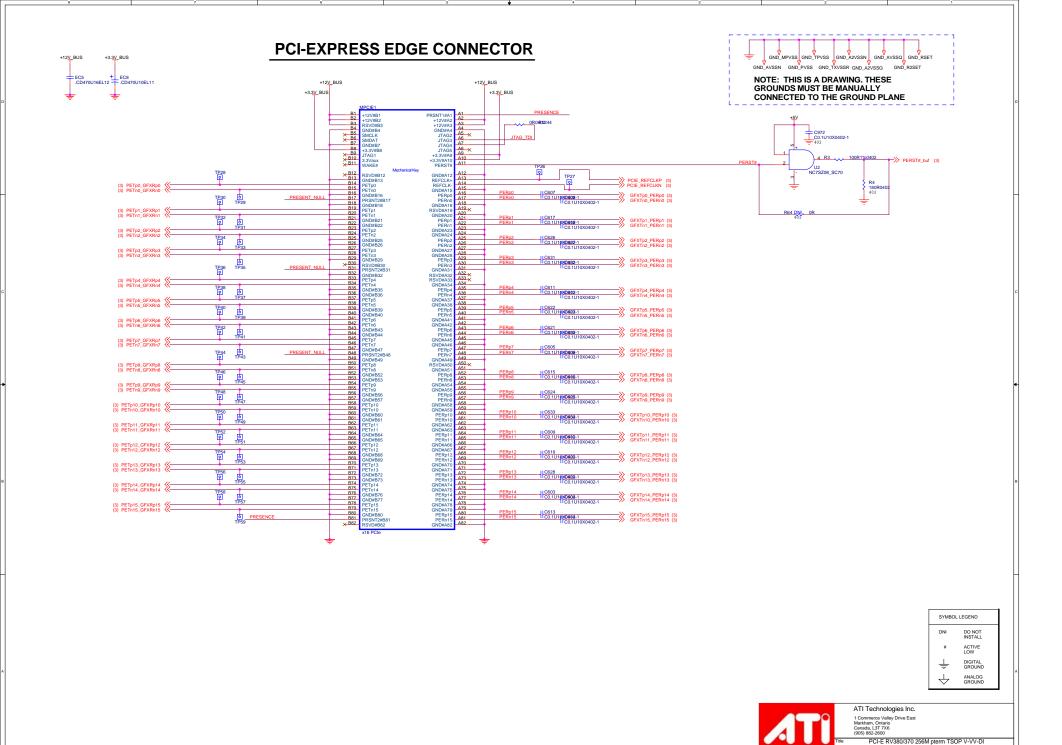
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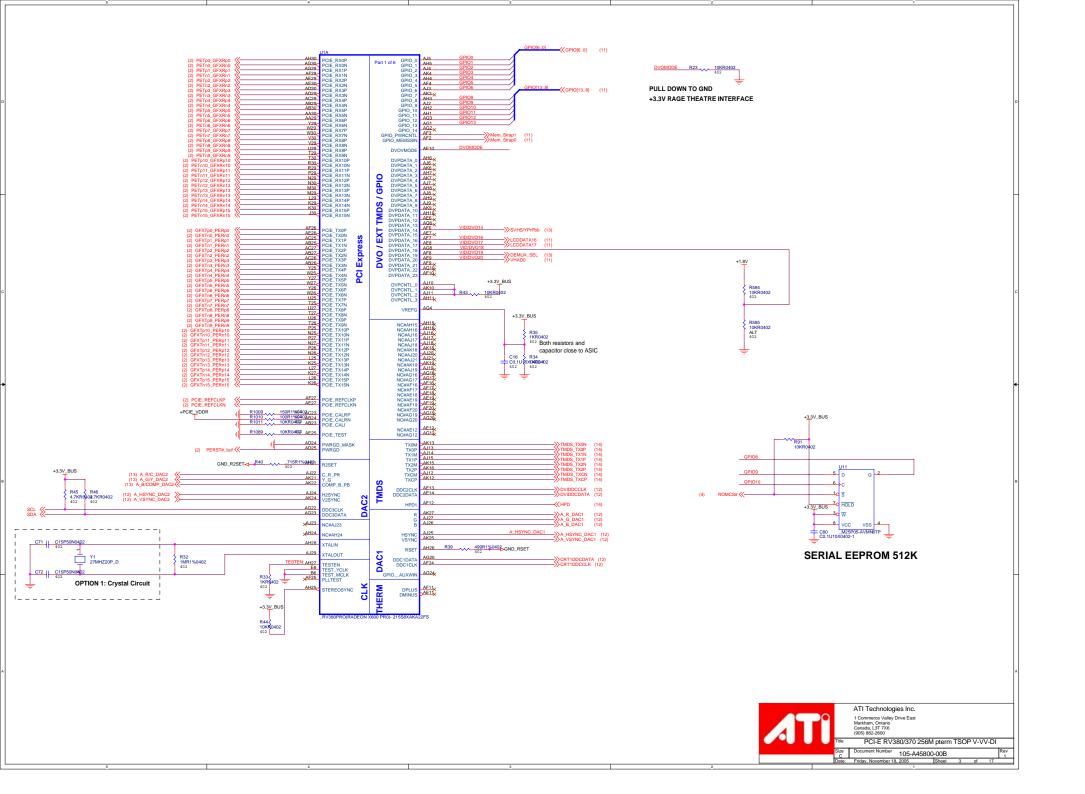
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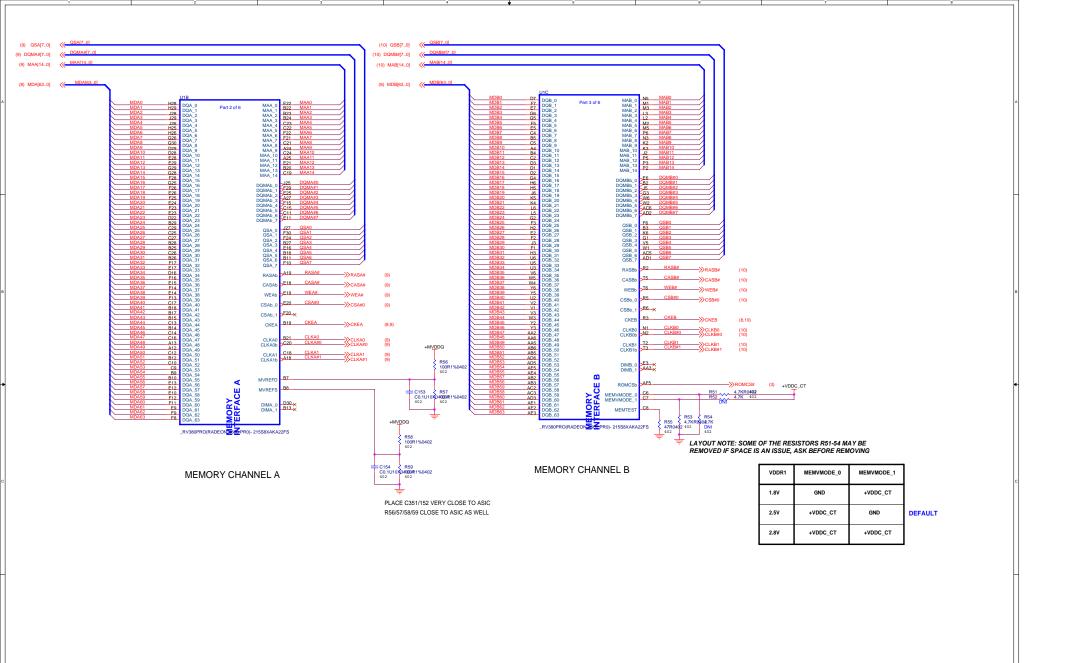
Title PCI-E RV380/370 256M pterm TSOP V-VV-DI

Size Document Number 105-A45800-00B

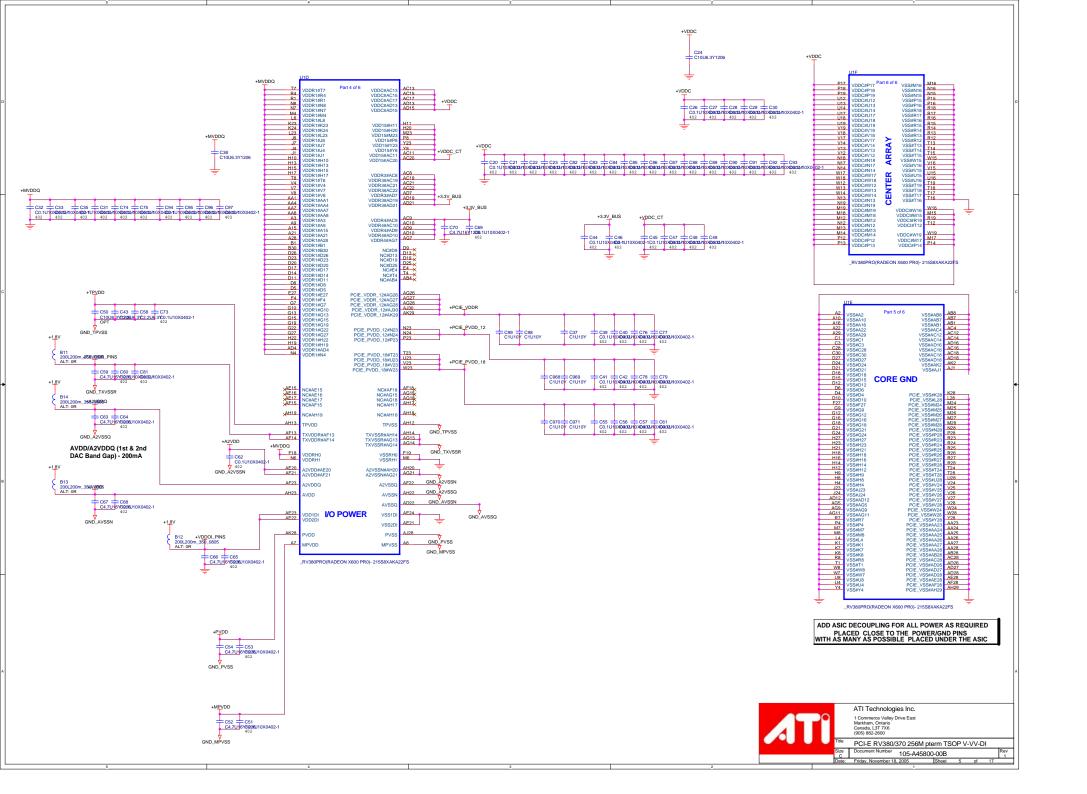


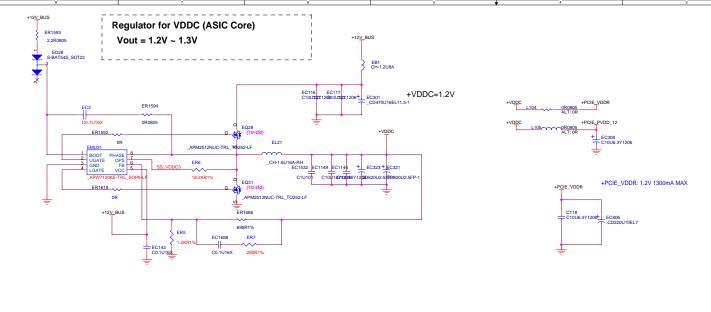
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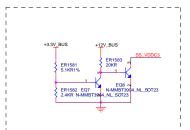




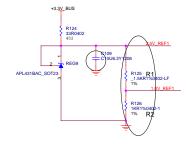




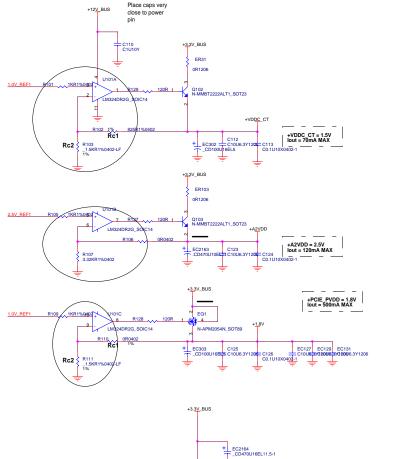






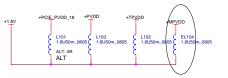


MPVDD	Rc1	Rc2
1.2V	301R 1% P/N: 3240301000	1.50K 1% P/N: 3240150100
1.3V	442R 1% P/N: 3240442000	1.50K 1% P/N: 3240150100
1.4V	604R 1% P/N: 3240604000	1.50K 1% P/N: 3240150100
1.5V	750R 1% P/N: 3240750000	1.50K 1% P/N: 3240150100
1.6V	909R 1% P/N: 3240909000	1.50K 1% P/N: 3240150100
1.7V	1.05K 1% P/N: 3240105100	1.50K 1% P/N: 3240150100
1.8V	1.21K 1% P/N: 3240121100	1.50K 1% P/N: 3240150100
1.88V	1.33K 1% P/N: 3240133100	1.50K 1% P/N: 3240150100

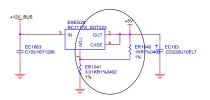








Rails derived from +1.8V +AVDD: 10mA MAX +A2VDDQ: 20mA MAX +VDDOL\_PINS: 20mA MAX +TXVDDR\_PINS: 20mA MAX



Regulator for +5V Vout = 5V lout = 800mA MAX



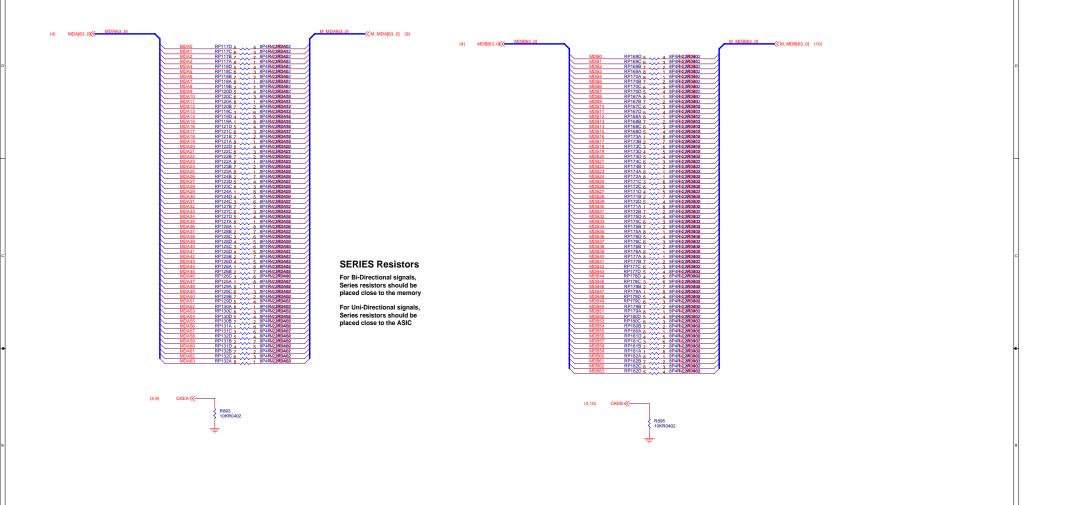
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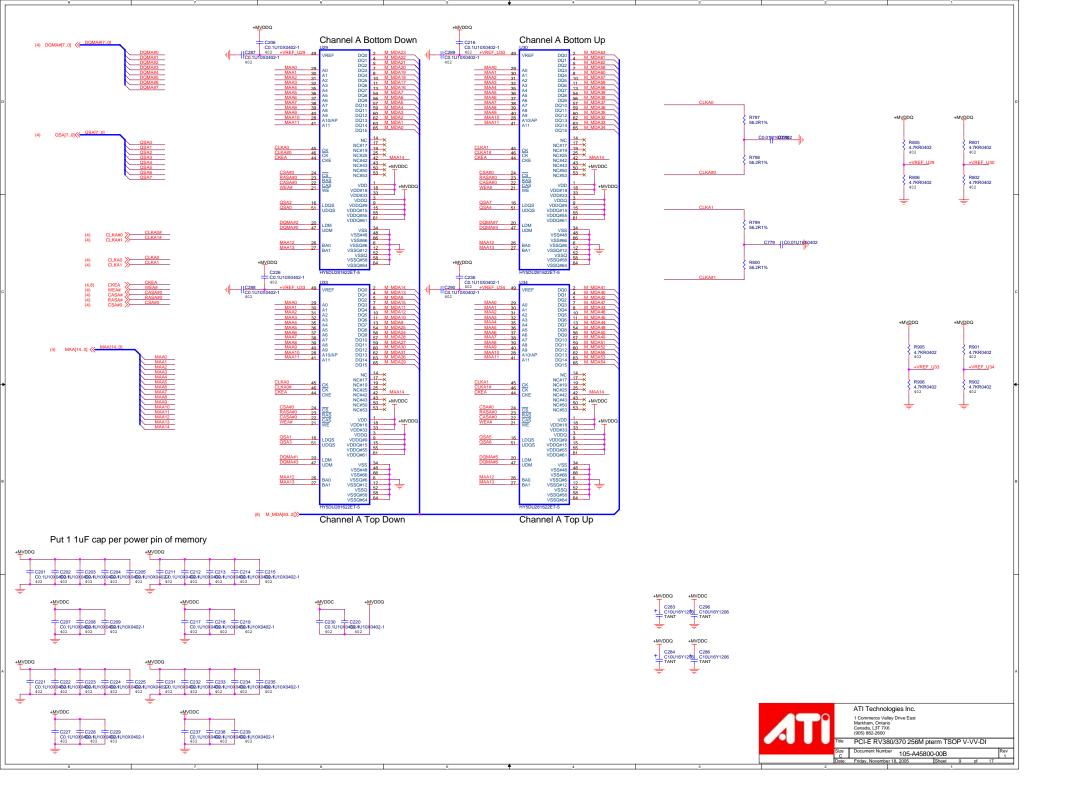
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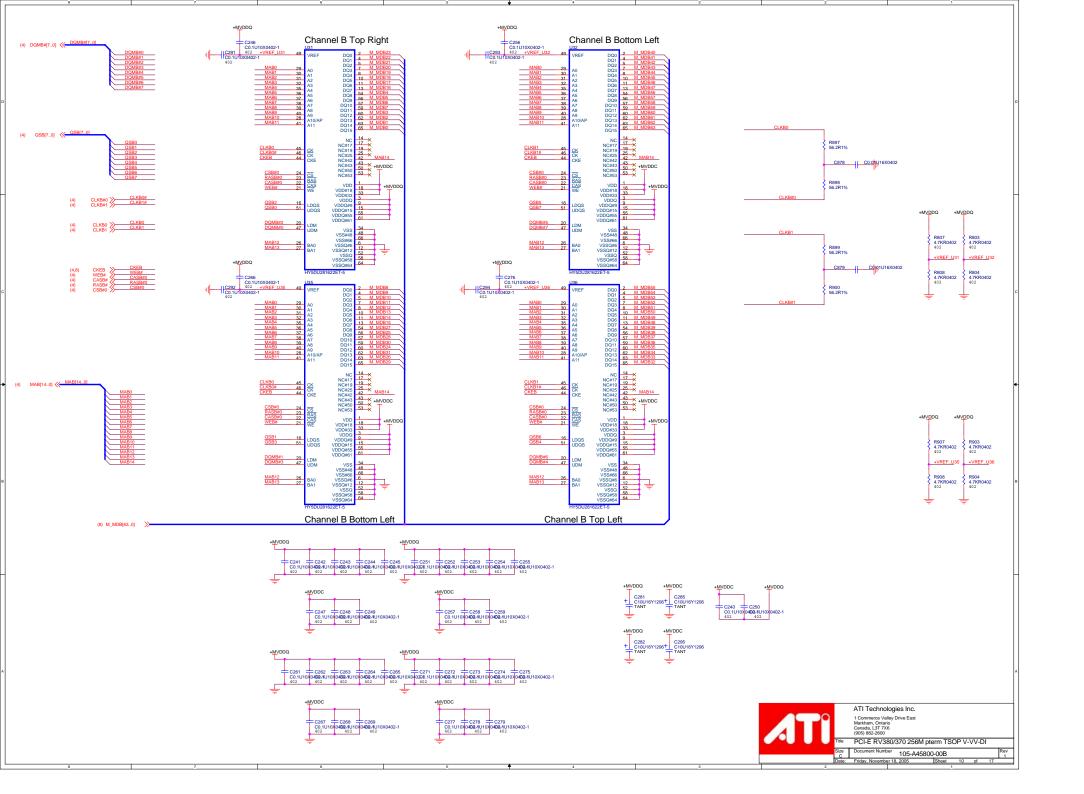
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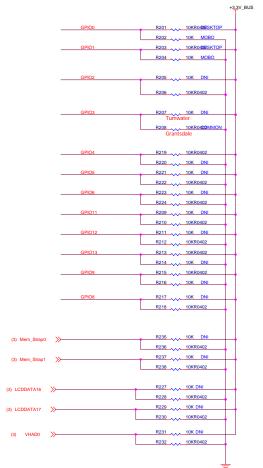


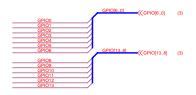






## OPTION STRAPS





STRAPS	PIN	DESCRIPTION	ASIC DEFAULT
STRAP_B_PTX_PWRS_ENB	GPI00	Transmitter Power Savings Enable 0: 5:0% Tx output swing for mobile mode 1: full Tx output swing 1	0
STRAP_B_PTX_DEEMPH_EN	GPIO1	Transmitter De-emphasis Enable 0: Tx de-emphasis disabled for mobile mode 1: Tx de-emphasis enabled	0
PCIE_MODE(1:0)	GPIO(3:2)	00: PCI Express 1.0A mode (Grantsdale) 01: Kyreni-compatible mode 01: Kyreni-compatible mode 11: PCI Express 1.0 mode (Tumwater) 11: PCI Express 1.0A mode (Tumwater) 11: PCI Express 1.0A mode and short-circuit internal loopback mode (Rx connected directly to 17 of PPIY)	00
STRAP_B_PTX_IEXT	GPIO4	Transmitter Extra Current O: normal mode 1: extra current in Tx output stage - potential power savings for mobile mode	0
STRAP_FORCE_COMPLIANCE	GPIO5	Force chip to go to Compliance state quickly for Tester purposes 0: normal operational mode 1: compliance mode	0
STRAP_B_PPLL_BW	GPIO6	PLL Bandwidth 0: full PLL Bandwidth 1: reduced PLL bandwidth	0
STRAP_DEBUG_ACCESS	GPI08	Strap to set the debug muxes to bring out DEBUG signals even if registers are inaccessible.	0
ROMIDCFG(3:0)	GPIO(9,13:11)	If no ROM attached, comtrols chip IDis. If rom attached identifies ROM type 0,000 - No ROM, CHG, ID-0 1000 - No ROM, CHG, ID-0 1000 - reserved 01010 - reserved 0110 - reserved 0110 - reserved 1010 - Reserved ROM, chip IDIs from ROM 1000 - Parallet ROM, chip IDIs from ROM 1010 - ROM 1000 - ROM 100	
VIP_DEVICE	DVPDATA_20 (VHAD0 net)	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 reporting presence during reset	

STRAP P	INTERRUPT	
LOW	ENABLED (DEFAULT)	
HIGH	DISABLED	

MEMORY TYPE STRAPS			
	Mem_Strap0	Mem_Strap1	
SAM	0	0	
INF	1	0	
HYN	0	1	
ELPIDA	1	1	

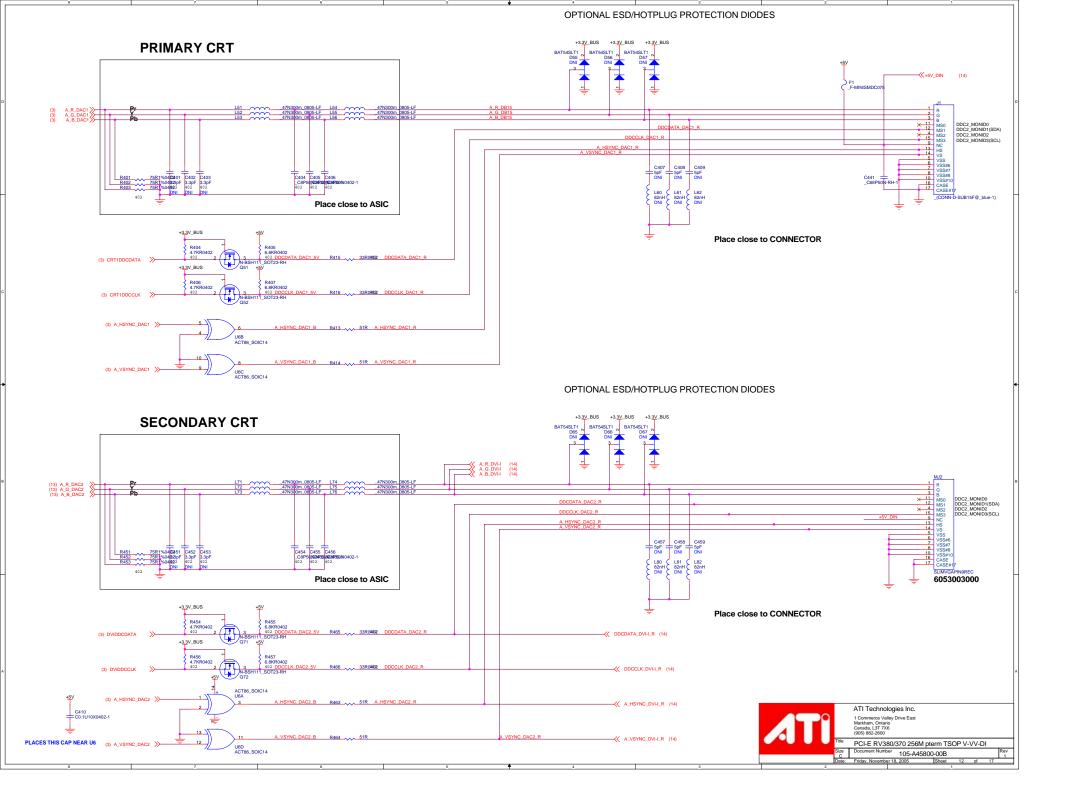
STRA	IPS	PIN	DESCRIPTION
NTSC	C/PAL	LCDDATA18	TVO Standard Default (Resistor pull-up and switch short to GND)  0 - PAL (on board resistor pull-down and switch dosed)  1 - NTSC (on board resistor pull-up)

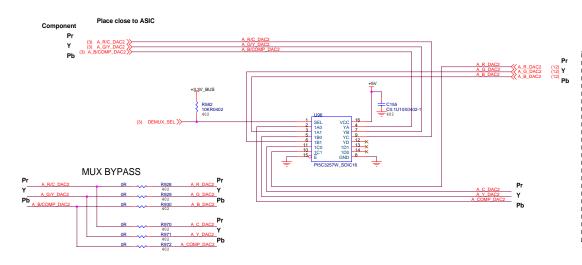


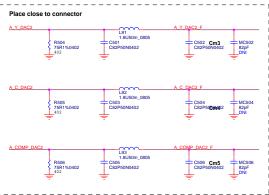
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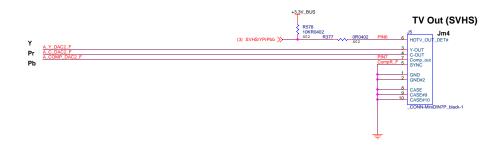
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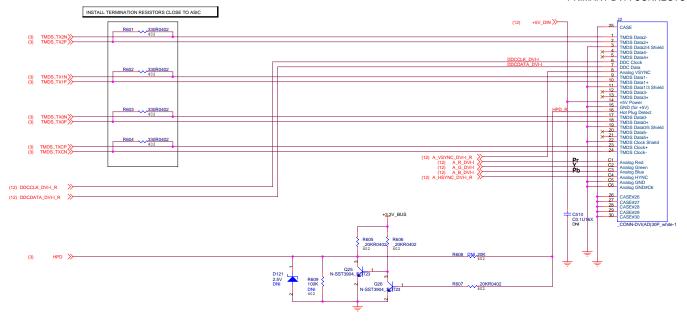






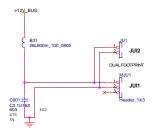


### PRIMARY DVI-I CONNECTOR





## TEMPERATURE SENSE AND SPEED CONTROLLED FAN







HEATSINK 7120005100 Spring push-pin



HEATSINK 7120008000 ITW push-pin

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