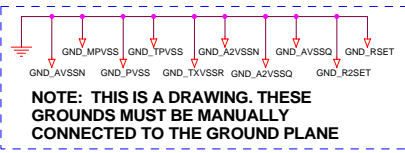
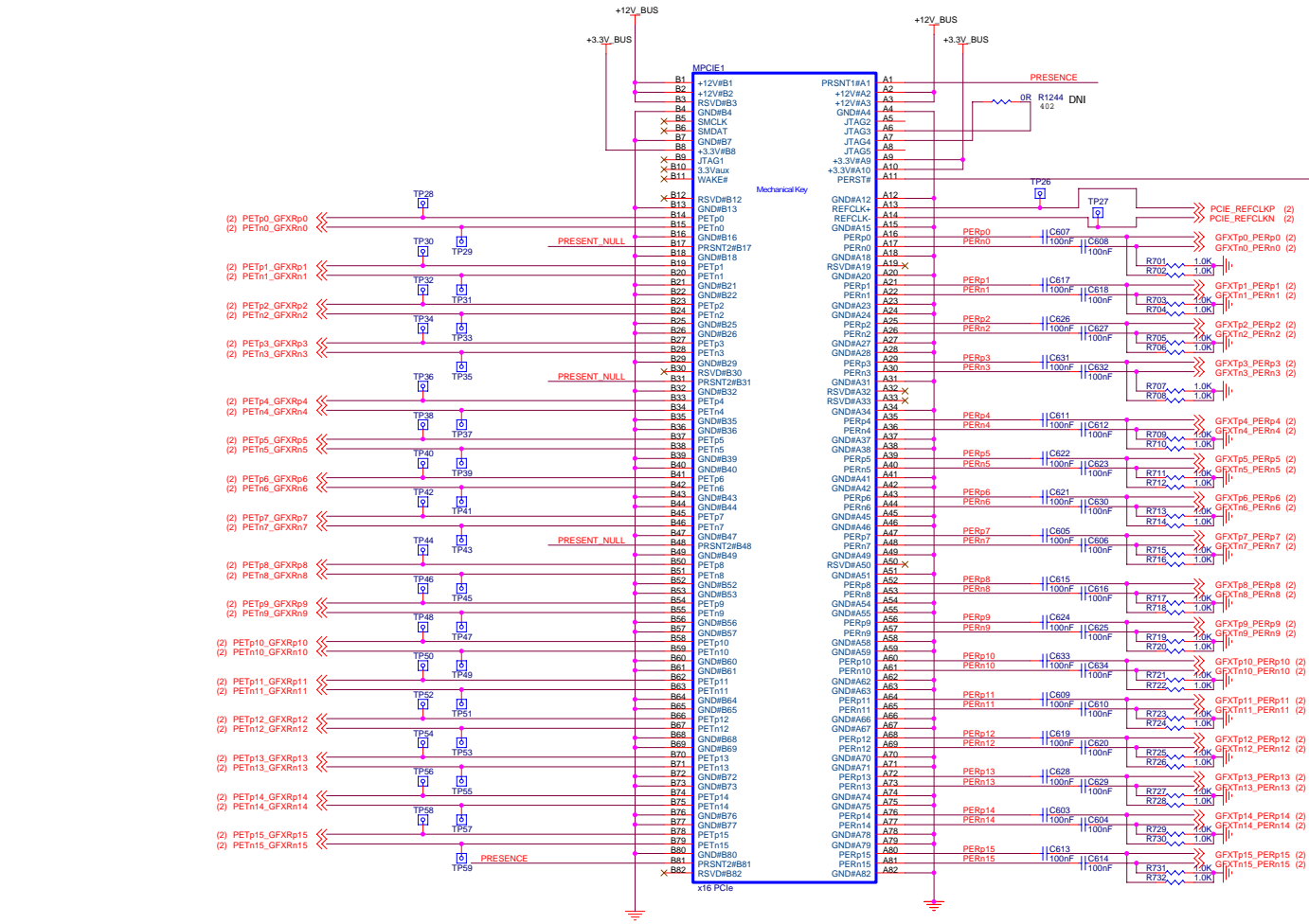
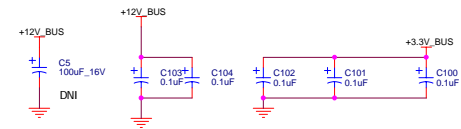
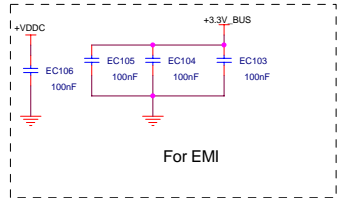
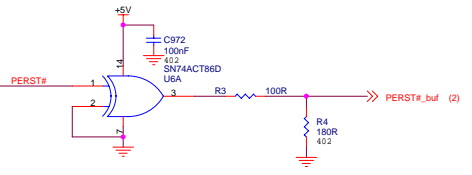


PCI-EXPRESS EDGE CONNECTOR

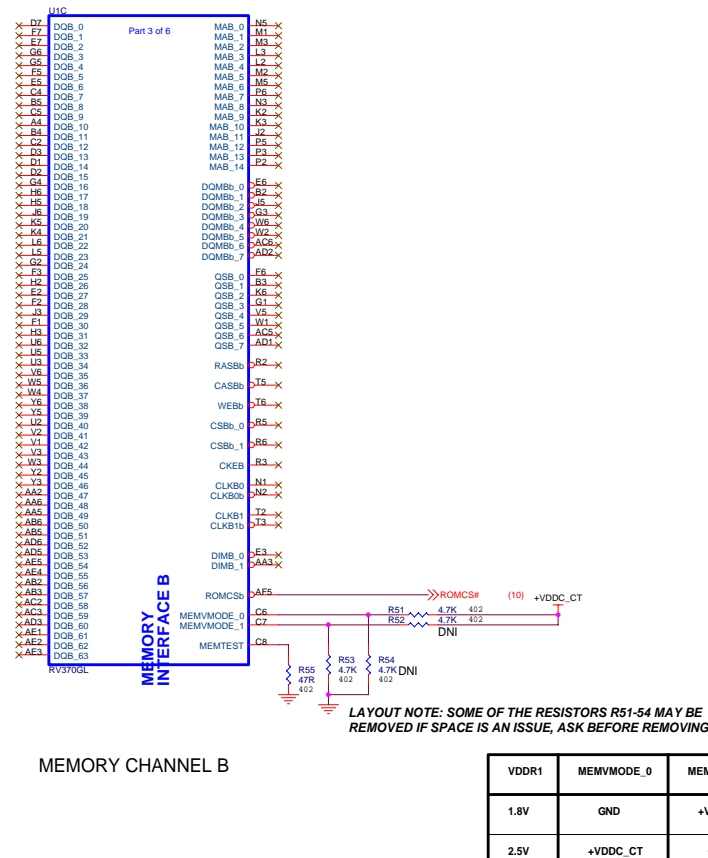
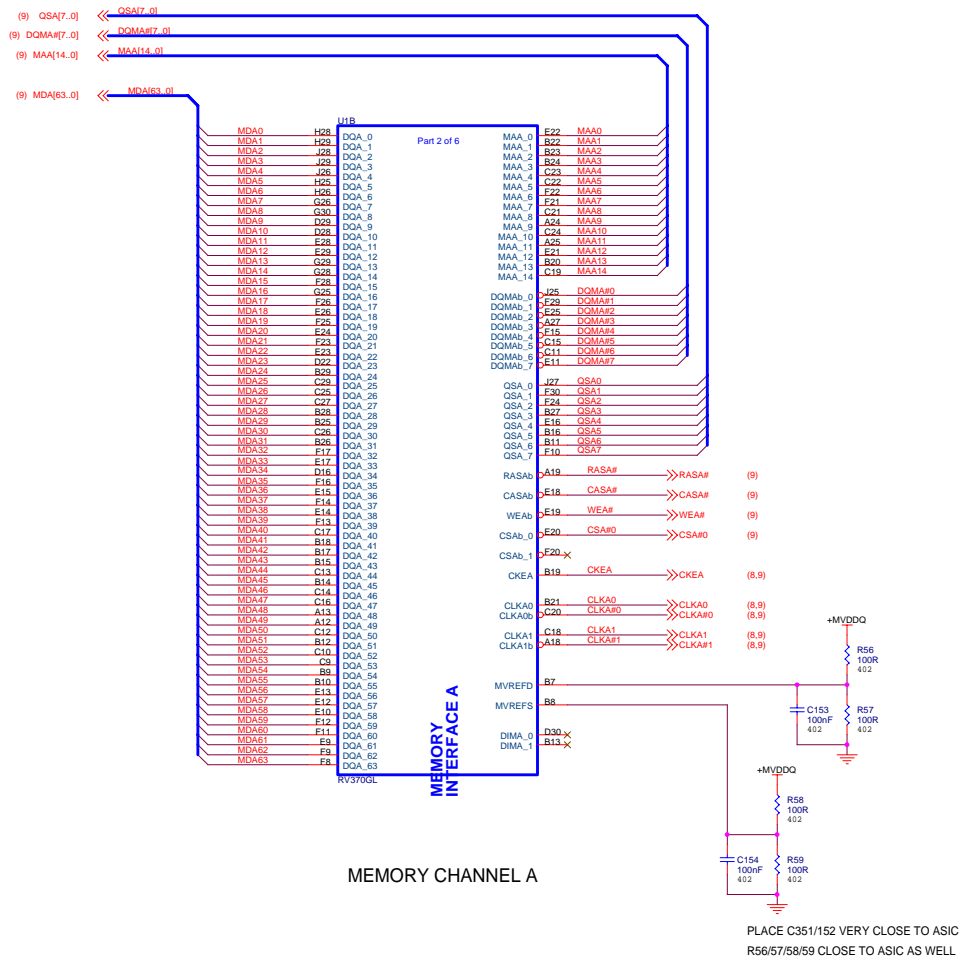


NOTE: THIS IS A DRAWING. THESE GROUNDS MUST BE MANUALLY CONNECTED TO THE GROUND PLANE



SYMBOL LEGEND	
DNI	DO NOT INSTALL
#	ACTIVE LOW
	DIGITAL GROUND
	ANALOG GROUND

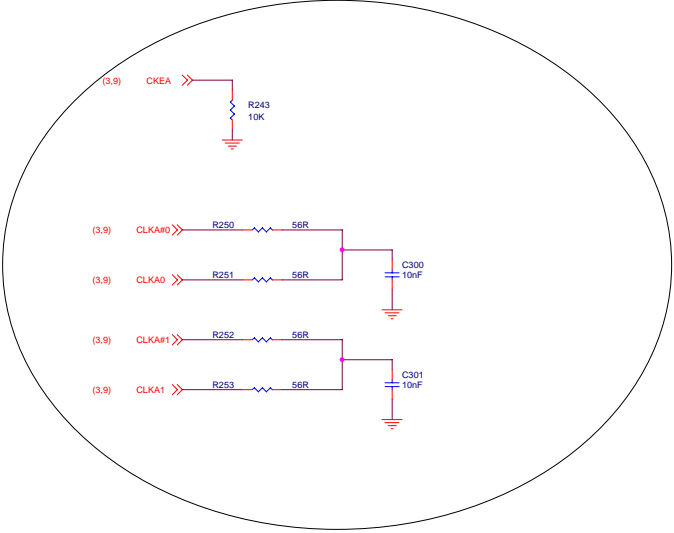
MS-V032 RV370		
Size C	Document Number	Rev 200
Date: Friday, July 15, 2005	Sheet 1	of 15

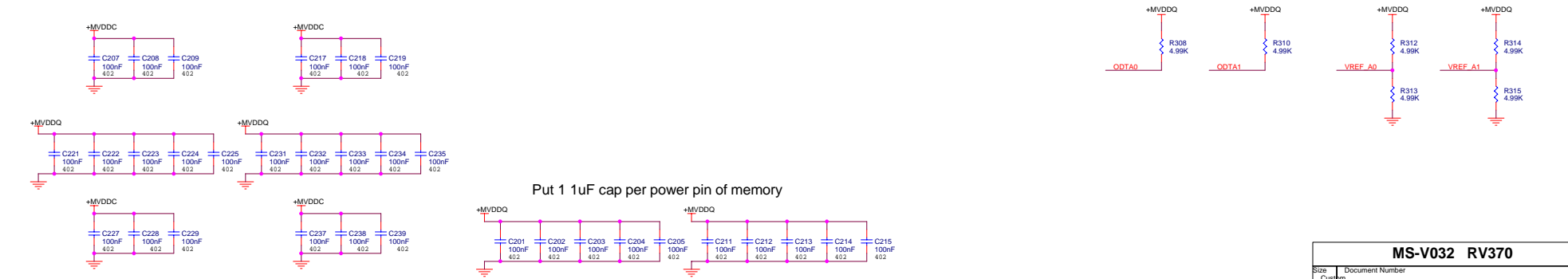
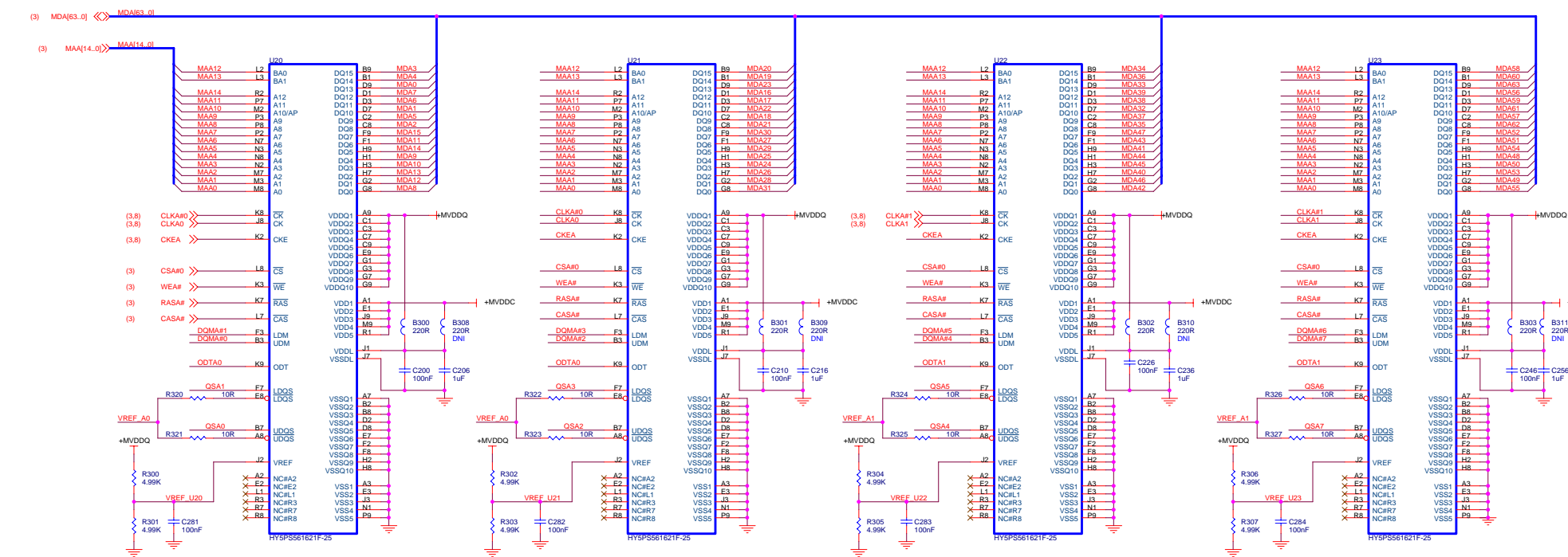
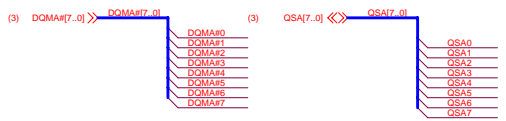


VDDR1	MEMVMODE_0	MEMVMODE_1
1.8V	GND	+VDDC_CT
2.5V	+VDDC_CT	GND
2.8V	+VDDC_CT	+VDDC_CT

APW7120 Application Circuit

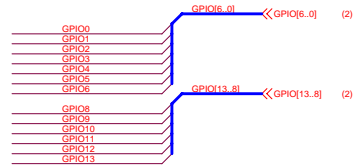
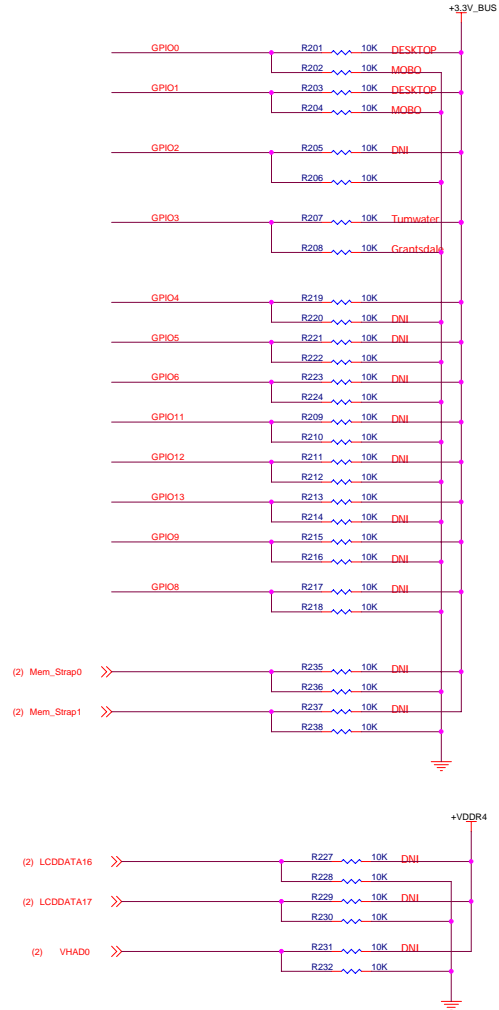






Put 1 uF cap per power pin of memory

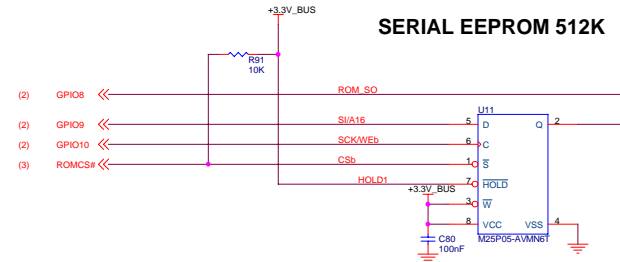
OPTION STRAPS



STRAPS	PIN	DESCRIPTION	ASIC DEFAULT
STRAP_B_PTX_PWRS_ENB	GPIO0	Transmitter Power Savings Enable 0: 50% Tx output swing for mobile mode 1: full Tx output swing	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: Kyrene-compatible mode 10: PCI Express 1.0 mode (Turmwater) 11: PCI Express 1.0A mode and short-circuit internal loopback mode (Rx connected directly to Tx of PHY)	00
STRAP_B_PTX_IEXT	GPIO4	Transmitter Extra Current 0: 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	GPIO8	Strap to set the debug muxes to bring out DEBUG signals even if registers are inaccessible.	0
ROMDCFG(3:0)	GPIO(9,13:11)	If no ROM attached, controls chip IDis. If rom attached identifies ROM type 0000 - No ROM, CHG_ID=0 0001 - No ROM, CHG_ID=1 0100 - reserved 0110 - reserved 1000 - Parallel ROM, chip IDis from ROM 1001 - Serial AT25F1024 ROM (Atmel), chip IDis from ROM 1010 - Serial AT45DB011 ROM (Atmel), chip IDis from ROM 1011 - Serial M25P10 ROM (ST), chip IDis from ROM 1100 - Serial M25P05 ROM (ST), chip IDis from ROM 1100 - Serial NX25F011B ROM (ISSI), chip IDis from ROM	
VIP_DEVICE	DVPDATA_20 (VHADO 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

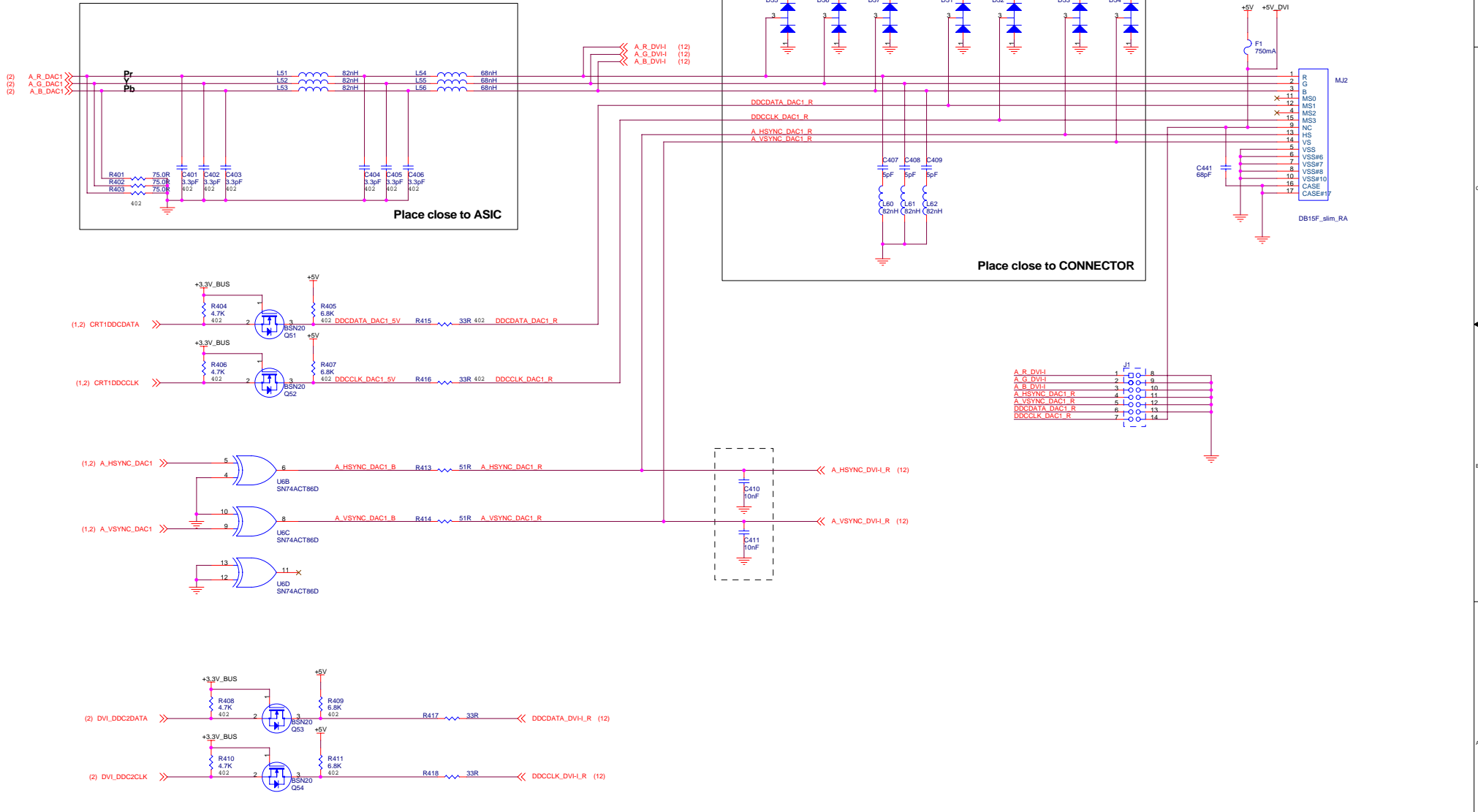
MEMORY TYPE STRAPS		
	Mem_Strap0	Mem_Strap1
SAM	0	0
INF	1	0
HYN	0	1
ELPIDA	1	1

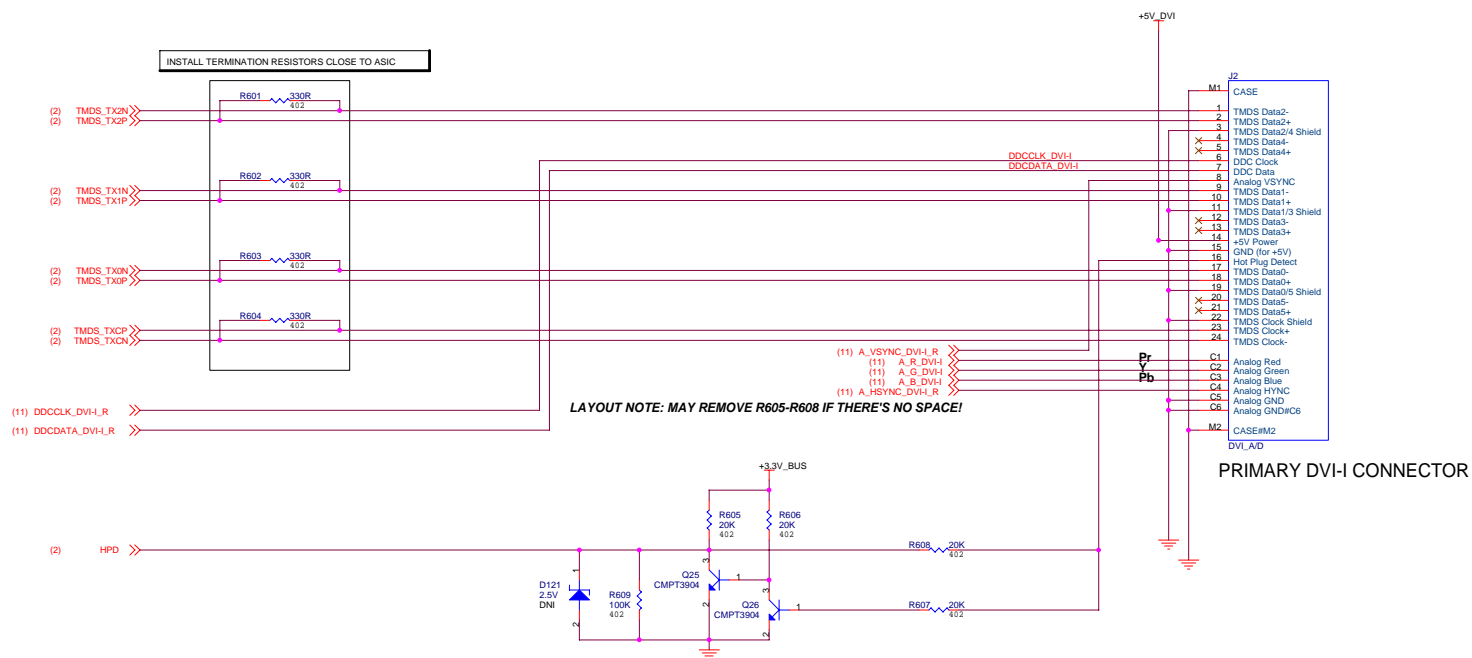


SERIAL EEPROM 512K

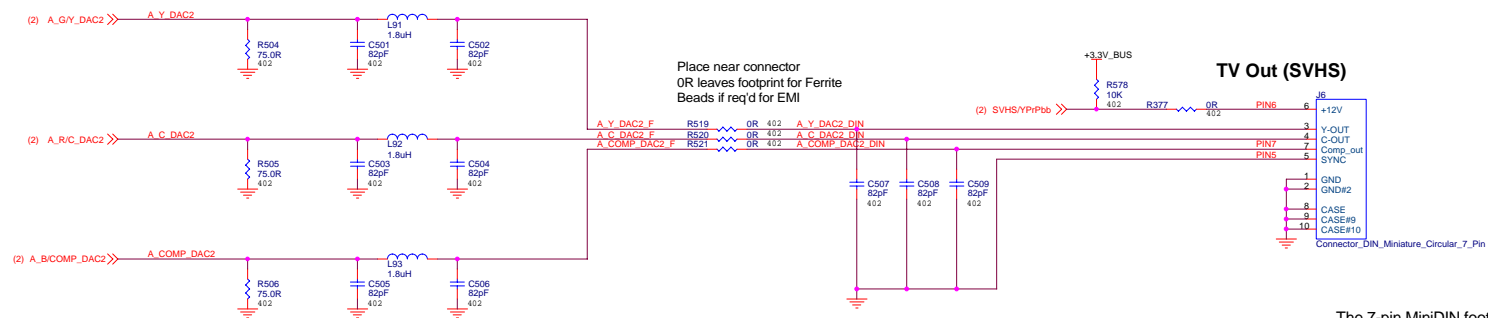
PRIMARY CRT

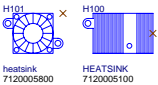
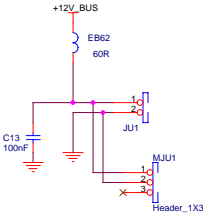
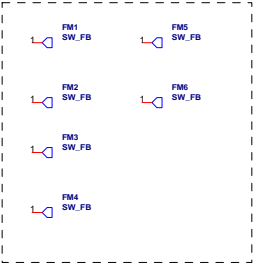
OPTIONAL ESD/HOTPLUG PROTECTION DIODES





Place Resistors close to ASIC.





Spring push-pin
ITW push-pin

