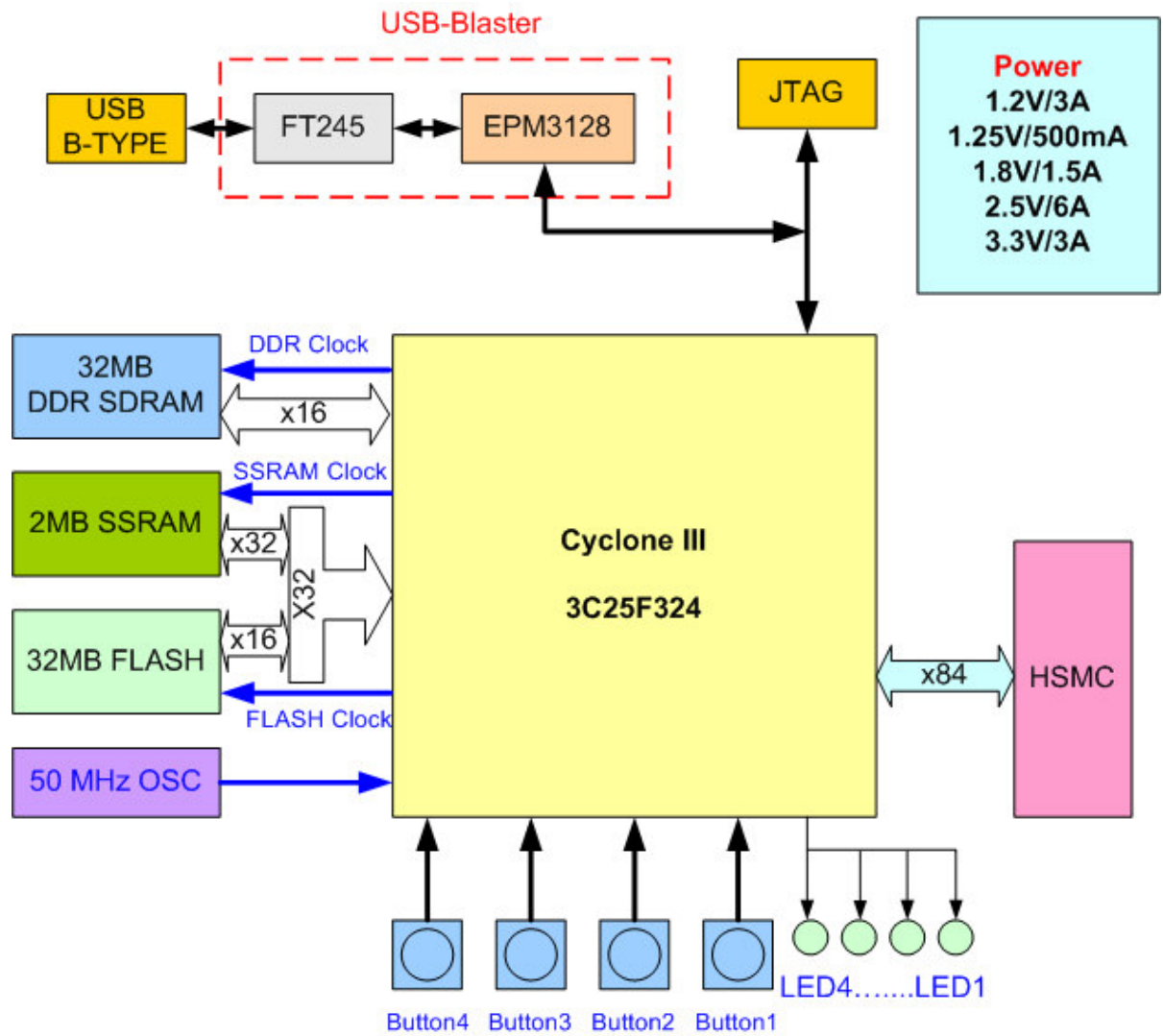
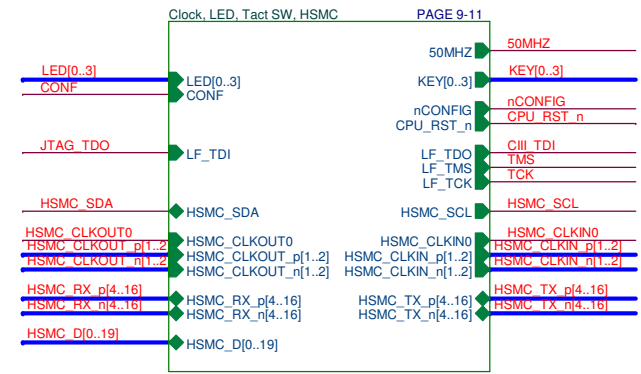
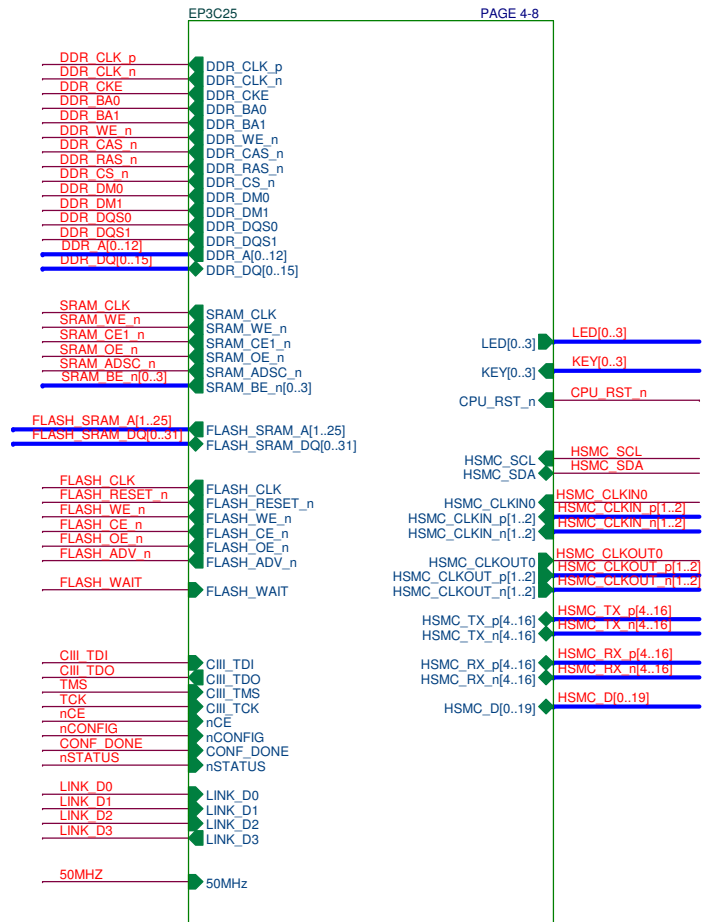
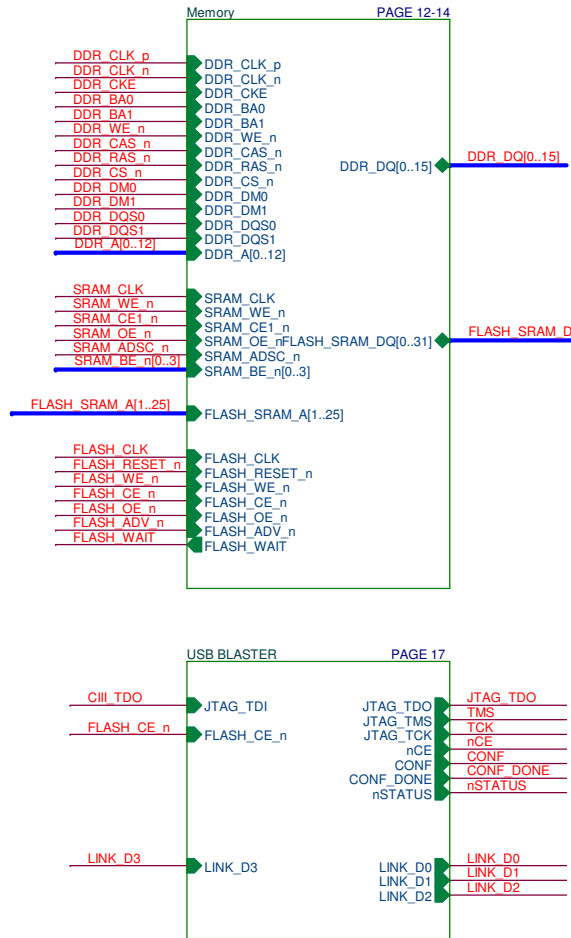


Cyclone III Starter Board

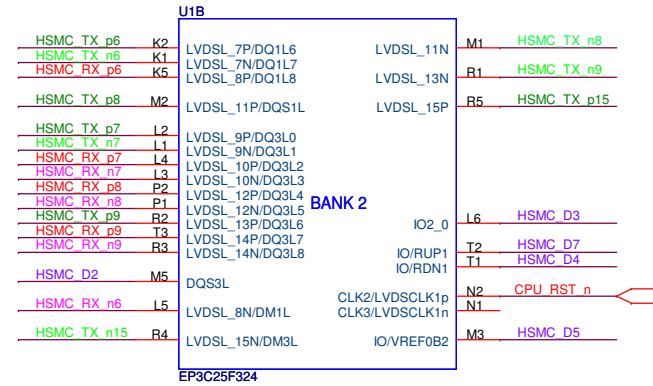
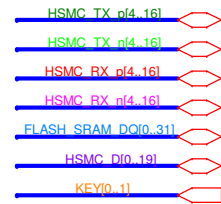
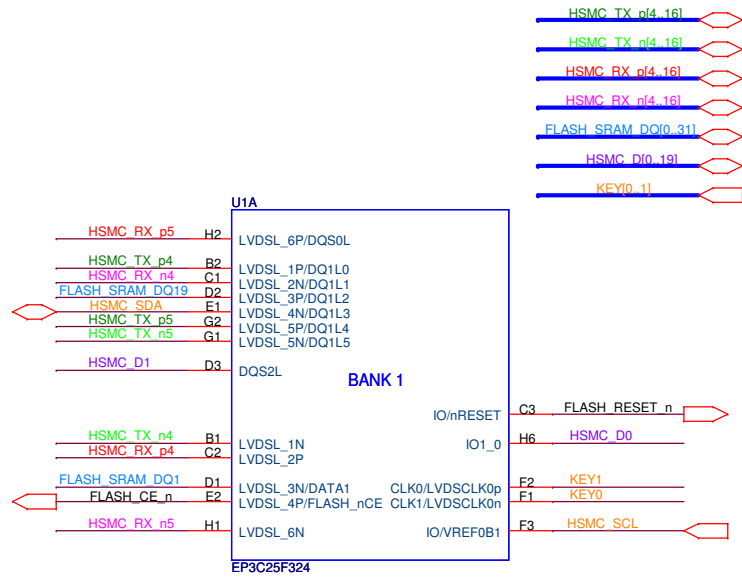
SCHEMATIC	CONTENT	PAGE
TOP	COVER PAGE, TOP	01 ~ 03
EP3C25	EP3C25 BANK1..BANK8, POWER, CONFIG	04 ~ 08
IN/OUT	CLOCK, LEVEL SHIFT, KEY, CONNECT, HSMC	09 ~ 11
MEMORY	DDR, SSRAM, FLASH	12 ~ 14
POWER	POWER	15 ~ 16
USB BLASTER	USB BLASTER	17 ~ 17



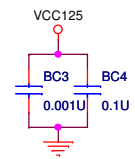
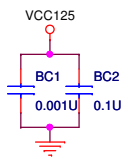
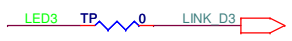
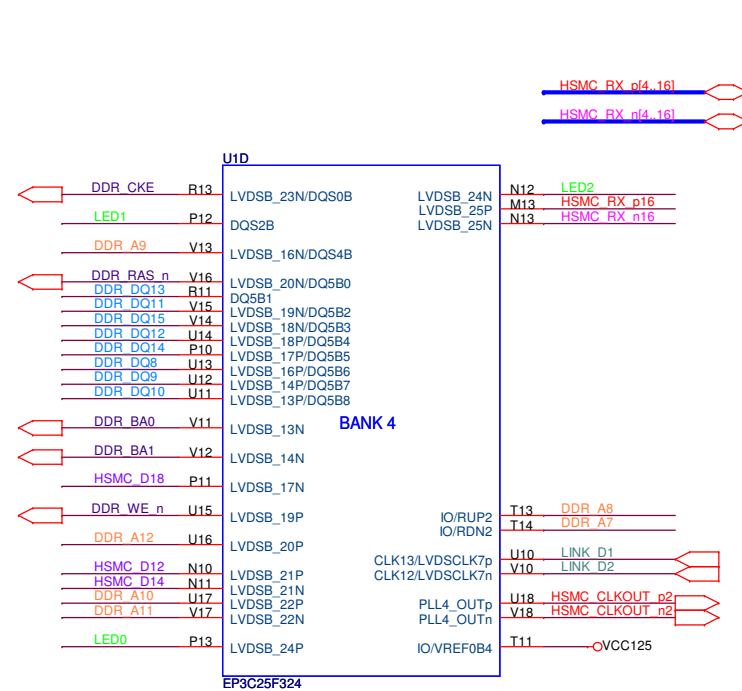
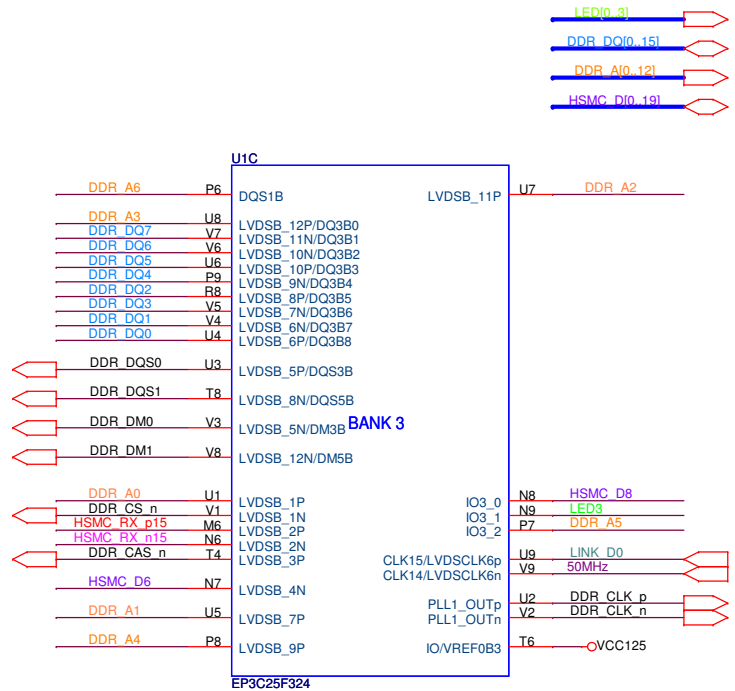
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	PLACEMENT	1.3
Date:	Wednesday, February 03, 2010	Sheet 2 of 17



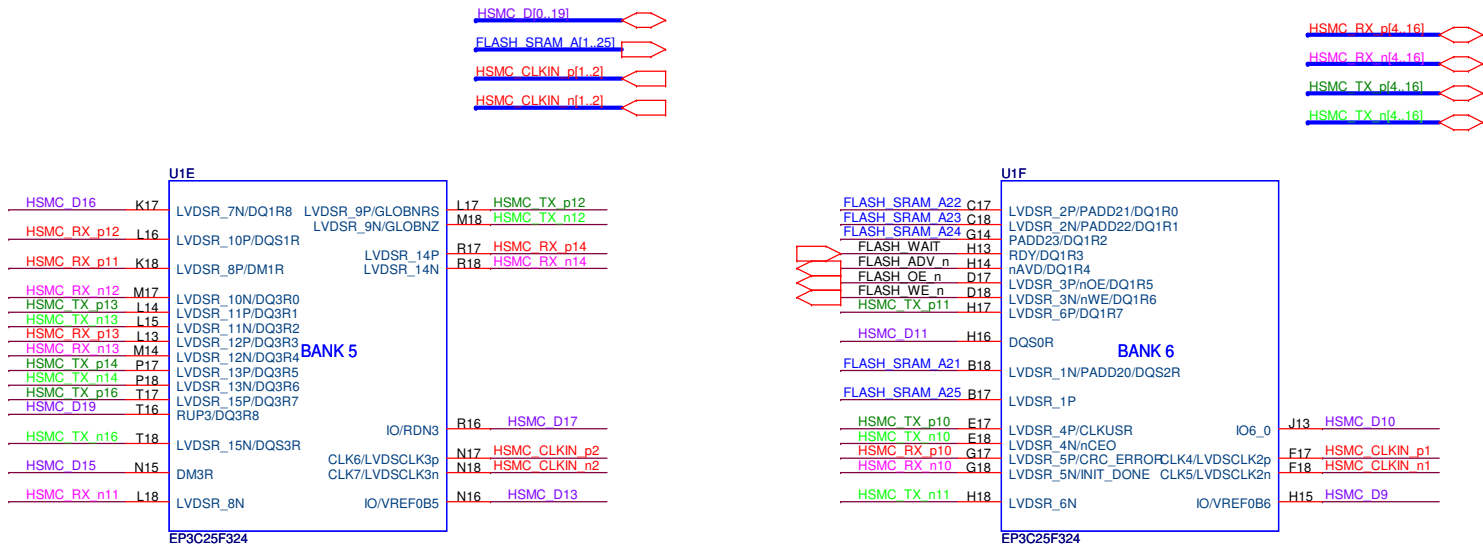
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	TOP LEVEL	1.3
Date:	Wednesday, February 03, 2010	Sheet 3 of 17



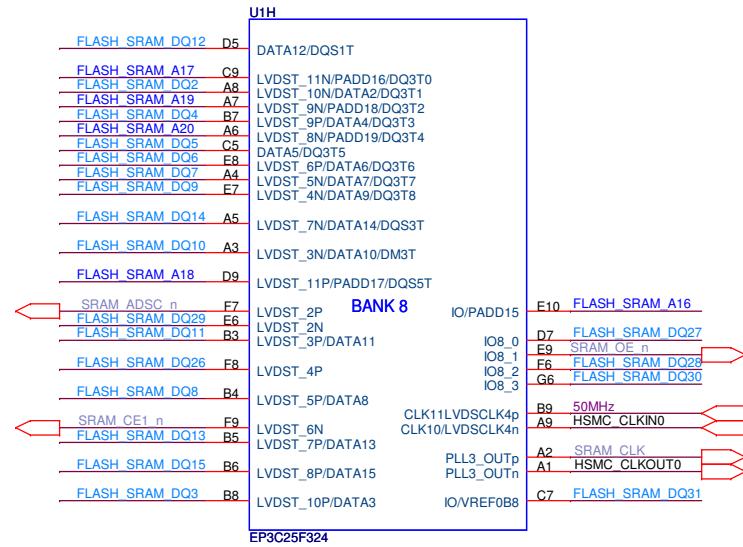
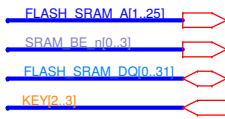
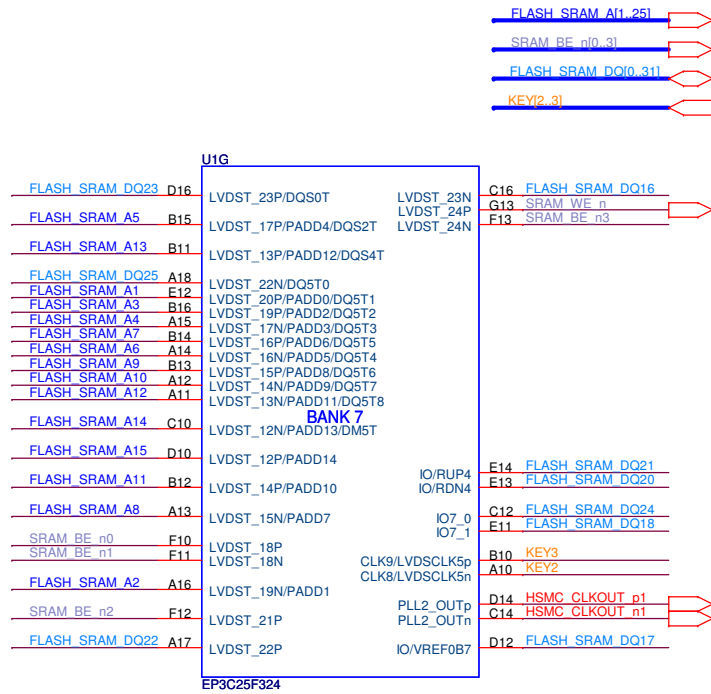
Title		
Altera Cyclone III Eval Board		
Size B	Document Number EP2C35 BANK1 (I/O : 2.5V) and BANK 2(I/O : 2.5V)	Rev 1.3
Date:	Wednesday, February 03, 2010	Sheet 4 of 17



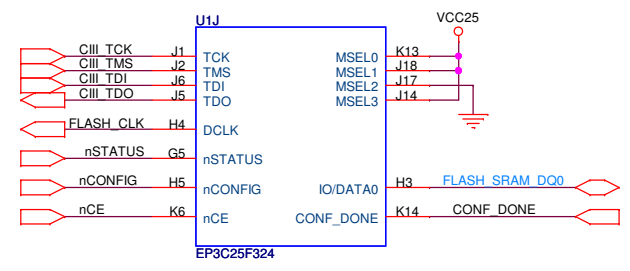
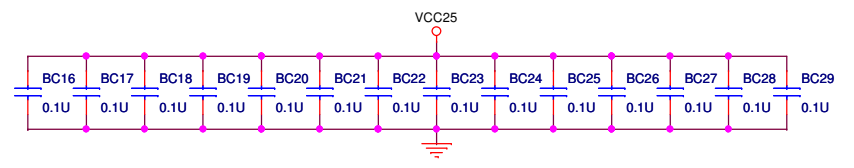
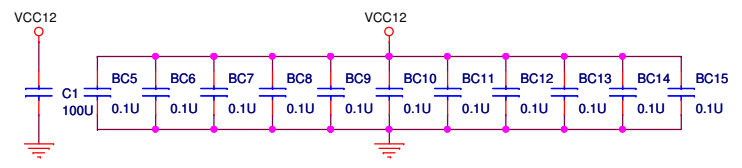
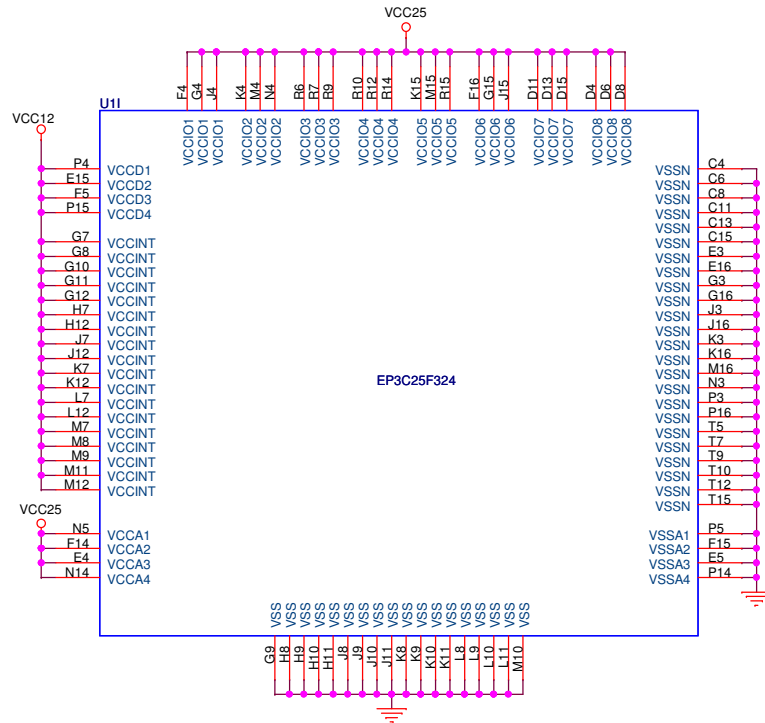
Title		
Altera Cyclone III Eval Board		
Size B	Document Number EP2C35 BANK3(I/O : 2.5V) and BANK 4(I/O : 3.3V)	Rev 1.3
Date:	Wednesday, February 03, 2010	Sheet 5 of 17



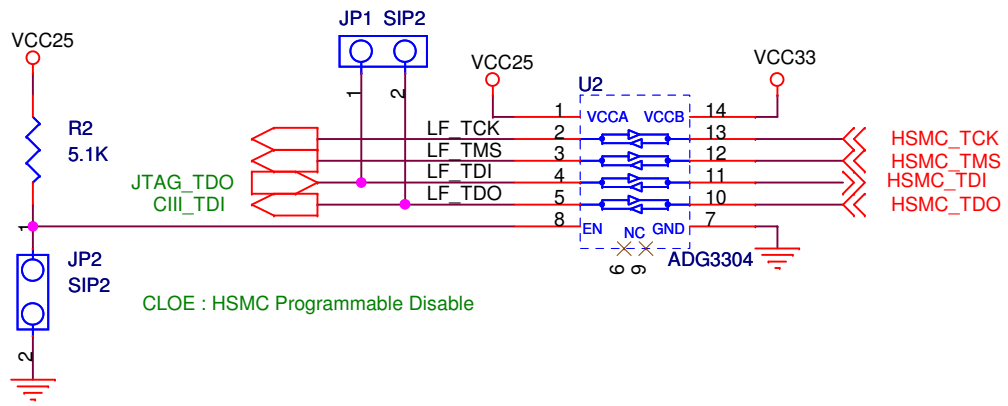
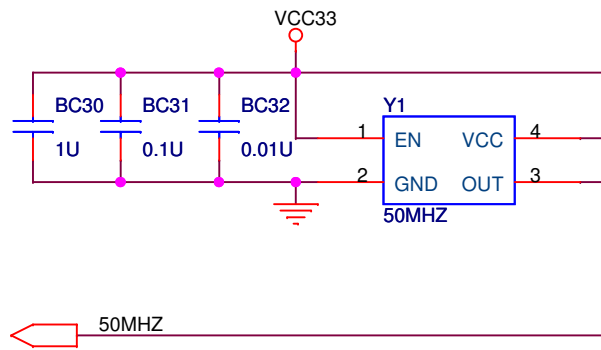
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	EP2C35 BANK5 AND BANK 6(to HSMC, I/O Optional)	1.3
Date:	Wednesday, February 03, 2010	Sheet 6 of 17



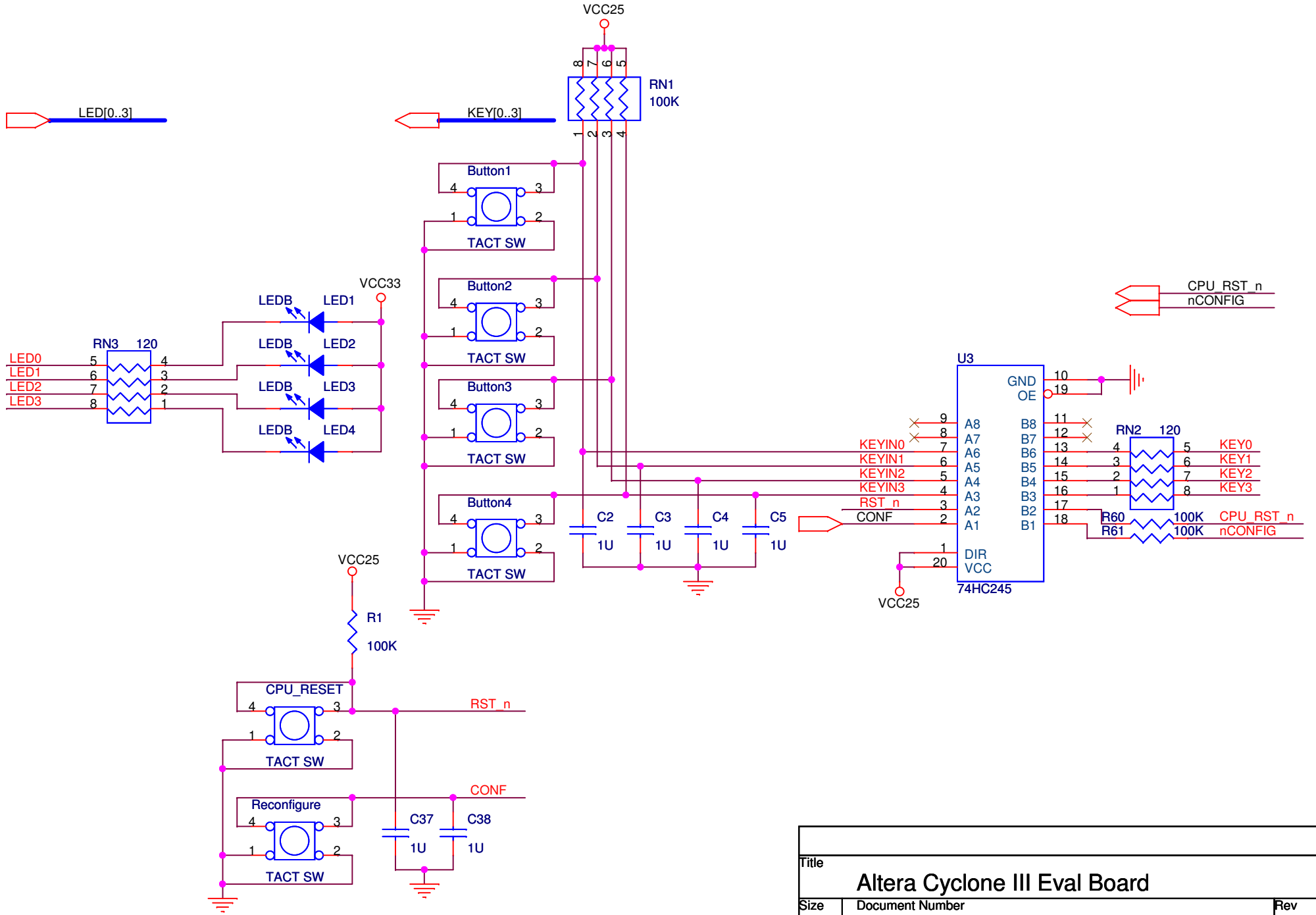
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	EP2C35 BANK7 AND BANK 8	1.3
Date:	Wednesday, February 03, 2010	Sheet 7 of 17



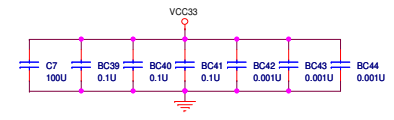
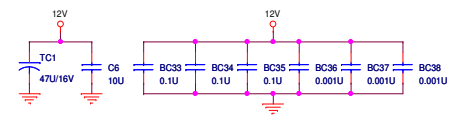
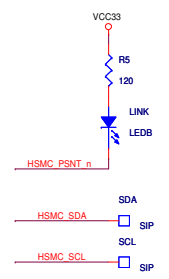
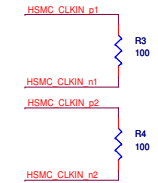
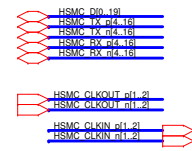
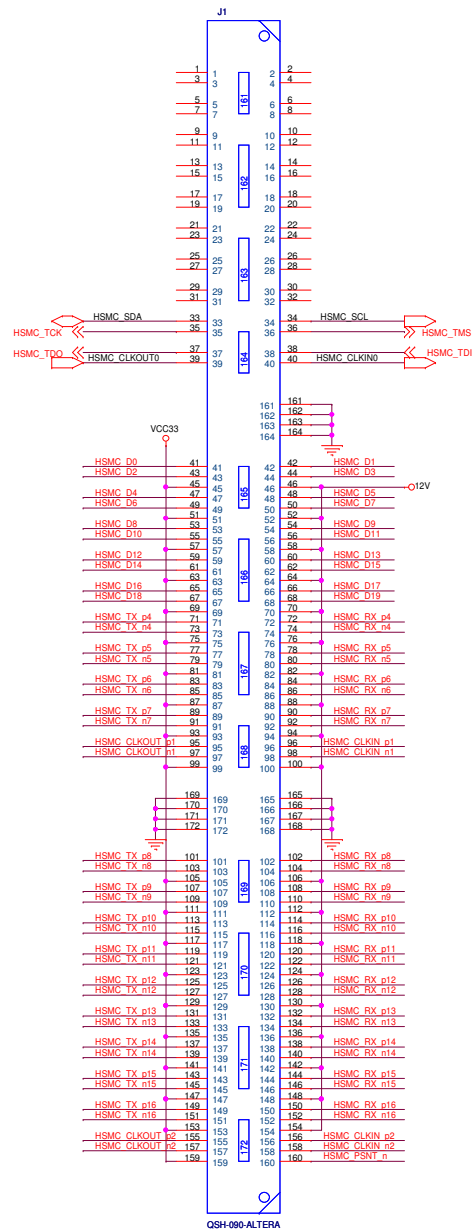
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	EP2C35 POWER AND CONFIG	1.3
Date:	Wednesday, February 03, 2010	Sheet 8 of 17

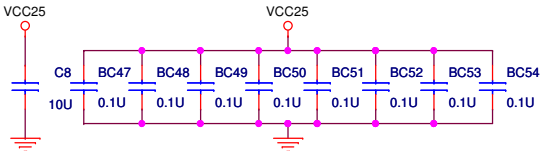
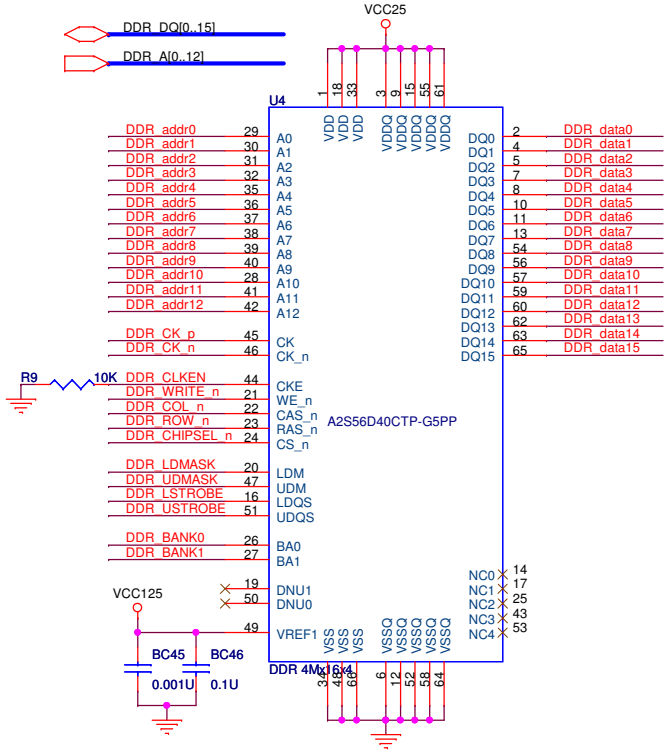
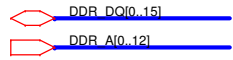


Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
A	CLOCK and Level Shift	1.3
Date:	Wednesday, February 03, 2010	Sheet 9 of 17



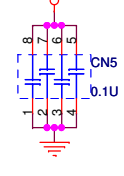
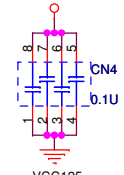
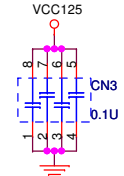
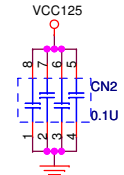
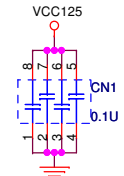
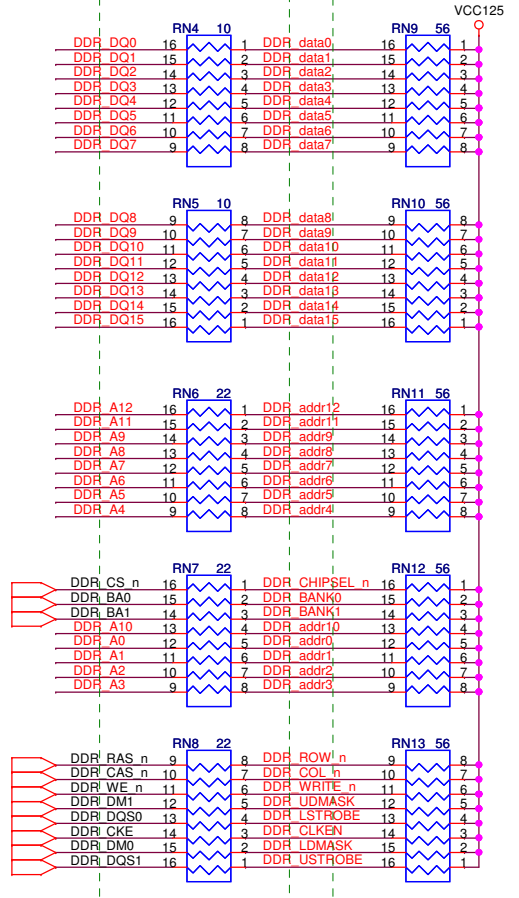
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
A	LED and TACT SW	1.3
Date:	Wednesday, February 03, 2010	Sheet 10 of 17



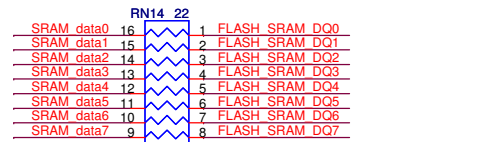
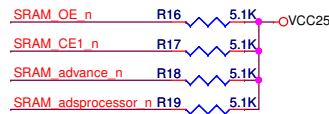
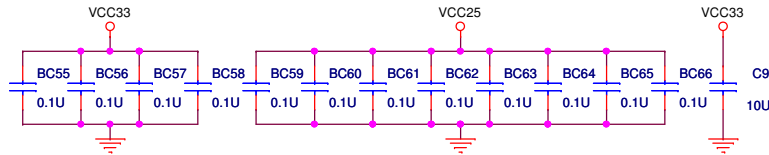
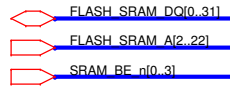


Place these resistors as close to the PLD U2 as possible

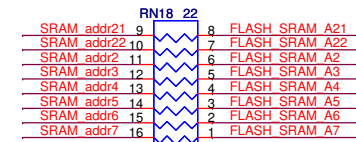
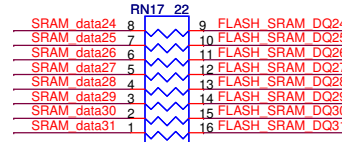
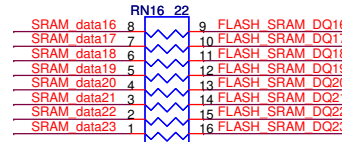
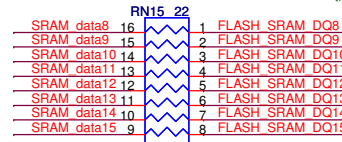
Place the pull up resistors just past U2 so that each trace tags the pin that it is routed to and then goes through the resistor to VTT_DDR



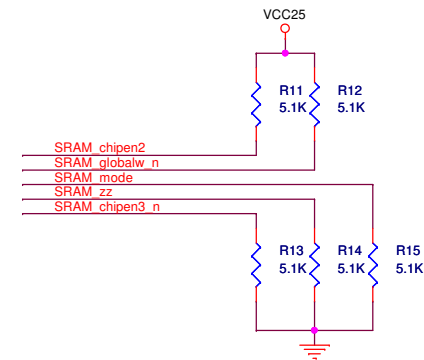
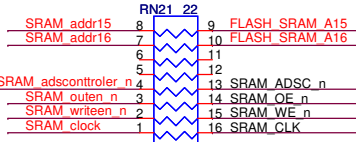
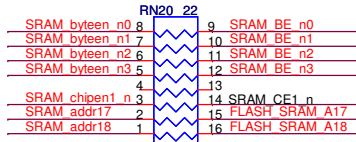
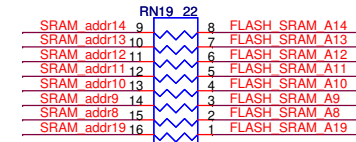
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	DDR SDRAM	1.3
Date:	Wednesday, February 03, 2010	Sheet 12 of 17



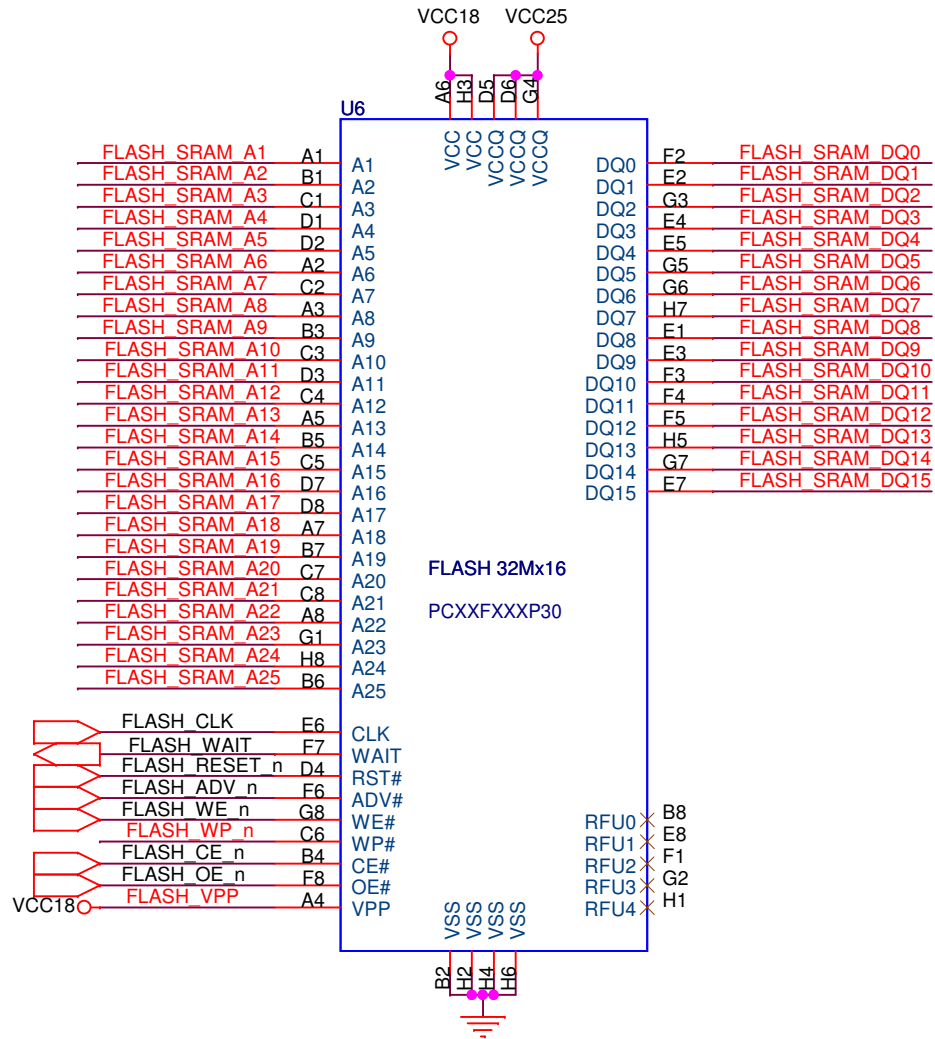
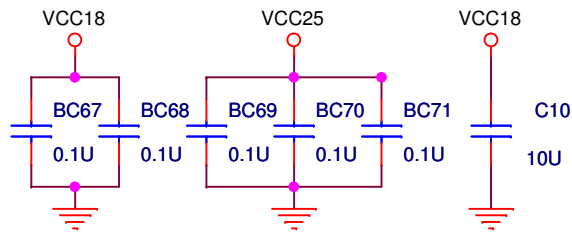
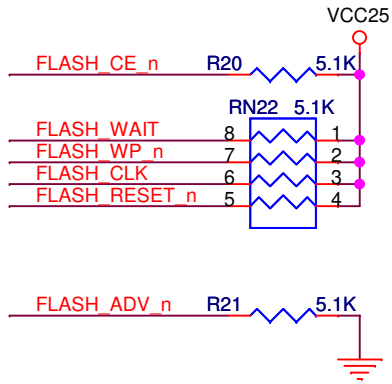
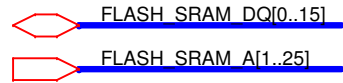
Place these terminations in the middle of the line



Place these terminations in the middle of the line



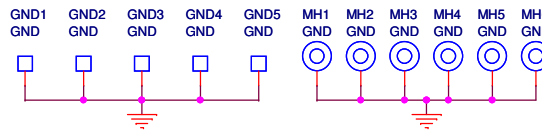
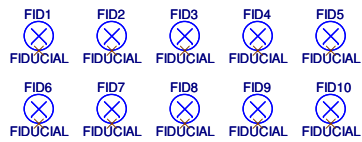
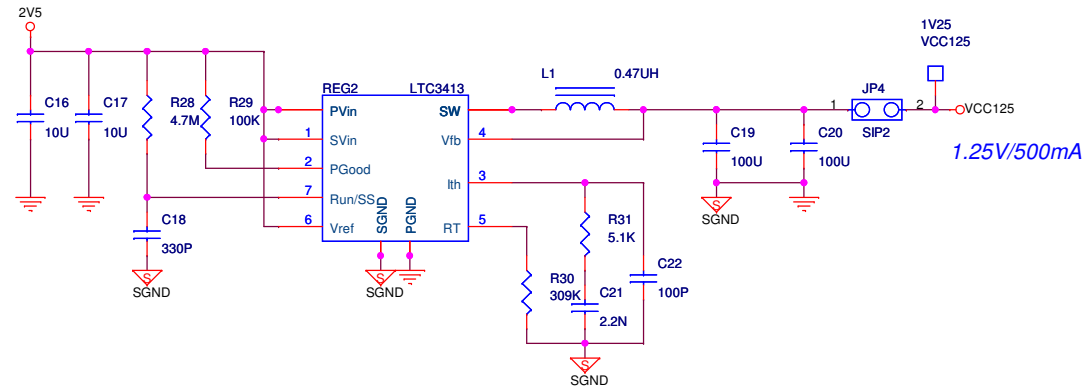
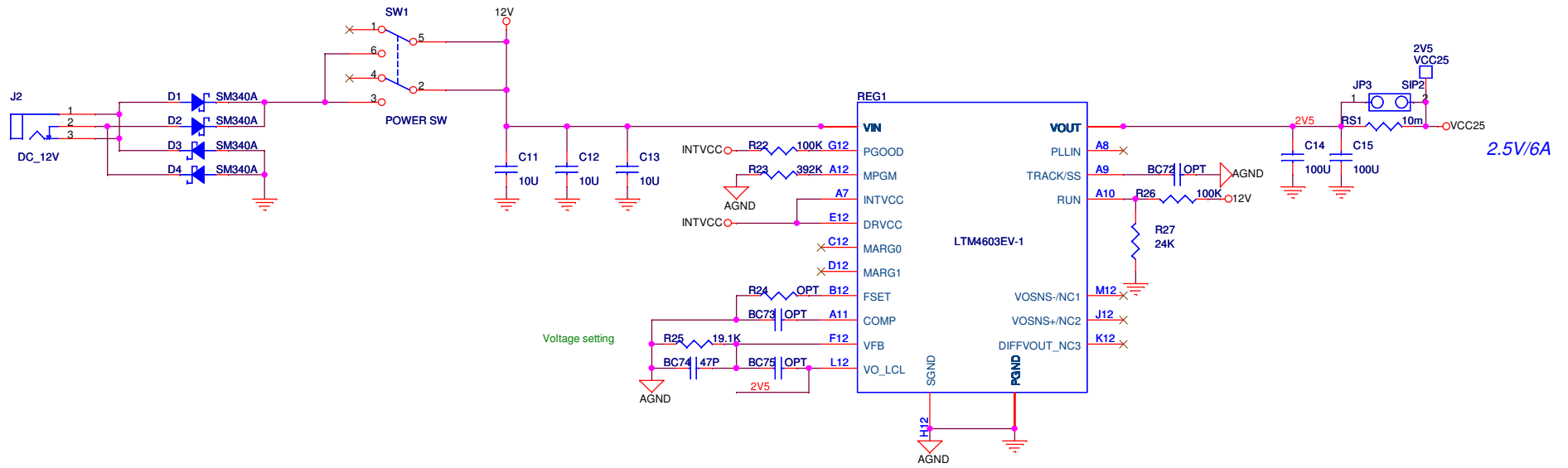
Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	SSRAM 512Kx36bit	1.3
Date:	Wednesday, February 03, 2010	Sheet 13 of 17



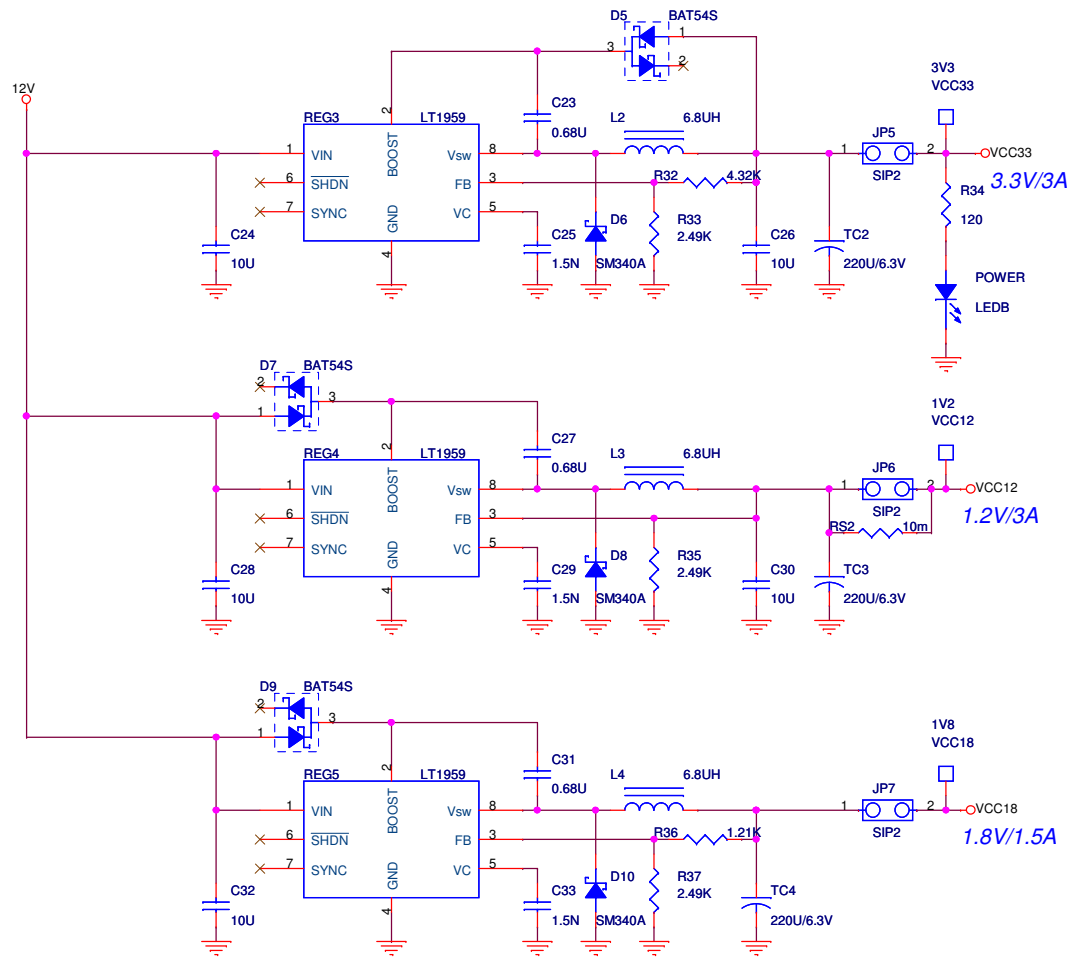
Notes :

- (16-Mbytes) 8M X 16 = FLASH_SRAM_A[23:1] , PC28F128P30B85 (default mounted)
- (32-Mbytes) 16M X 16 = FLASH_SRAM_A[24:1] , PC28F256P30B85
- (64-Mbytes) 32M X 16 = FLASH_SRAM_A[25:1] , PC28F512P30BF

Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
A	Intel FLASH 32Mx16bit	1.3
Date:	Tuesday, March 09, 2010	Sheet 14 of 17

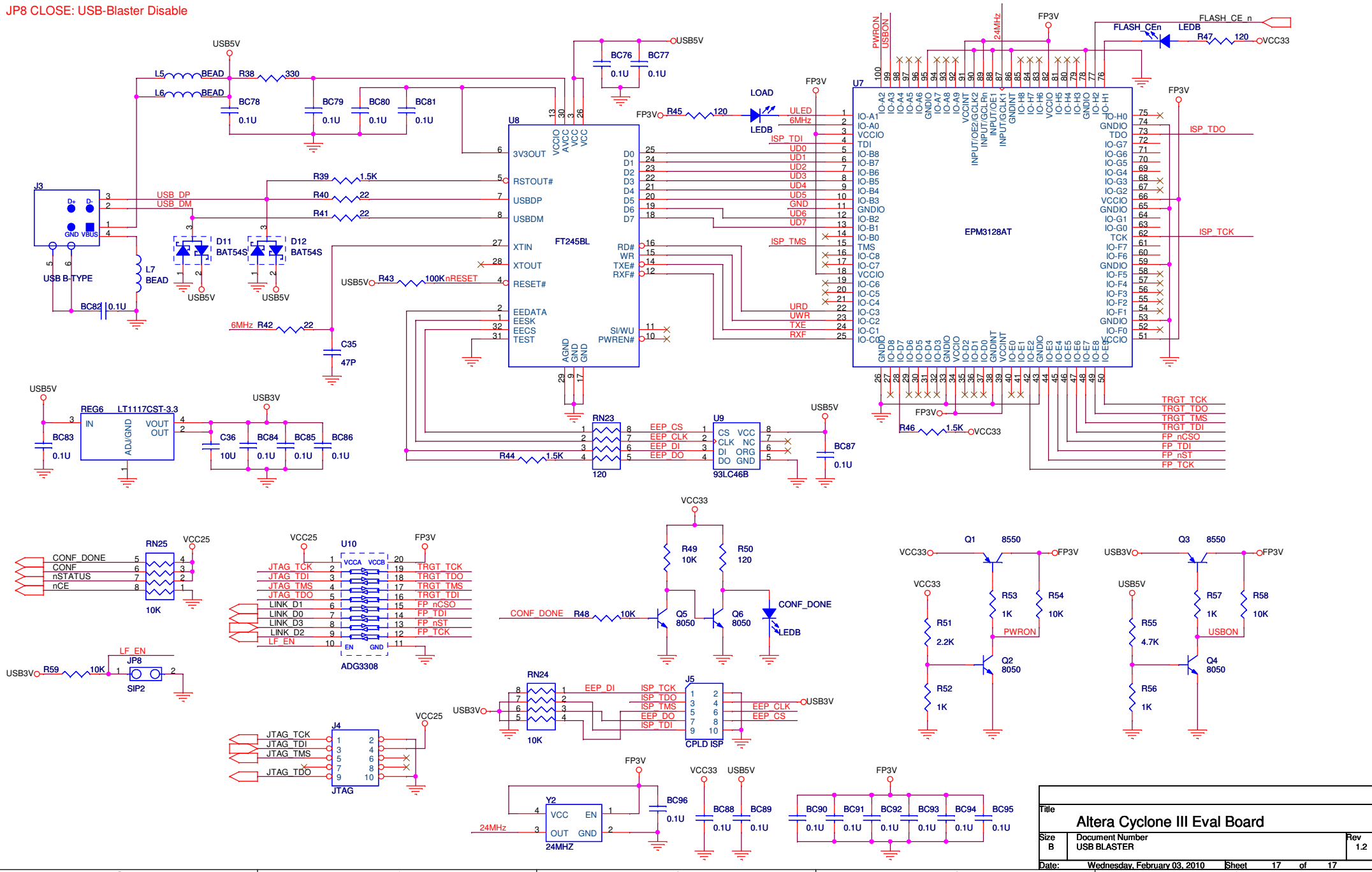


Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	LTM4603EV-1 : 2.5V/6A, LTC3413EFE:1.25V +/-0.5A	1.3
Date:	Wednesday, February 03, 2010	Sheet 15 of 17



Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	LT1959 : 3.3V/3A, 1.2V/3A, 1.8V/1.5A	1.3
Date:	Wednesday, February 03, 2010	Sheet 16 of 17

JP8 CLOSE: USB-Blaster Disable



Title		
Altera Cyclone III Eval Board		
Size	Document Number	Rev
B	USB BLASTER	1.2
Date:	Wednesday, February 03, 2010	Sheet 17 of 17