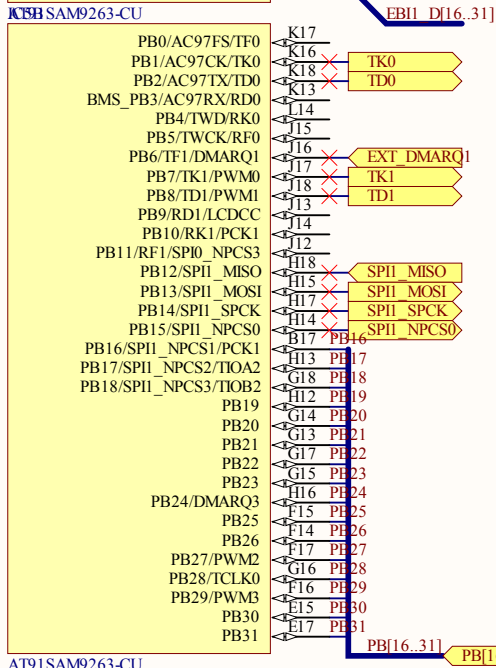
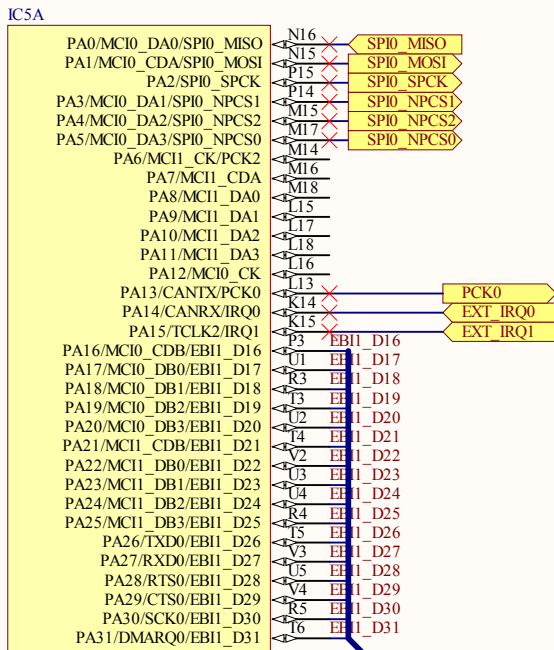
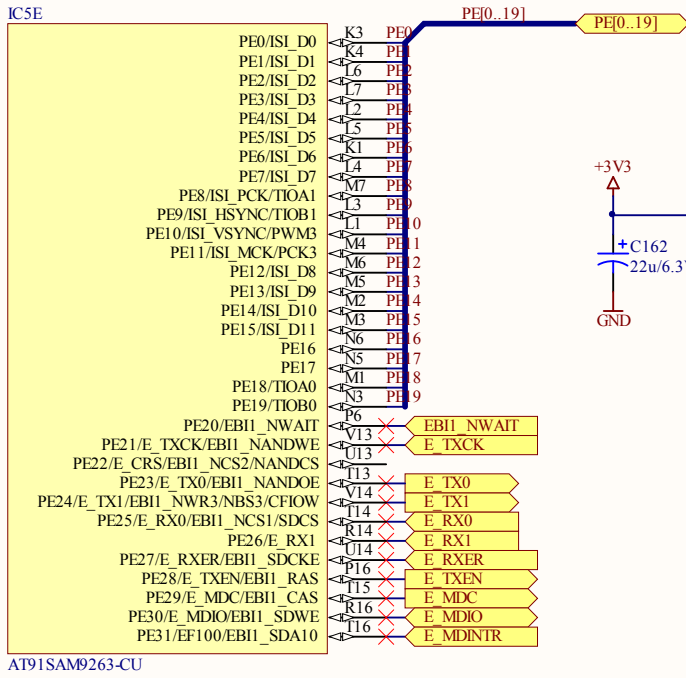
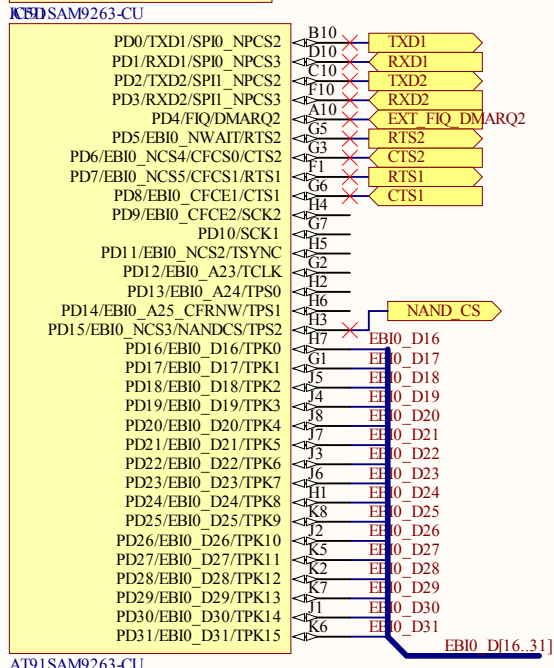
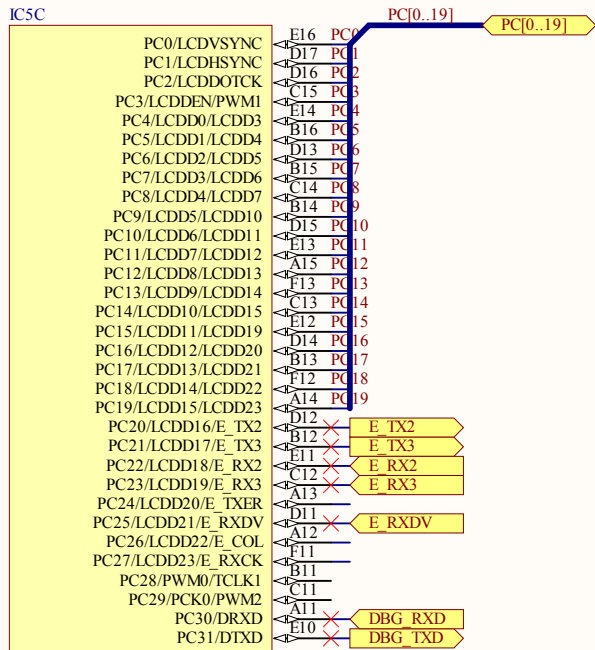


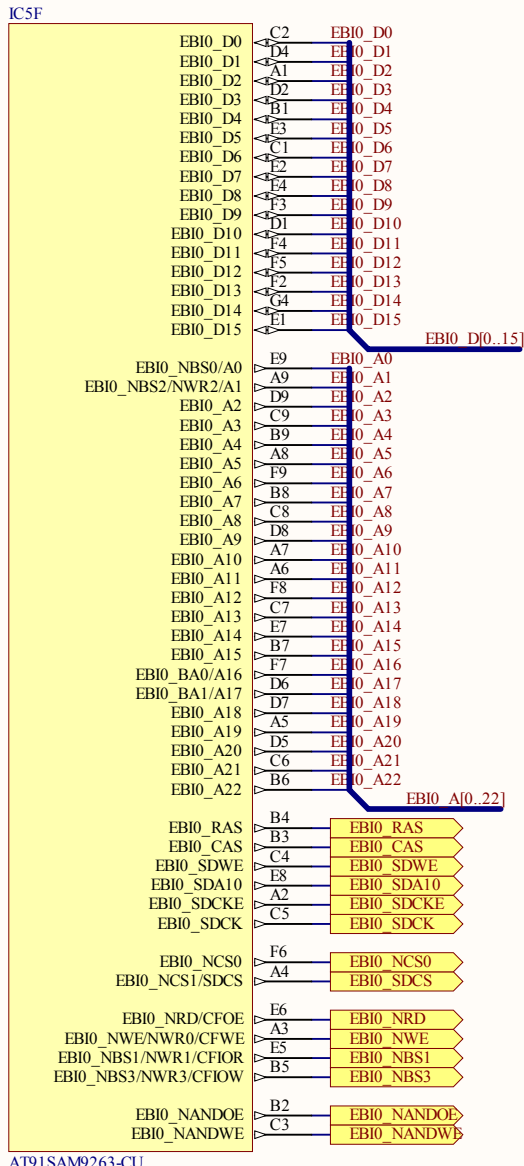
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White Rabbit Switch MCH - mainboard Clockfanout		
Size	Number	Revision
A		
Date:	2/27/2009	Sheet of
File:	E:\WhiteRabbit-svn\..MB_clocking.SchDoc	Drawn By:



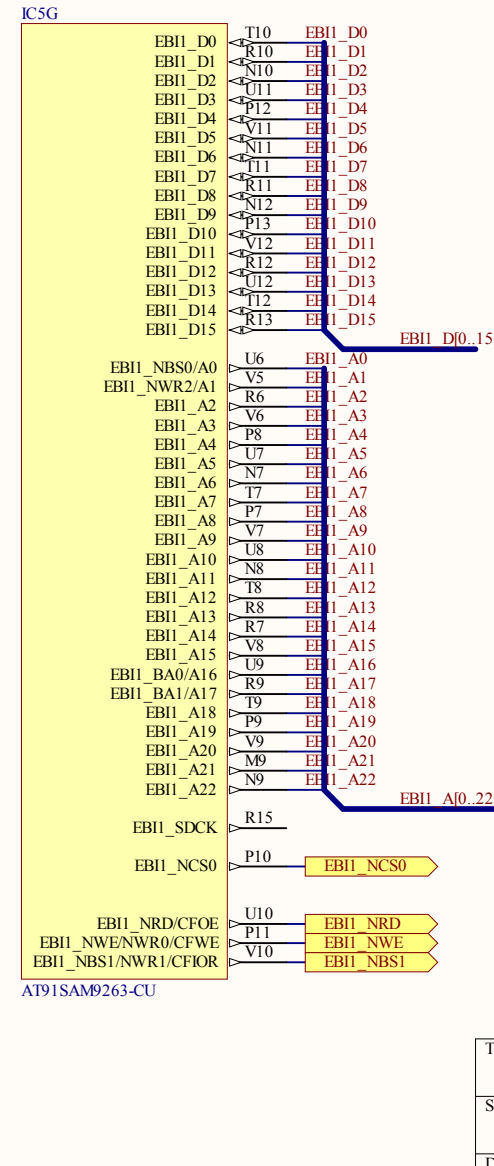
AT91SAM9263-CU



AT91SAM9263-CU

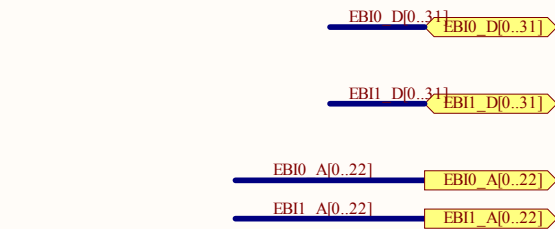


AT91SAM9263-CU

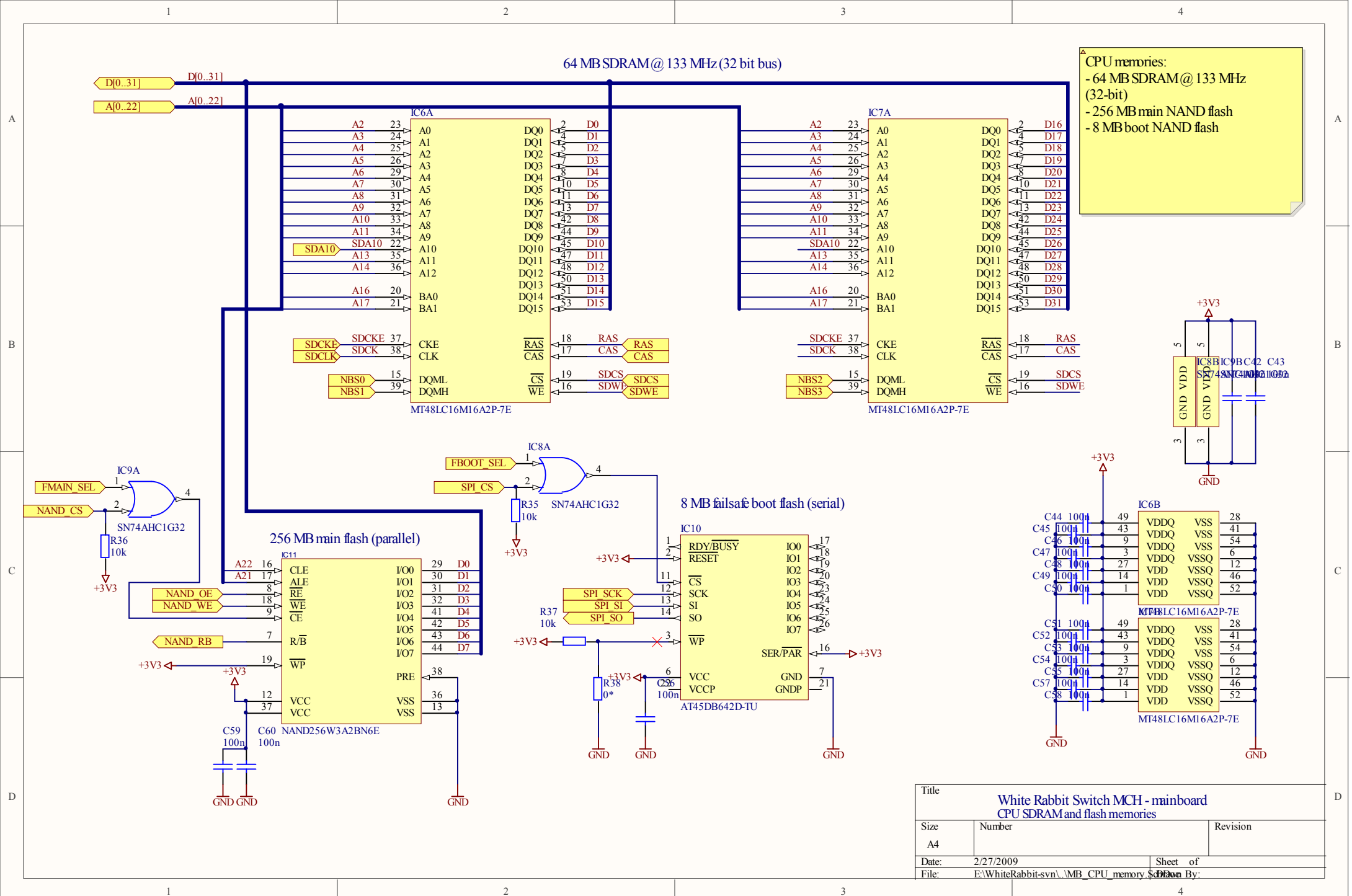


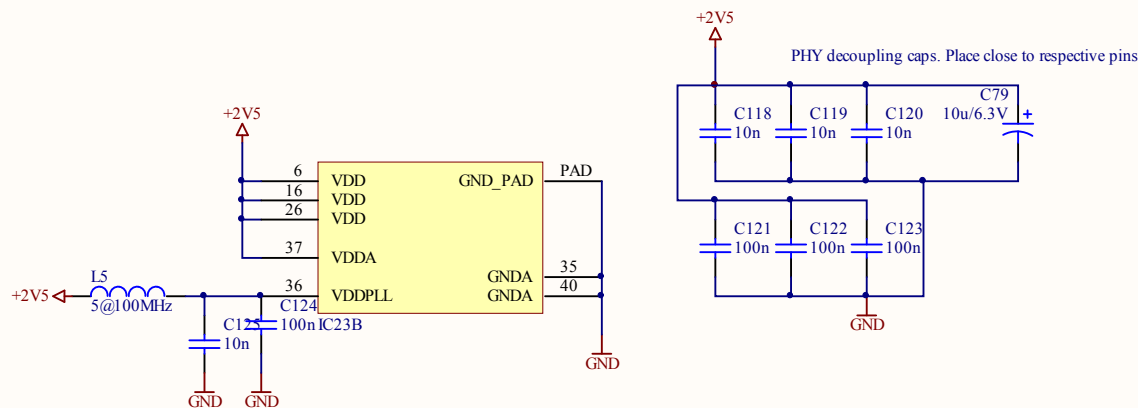
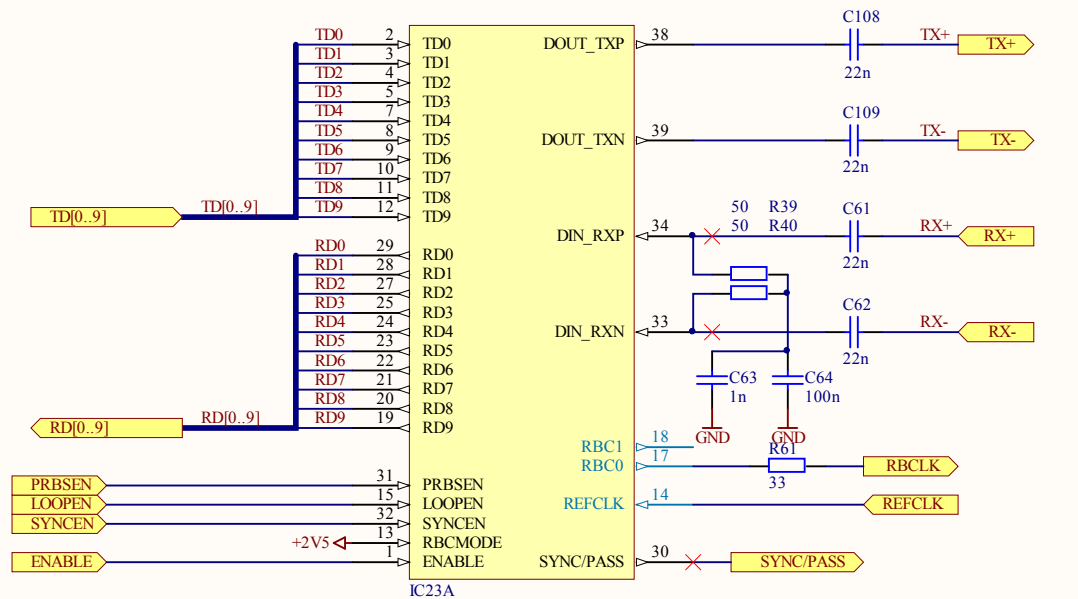
AT91SAM9263-CU

AT91SAM9263 ARM9 management CPU.
Schematic contains all I/O ports and external busses, power and debug/JTAG stuff

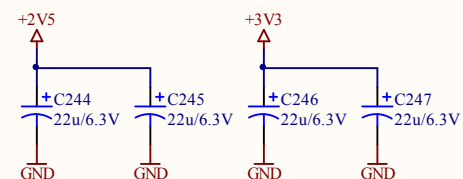
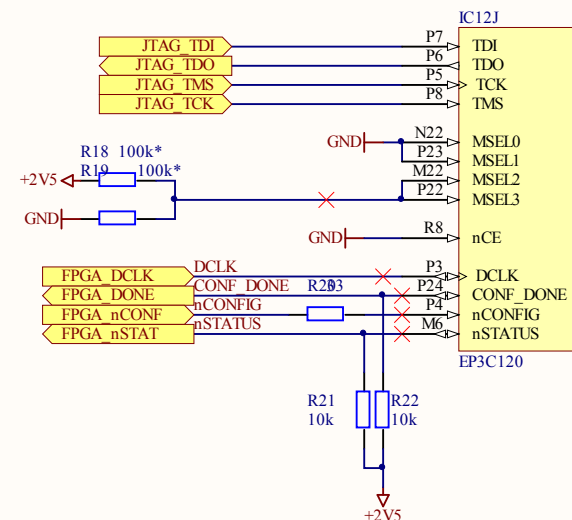
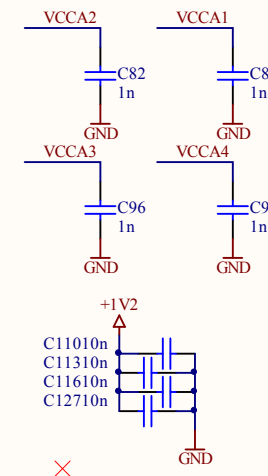
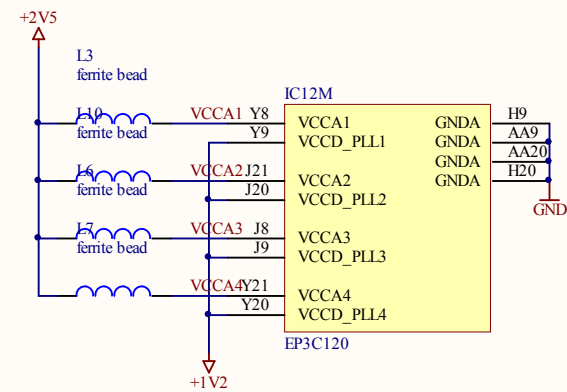
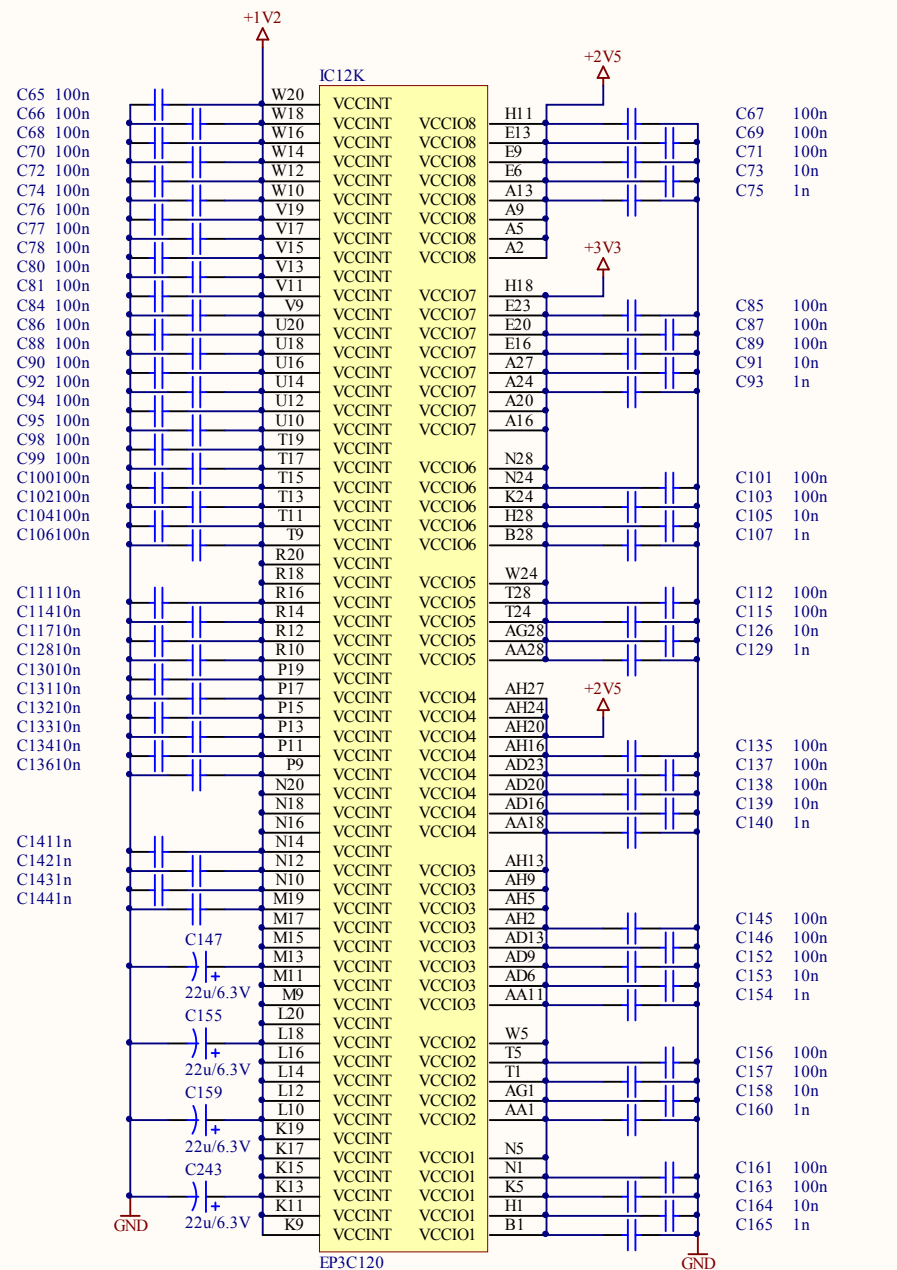
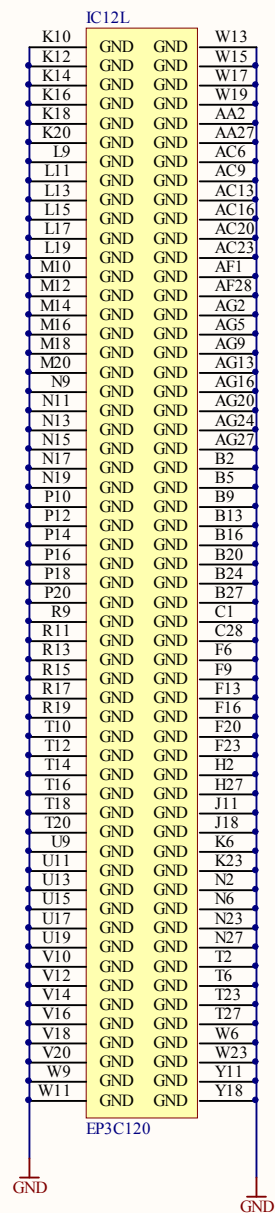


Title		
White Rabbit Switch MCH - mainboard CPU I/O		
Size	Number	Revision
A3		
Date:	2/27/2009	Sheet of
File:	E:\WhiteRabbit-svn\..MB_CPU_io_ports	Drawn By:





Title		
White Rabbit Switch MCH - minboard Backplane downlinkPHY		
Size	Number	Revision
A4		
Date:	2/27/2009	Sheet of
File:	E:\WhiteRabbit-svn\MB_downlink_phy\ShDocBy:	



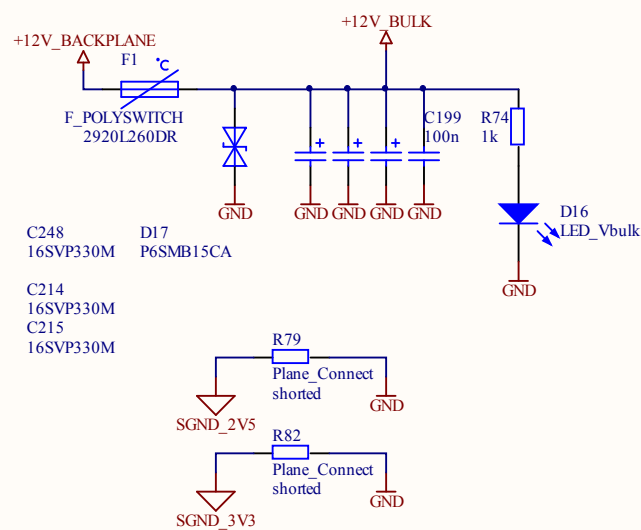
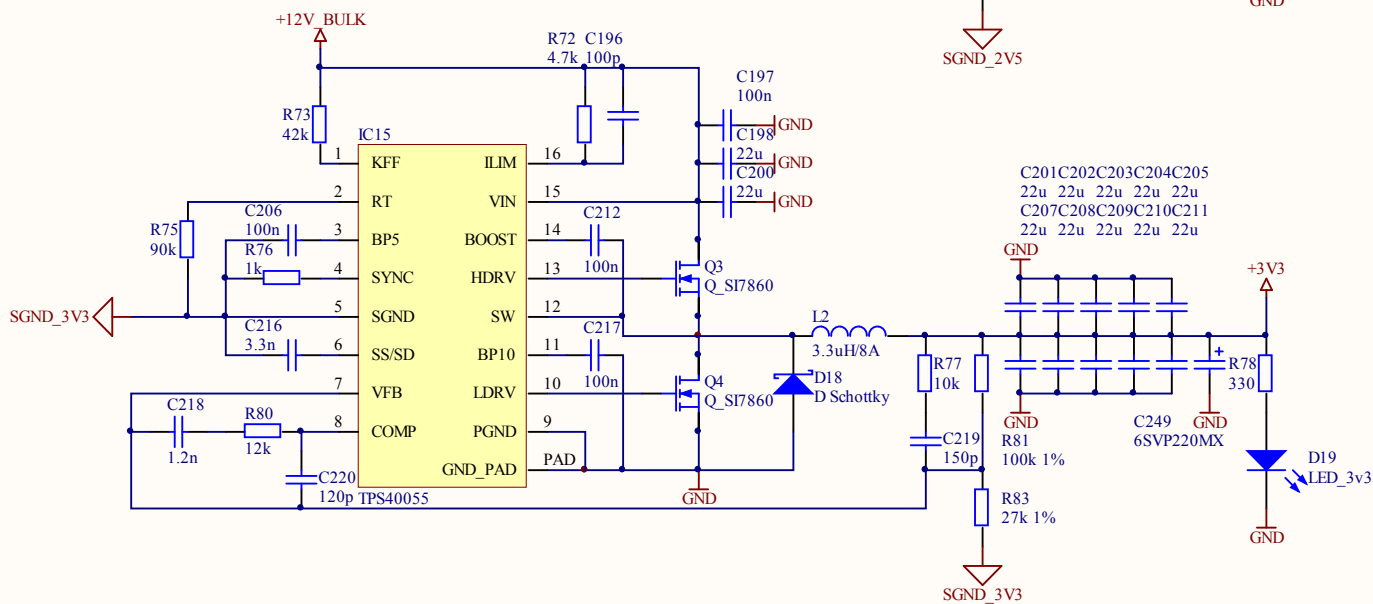
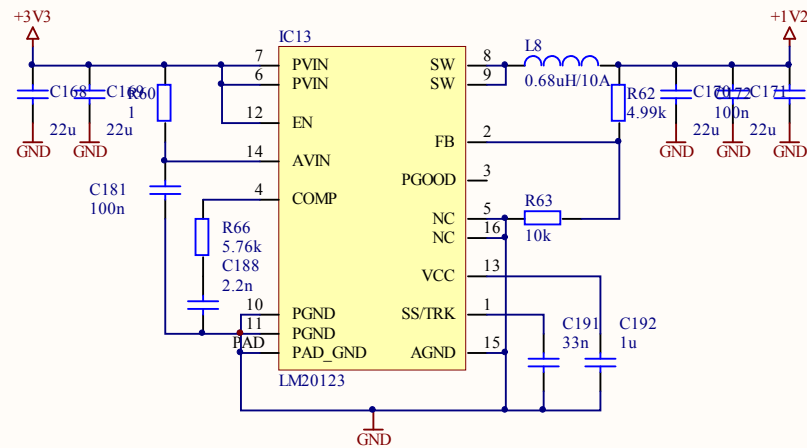
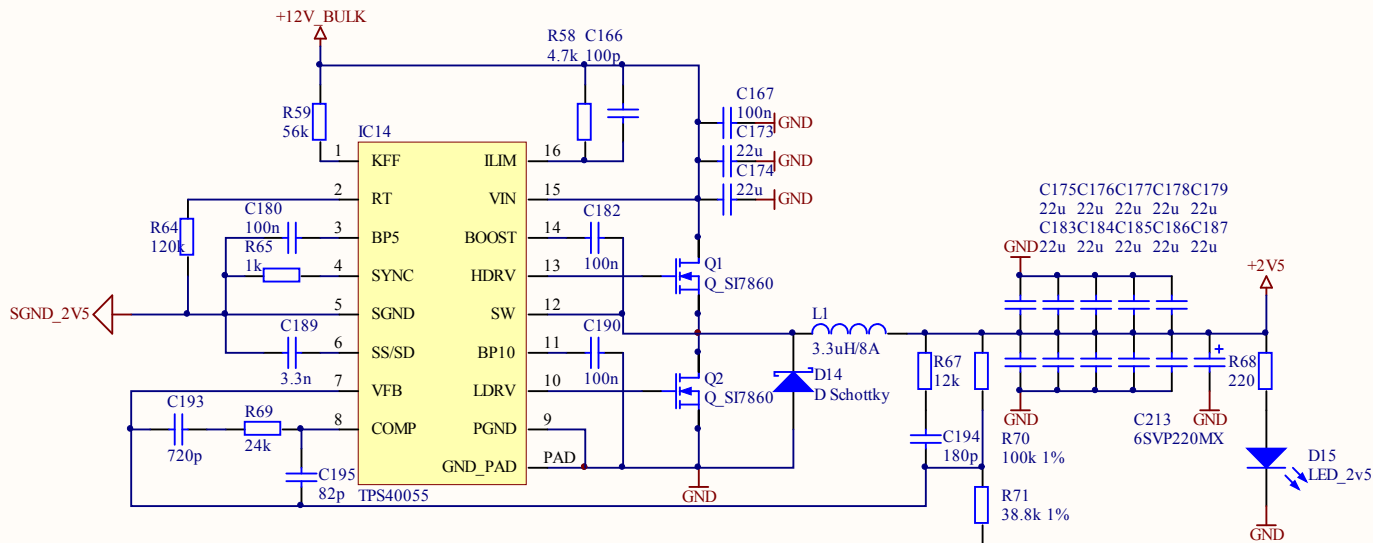
△ Main FPGA power and configuration.

Decoupling caps for VDDINT:
4 x 22u tantalum
24 x 100 n / 0402
10 x 10n / 0402
4x 1n / 0402

Title			White Rabbit Switch MCH - mainboard BIGGGG FPGA power and configuration		
Size	Number			Revision	
A3					
Date:	2/27/2009			Sheet of	
File:	E:\WhiteRabbit-svn\1_MB_fpga_powerSch			Down By:	

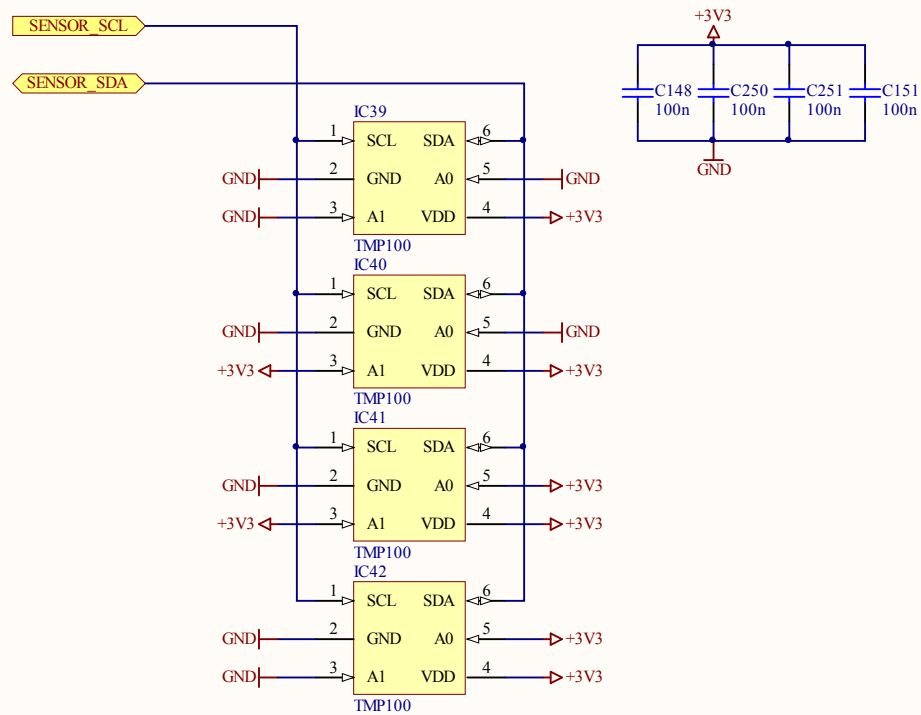
MCH Power supply module. Delivers:
- 3.3 V@4 A
- 2.5 V@4 A
- 1.2 V@3 A

Please note that supply is overrated a bit for optional extensions/modifications

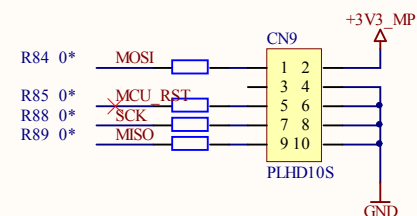
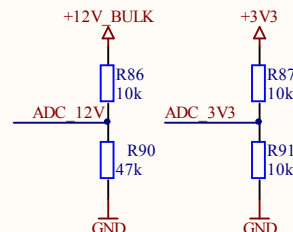
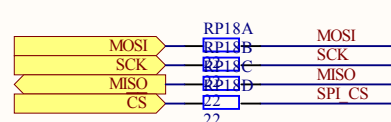


Title		
White Rabbit Switch MCH - mainboard		
Main power supply		
Size	Number	Revision
A3		
Date:	2/27/2009	Sheet of
File:	E:\WhiteRabbit-svn\MB_power_supply	Drawn By:

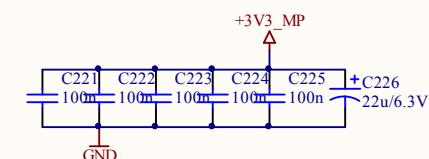
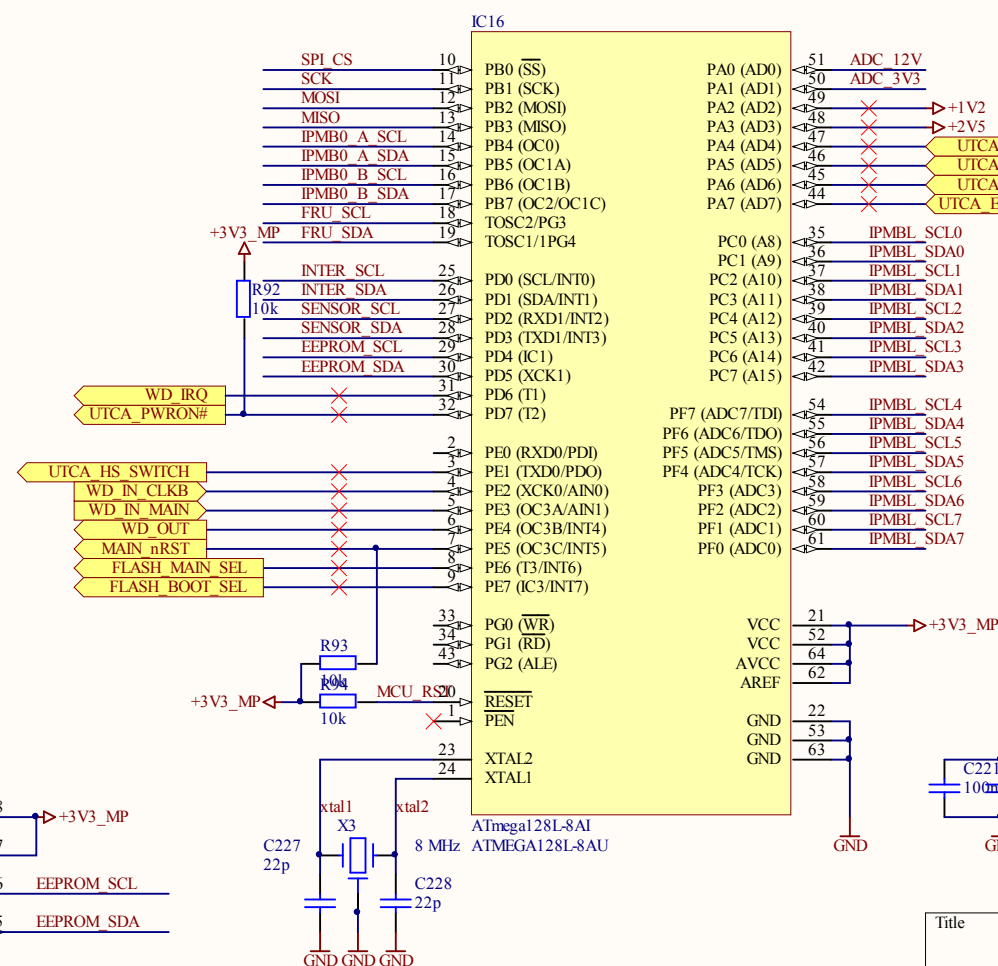
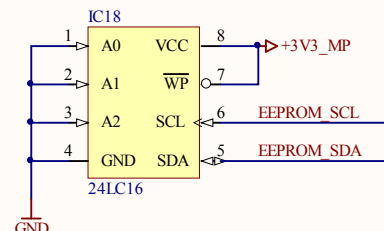
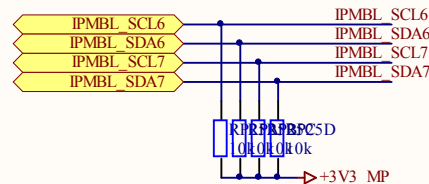
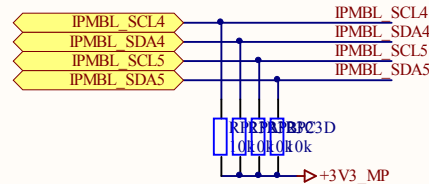
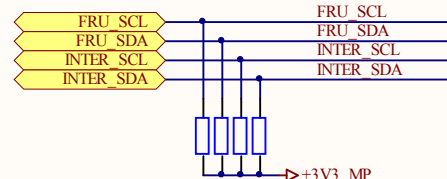
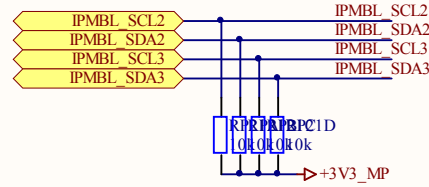
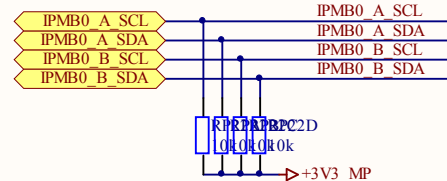
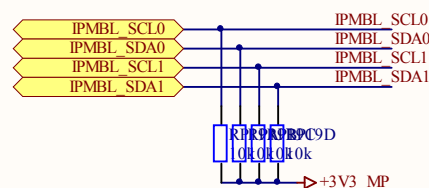
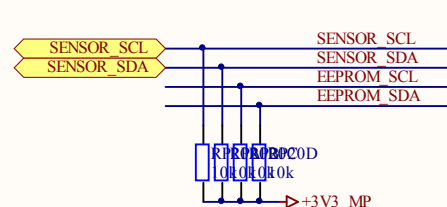
Four (4) I2C temperature sensors, placed in various spots on the MCH PCB1



Title		
White Rabbit Switch MCH - mainboard Temperature sensors		
Size	Number	Revision
A		
Date:	2/27/2009	Sheet of
File:	E:\WhiteRabbit-svn\..MB_sensors.SchDoc	Drawn By:



- △ MCH watchdog microcontroller:
 - takes care of safe boot process after reprogramming
 - monitors board temperature and supply voltages
 - implements multichannel I2C hub for IPMB bus access
 - takes care of uTCA board initialization
 - CAN'T BE PROGRAMMED EXTERNALLY!



Title			White Rabbit Switch MCH - mainboard Watchdog microcontroller		
Size	Number	Revision			
A3					
Date:	2/27/2009	Sheet of			
File:	E:\WhiteRabbit-svn\1_MB_watchdog_mcu\90400001.doc				
Printed By:					

