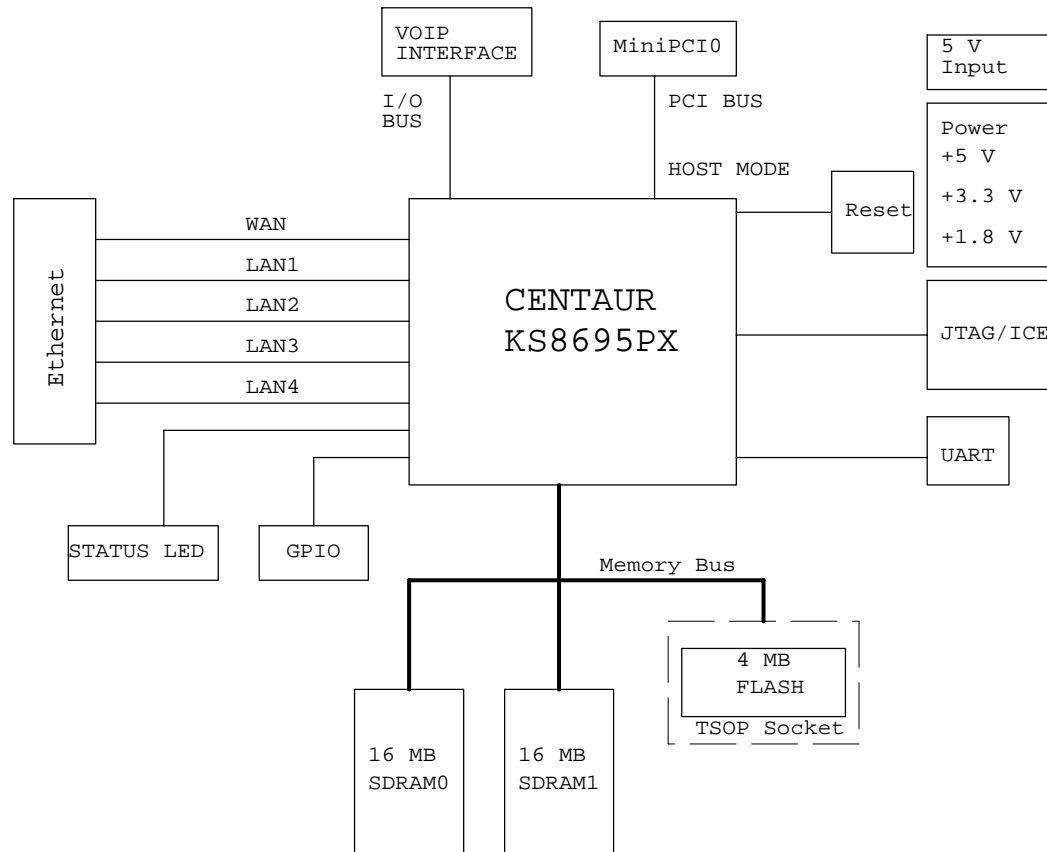


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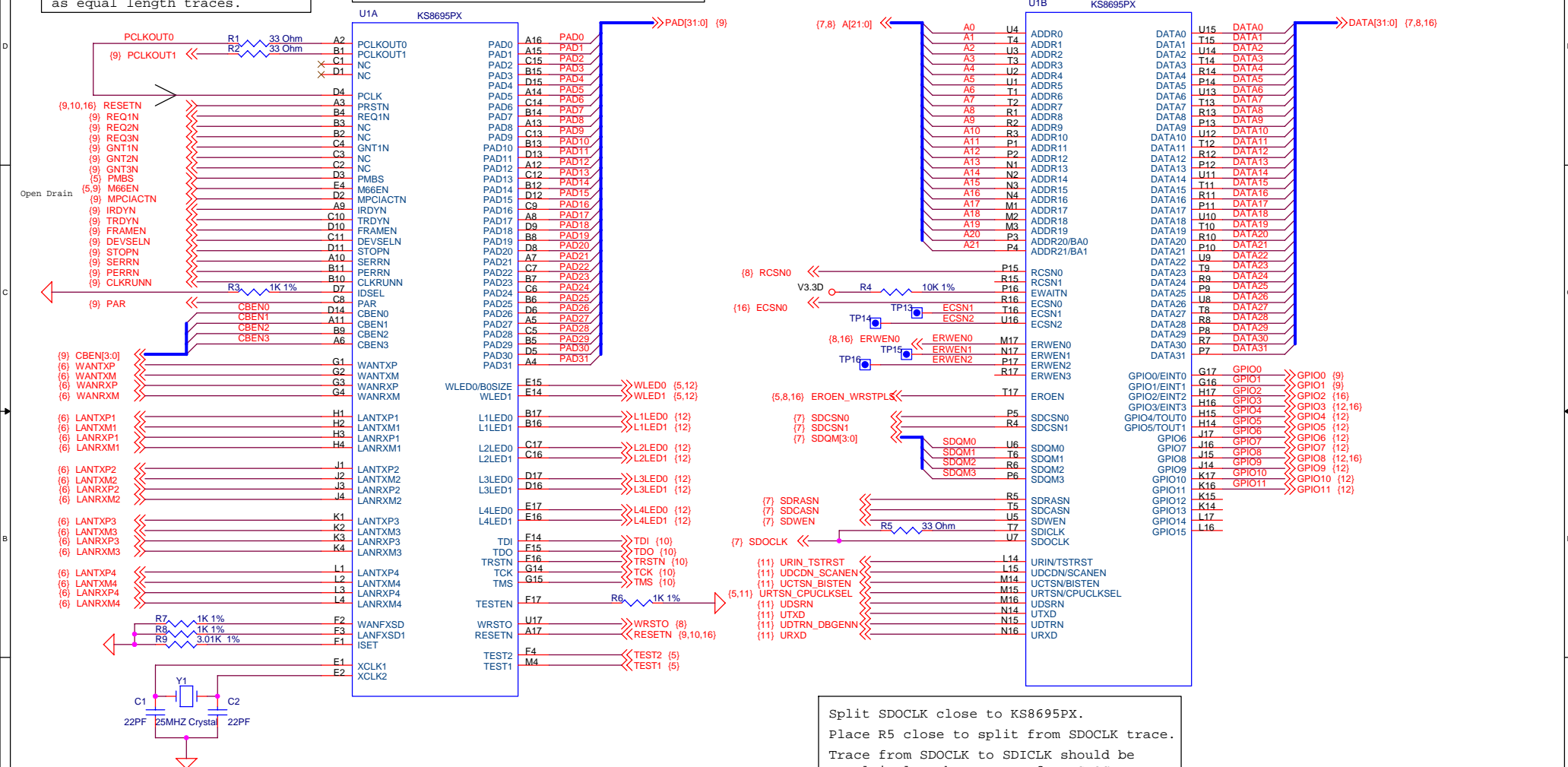
	REVISION HISTORY	
DATE:	DESCRIPTION	REVISION
	Initial Release	1.0

KS8695PX VOIP Board Block Diagram

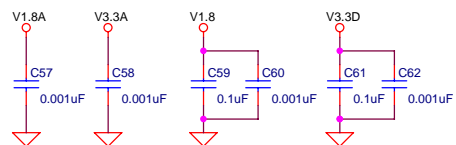
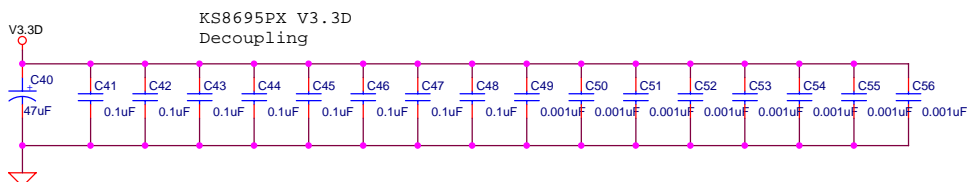
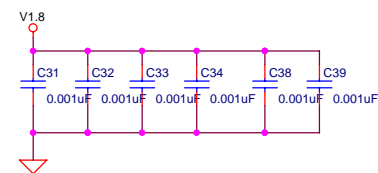
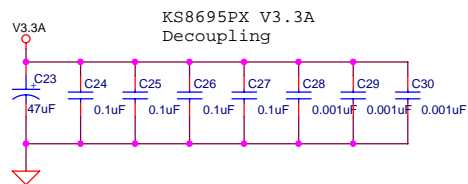
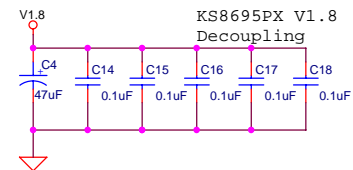
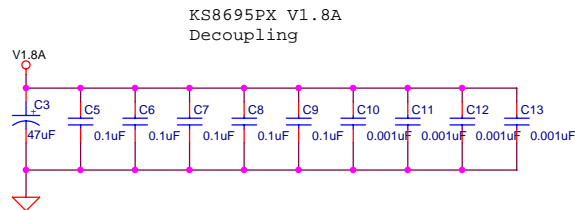
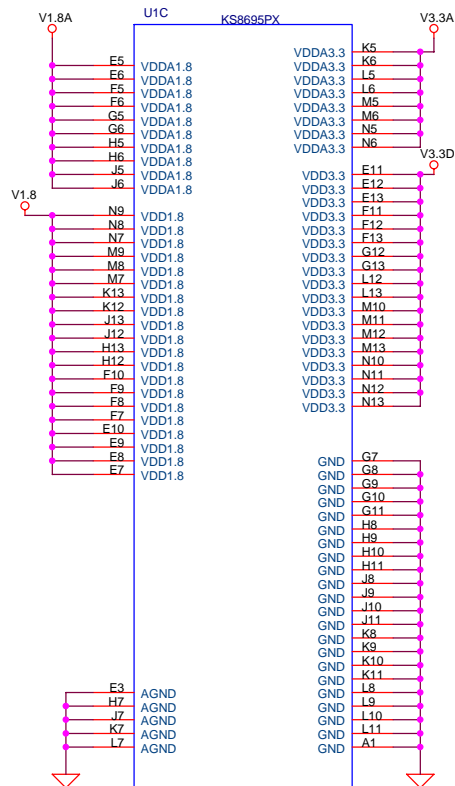


Route PCLKOUT0 and PCLKOUT1 as equal length traces.

Pins C1, D1, B2, B3, C2, C3 are no connects on the KS8695PX. Pins B2, B3, C2, C3 are connected to traces because the same board is used for the KS8695P.



Split SDOCLK close to KS8695PX.
Place R5 close to split from SDOCLK trace.
Trace from SDOCLK to SDICLK should be
equal in length to trace from SDOCLK
to SDRAM clock input.



Use 0603 package for these capacitors

Place directly under chip on backside of board.

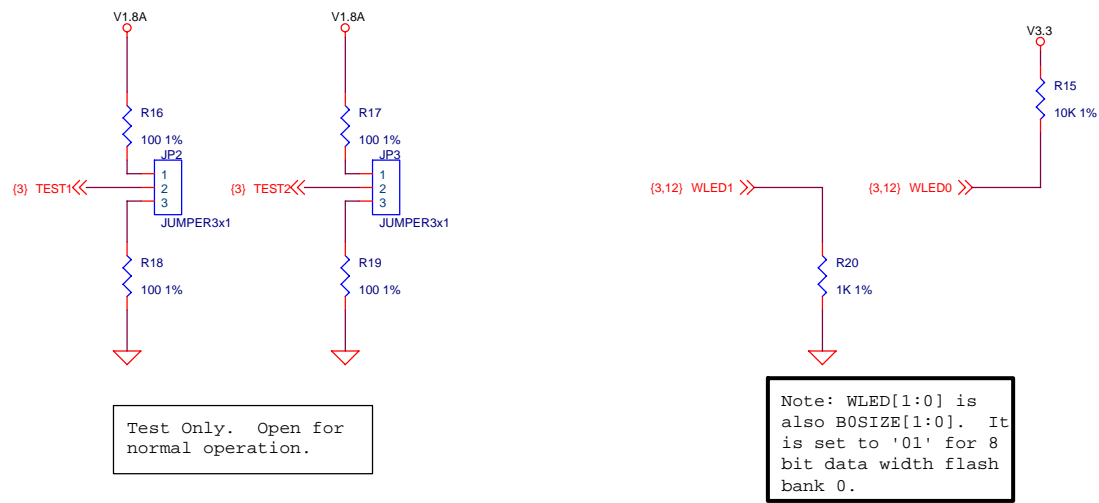
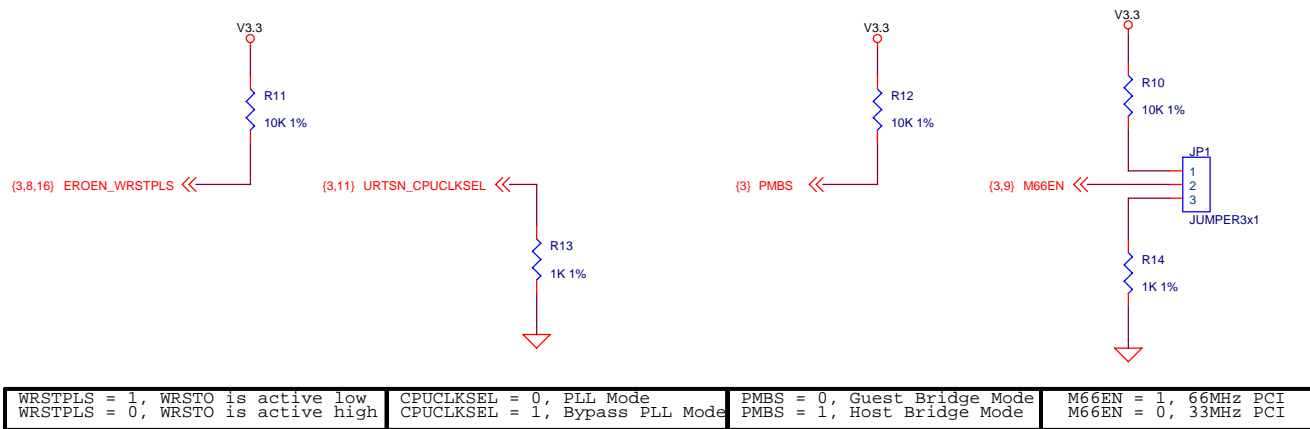
Place caps close to power pins as possible.

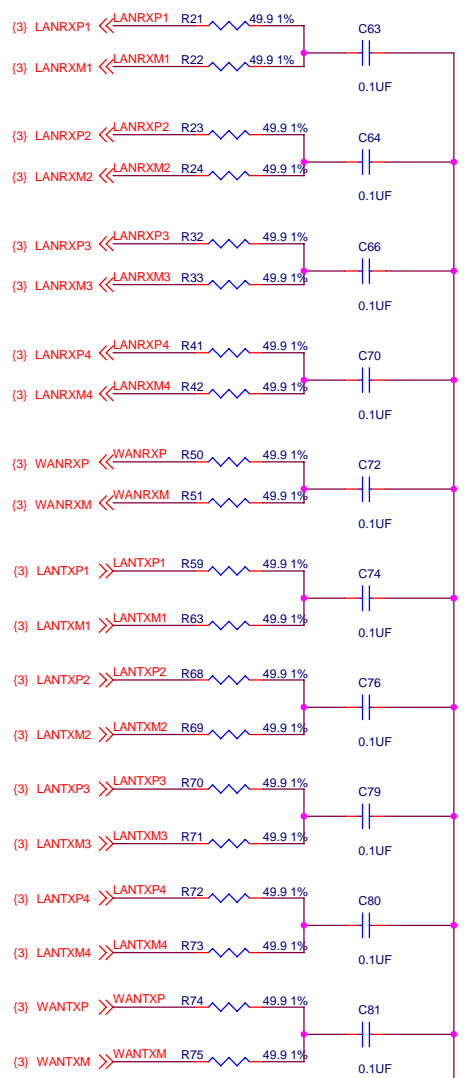
Place 47 uF caps close to the group of respective voltage pins.

Use one 0.1 uF and 0.001uF cap per two power pins.

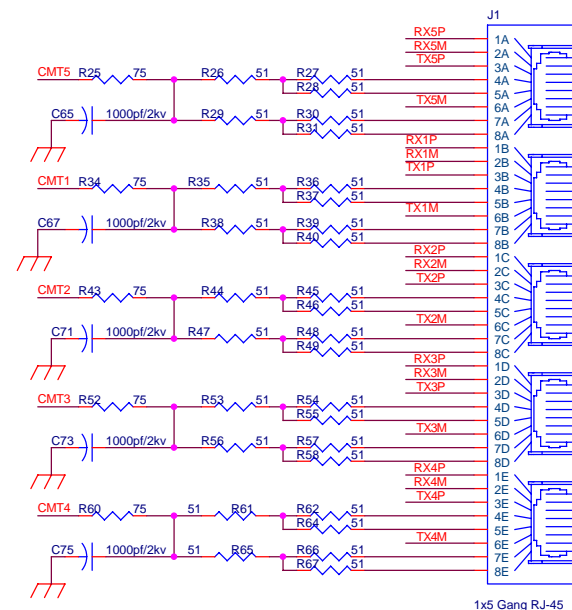
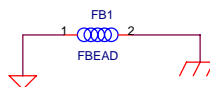
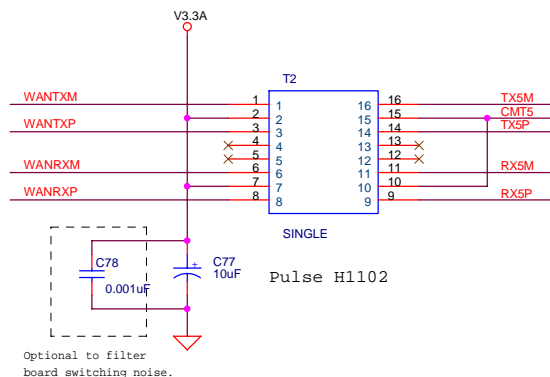
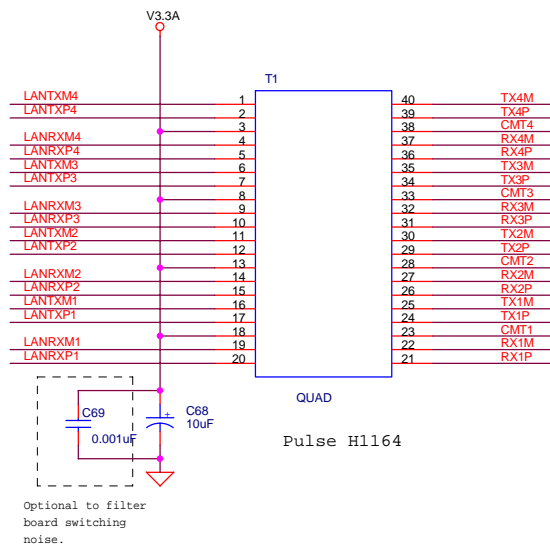
Analog and Digital Ground are separated in the chip and on the substrate. A single ground is used on the board for EMI purposes.

MICREL SEMICONDUCTOR		
Title KS8695PX VOIP BOARD		
Size B	Document Number KS8695PX Power	Rev 1.0
Date: Monday, July 12, 2004	Sheet 4	of 16



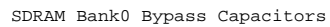
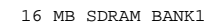


Standard Ethernet 100 Ohm
Split termination.

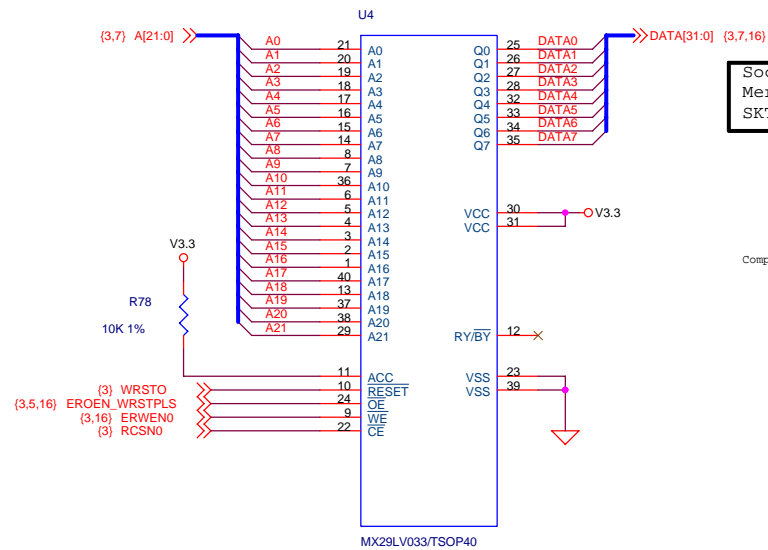


Bob Smith Terminations

MICREL SEMICONDUCTOR			
Title KS8695PX VOIP BOARD			
Size B	Document Number Ethernet		Rev 1.0
Date: Monday, July 12, 2004	Sheet 6 of 16		

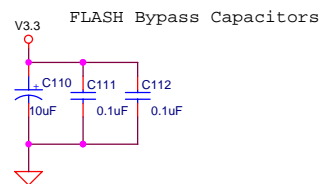


MICREL SEMICONDUCTOR			
Title KS8695PX VOIP BOARD			
Size B	Document Number SDRAM		Rev 1.0
Date:	Monday, July 12, 2004	Sheet	7 of 16



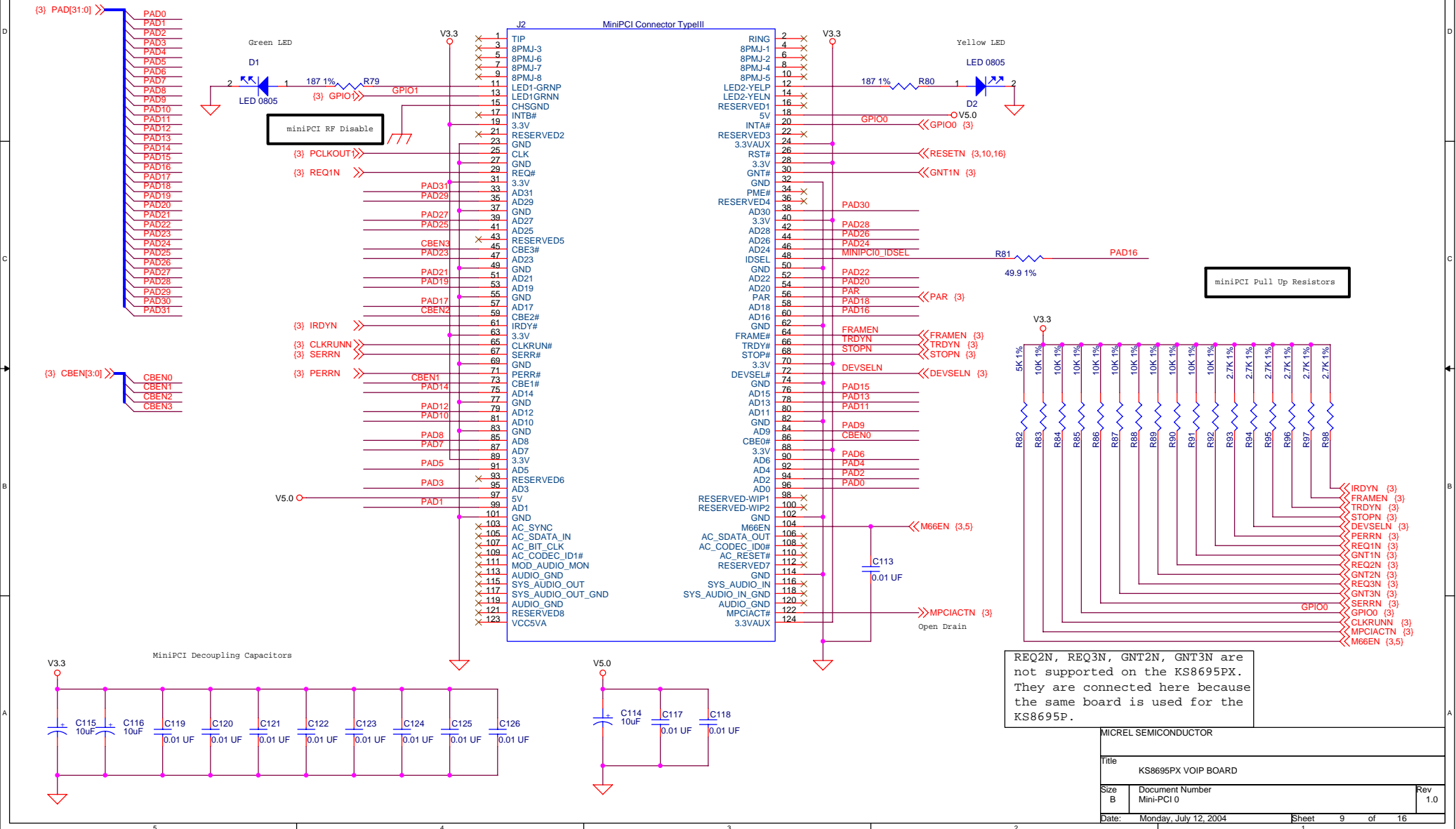
Socketed FLASH in
Meritec
SKT-01-1098

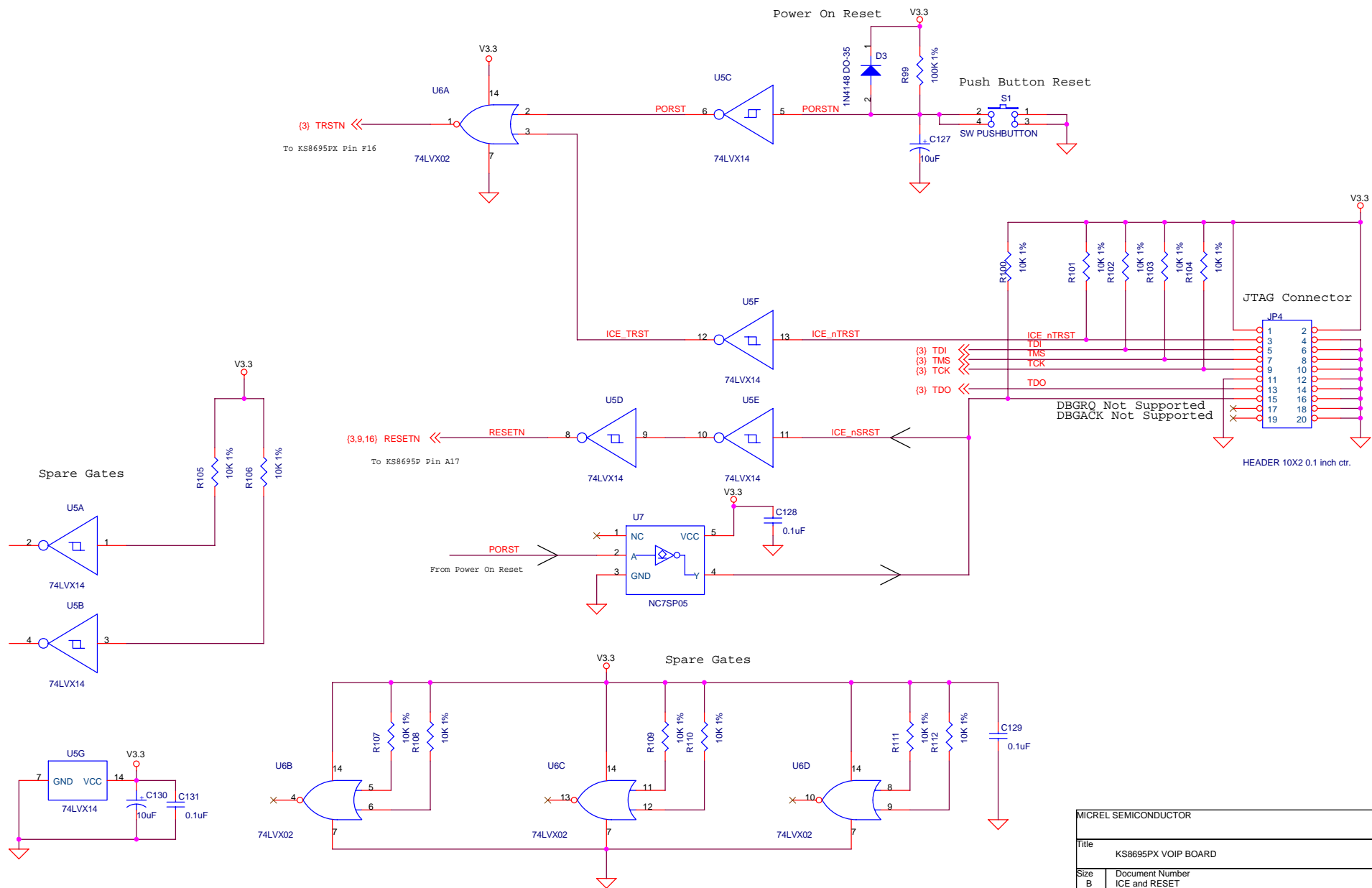
Compatibility: 4MB Am29LV033C, MX29LV033
2MB Am29LV017D



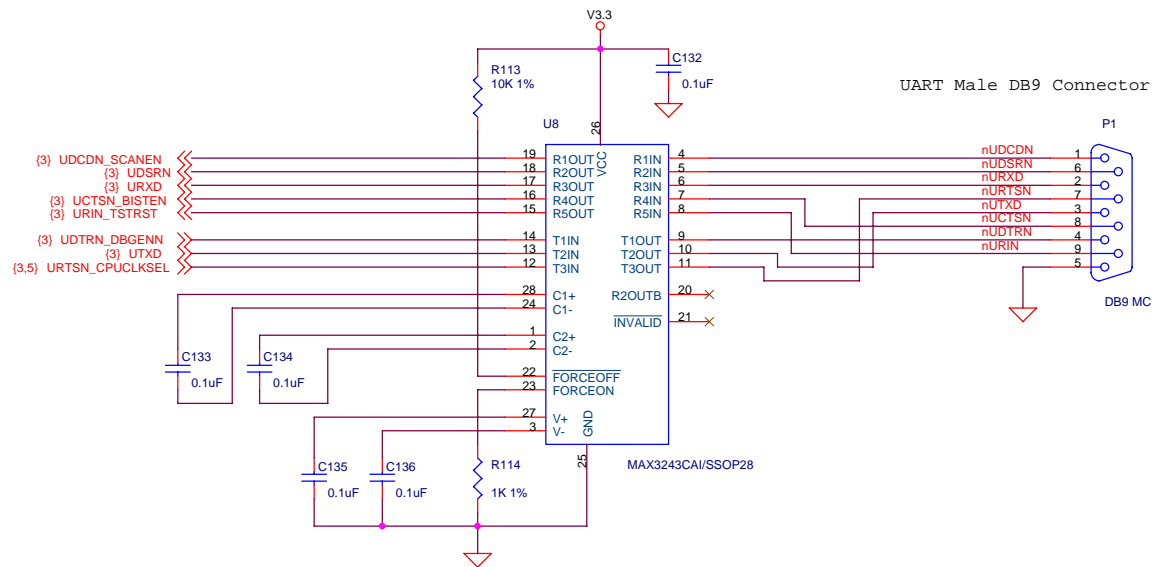
MICREL SEMICONDUCTOR		
Title KS8695PX VOIP BOARD		
Size B	Document Number Flash	Rev 1.0
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Connected 5V pins on mini PCI connector to 5V input to board. No Filter.





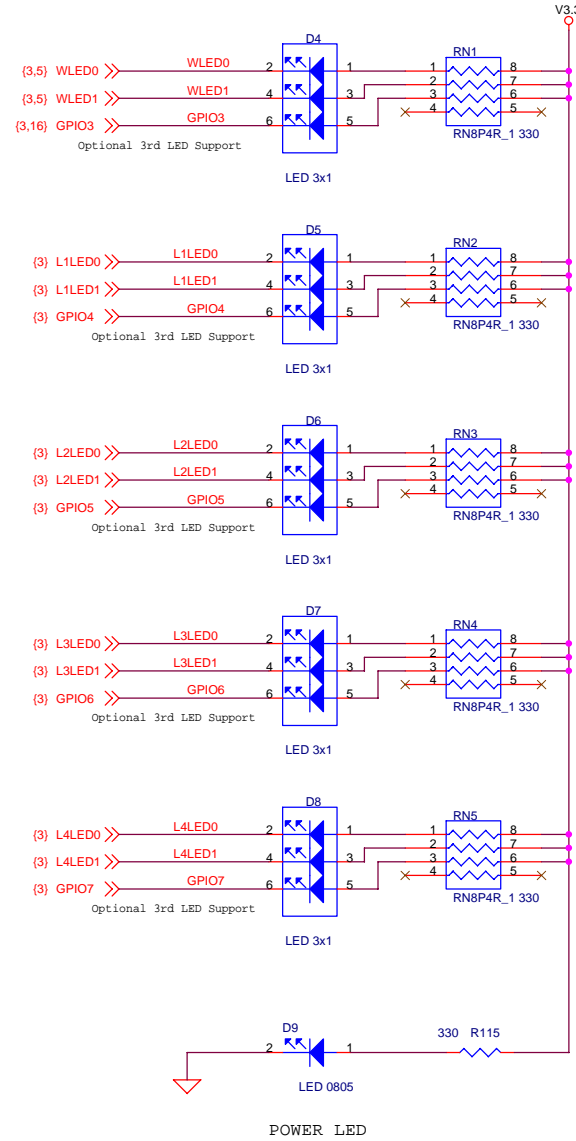
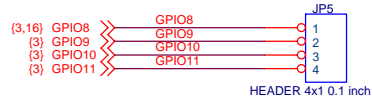
MICREL SEMICONDUCTOR		
Title KS8695PX VOIP BOARD		
Size B	Document Number ICE and RESET	Rev 1.0
Date: Monday, July 12, 2004	Sheet 10	of 16



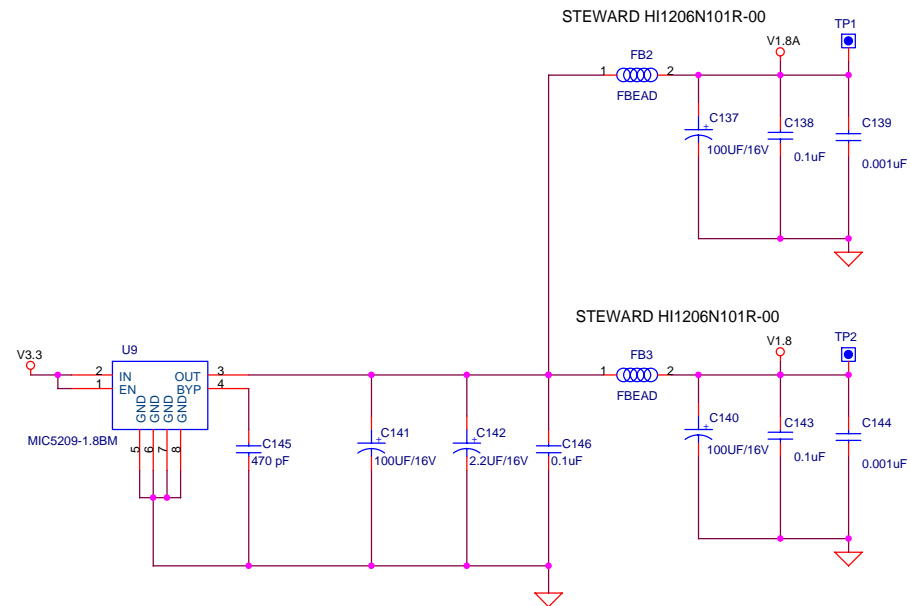
MICREL SEMICONDUCTOR		
Title		
KS8695PX VOIP BOARD		
Size	Document Number	Rev
B	UART	1.0
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Programmable Ethernet LED Indicators

GPIO Test Header



MICREL SEMICONDUCTOR		
Title KS8695PX VOIP BOARD		
Size B	Document Number LEDS	Rev 1.0
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MICREL SEMICONDUCTOR		
Title		
KS8695PX VOIP BOARD		
Size	Document Number	Rev
B	1.8V Power	1.0
Date:	Monday, July 12, 2004	Sheet 13 of 16

