WA3101-07

REVISIONS and UPDATES		
REV/UP	DESCRIPTION	APPROVAL/DATE

PROPRIETARY INFORMATION
PRELIMINARY

Accton Technology Corporation
3F, No. 9, Nan-Ke 3th Rd.,
Taiwan Science-Based Industrial Park,
Hsin-Shi, Taiwan 744 Taiwan, R.O.C.

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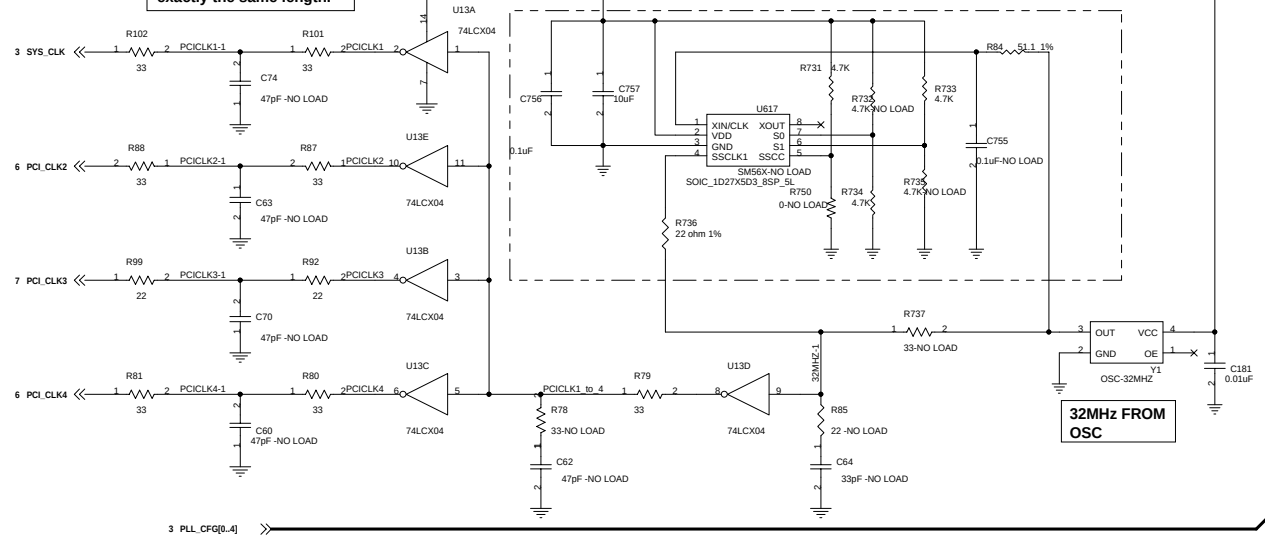
PRELIMINARY

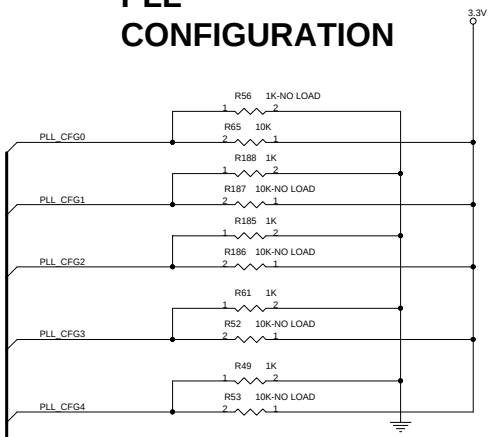
PCI CLOCKS

Make all PCI clock traces exactly the same length.



PLL_CFG[0:4]	MAX PCI CLOCK INPUT (MHz)	MAX MEMORY CLOCK (MHz)	MAX CPU CLOCK (MHz)
0x00 = 0 0000	33	100	250
0x01 = 0 0001	27	87	243
0x02 = 0 0010	55	59	248
0x03 = 0 0011	66	66	133
0x04 = 0 0100	42	84	168
0x05 = 0 0101	66	66	166
0x07 = 0 0111	66	66	200
0x08 = 0 1000	66	66	200
0x0A = 0 1010	27	58	243
0x0C = 0 1100	42	84	210
0x0E = 0 1110	41	84	246
0x10 = 1 0000	33	100	200
0x12 = 1 0010	66	100	200
0x14 = 1 0100	35	76	245
0x16 = 1 0110	31	66	248
0x18 = 1 1000	33	88	250
0x1A = 1 1010	62	66	248
0x1C = 1 1100	55	89	248
0x1D = 1 1101	66	100	250

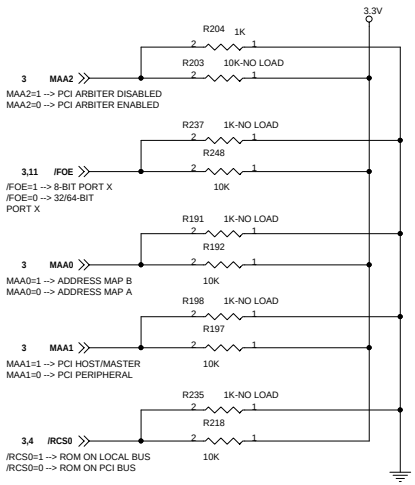
PLL CONFIGURATION

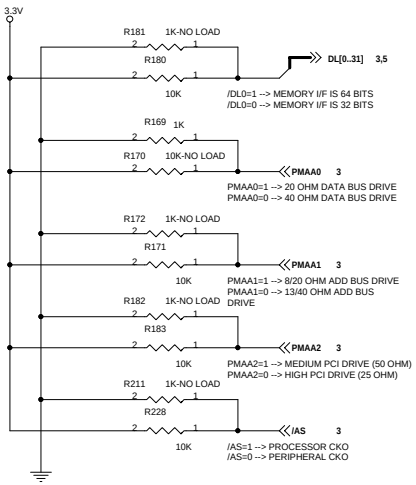


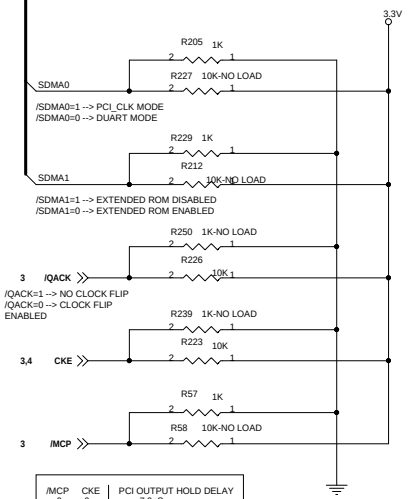
3 PLL_CFG[0..4]

3,4 SDMA[0..11]

3.3V
3.3V 3.3V 3,4,5,6,7,8,9,10,11
GND GND 3,4,5,6,7,8,9,10,11







PMAA0	PMAA1	DATA BUS	ADDRESS BUS	
0	0	40 OHM	40 OHM	
0	1	40 OHM	20 OHM	MEDIUM
1	0	20 OHM	13.3 OHM	HERCULEAN
1	1	20 OHM	8 OHM	ZEUS

/MCP	CKE	PCI OUTPUT HOLD DELAY
0	0	7.0nS
0	1	33MHz PCI - 6.5nS
1	0	6.0nS
1	1	66MHz PCI - 5.5nS

RESET CONFIGURATION

Accton Technology Corporation
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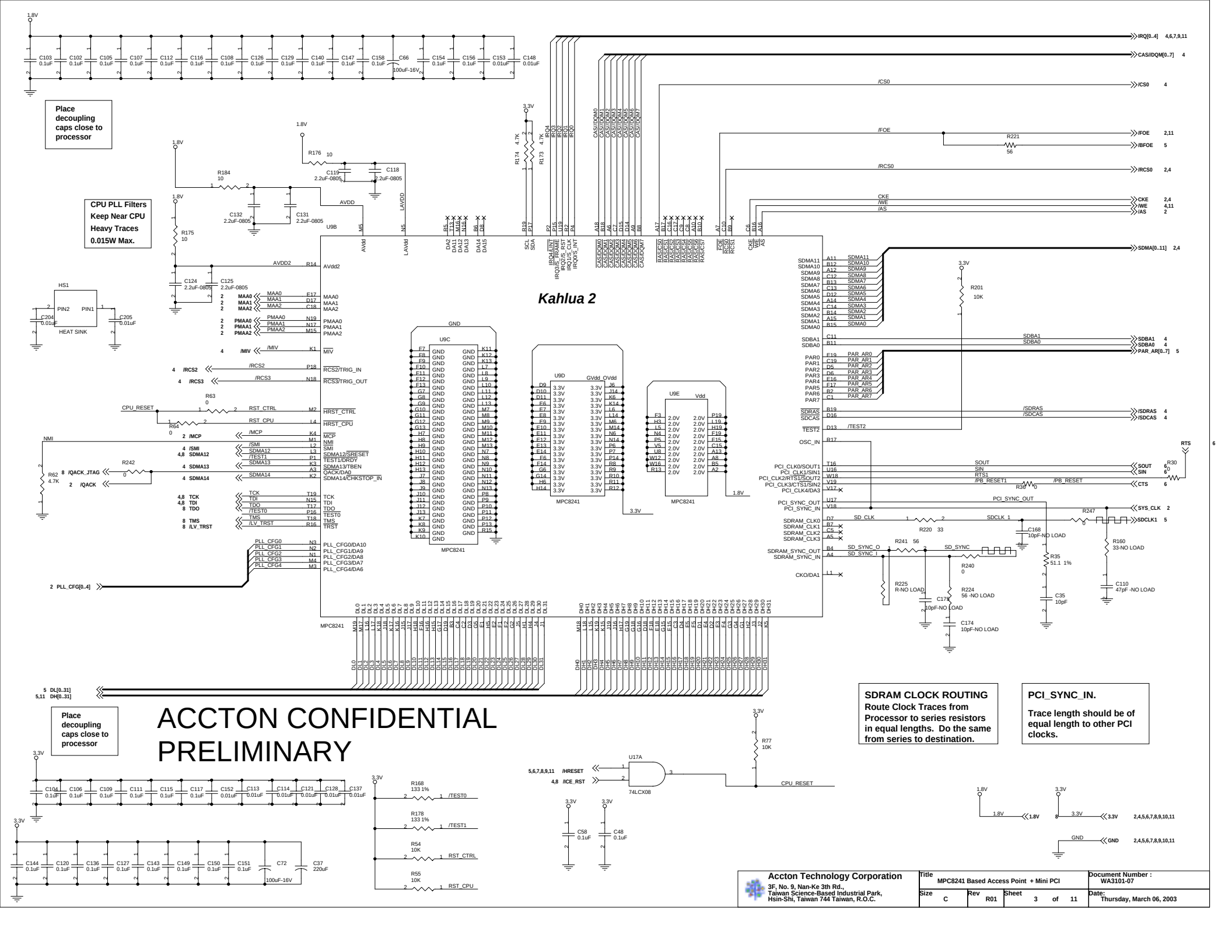
Place decoupling caps close to processor
CPU PLL Filters
Keep Near CPU
Heavy Traces
0.015W Max.
Kahlua 2
SDRAM CLOCK ROUTING
Route Clock Traces from Processor to series resistors in equal lengths. Do the same from series to destination.
PCI_SYNC_IN.
Trace length should be of equal length to other PCI clocks.
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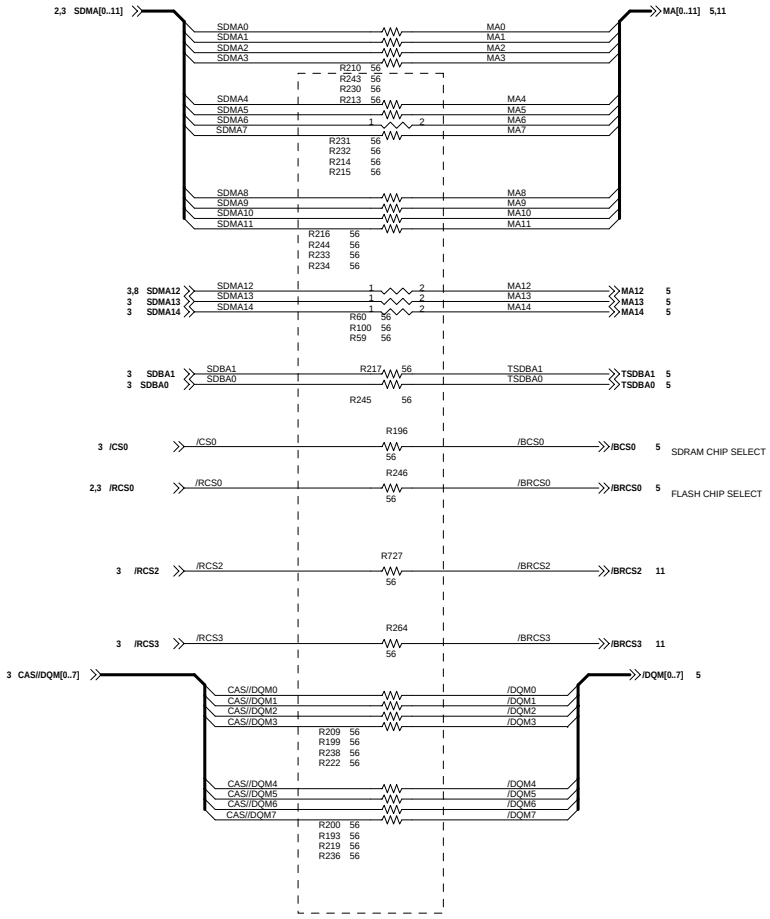
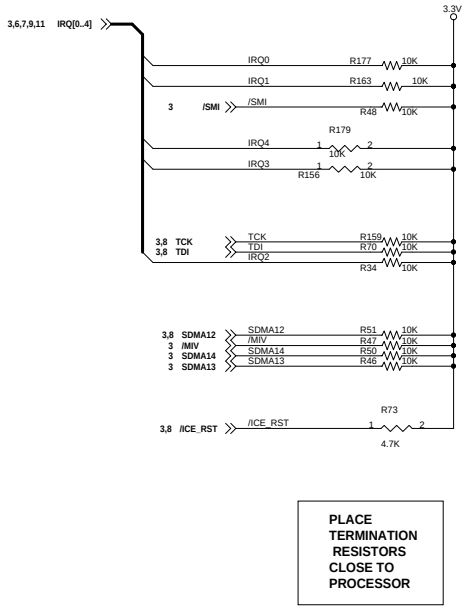
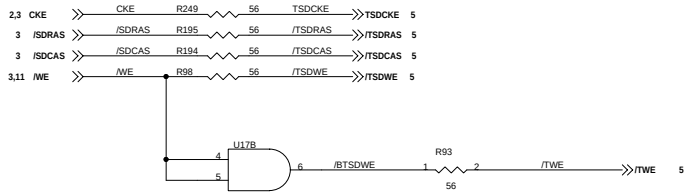
SDRAM MEMORY TERMINATION

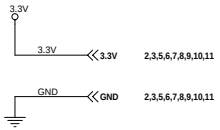


TERMINATION



SHORT TRACES





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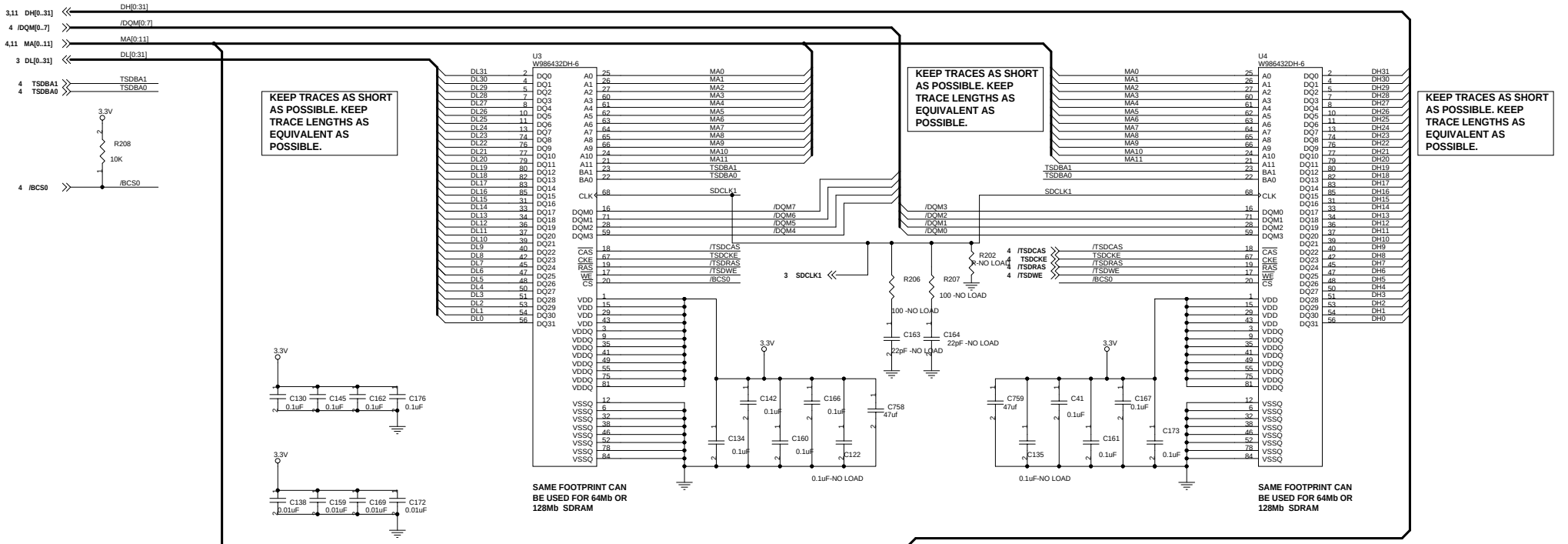
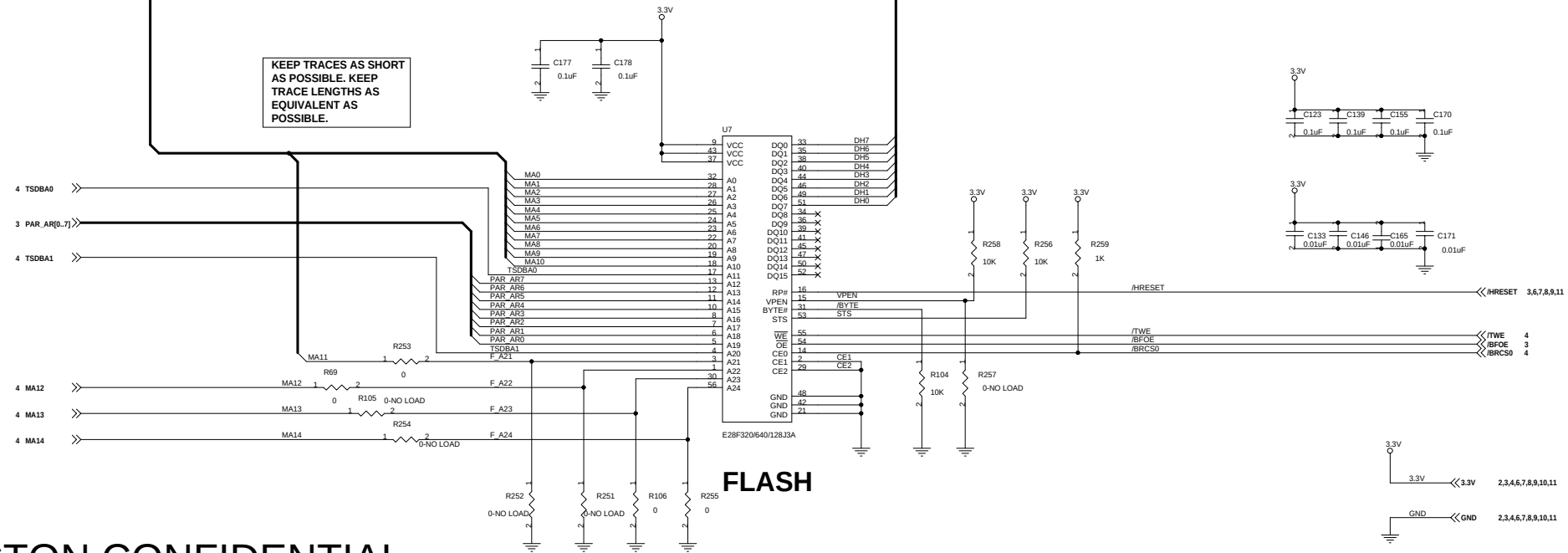
SDRAM



FLASH



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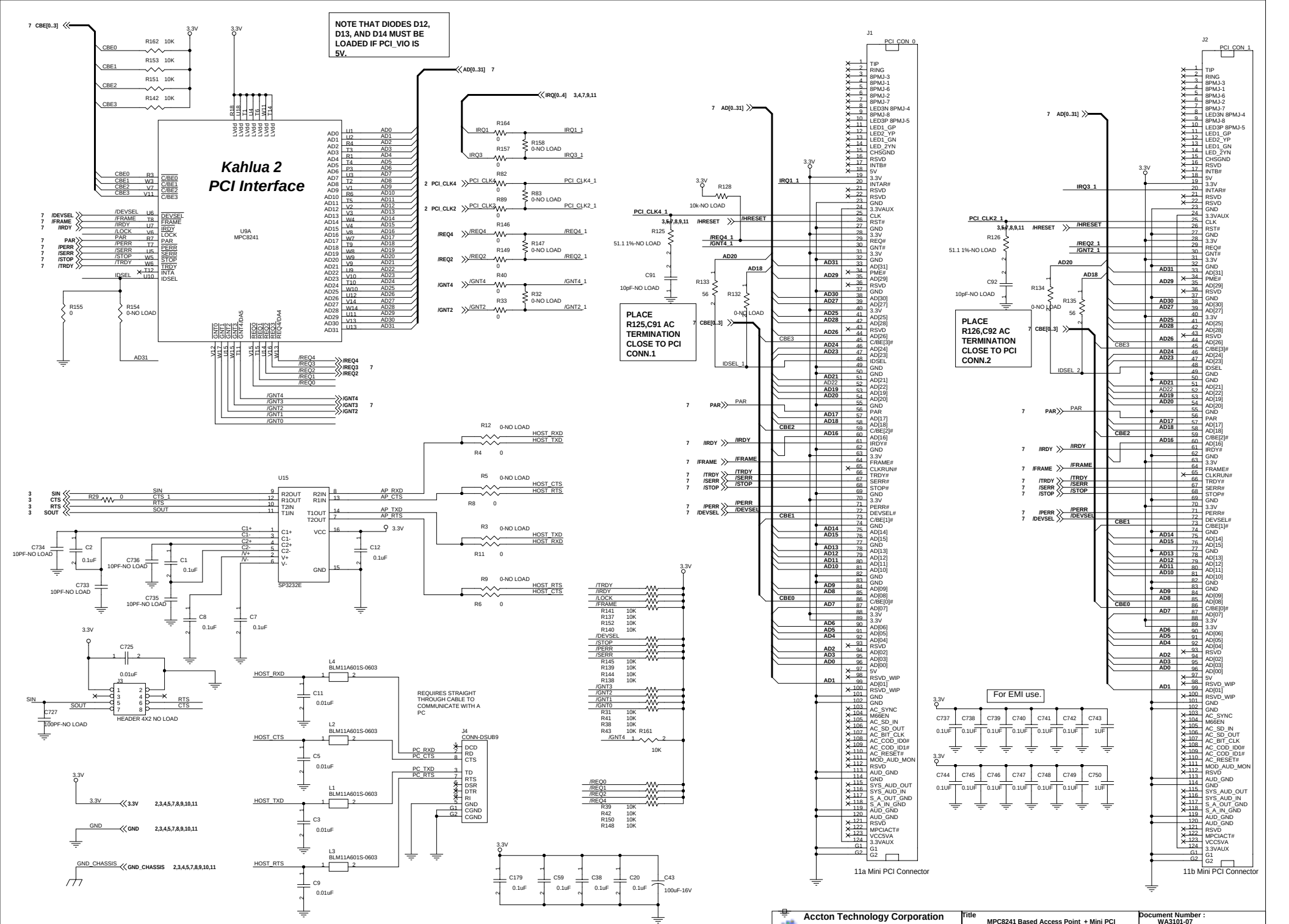

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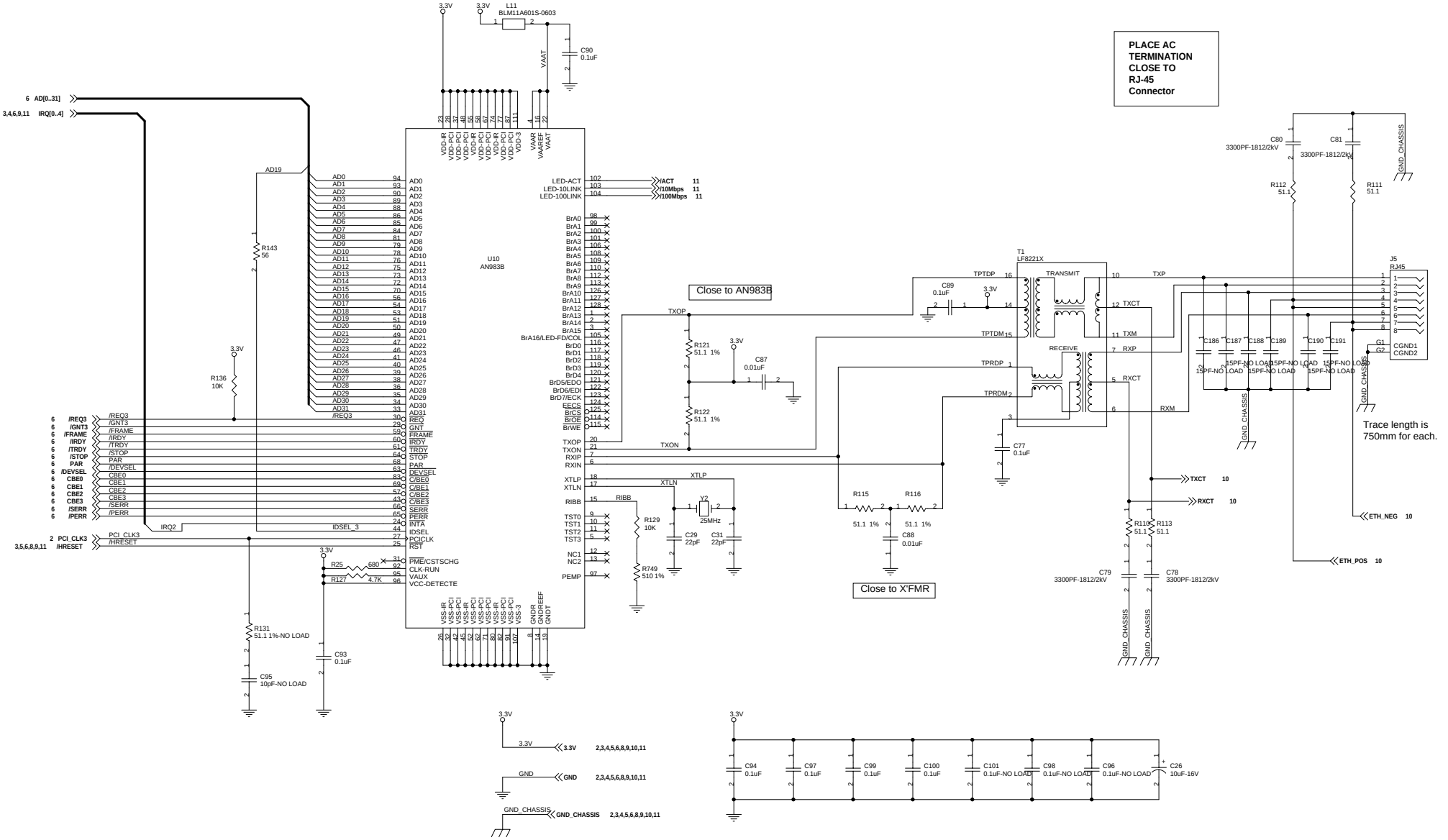
10/100 ETHERNET



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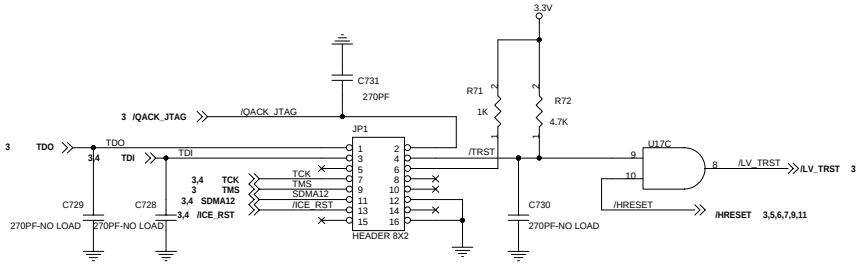
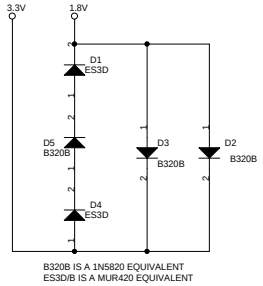
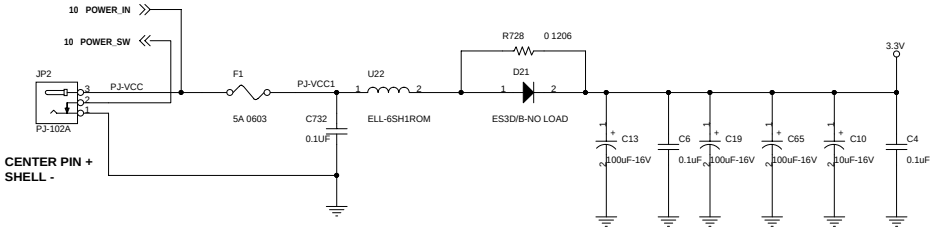
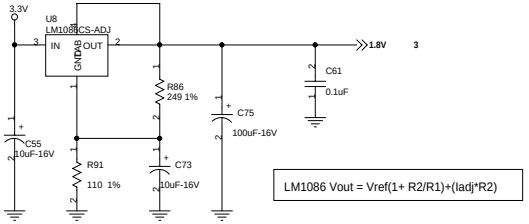
JTAG INTERFACE FOR VISION ICE

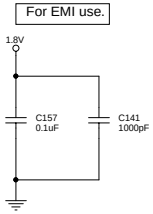


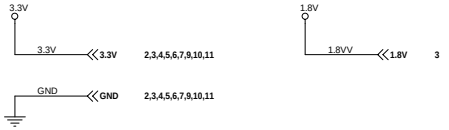
VOLTAGE SEQUENCING











MPC8245 Motorola Power Supplies	MPC8245 Worst Case Power Sizing
LVdd = 3.3V or 5.0V - Ref.	
GVdd = 3.3V - Memory Drivers	GVdd Power --> 0.9W --> 273mA
OVdd = 3.3V - PCI Stnd.	OVdd Power --> 0.6W --> 182mA
Vdd = 2.0V - Core	2.0V Power --> 2.1W --> 1.05A
LAVdd = 2.0V - DLL	
AVdd = 2.0V - PLL	
AVdd2 = 2.0V - PLL	

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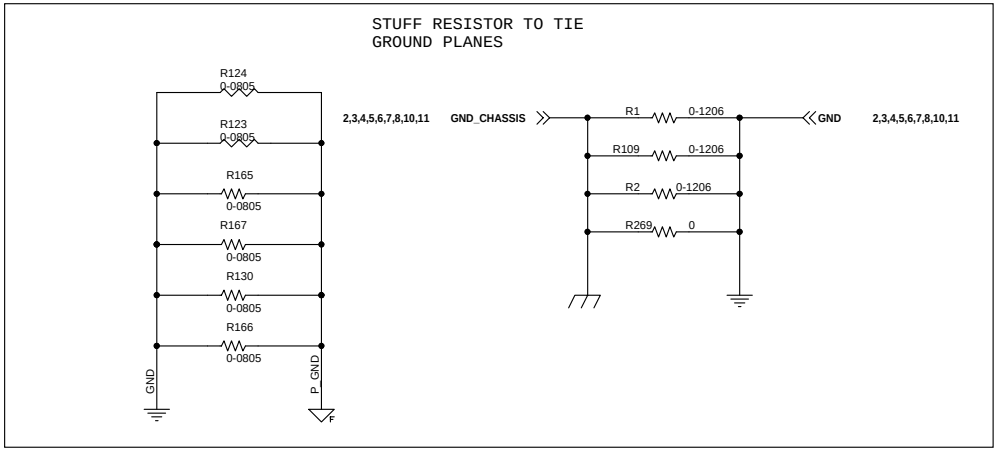
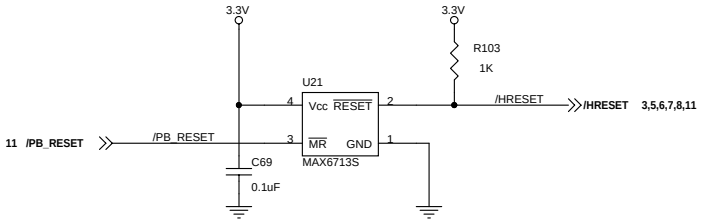
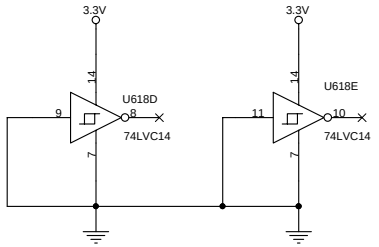
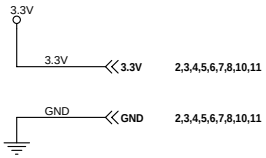
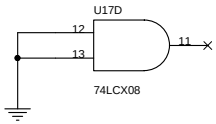
RESET MONITOR

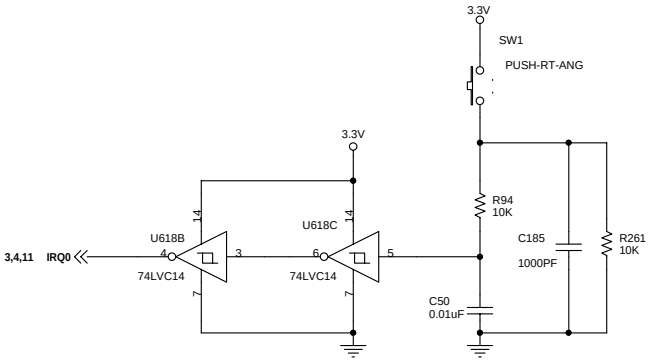












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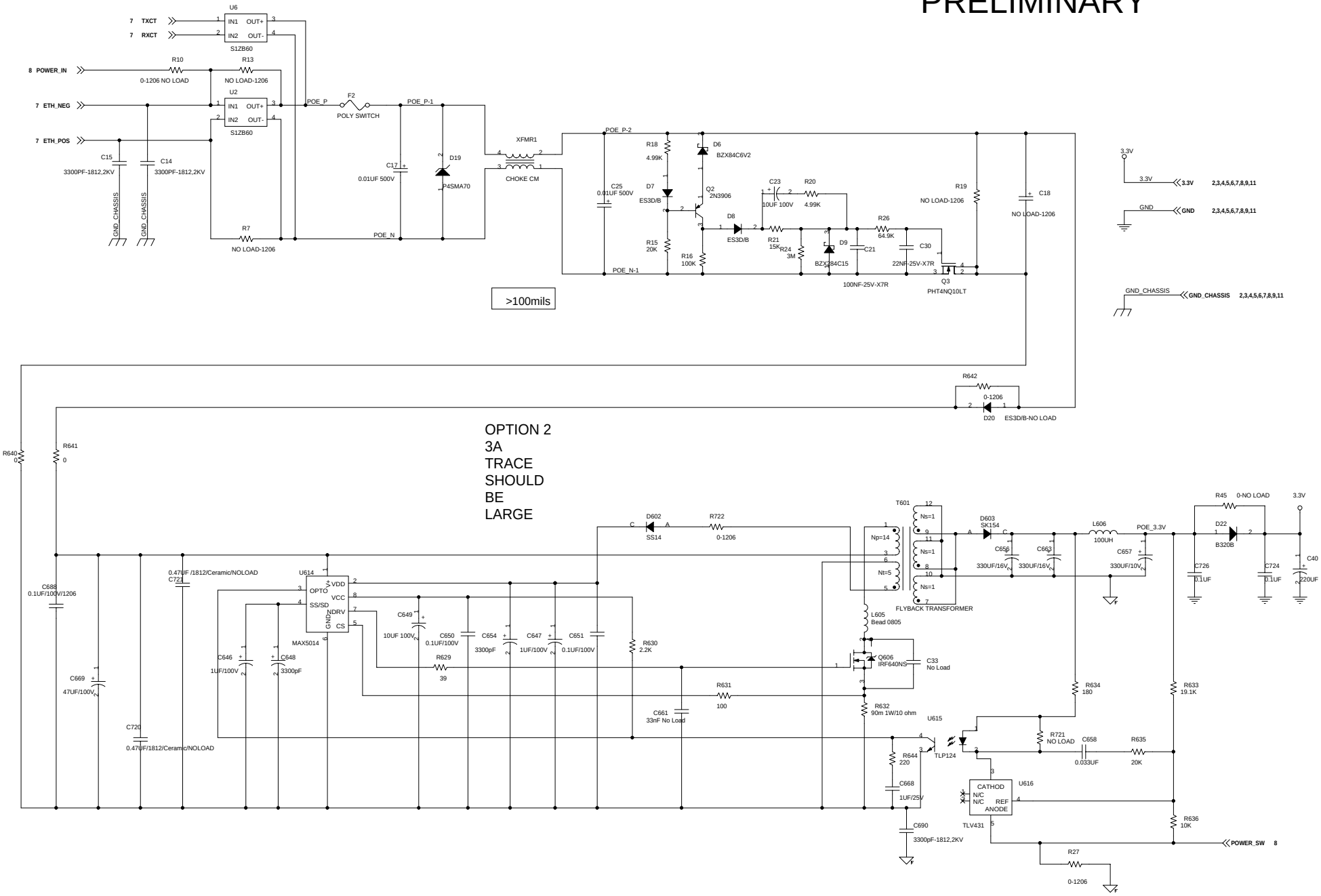

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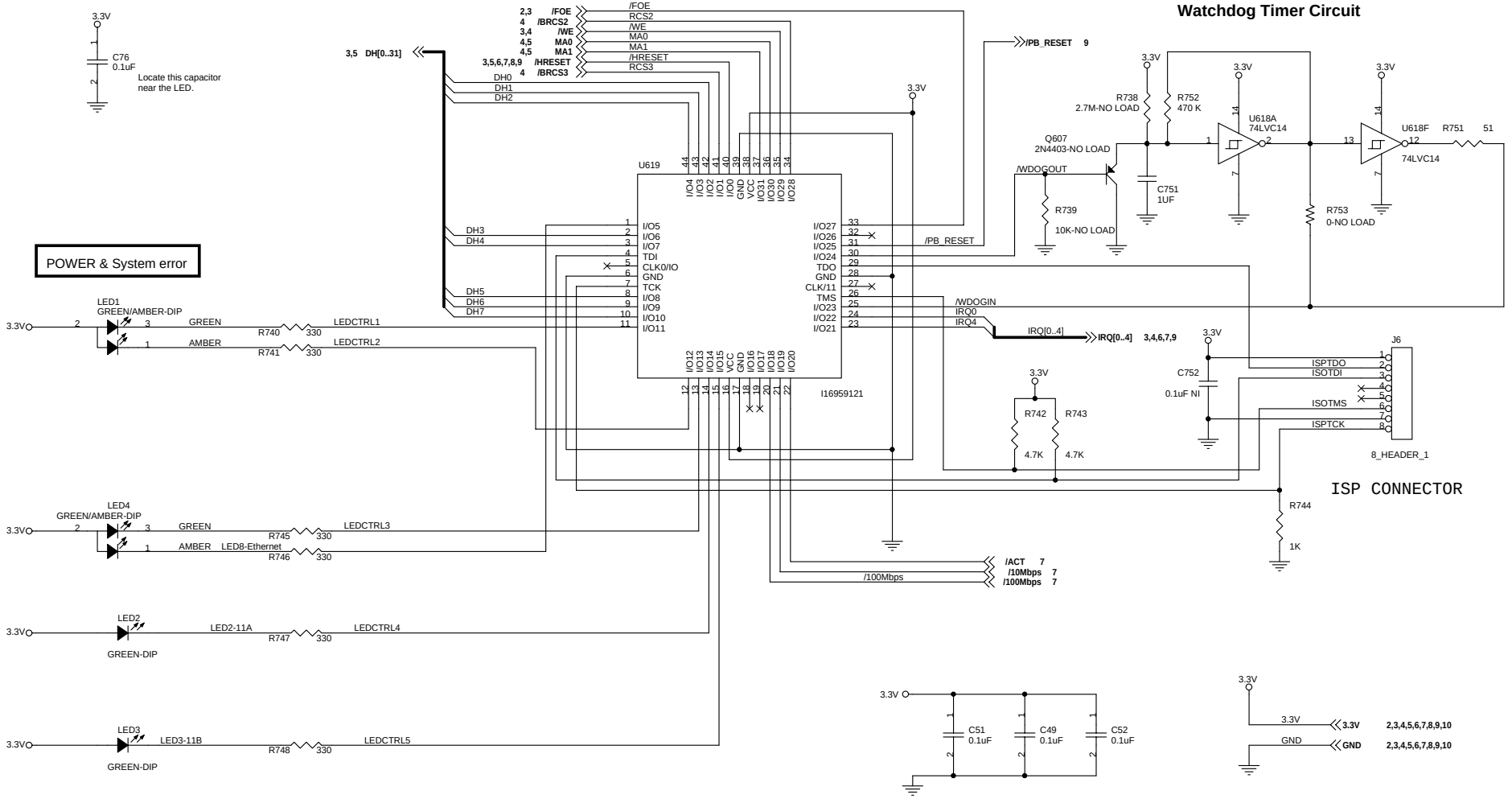

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