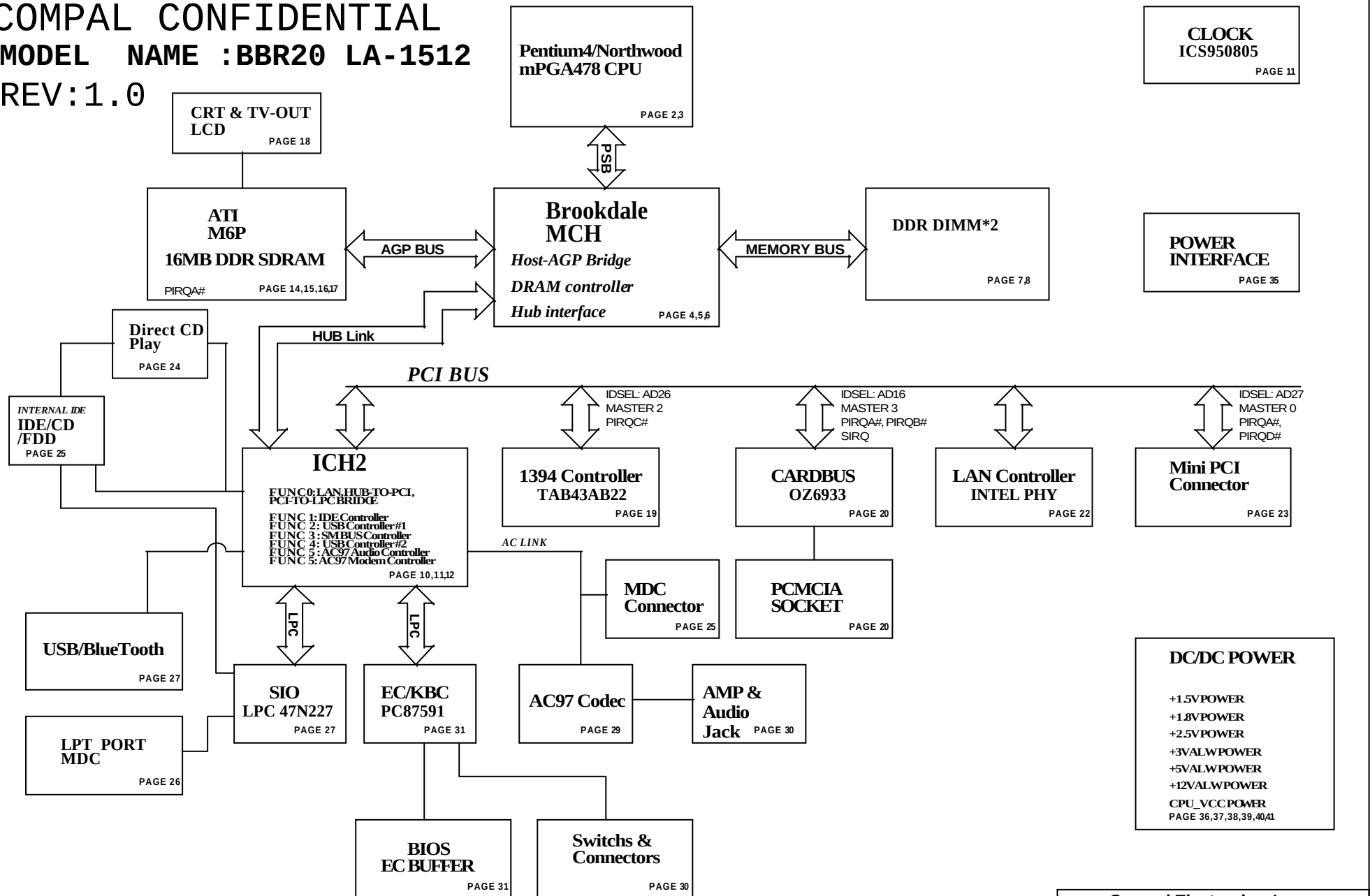


COMPAL CONFIDENTIAL
MODEL NAME :BBR20 LA-1512
REV:1.0



Compal Electronics, Inc.

SCHEMATIC, M/B LA-1512

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401225

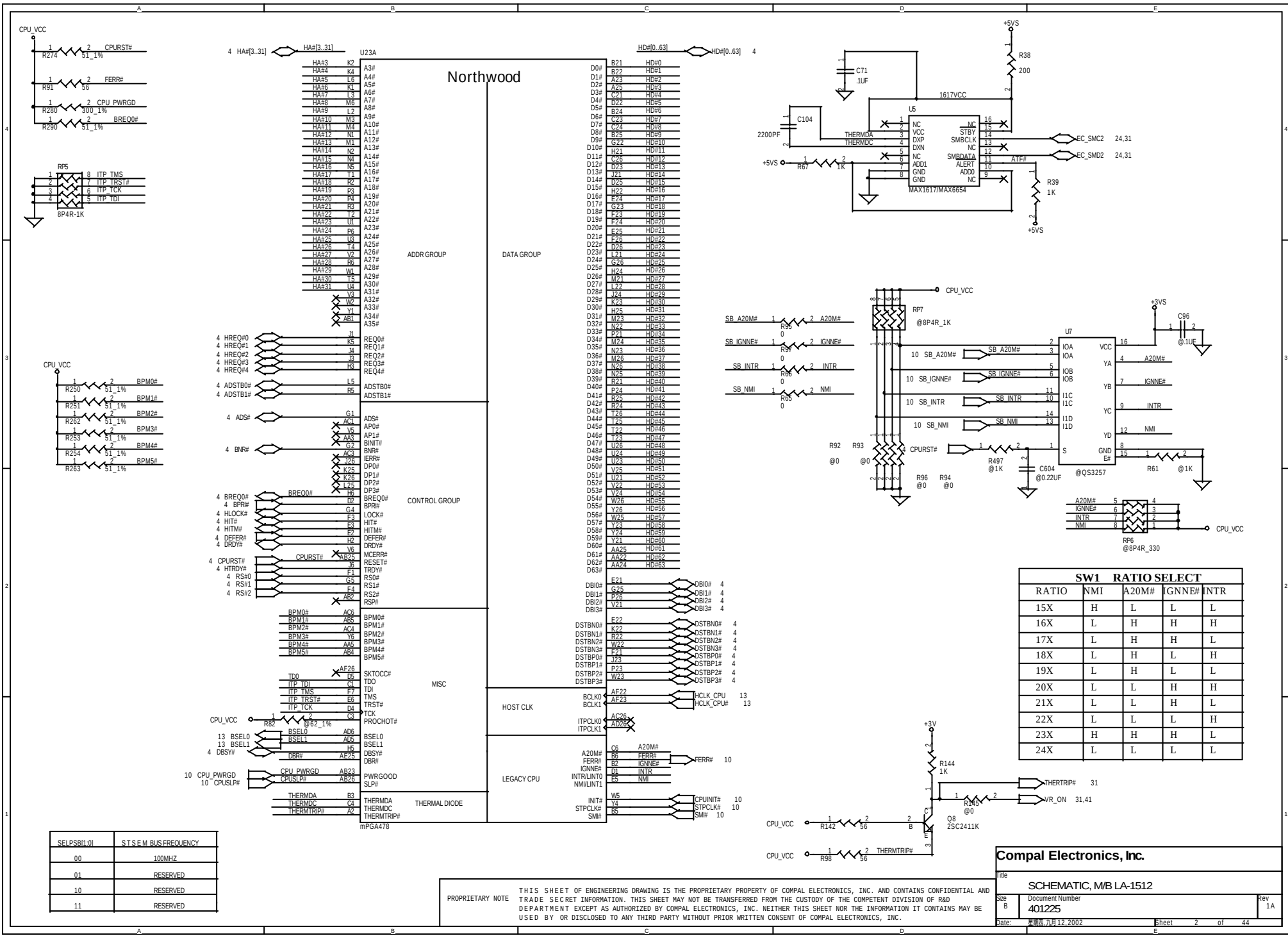
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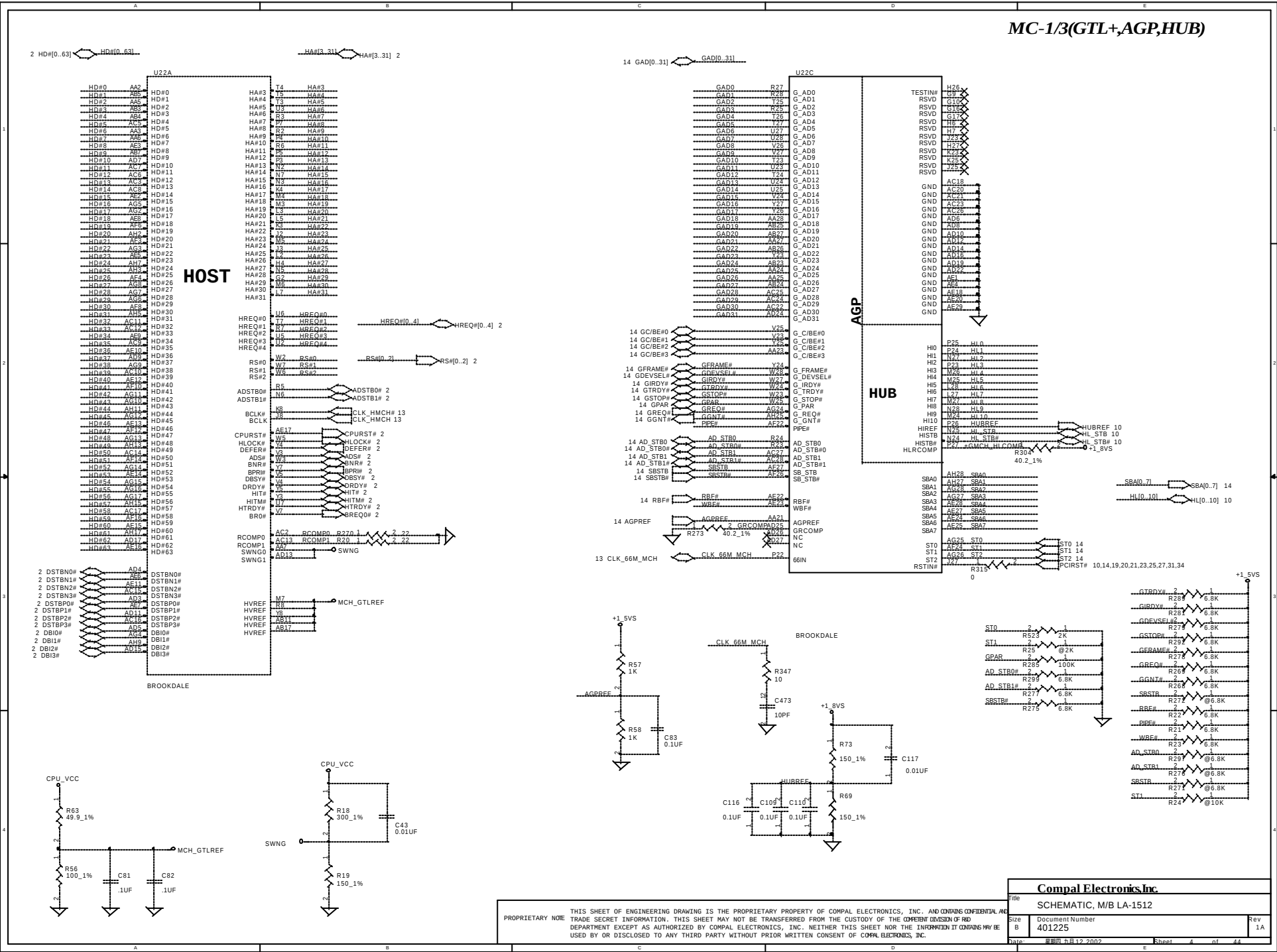
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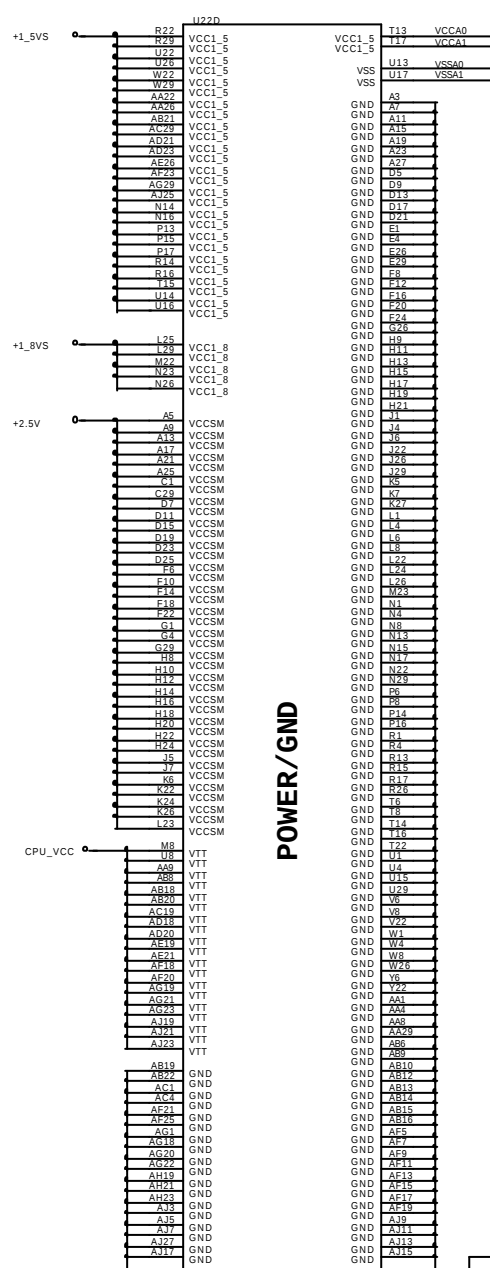


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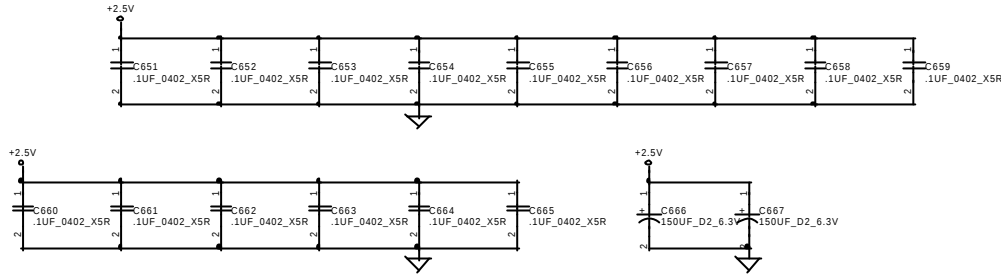
MC-1/3(GTL+,AGP,HUB)



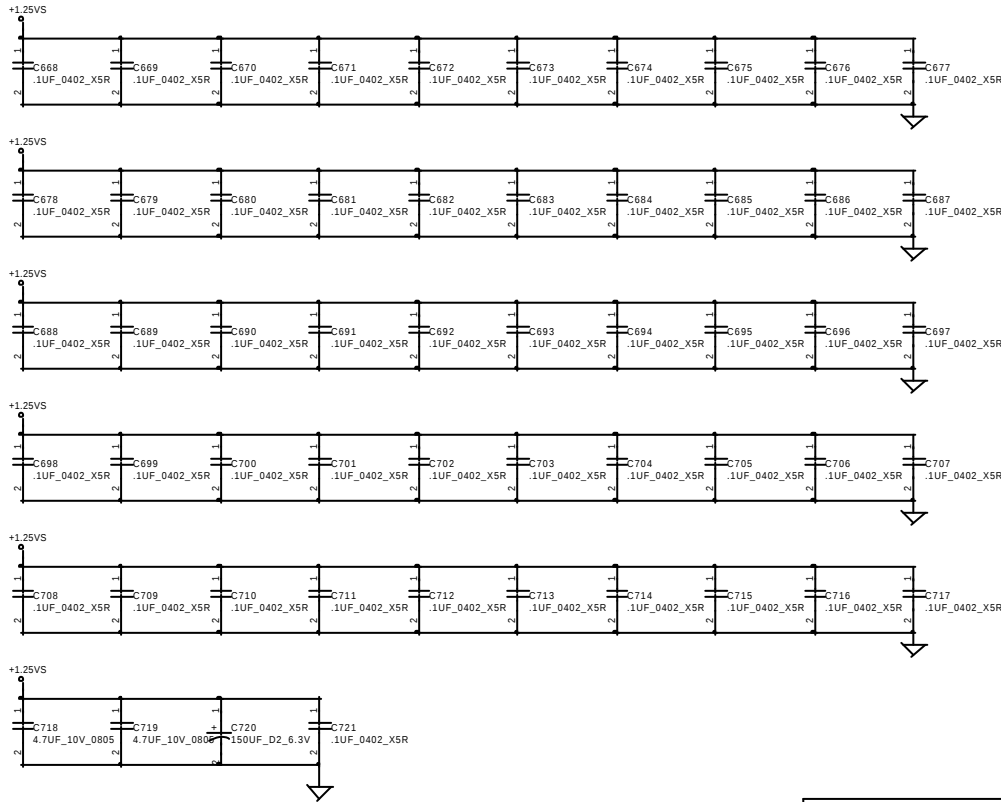
MCH-3/3(Power)



Layout note :
Distribute as close as possible
to DDR-SODIMM.



Layout note :
Place one cap close to every 2 pull up resistors termination to
+1.25V



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ICH-2

(FW82801BA)

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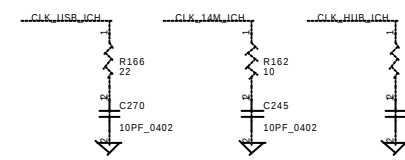
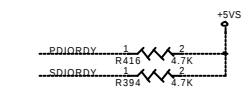
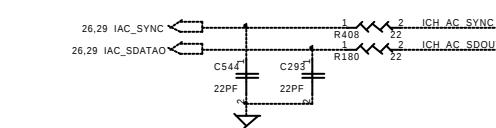
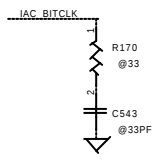
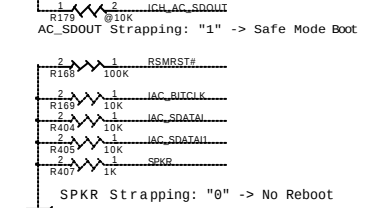
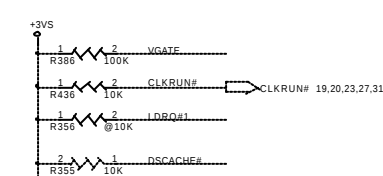
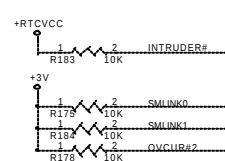
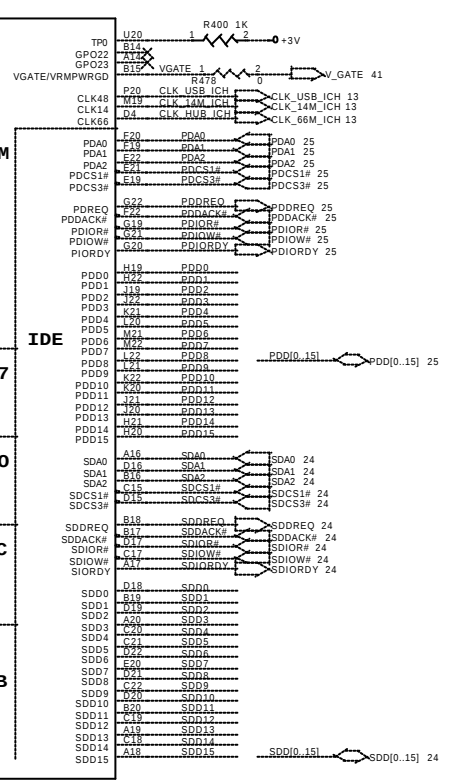
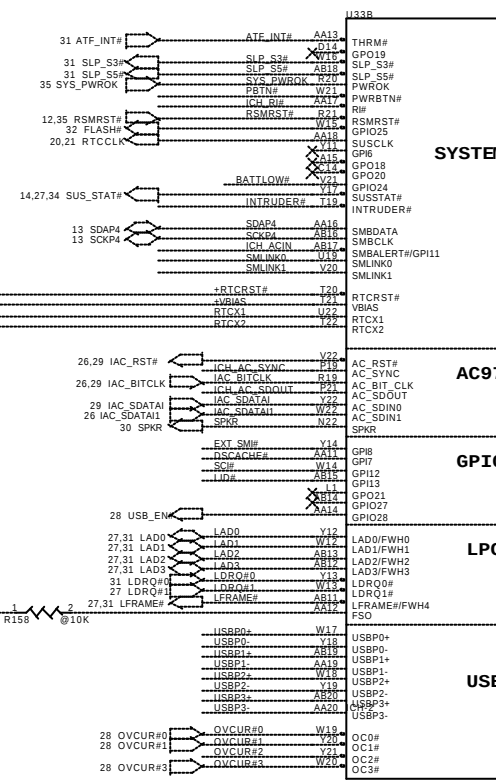
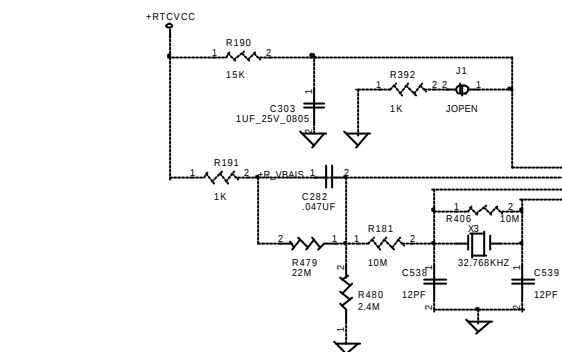
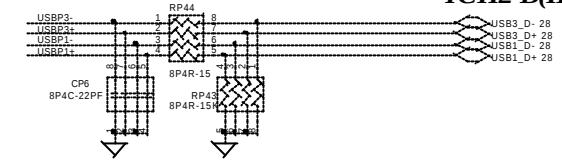
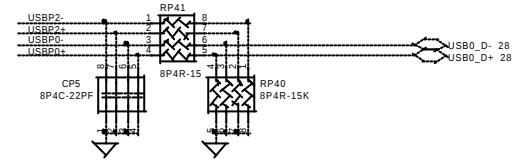
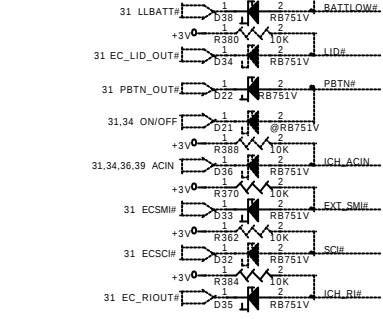
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ICH2-B(IDE,LPC,GPIO)

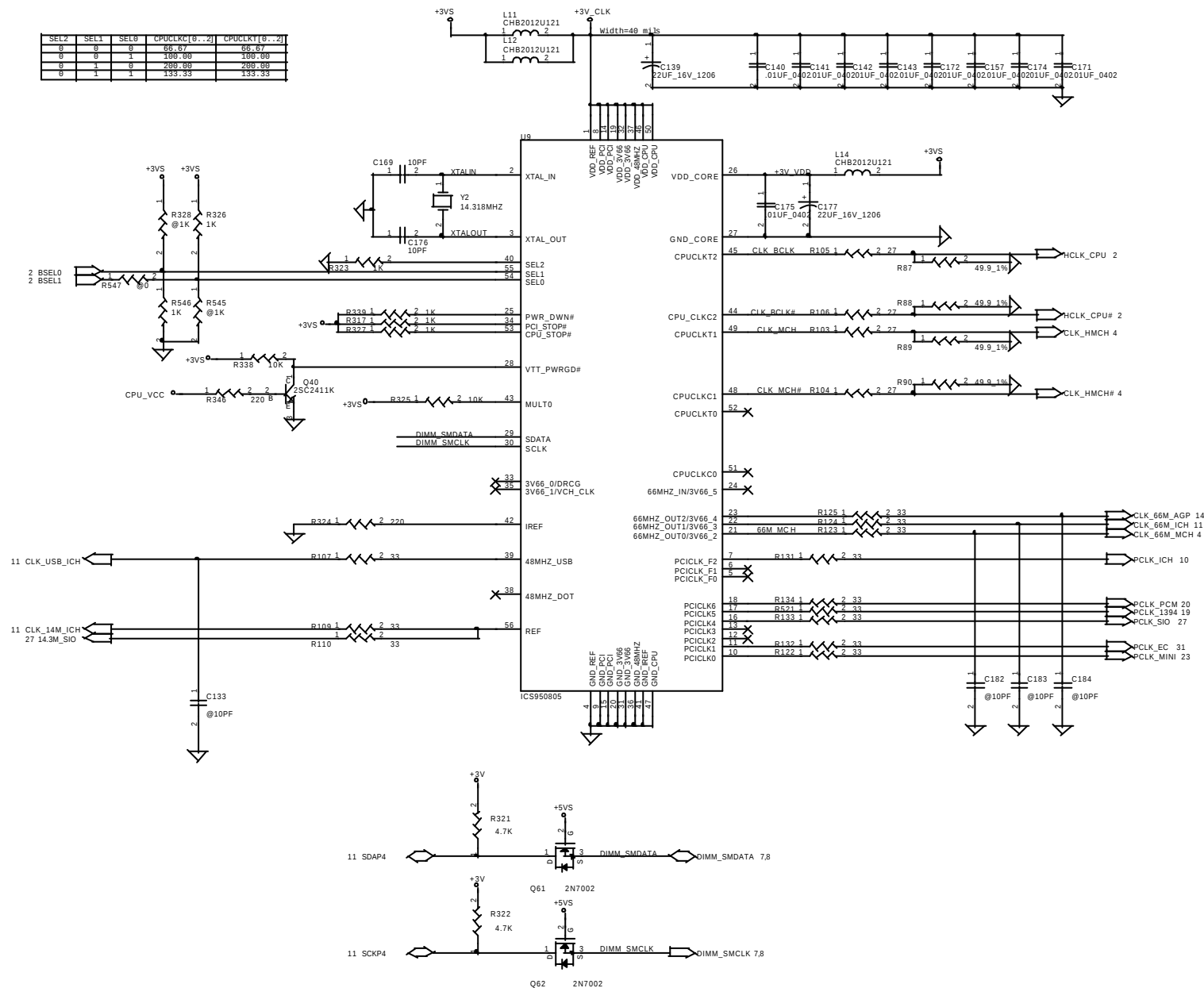


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Clock Generator

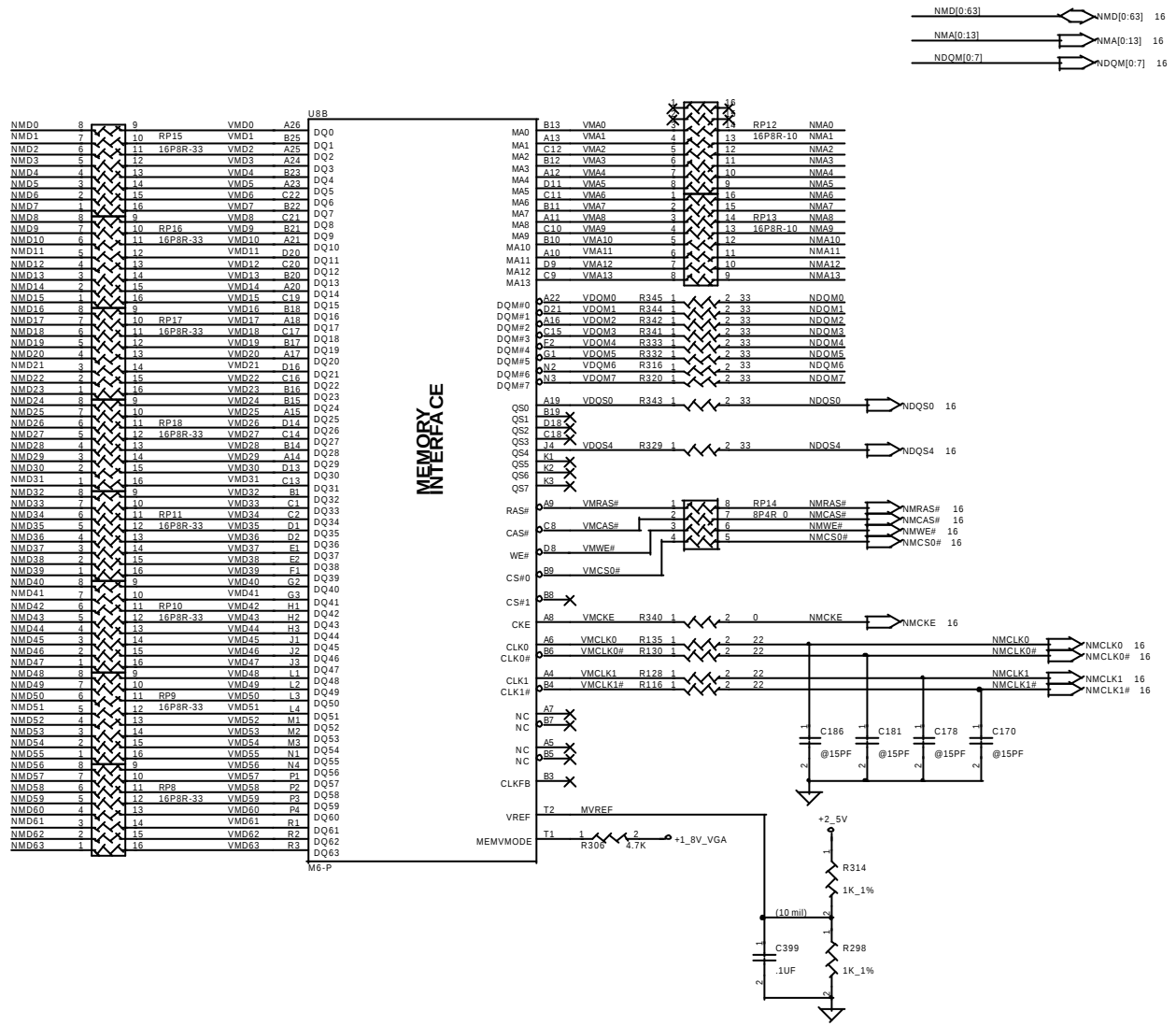
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0	0	1	100.00	100.00
0	1	0	200.00	200.00
0	1	1	133.33	133.33



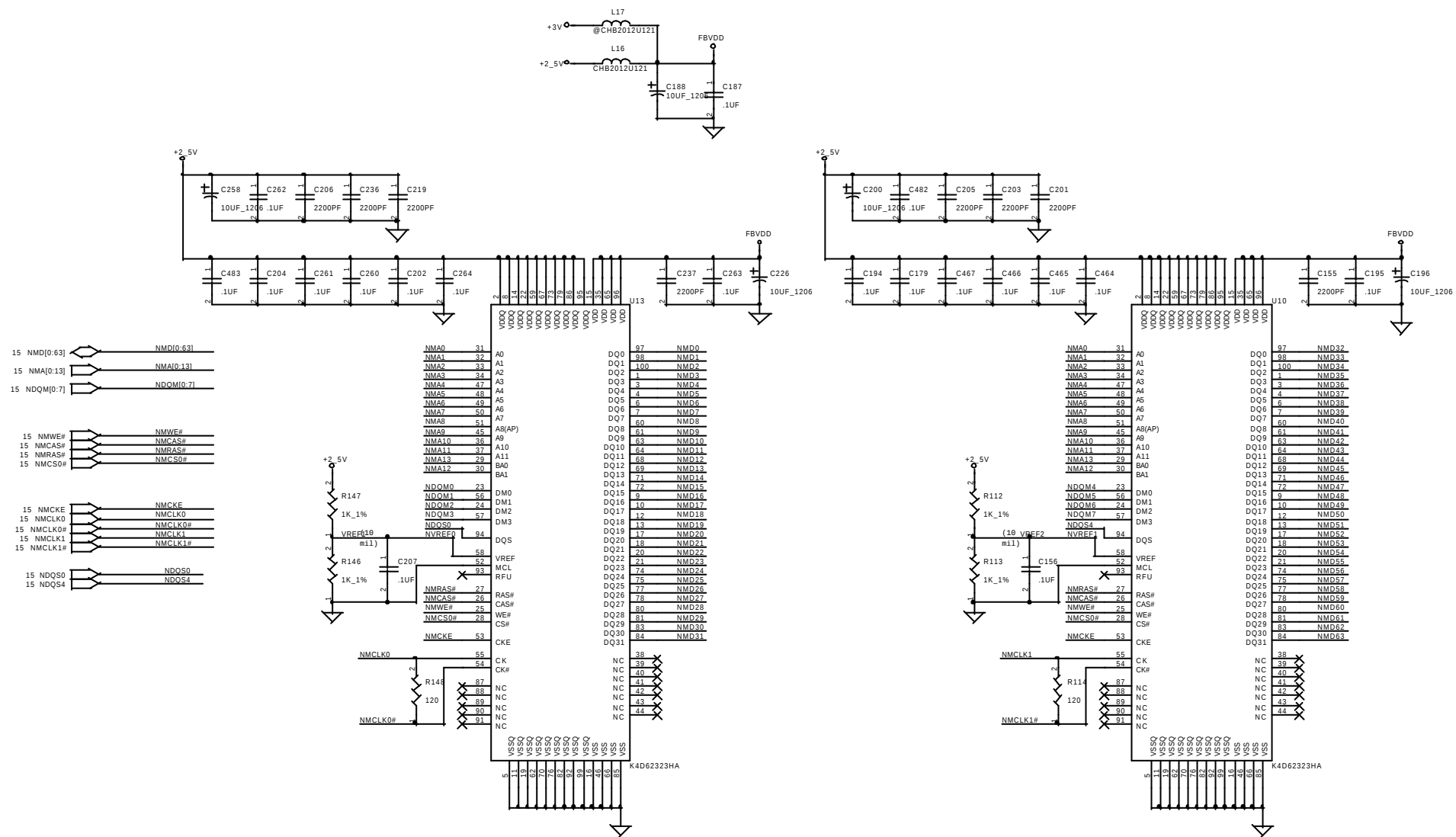
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MEMORY INTERFACE



DDR SDRAM

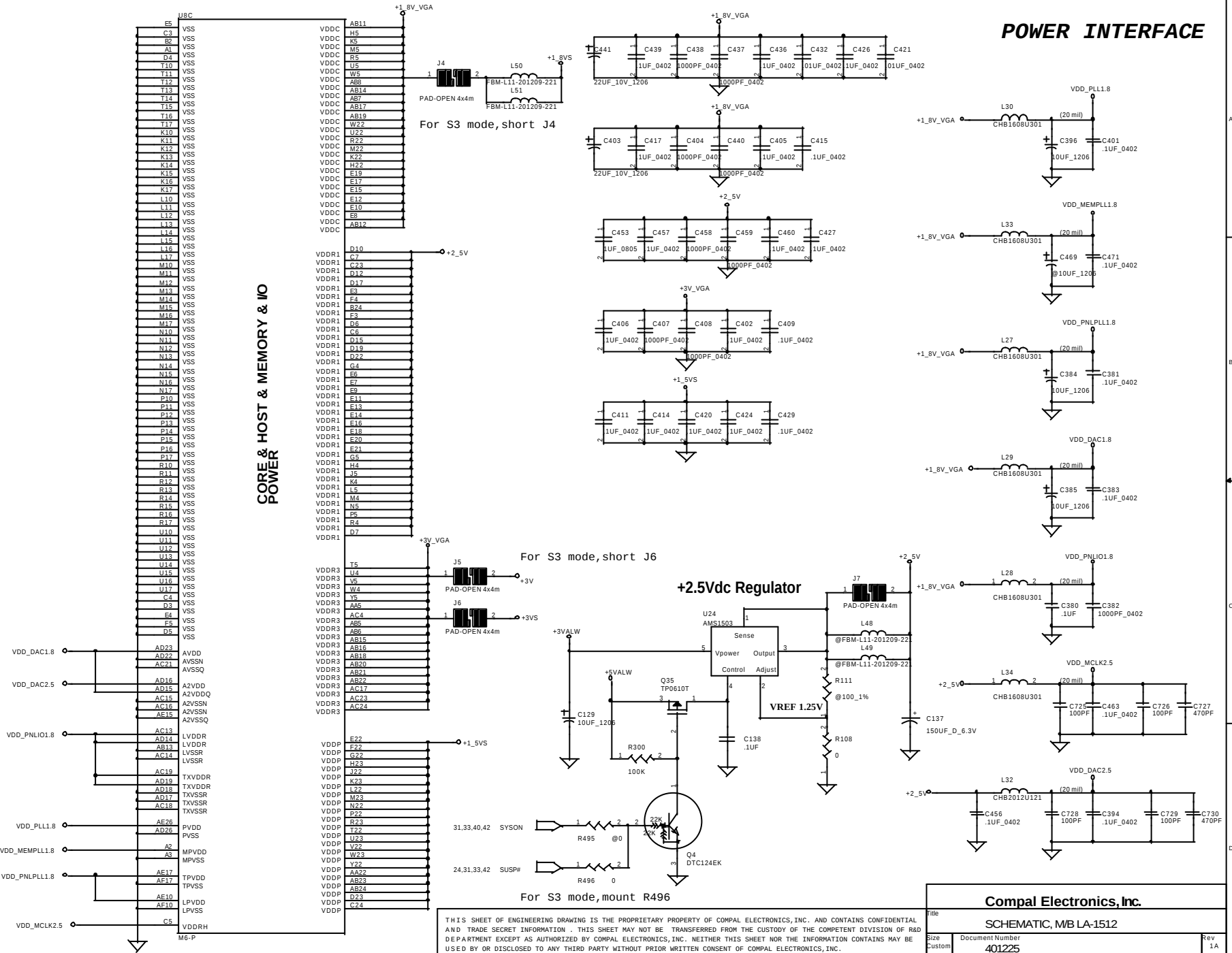


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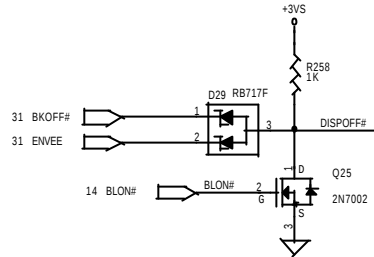
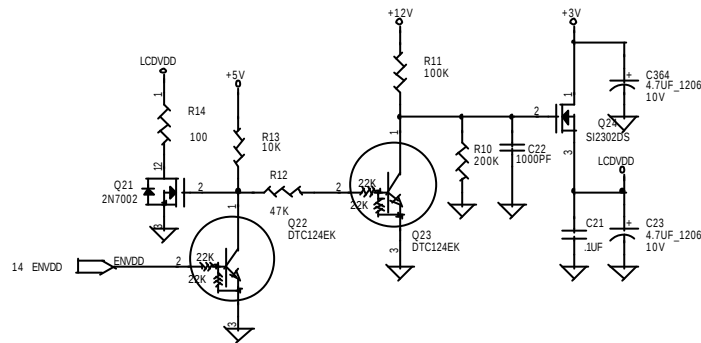
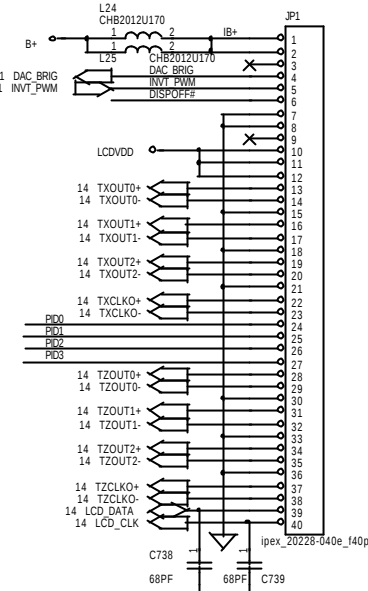
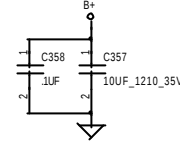
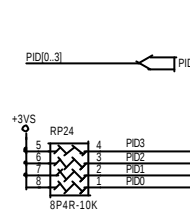
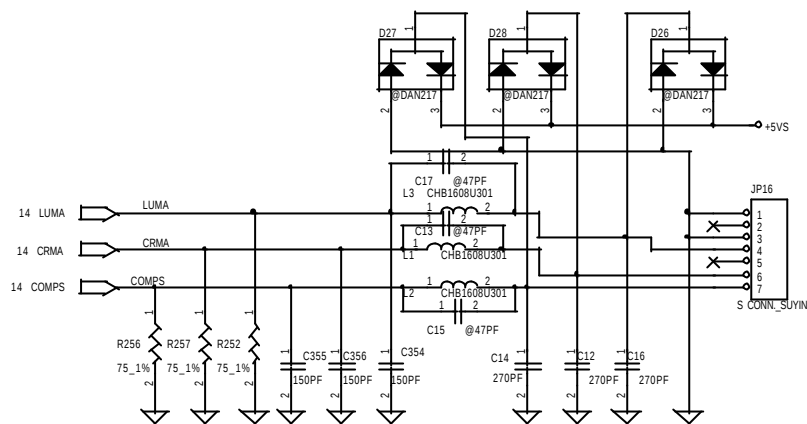
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CORE & HOST & MEMORY & IO POWER

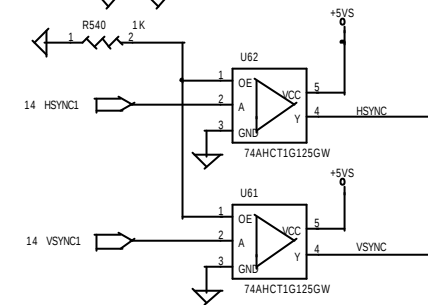
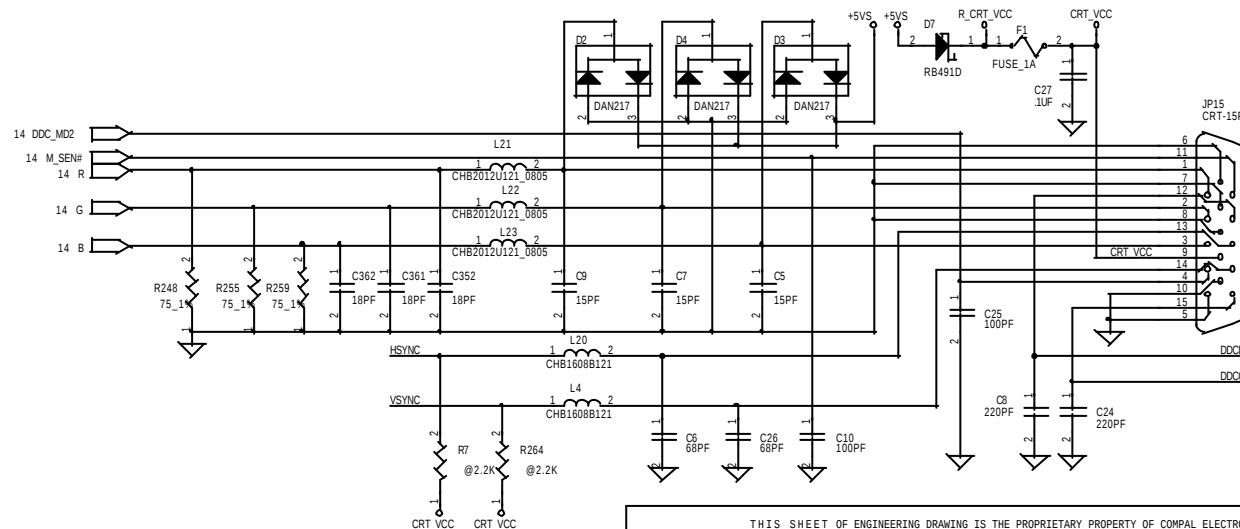
POWER INTERFACE



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CRT Connector

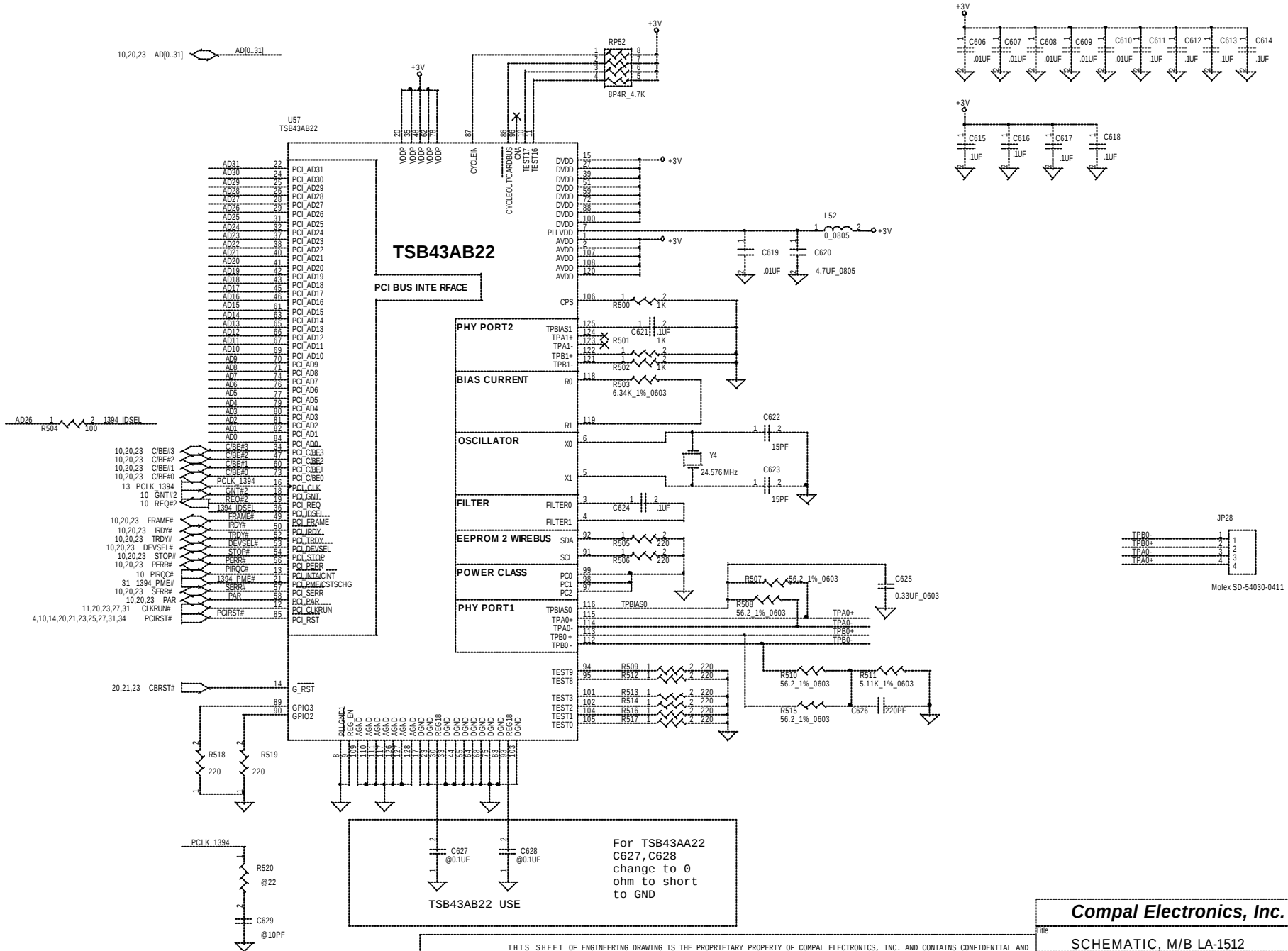


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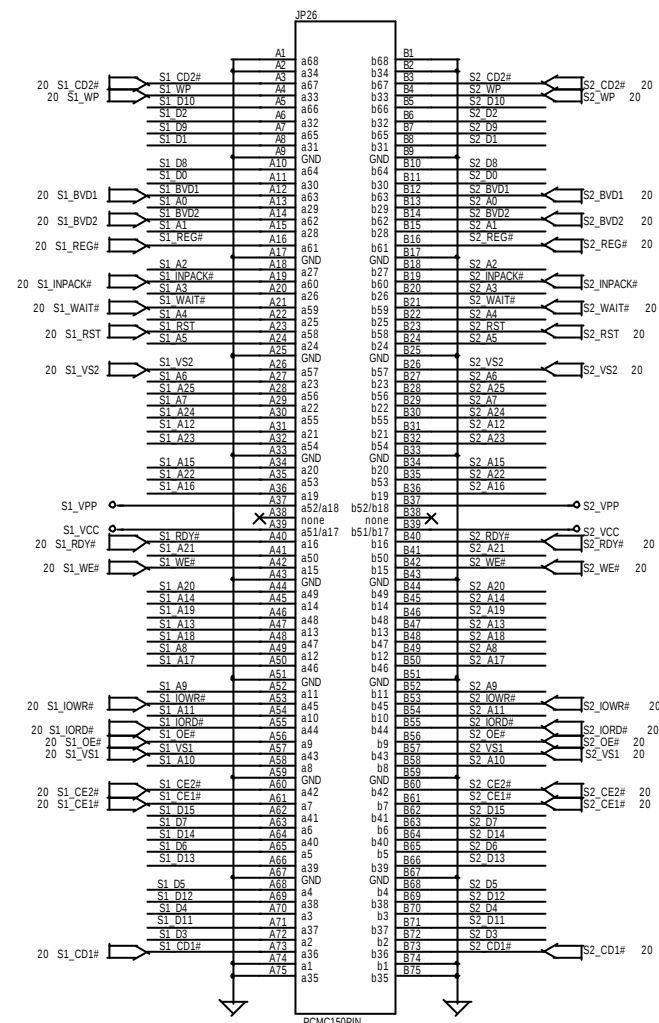
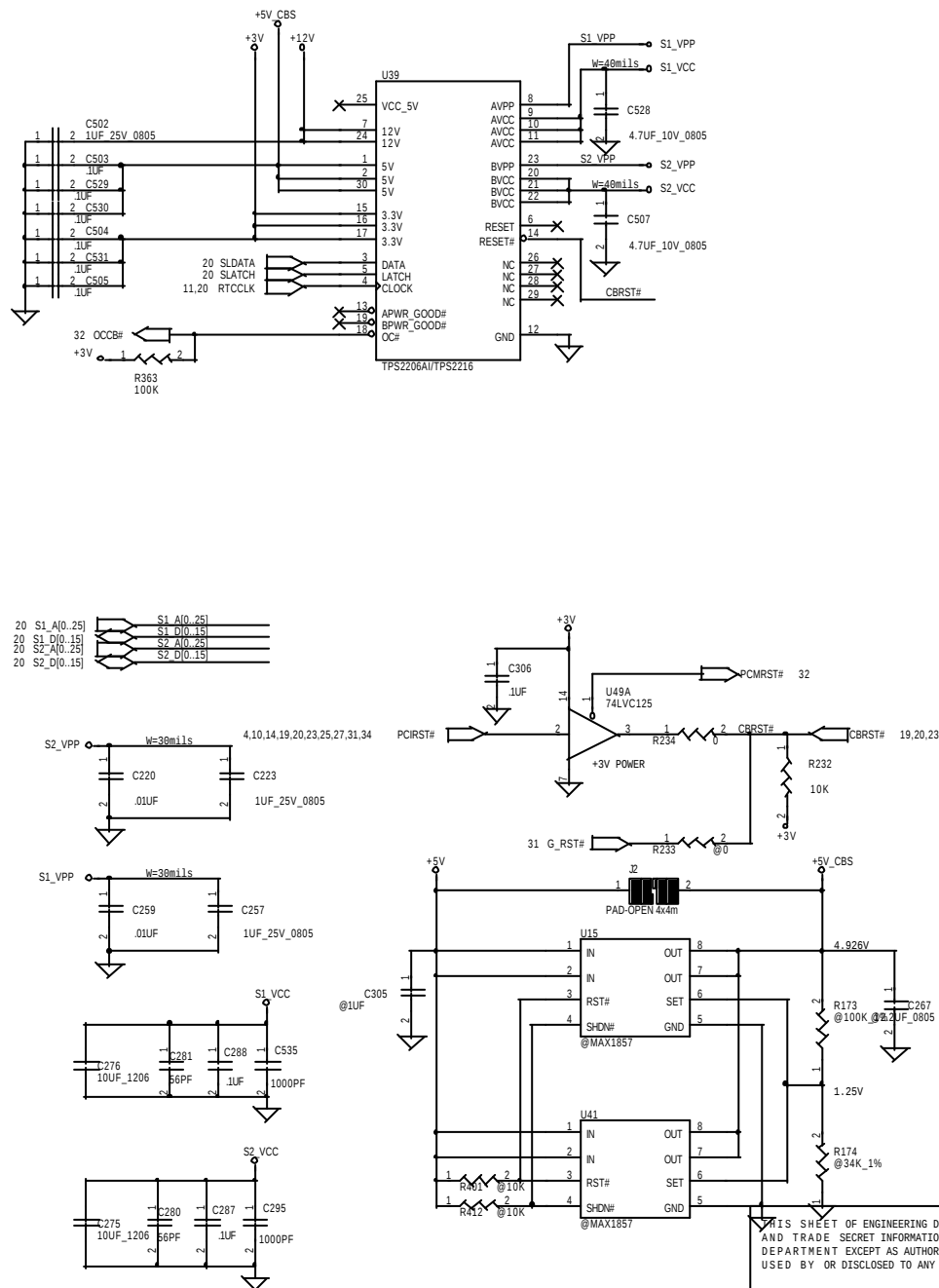
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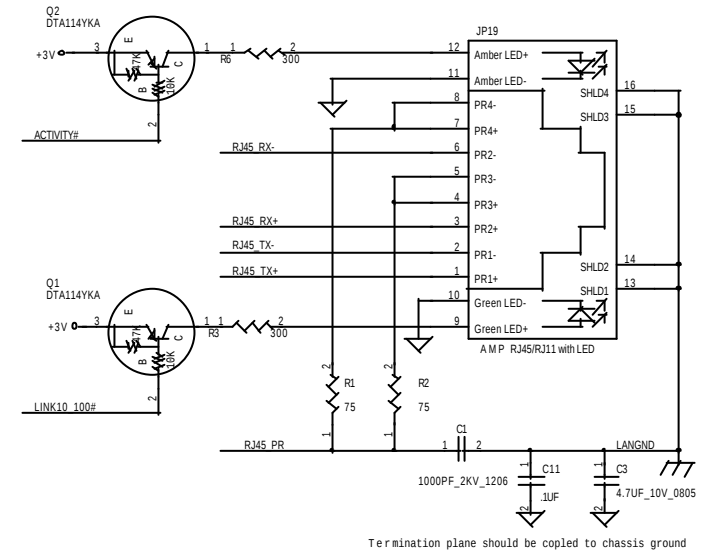
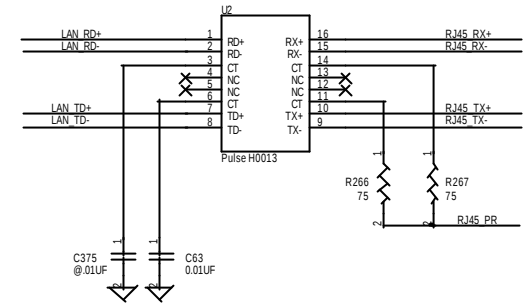
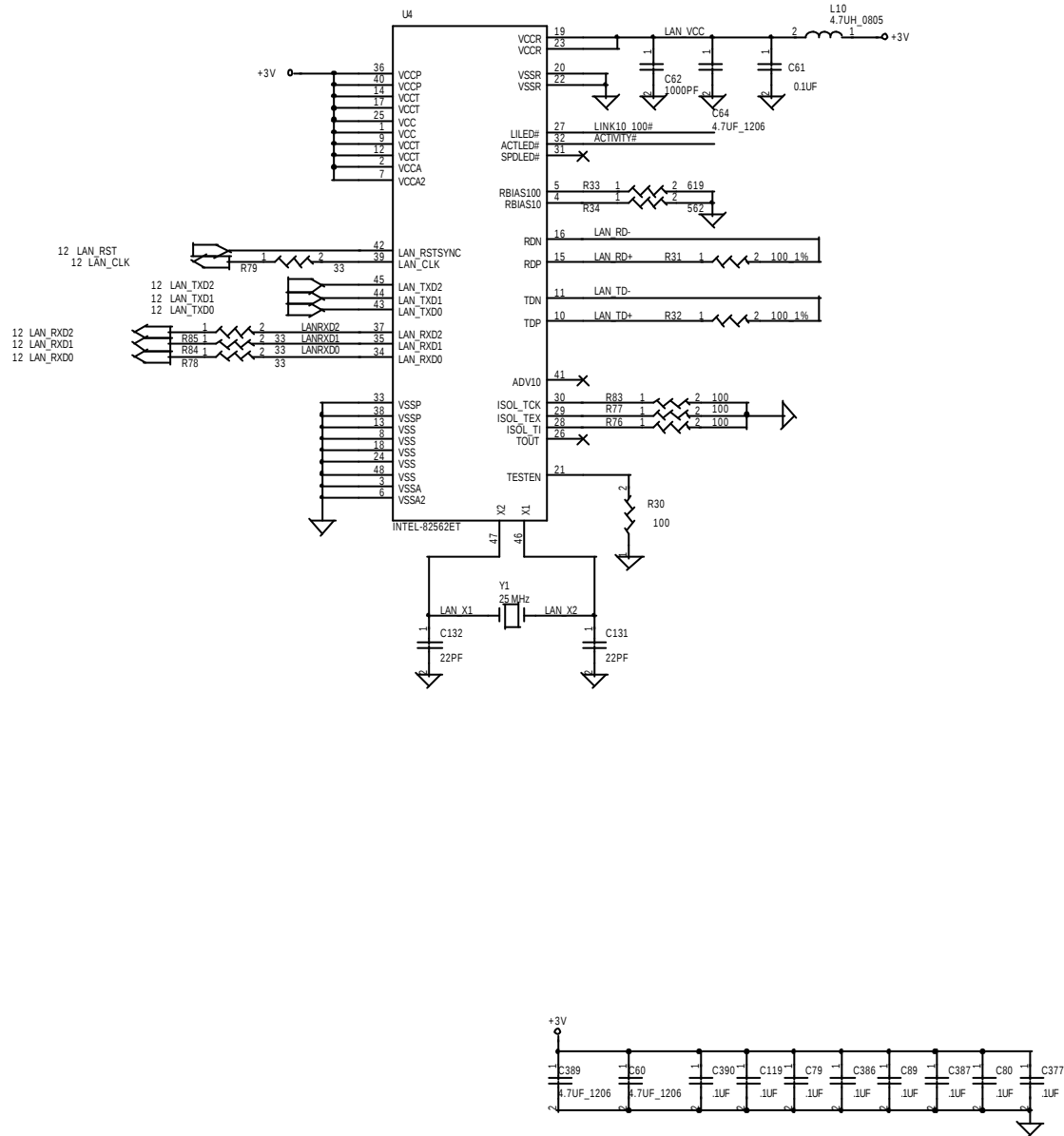


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PCMCIA POWER CTRL.

CARDBUS SOCKET



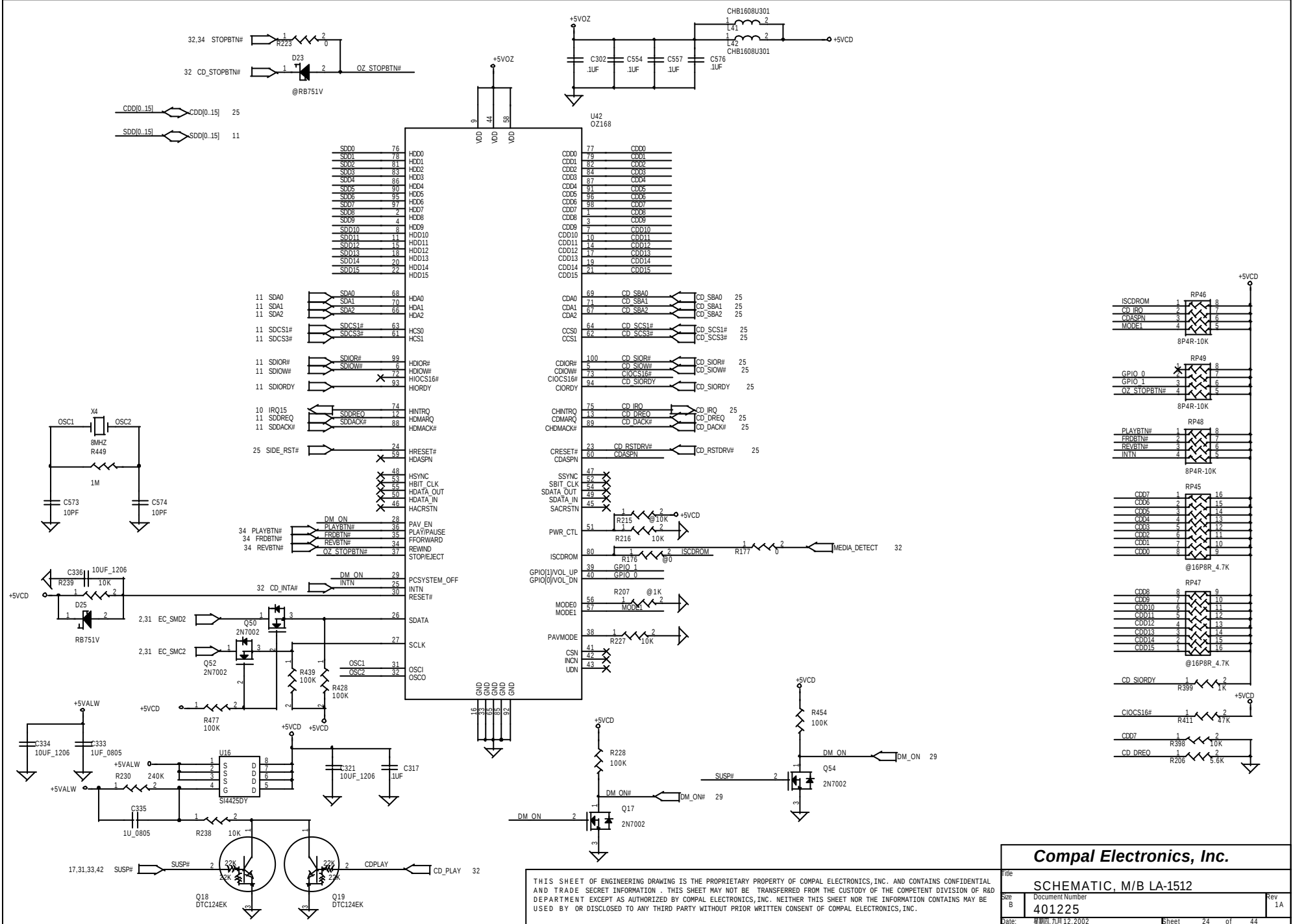


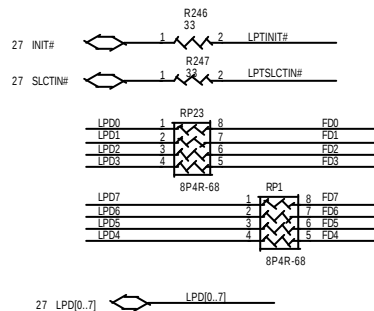
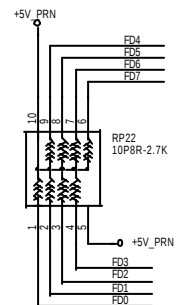
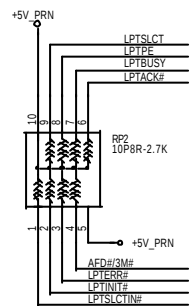
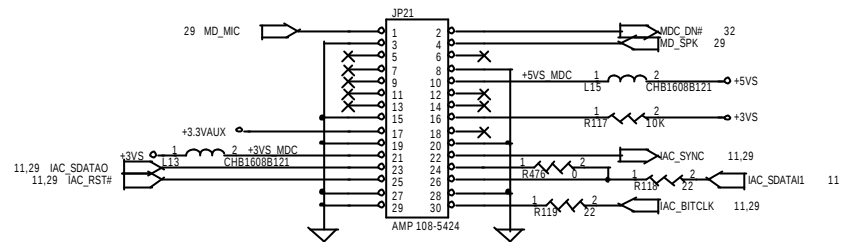
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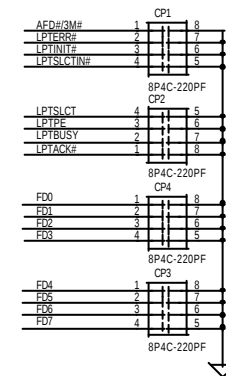
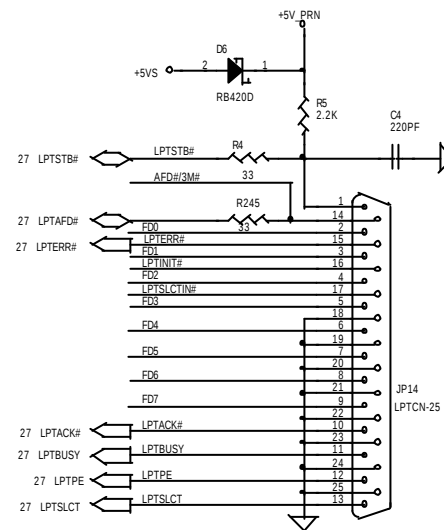
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PARALLEL PORT



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Compal Electronics, Inc.

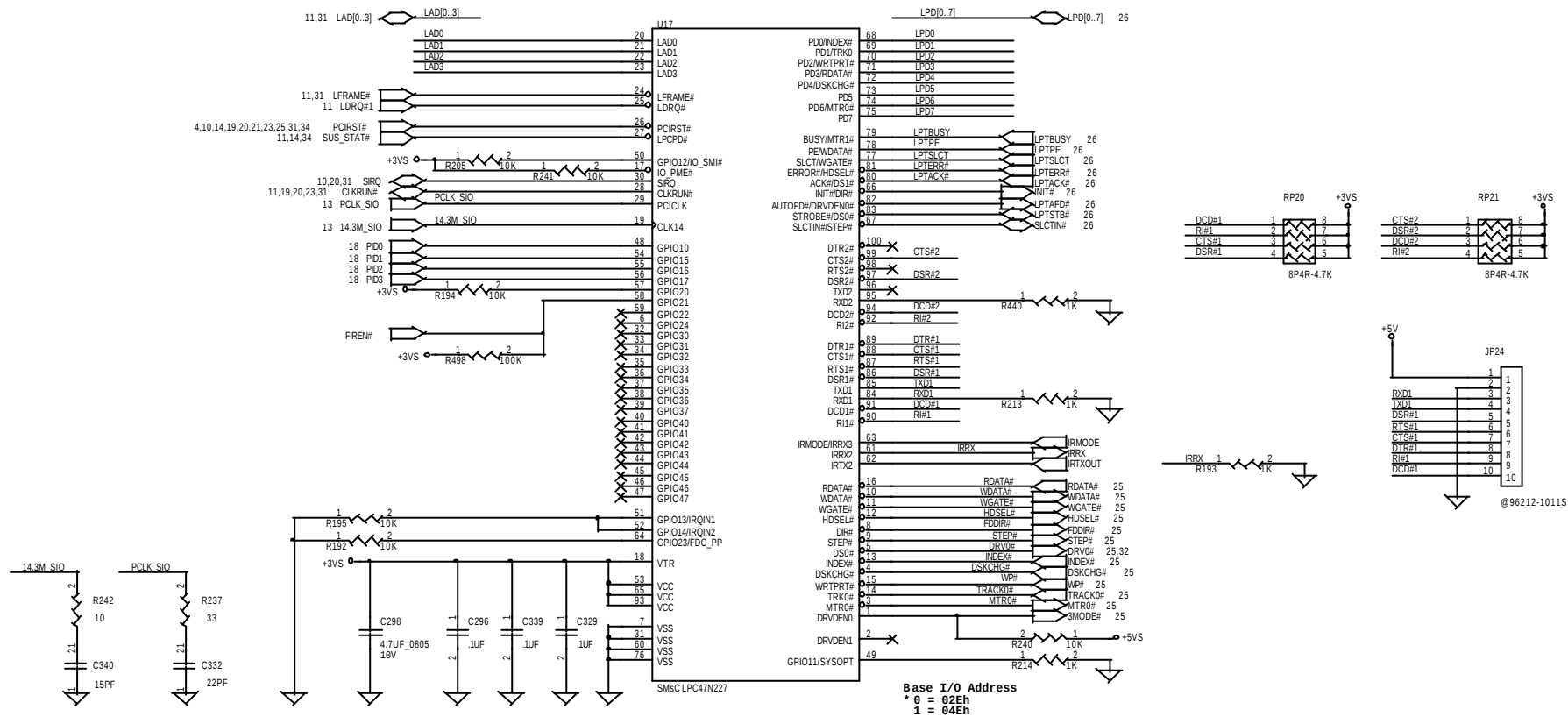
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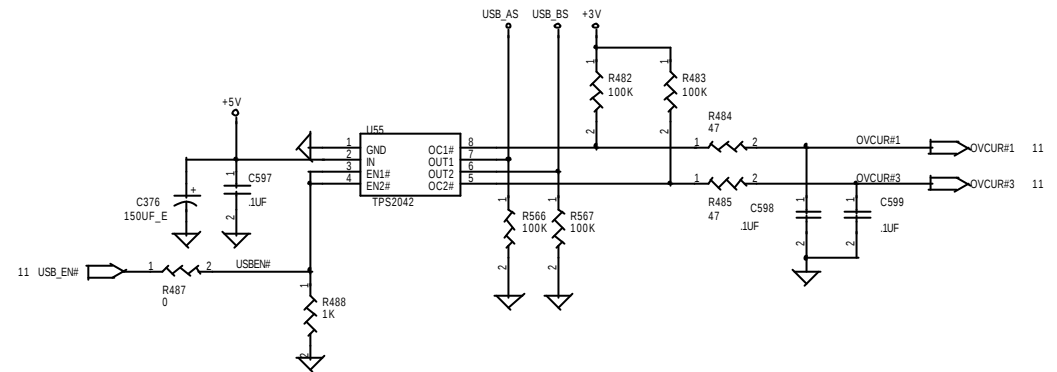
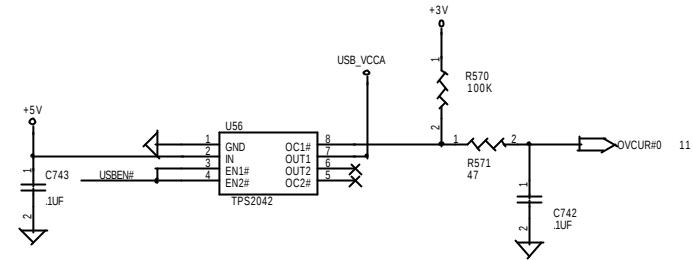
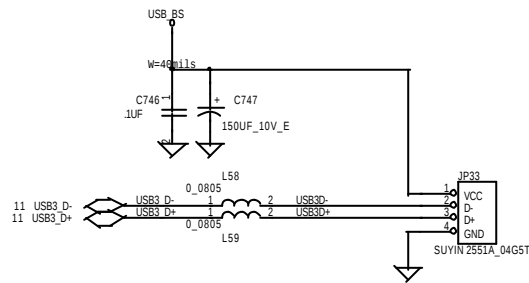
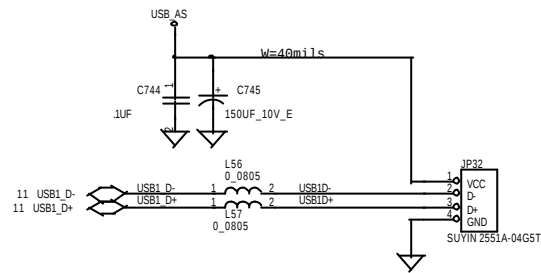
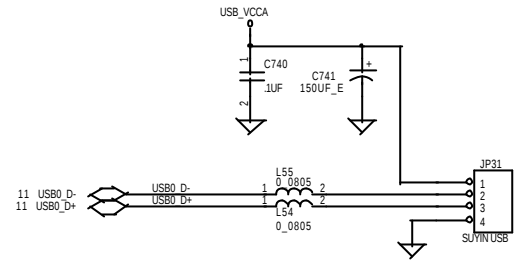
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SUPER I/O SMsC FDC47N227



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Compal Electronics, Inc.

SCHEMATIC, M/B LA-1512

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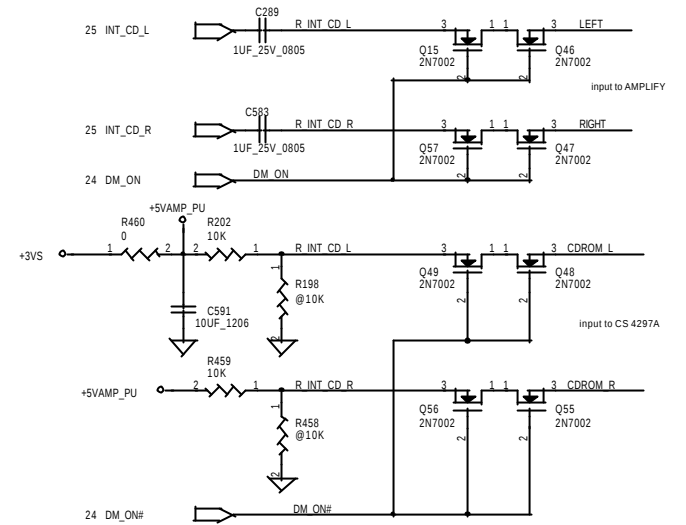
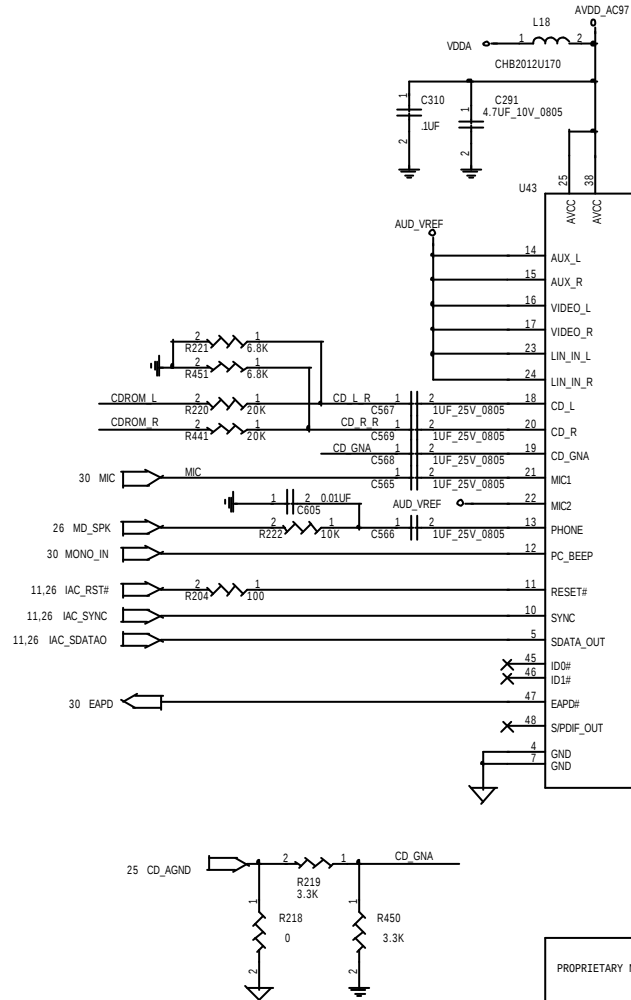
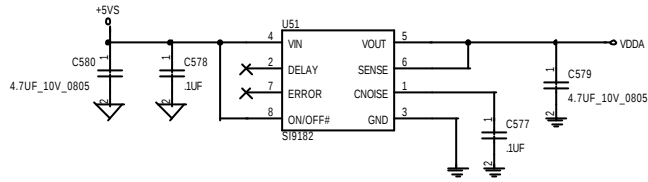
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AC97 Codec



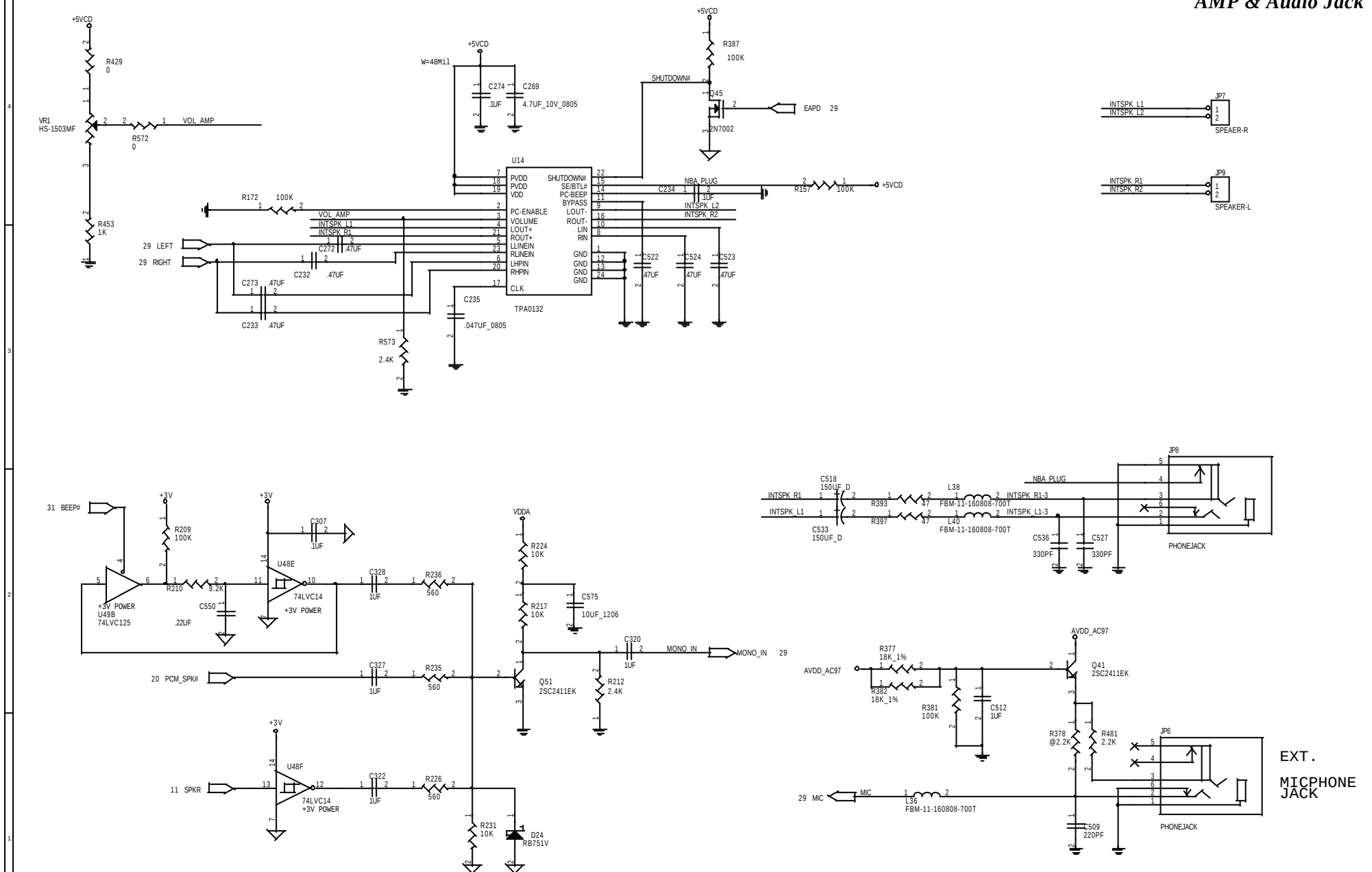
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Schematic, MBLA-1512

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AMP & Audio Jack

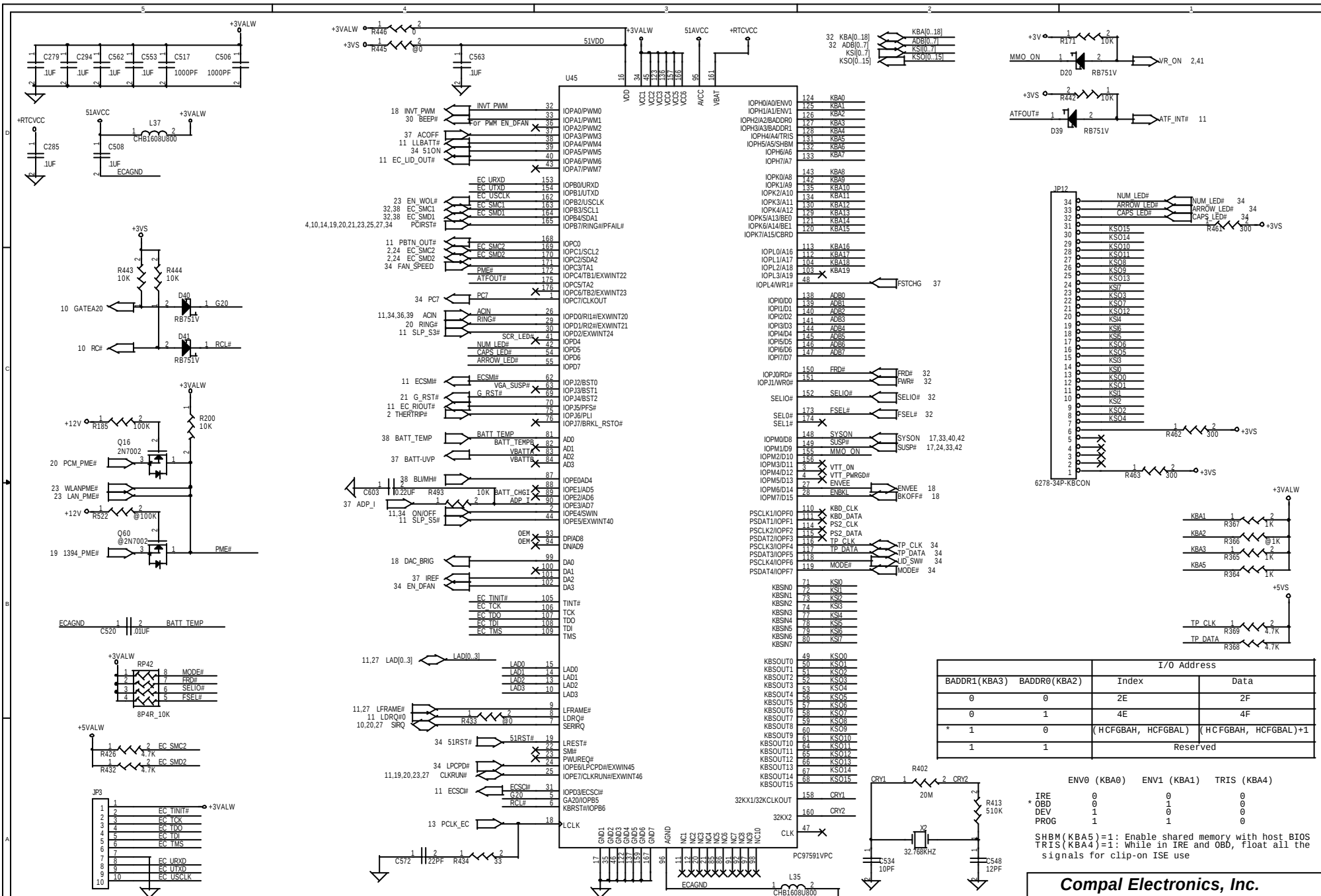


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SCHEMATIC, M/BLA-1512

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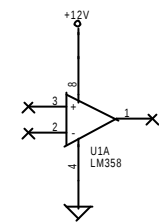
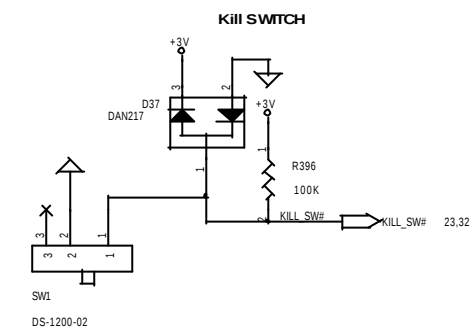
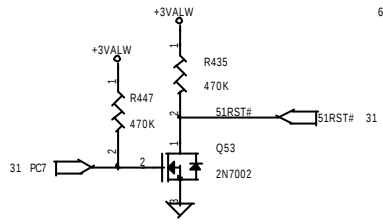
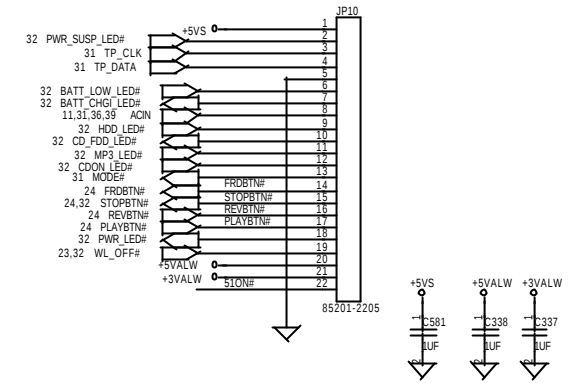
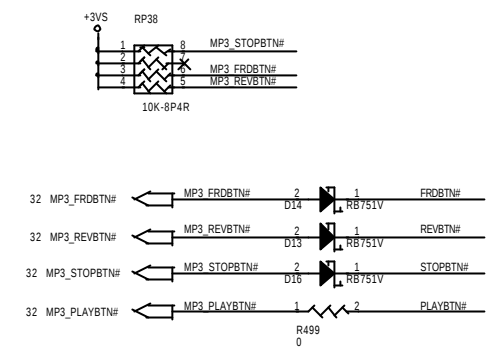
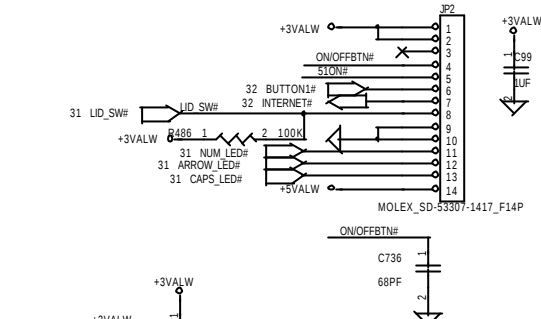
I/O Address			
BADDR1(KBA3)	BADDR0(KBA2)	Index	Data
0	0	2E	2F
0	1	4E	4F
* 1	0	(HCFGBAH, HCFGBAL) (HCFGBAH, HCFGBAL)+1	
1	1	Reserved	

	ENV0 (KBA0)	ENV1 (KBA1)	TRIS (KBA4)
IRE	0	0	0
OBD	0	1	0
DEV	1	0	0
PROG	1	1	0

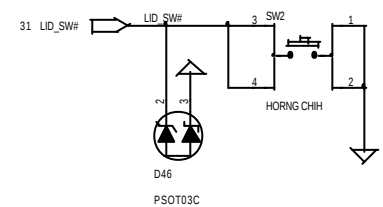
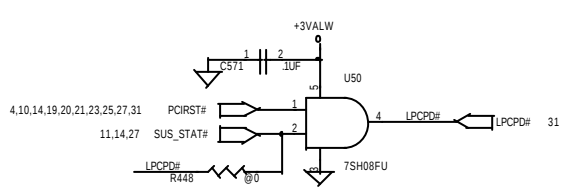
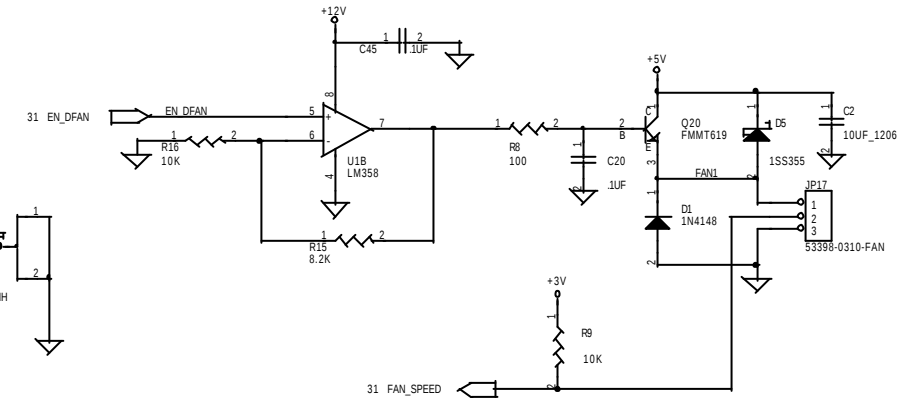
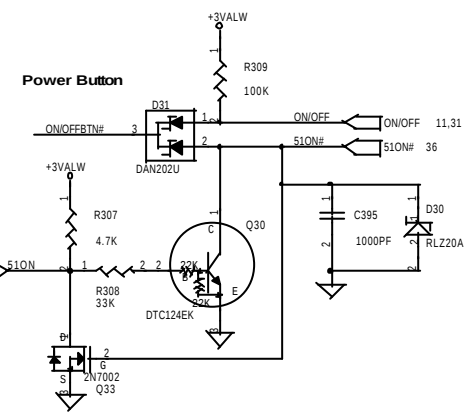
SHBM(KBA5)=1: Enable shared memory with host BIOS
 TRIS(KBA4)=1: While in IRE and OBD, float all the signals for clip-on ISE use

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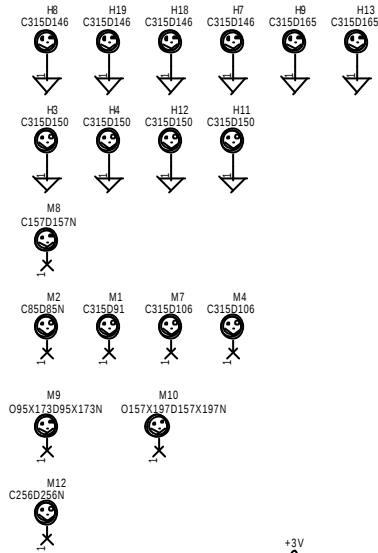
FAN CONN.



For PC87591 REV 0.A Only

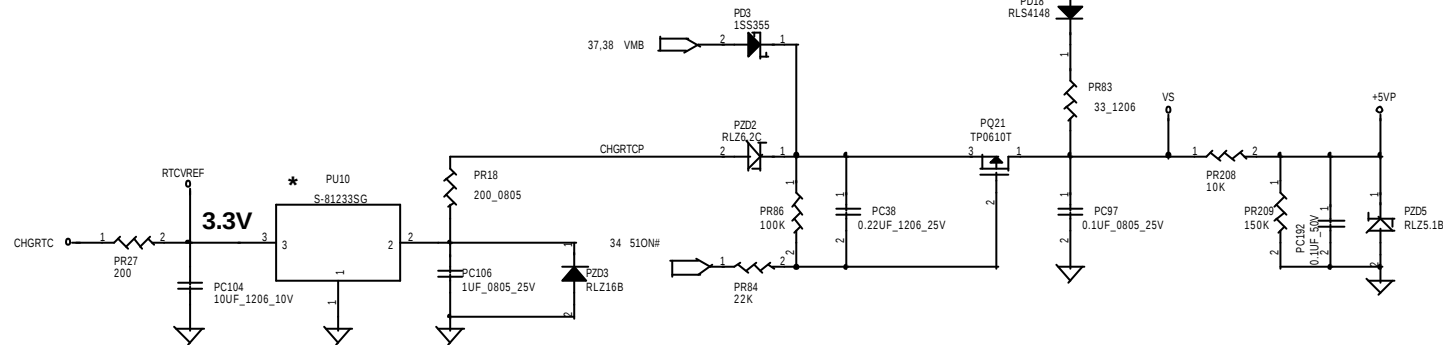
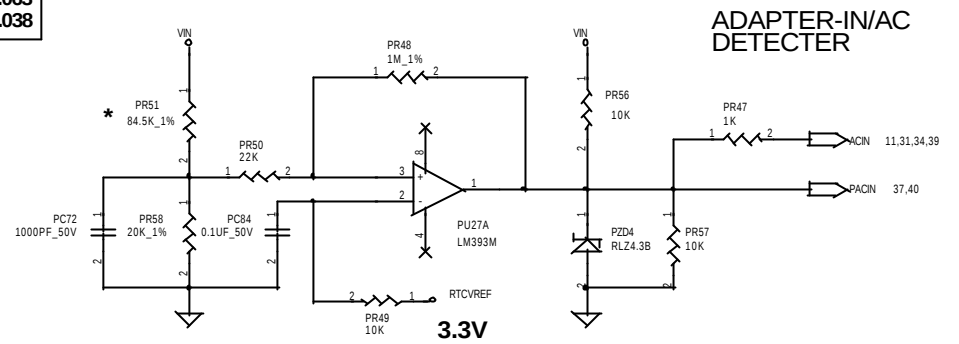
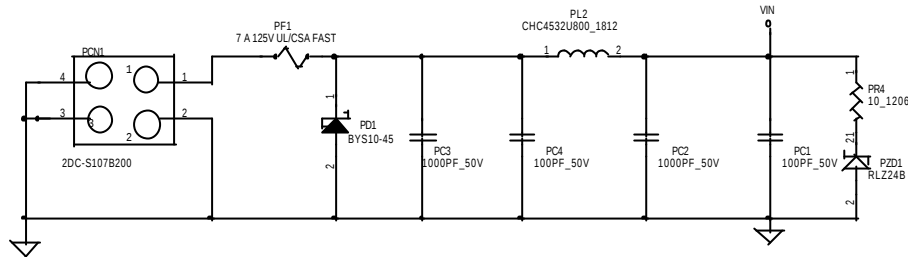
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Vin Detector

High 18.764 17.901 17.063
Low 17.745 16.903 16.038



+1.8VP 1 2 +1_8V (3A,120mils ,Via NO.= 6)

+12VALWP 2 1 +12VALW (120mA,20mils ,Via NO.= 1)

+5VALWP 1 2 +5VALW (5A,200mils ,Via NO.= 10)

+3VALWP 1 2 +3VALW (5A,200mils ,Via NO.= 10)

+1.5VP 2 1 +1_5V (3A,120mils ,Via NO.= 6)

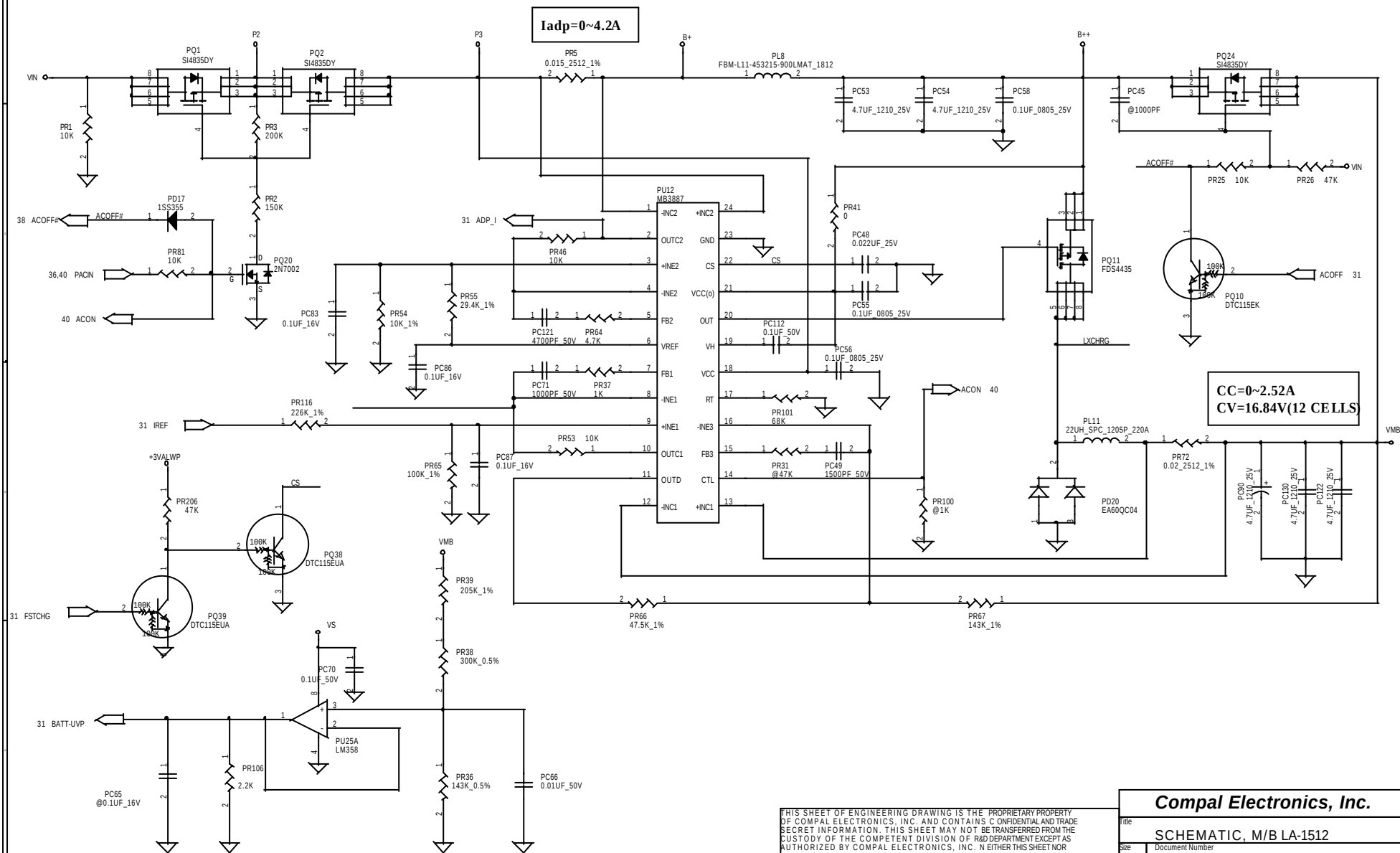
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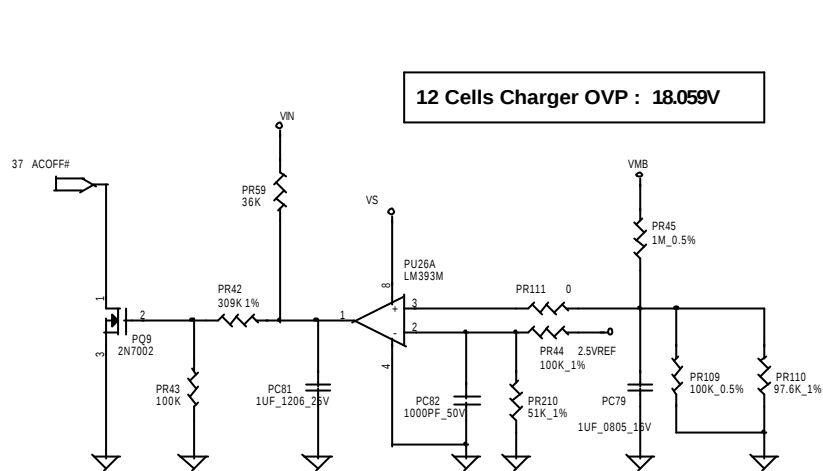
CHARGER



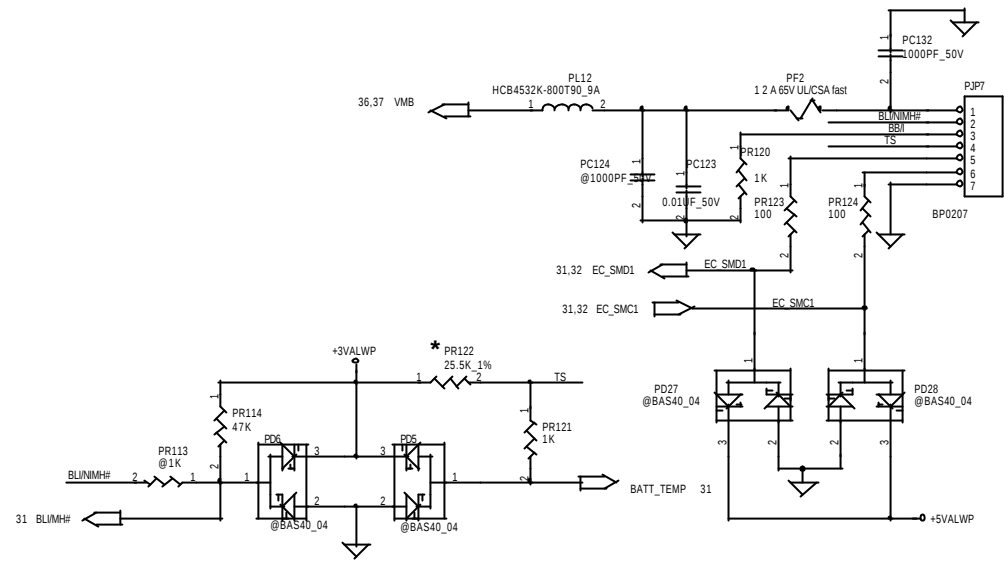
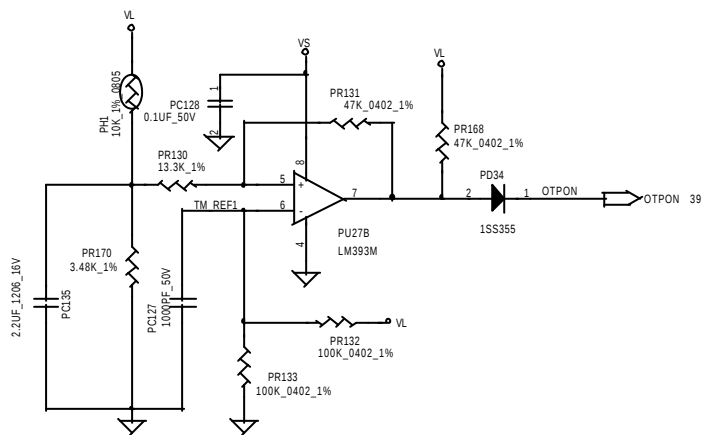
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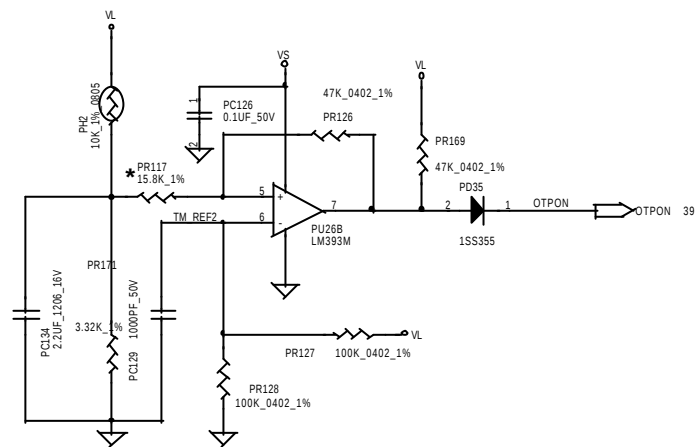
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PH1 under CPU bottom side :
CPU thermal protection at 76 degree C
Recovery at 45 degree C



PH2 near main Battery CONN :
BAT. thermal protection at 82 degree C
Recovery at 45 degree C



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+3.3V/+5V/+12V

+3.3V Ipeak = 6.66A ~ 10A

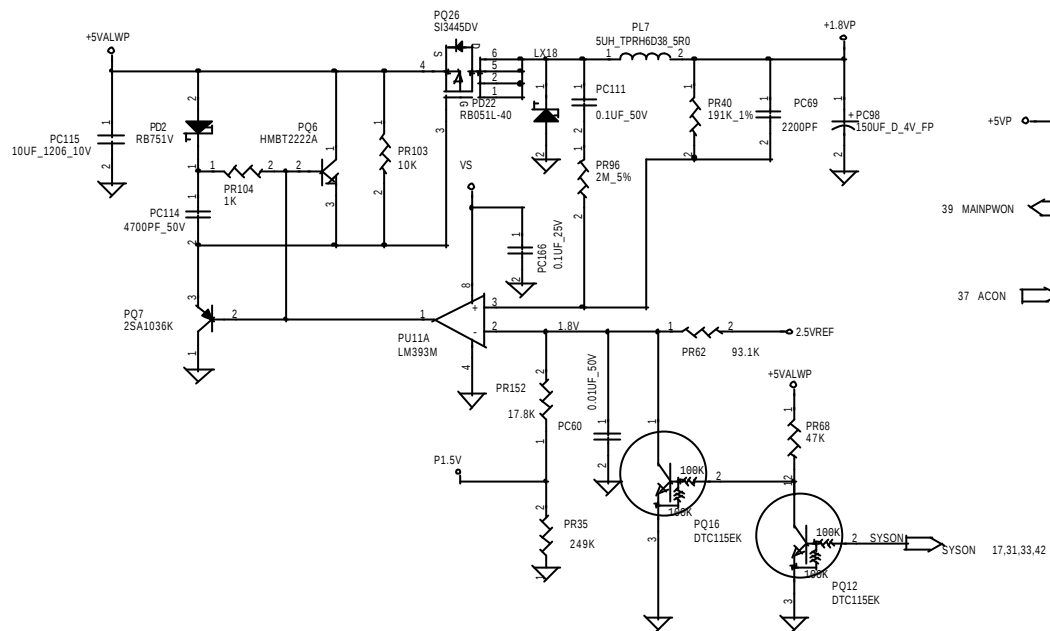
+5V Ipeak = 6.66A ~ 10A

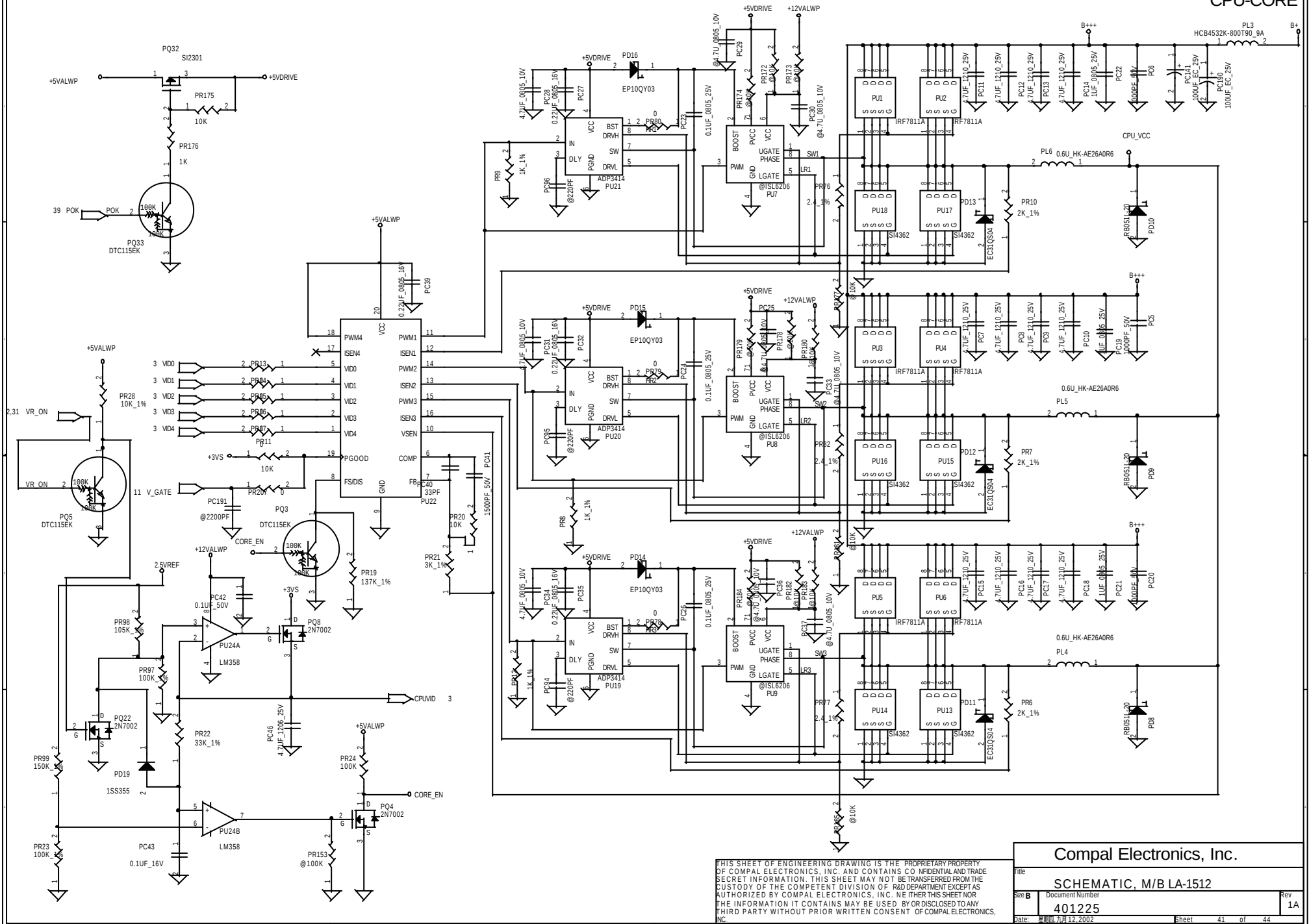
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1.8V/1.5V

+1.8VP+ -5%





ATR11 PIR LIST

HW PIR LIST

ATEST 9/6~			
1	+2.5V LEVEL ERROR	Remove R111 100ohm Change R388 from 388 to 0 ohm	P15
2	SDRAM BANK select error	Change CLK_SDRAM3 from U22.F3 to U22.E3 Change CLK_SDRAM5 from U22.H5 to U22.G5 Change RRAS#3 from U22.H7 to U22.F7 Change RRAS#5 from U22.G6 to U22.H6	P5
3	Add CPU VCCVID pin	Add R492 connect to U23.AF3	P3
4	TV OUT output error	Change CRMA from U8.AF15 to U8.AF16 Change LUMA from U8.AF16 to U8.AF15	P12
5	Add MK1787 output terminate Add low pass filter for	Add R494 22 ohm	P12
6	MK1787 power pin	Add L47	P12
7	Change VGA option resistor to jumper	Change R284 to J3 Change R286 to J4 Change R295 to J5 Change R296 to J6	P15
8	Reserve +2.5V option control	Add R495 for SYSON control Add R496 for SUSP control	P15
9	Change LCD connector type	Change JP1	P16
10	Add TI TPS2842 for USB protect circuit	Add U56(TPS2842)	P25

BTEST			

PWR PIR LIST

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