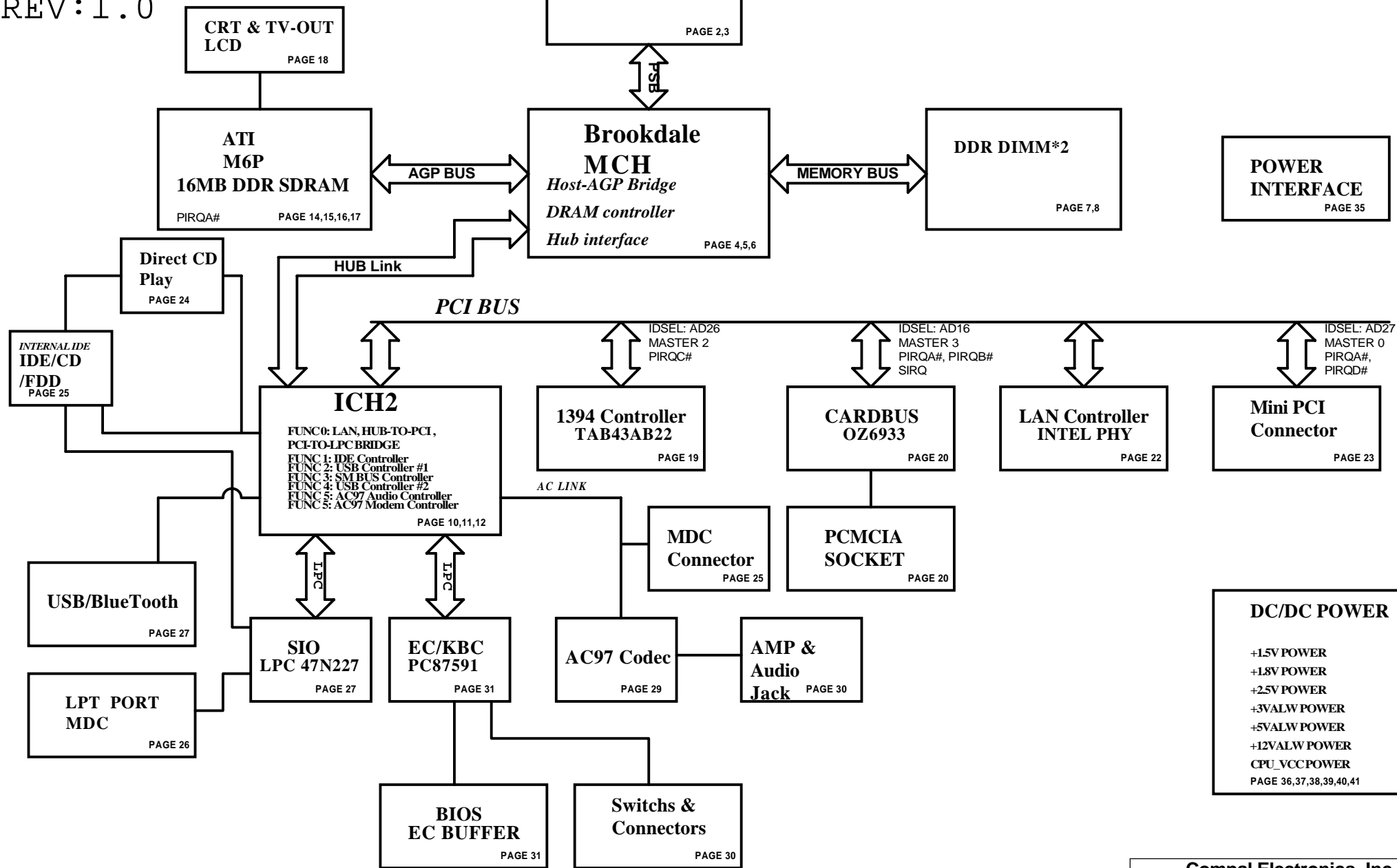
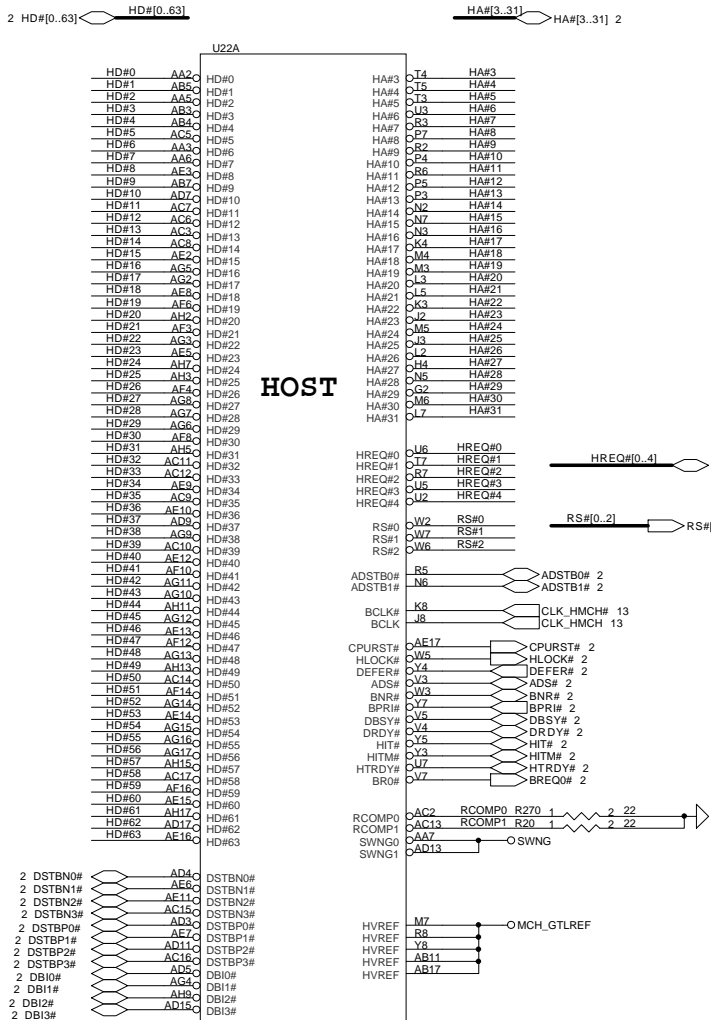


COMPAL CONFIDENTIAL
 MODEL NAME : ATR11 LA-1391
 REV: 1.0



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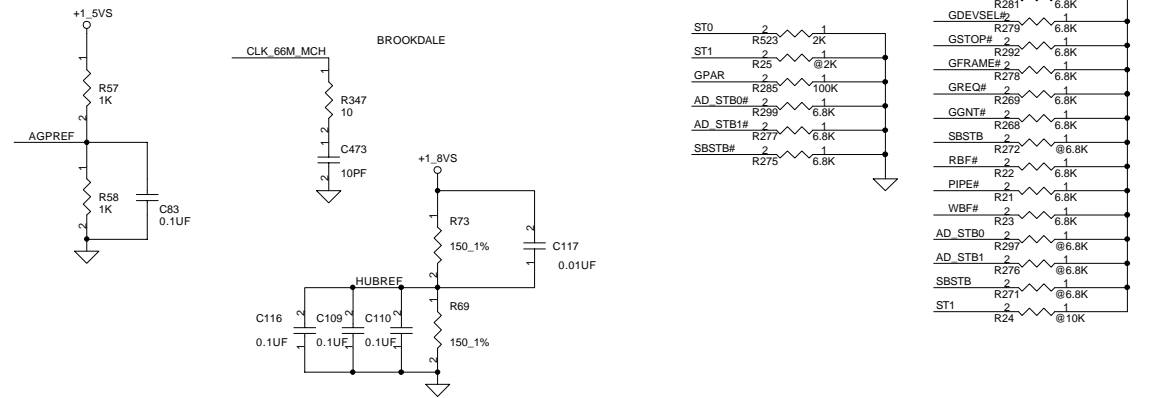
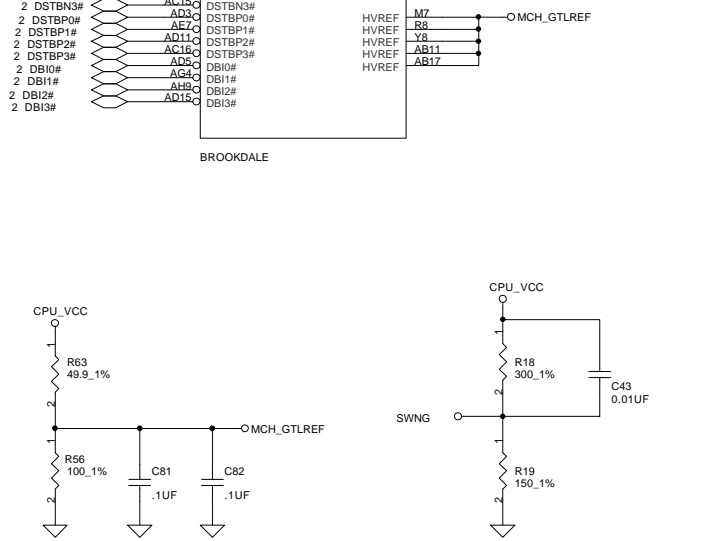
Compal Electronics, Inc.		
Title	SCHEMATIC, M/B LA-1391	
Size	Document Number	Rev
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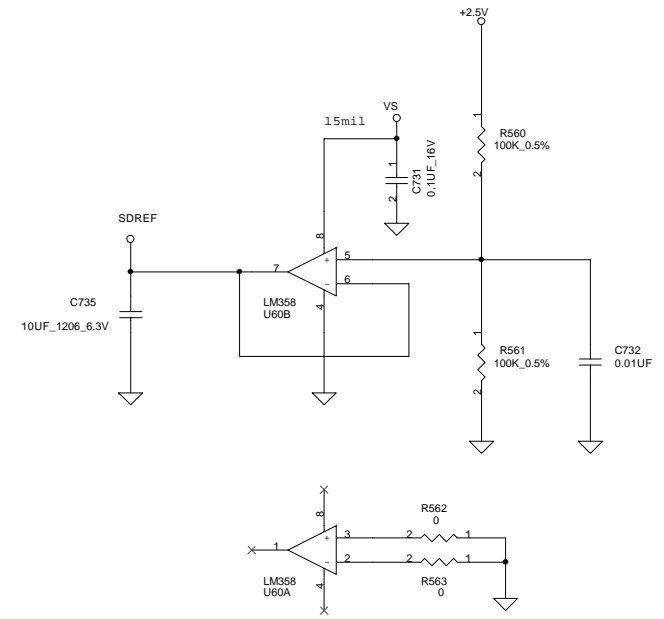
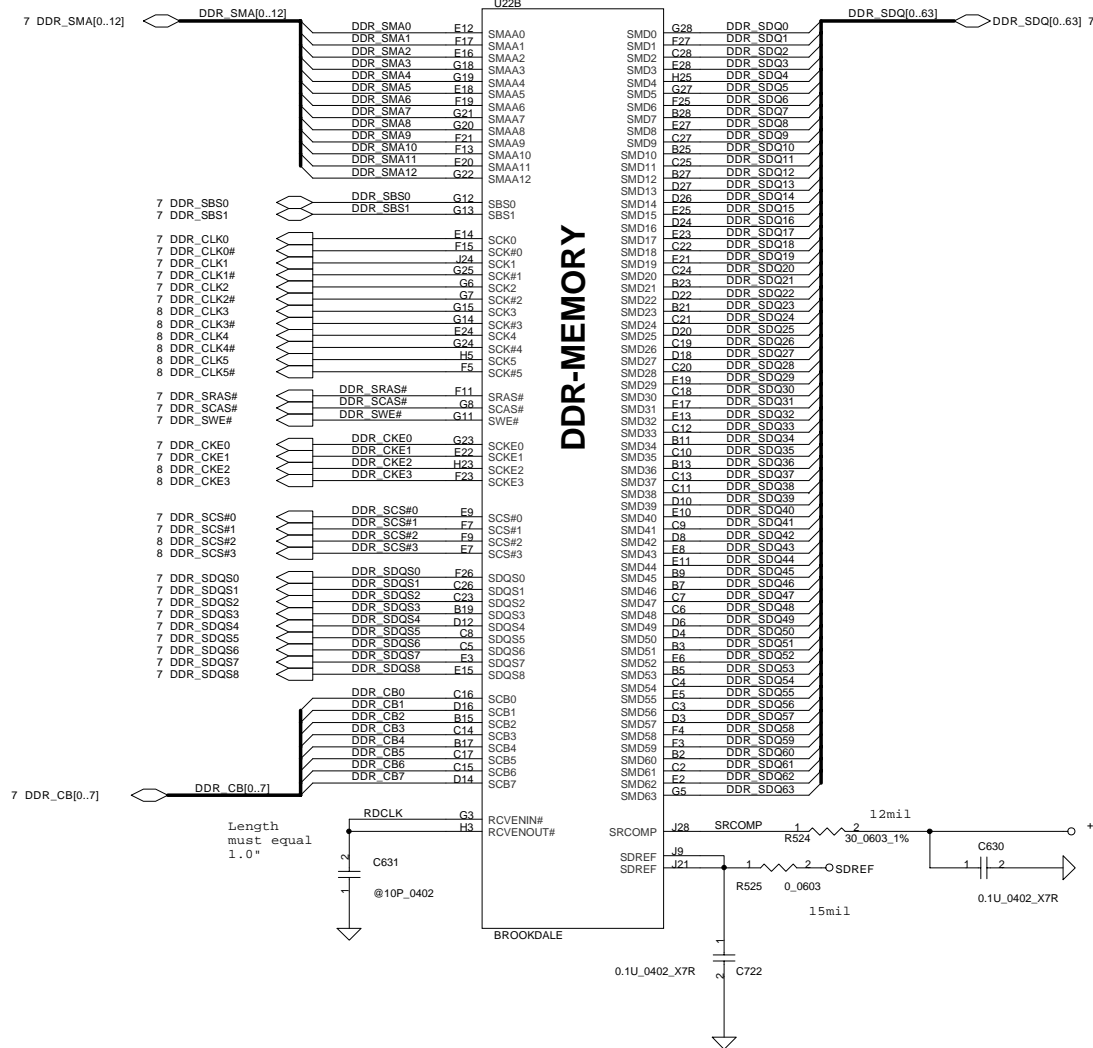
HOST

AGP

HUB

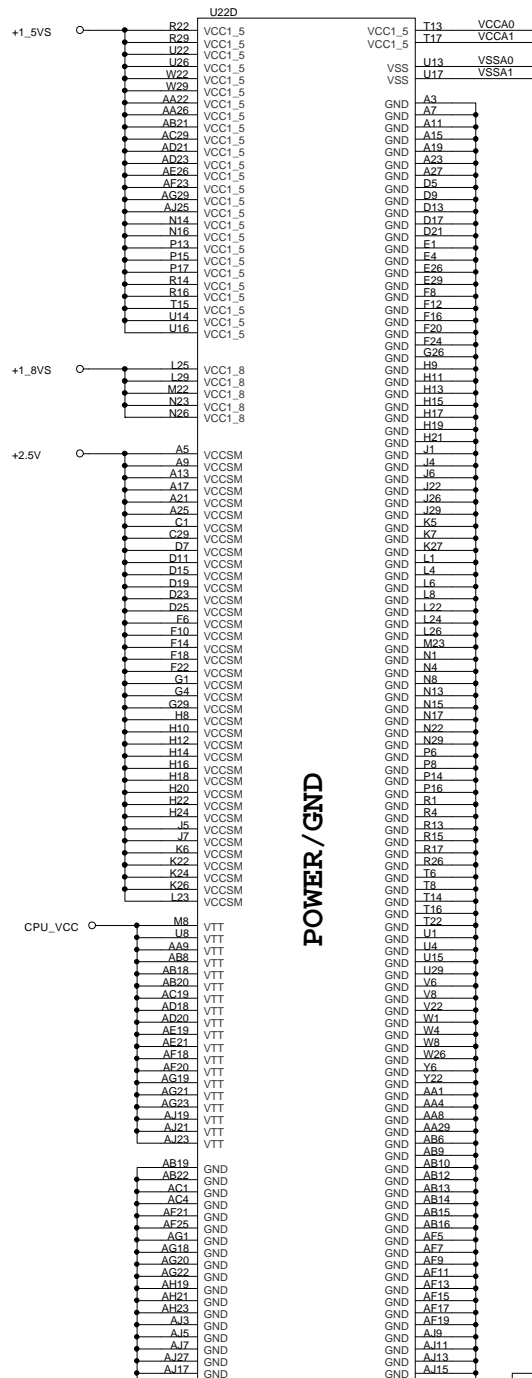


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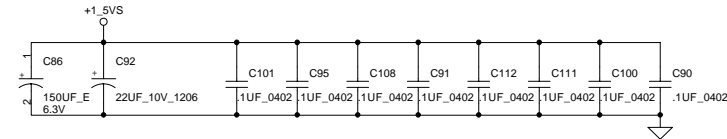
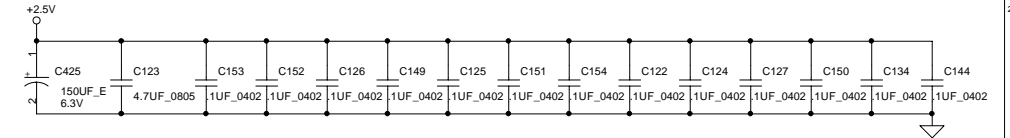
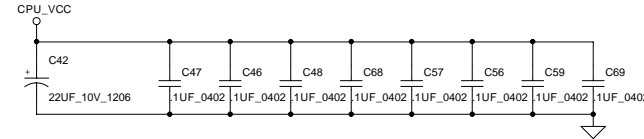
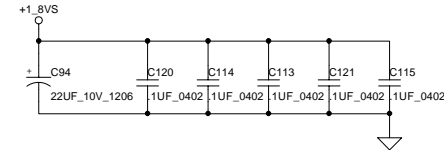
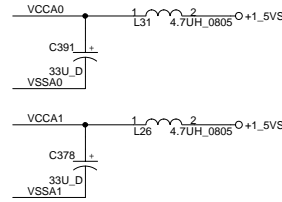


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POWER / GND

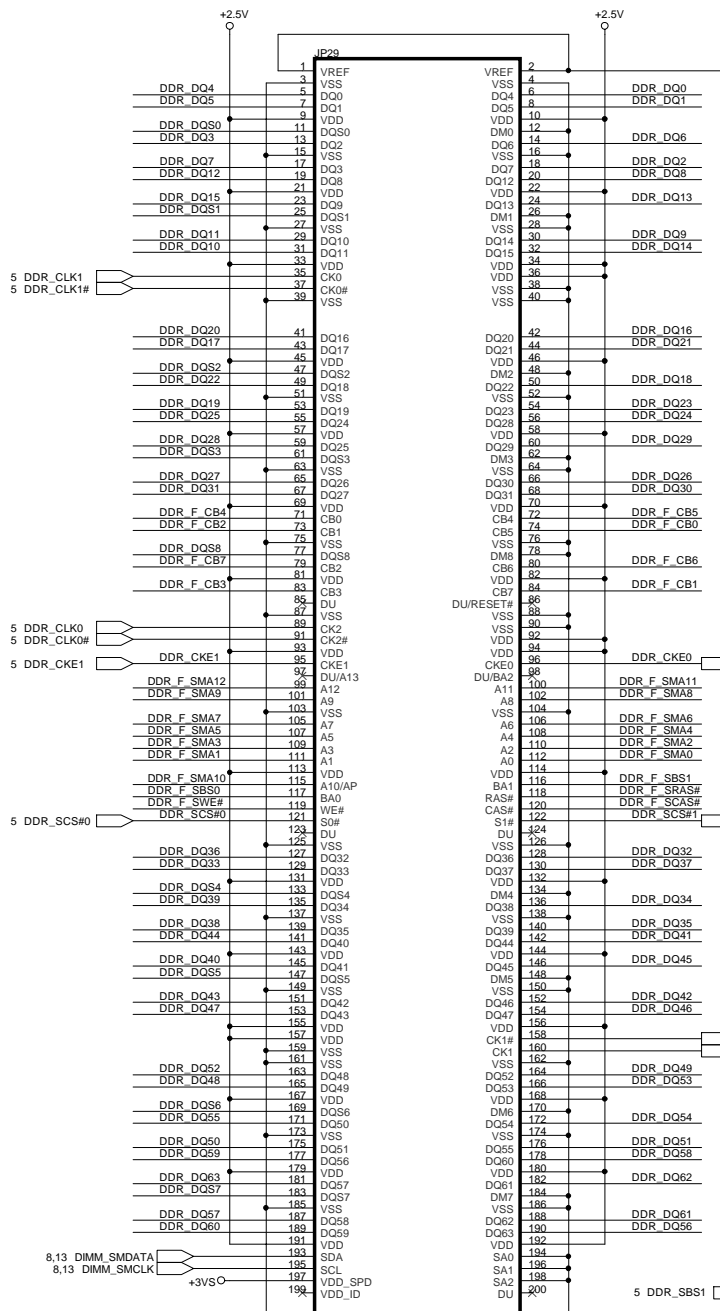
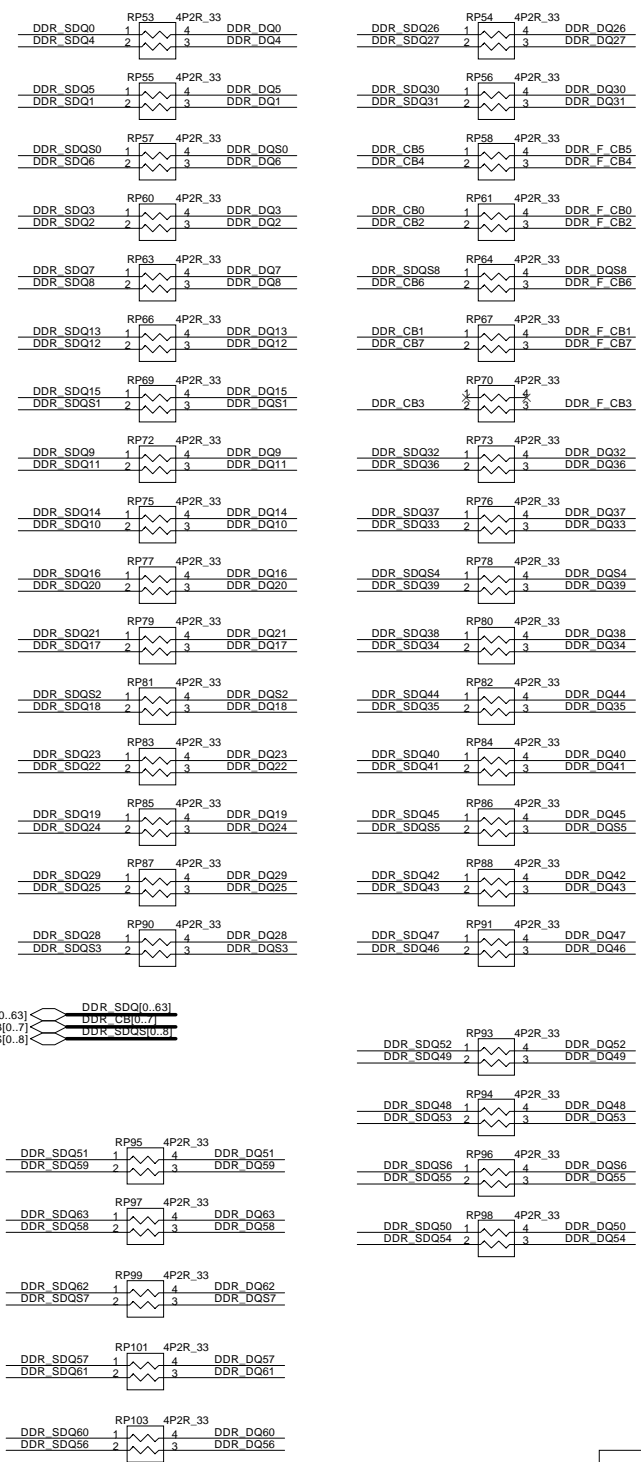


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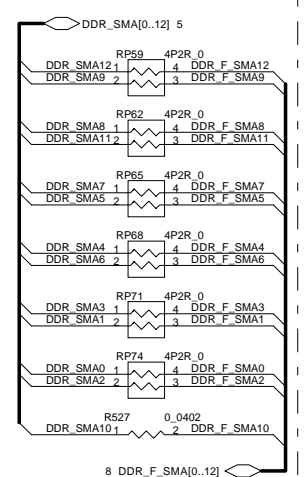
Compal Electronics, Inc.		
Title	SCHEMATIC, M/B LA-1391	
Size	Document Number	Rev
B	401211	B
Date:	星期二, 十一月 26, 2002	Sheet 6 of 44

Layout note

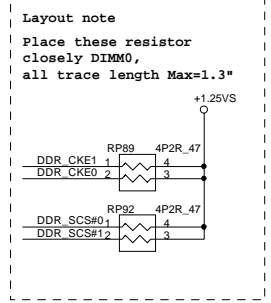
Place these resistor closely DIMMO, all trace length<750mil



DIMMO (STD)
 Top side



Layout note
 Place these resistor closely DIMMO, all trace length<=750mil



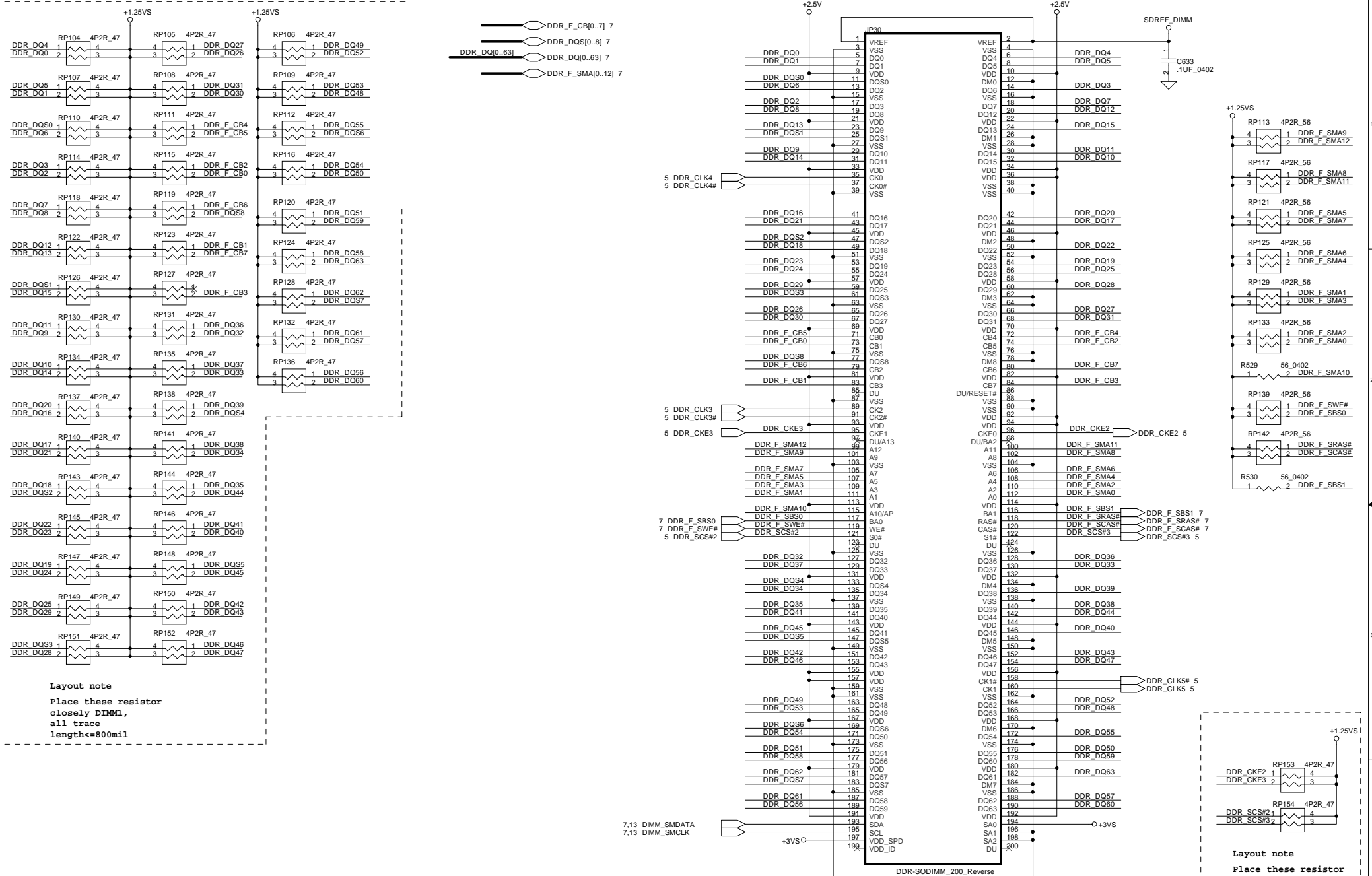
Layout note
 Place these resistor closely DIMMO, all trace length<=750mil

Compal Electronics, Inc.

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Layout note
Place these resistor closely DIMM1, all trace length<=800mil

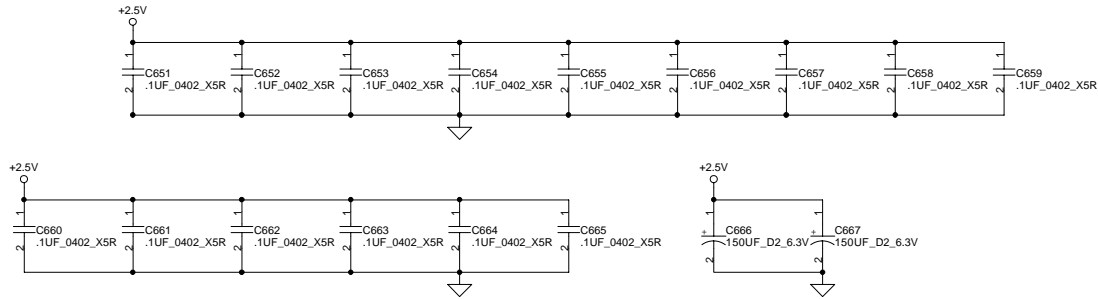
Layout note
Place these resistor closely DIMM1, all trace length Max=1.3"

DIMM1 (REV)
Bottom side

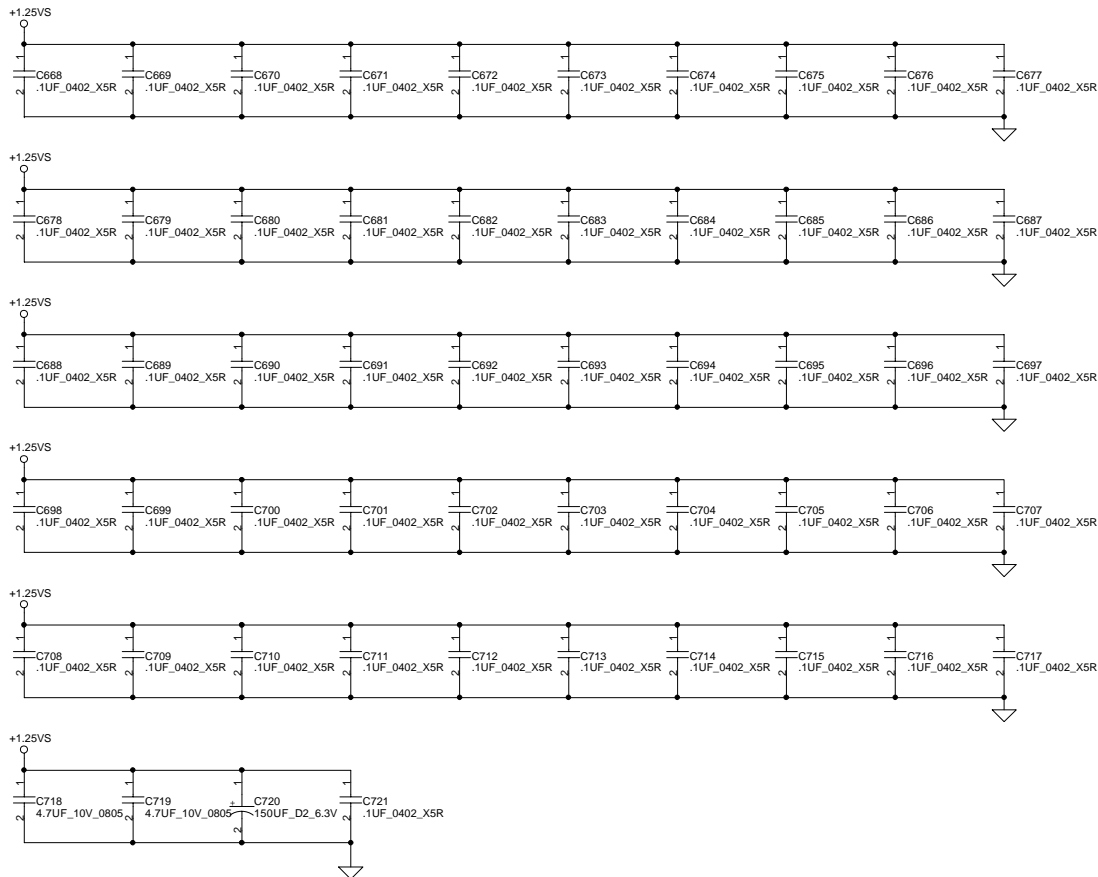
Title			Compal Electronics, Inc.	
Size			SCHEMATIC, M/B LA-1391	
Date			401211	
Date			Rev 1B	

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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

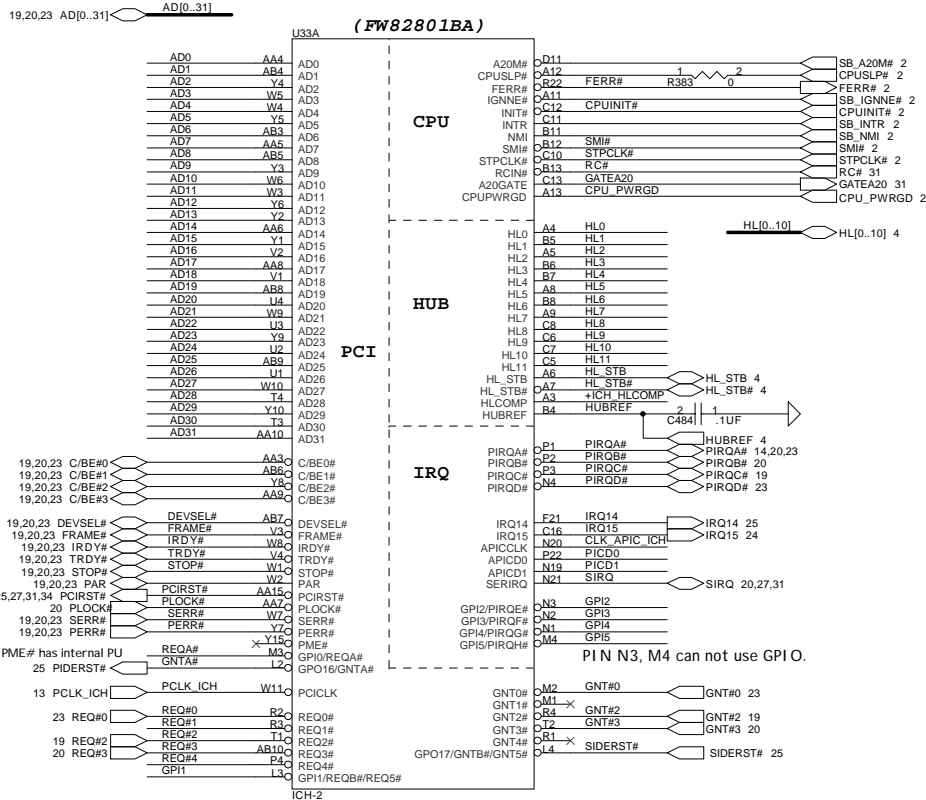


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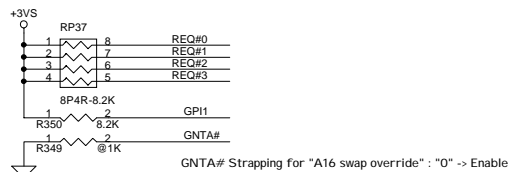
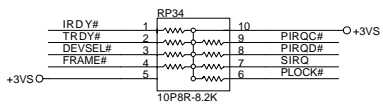
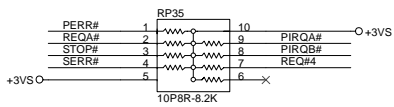
Compal Electronics, Inc.		
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SCHEMATIC, M/B LA-1391		
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ICH-2

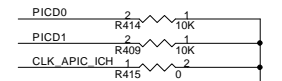
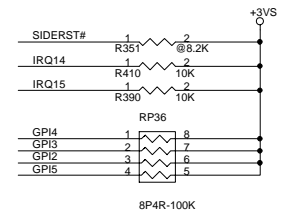
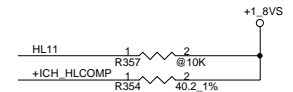
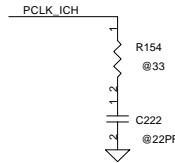
(FW82801BA)



PCI Pullups



REQ#	Assignment
REQ#0	WLAN
REQ#1	NC
REQ#2	1394
REQ#3	PCMCIA CONTROLLER
REQ#4	NC



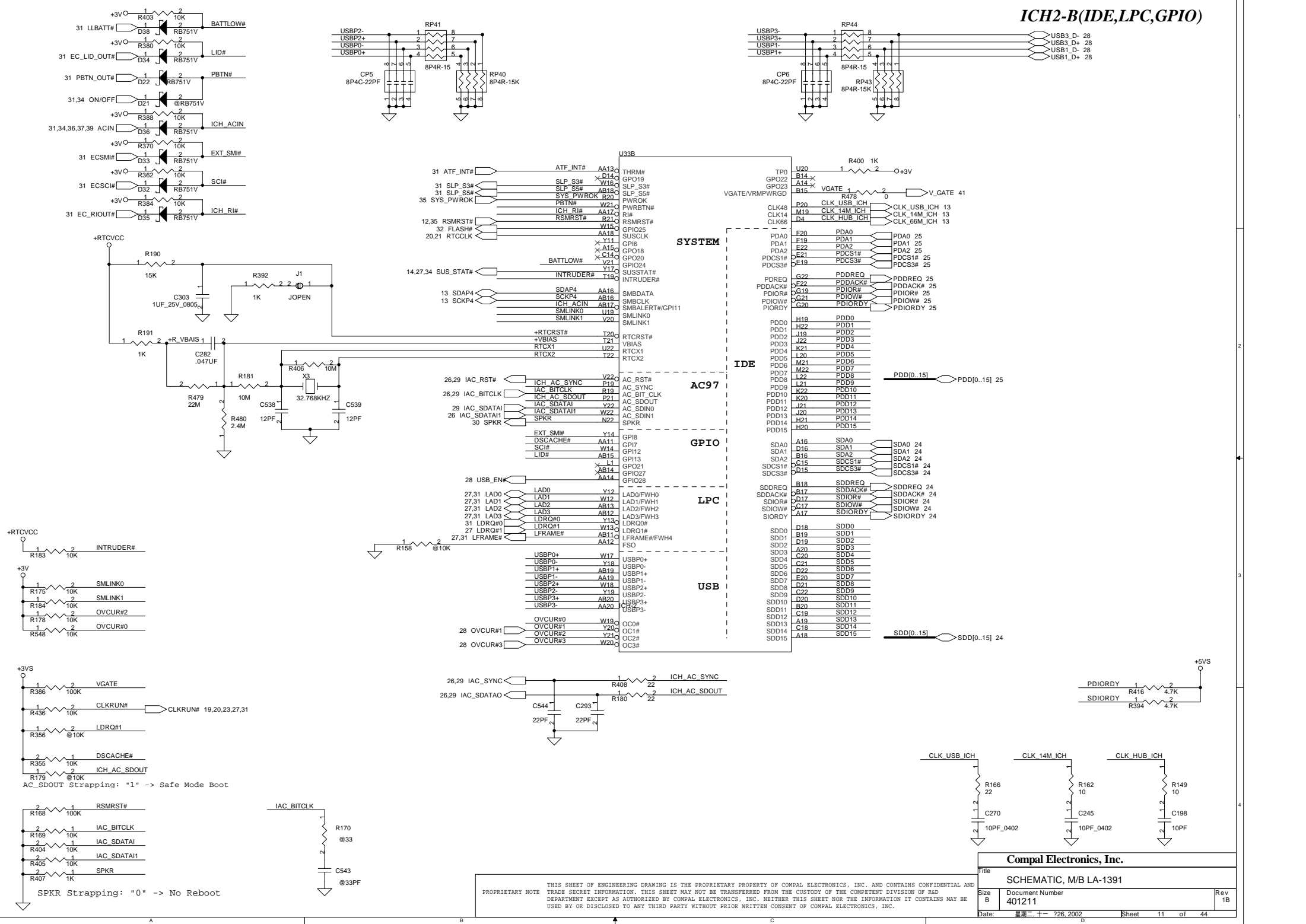
Compal Electronics, Inc.

SCHEMATIC, M/B LA-1391

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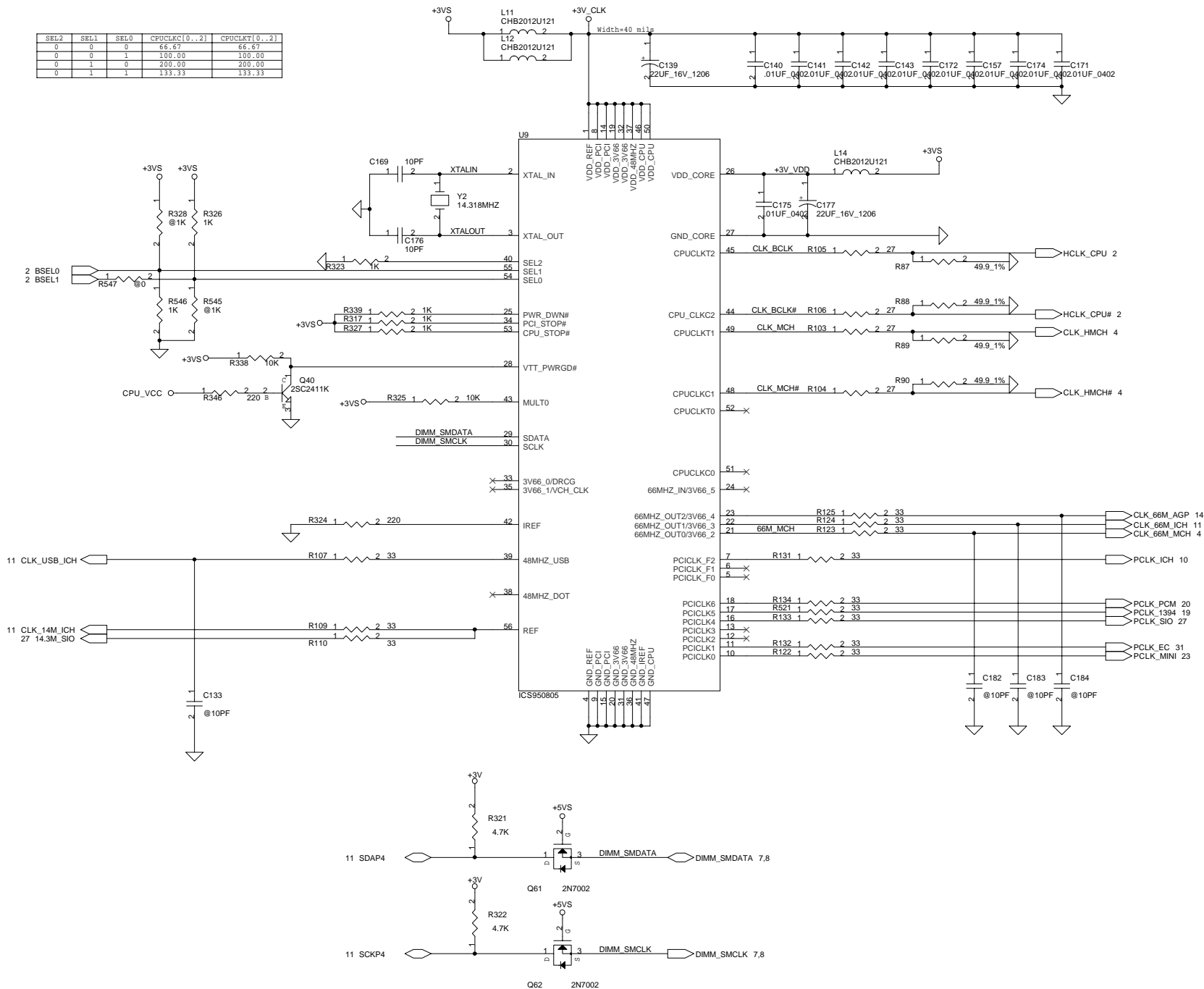
ICH2-B(IDE,LPC,GPIO)



Compal Electronics, Inc.		
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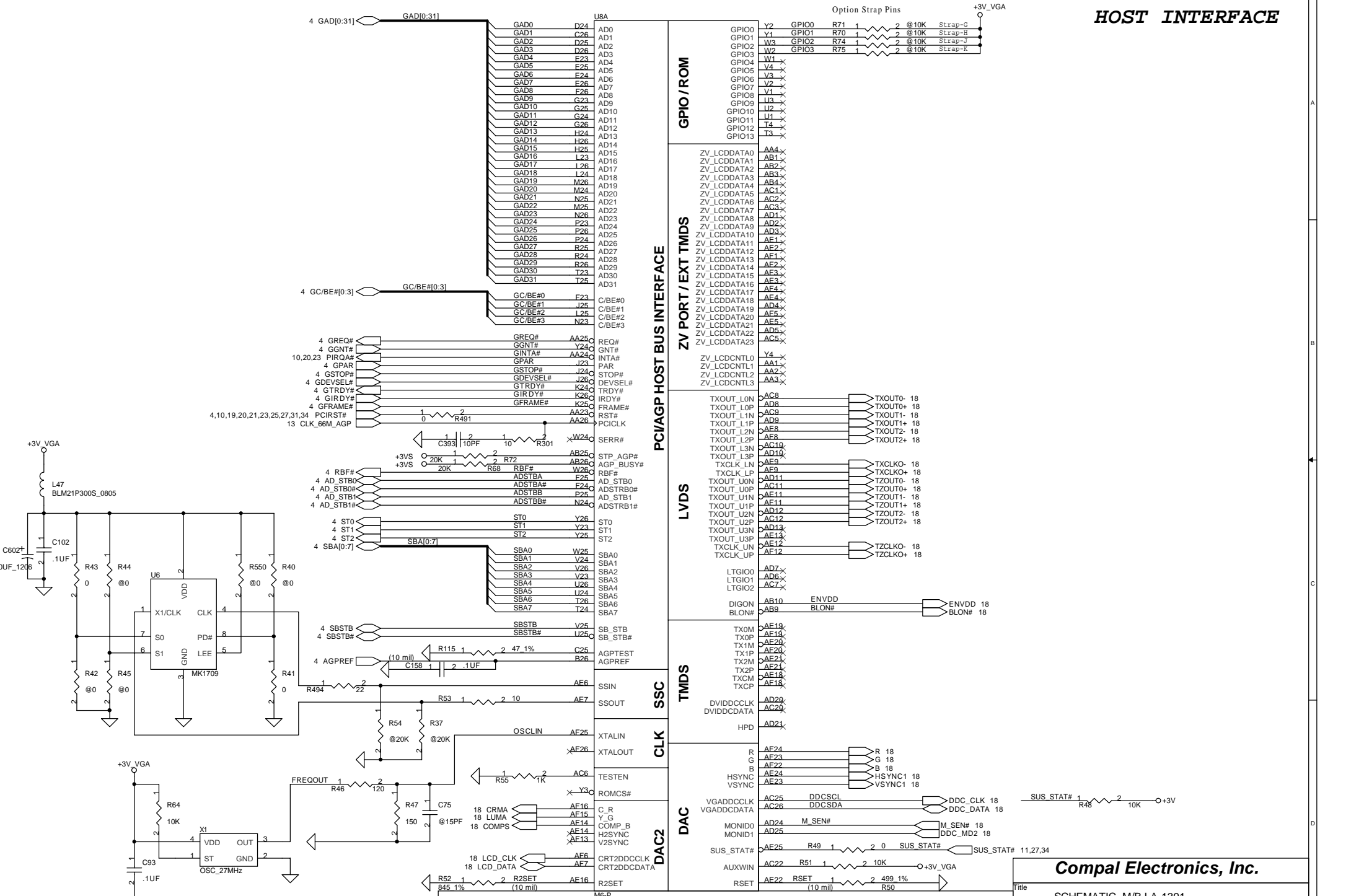
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0	0	0	56.57	56.57
0	0	1	100.00	100.00
0	1	0	200.00	200.00
0	1	1	133.33	133.33



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HOST INTERFACE



Compal Electronics, Inc.

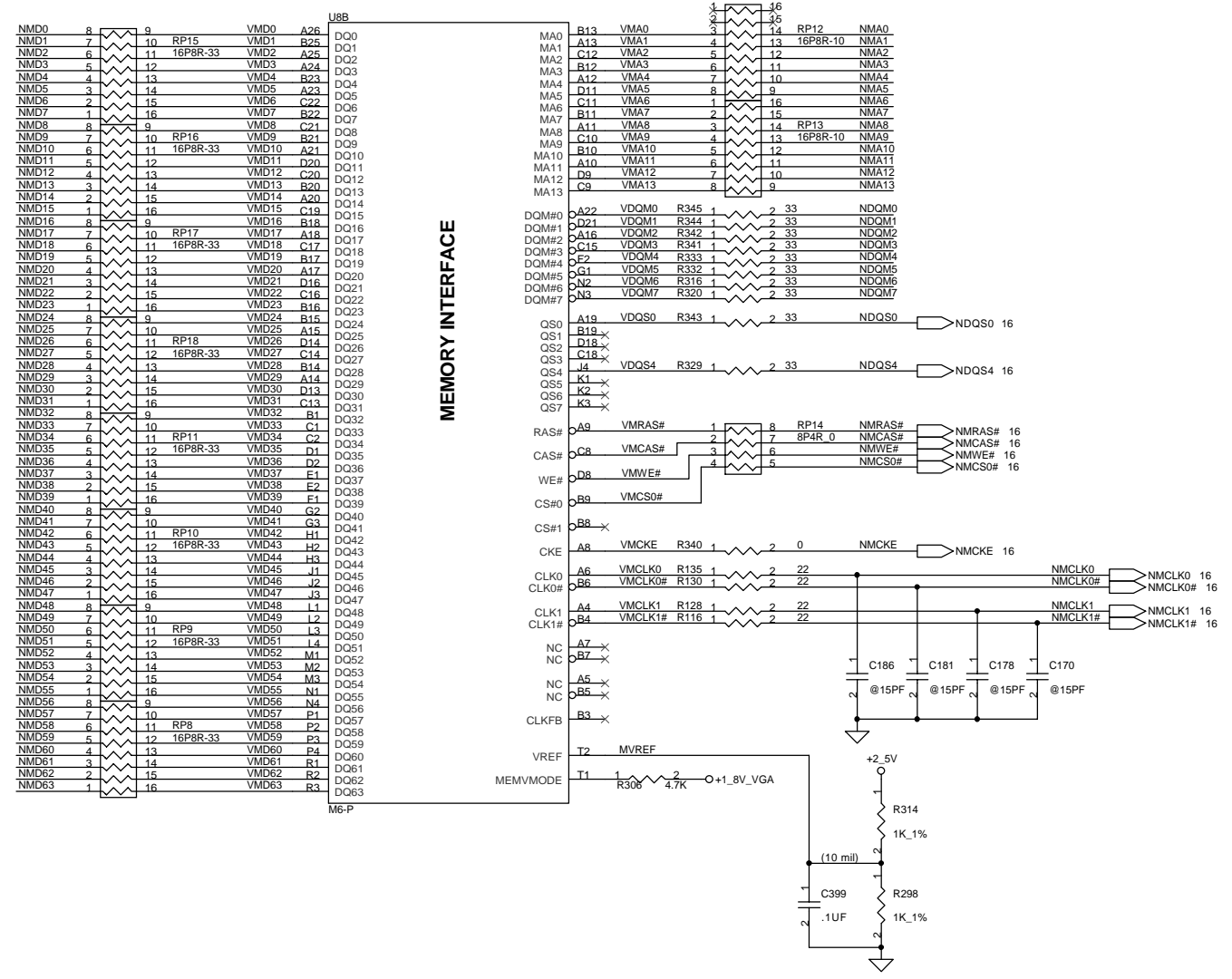
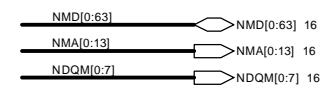
Title: SCHEMATIC, M/B LA-1391

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MEMORY INTERFACE

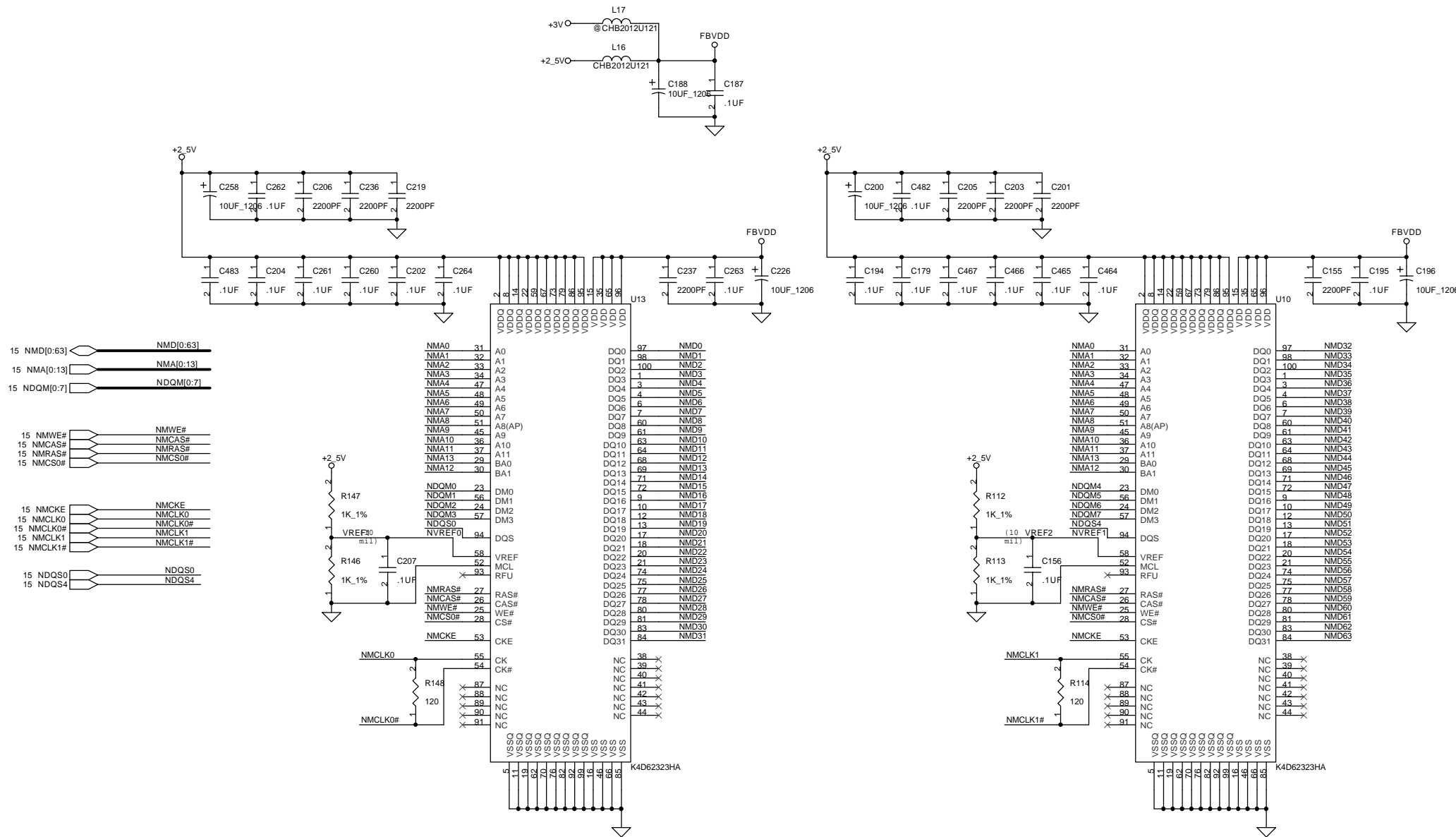


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- 15 NMD[0:63] → NMD[0:63]
- 15 NMA[0:13] → NMA[0:13]
- 15 NDQM[0:7] → NDQM[0:7]
- 15 NMWE# → NMWE#
- 15 NMCAS# → NMCAS#
- 15 NMRAS# → NMRAS#
- 15 NMCS0# → NMCS0#
- 15 NMCKE → NMCKE
- 15 NMCKL0 → NMCKL0
- 15 NMCKL0# → NMCKL0#
- 15 NMCKL1 → NMCKL1
- 15 NMCKL1# → NMCKL1#
- 15 NDQS0 → NDQS0
- 15 NDQS4 → NDQS4

- 15 NMCKE → NMCKE
- 15 NMCKL0 → NMCKL0
- 15 NMCKL0# → NMCKL0#
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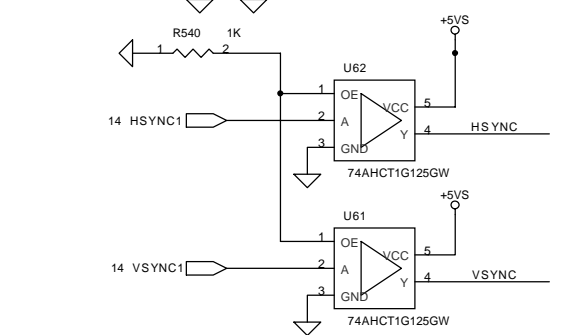
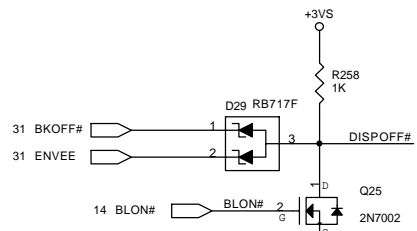
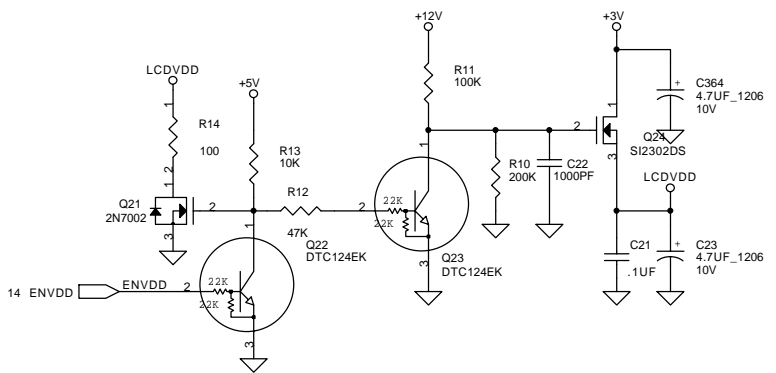
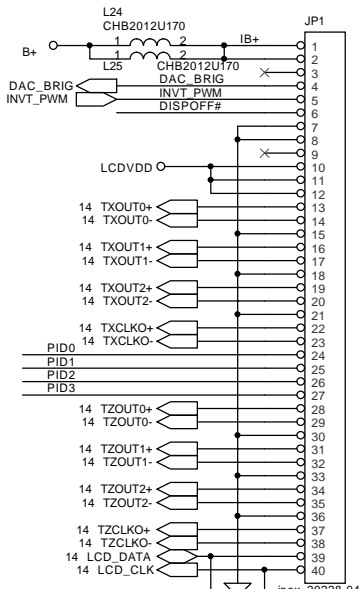
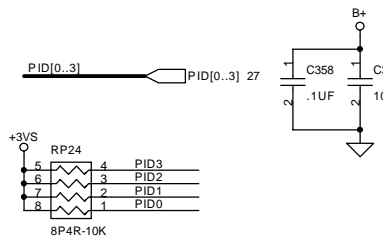
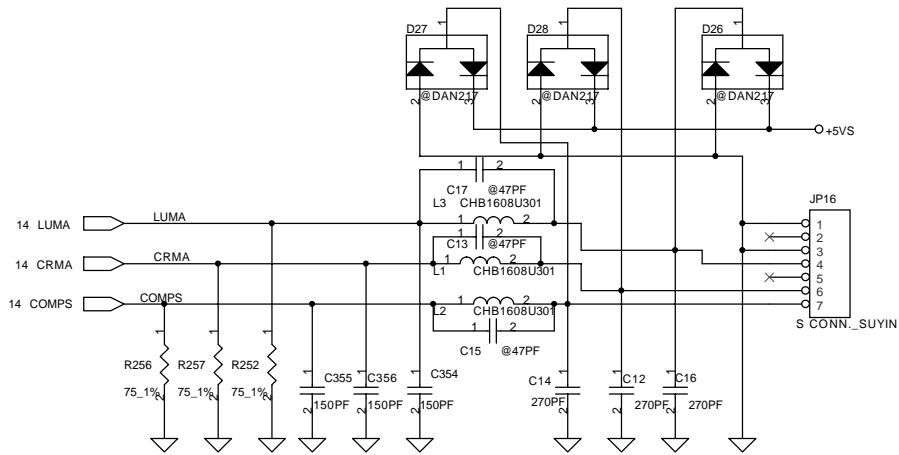
Compal Electronics, Inc.

Title: SCHEMATIC, M/B LA-1391

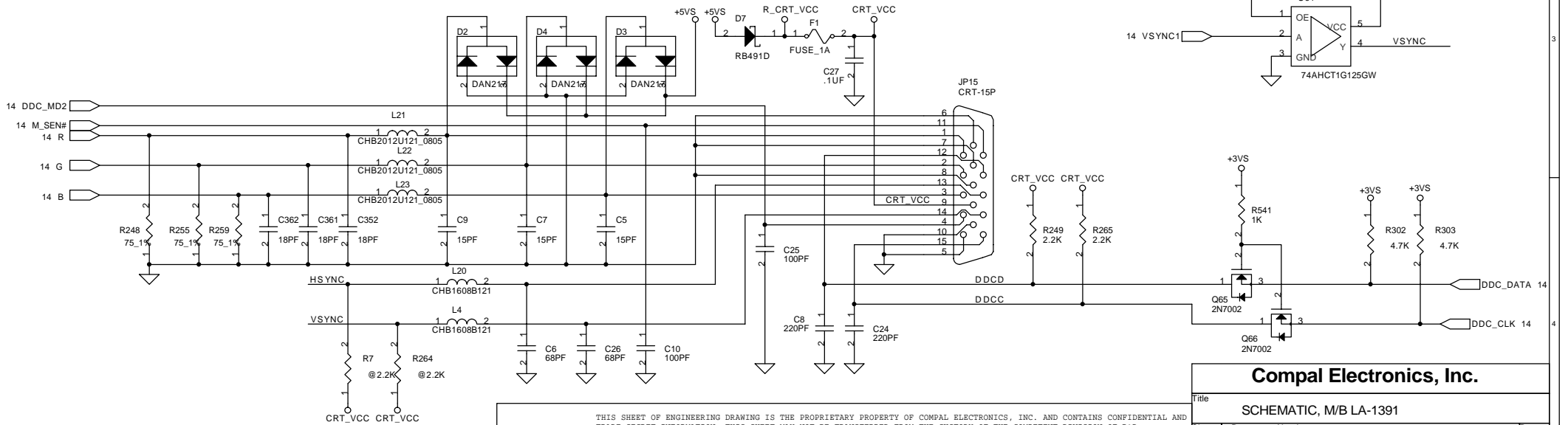
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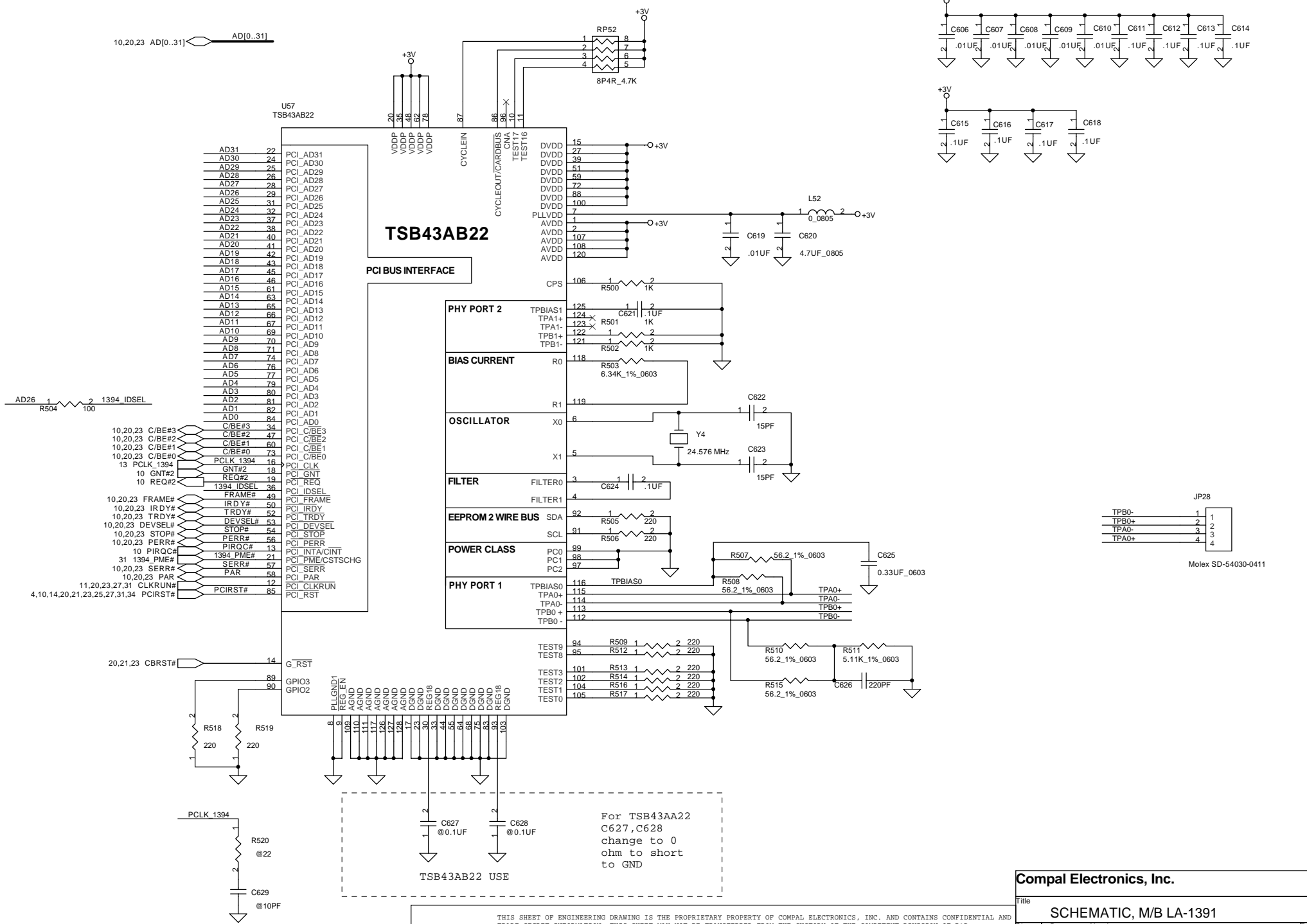


CRT Connector



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10,20,23 AD[0..31] AD[0..31]

U57
TSB43AB22

TSB43AB22

PCI BUS INTERFACE

PHY PORT 2

BIAS CURRENT

OSCILLATOR

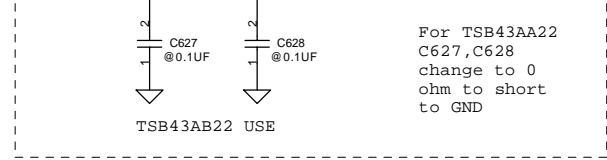
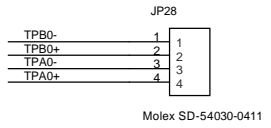
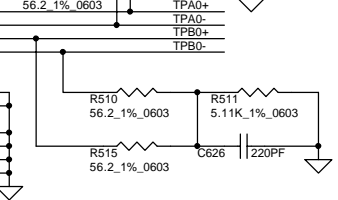
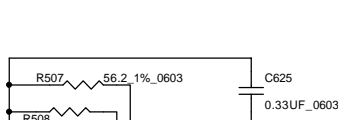
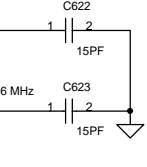
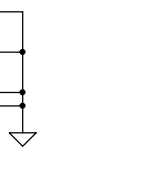
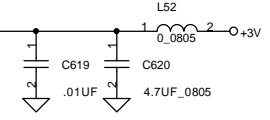
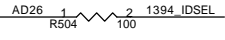
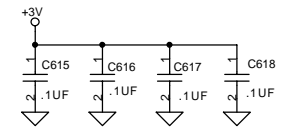
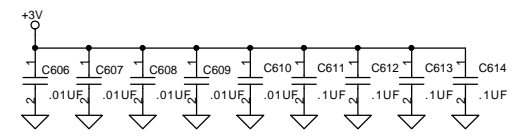
FILTER

EEPROM 2 WIRE BUS

POWER CLASS

PHY PORT 1

- AD31 22 PCI_AD31
- AD30 24 PCI_AD30
- AD29 25 PCI_AD29
- AD28 26 PCI_AD28
- AD27 28 PCI_AD27
- AD26 29 PCI_AD26
- AD25 31 PCI_AD25
- AD24 32 PCI_AD24
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- AD9 70 PCI_AD9
- AD8 71 PCI_AD8
- AD7 74 PCI_AD7
- AD6 76 PCI_AD6
- AD5 77 PCI_AD5
- AD4 79 PCI_AD4
- AD3 80 PCI_AD3
- AD2 81 PCI_AD2
- AD1 82 PCI_AD1
- AD0 84 PCI_AD0
- C/BE#3 34 PCI_C/BE3
- C/BE#2 47 PCI_C/BE2
- C/BE#1 60 PCI_C/BE1
- C/BE#0 73 PCI_C/BE0
- PCLK 1394 16 PCI_CLK
- GNT#2 18 PCI_GNT
- REQ#2 19 PCI_REQ
- 1394 IDSEL 36 PCI_IDSEL
- FRAME# 49 PCI_FRAME
- IRDY# 50 PCI_IRDY
- TRDY# 52 PCI_TRDY
- DEVSEL# 53 PCI_DEVSEL
- STOP# 54 PCI_STOP
- PERR# 56 PCI_PERR
- PIRQC# 13 PCI_INTA/CINT
- 1394 PME# 21 PCI_PME/CSTSCHG
- SERR# 57 PCI_SERR
- PAR 58 PCI_PAR
- 11,20,23,27,31 CLKRUN# 12 PCI_CLKRUN
- 4,10,14,20,21,23,25,27,31,34 PCIRST# 85 PCI_RST



For TSB43AA22
C627, C628
change to 0
ohm to short
to GND

Compal Electronics, Inc.

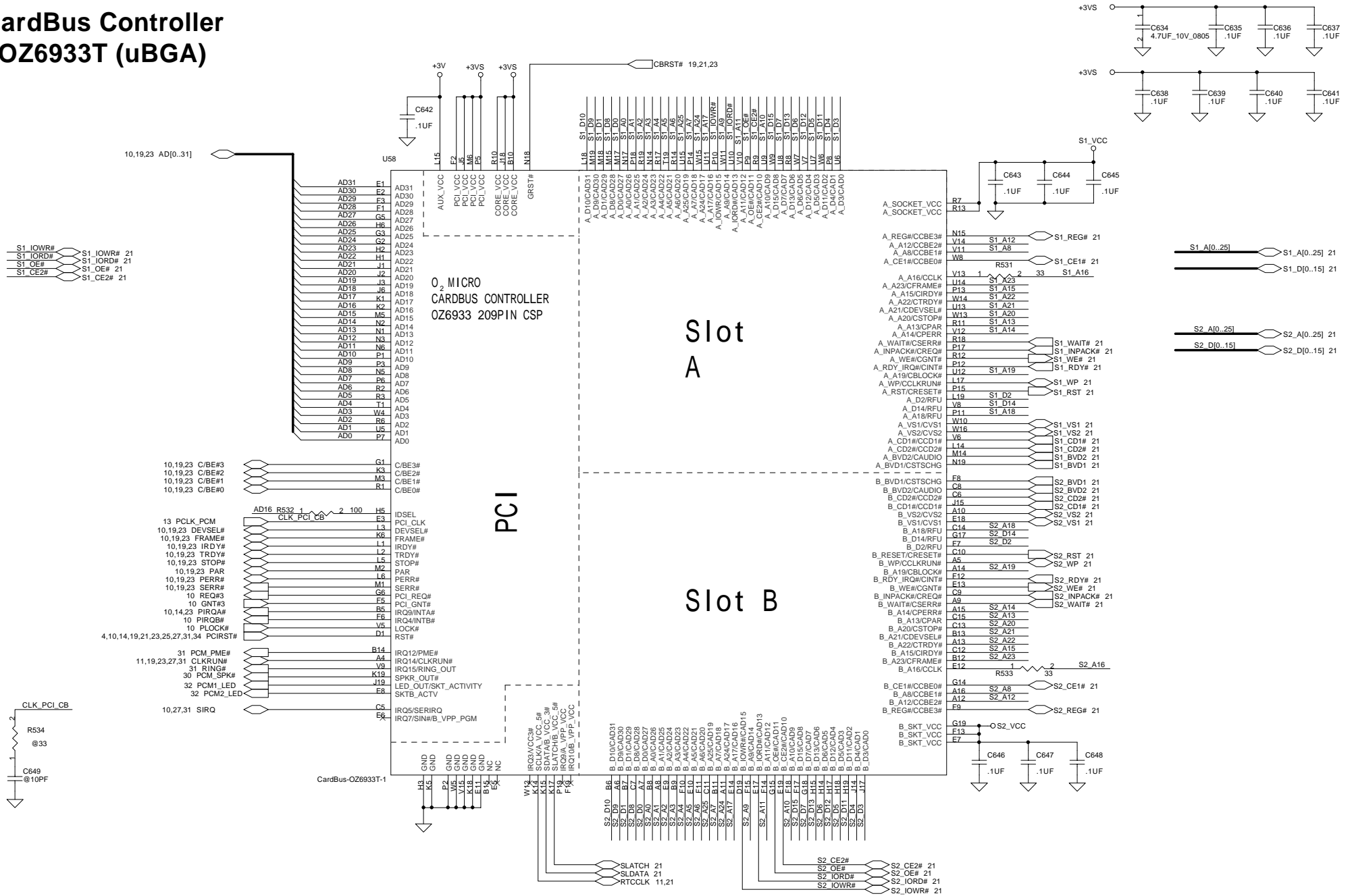
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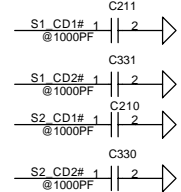
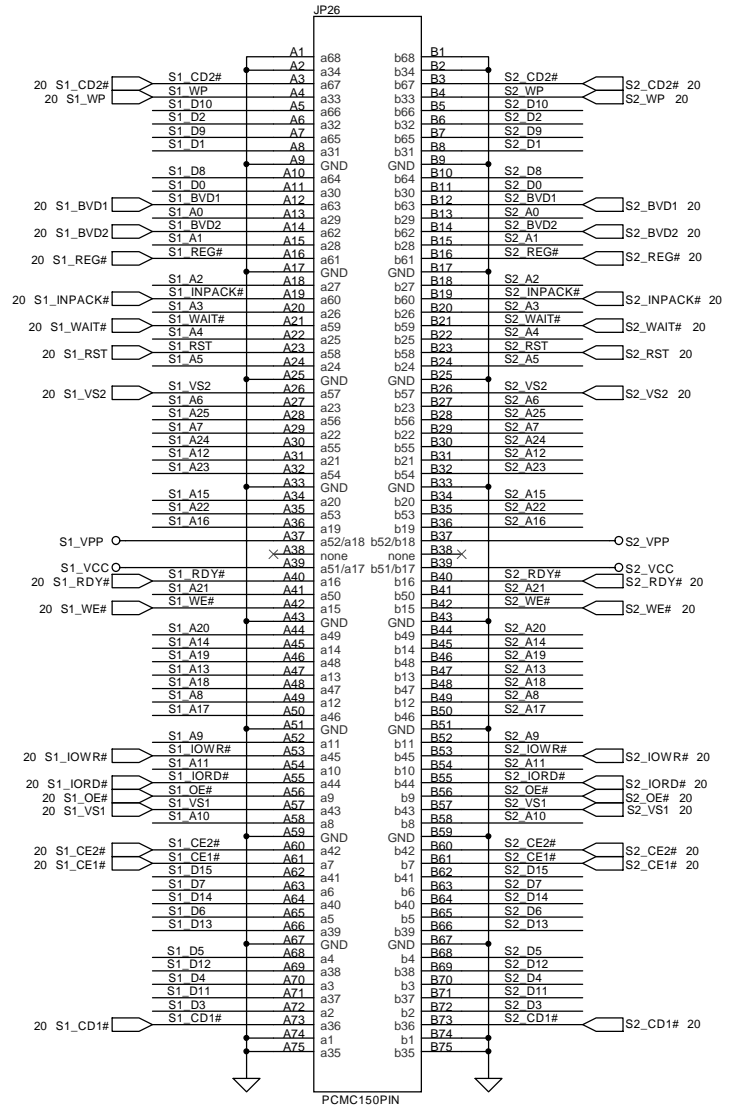
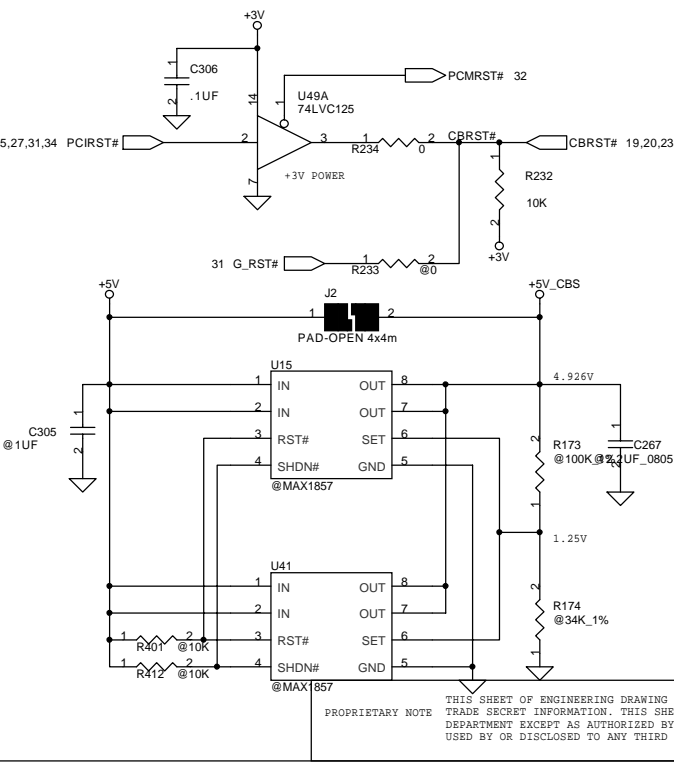
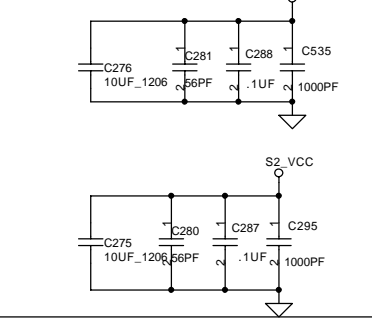
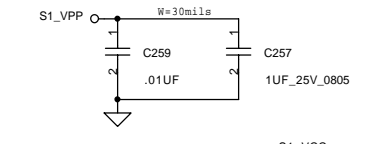
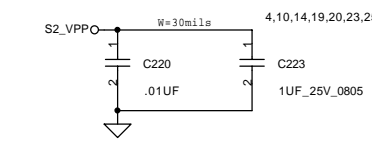
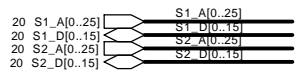
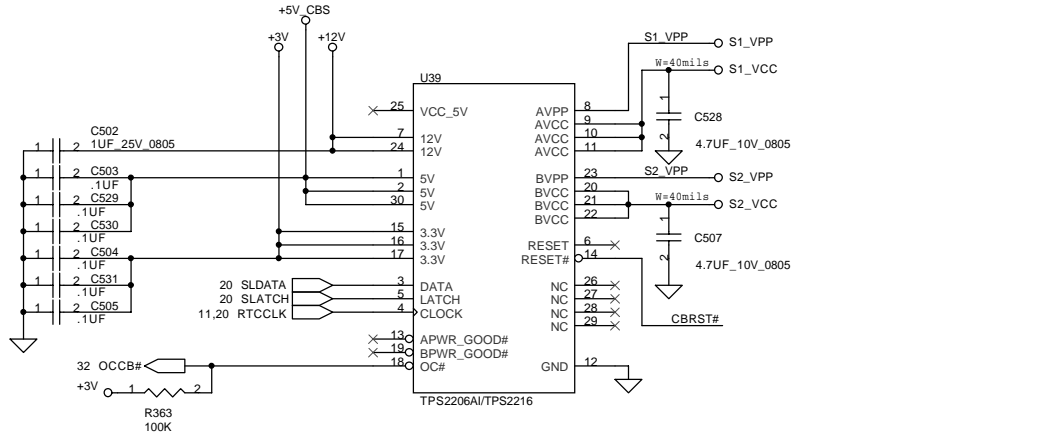
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CardBus Controller OZ6933T (uBGA)



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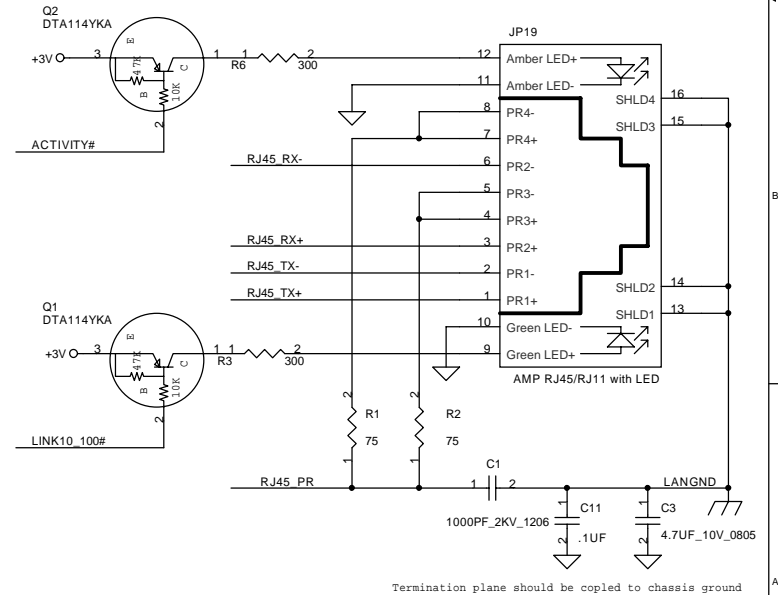
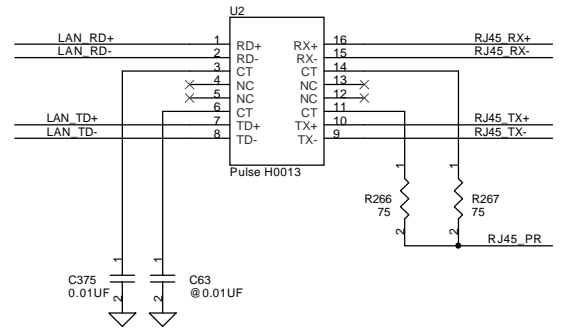
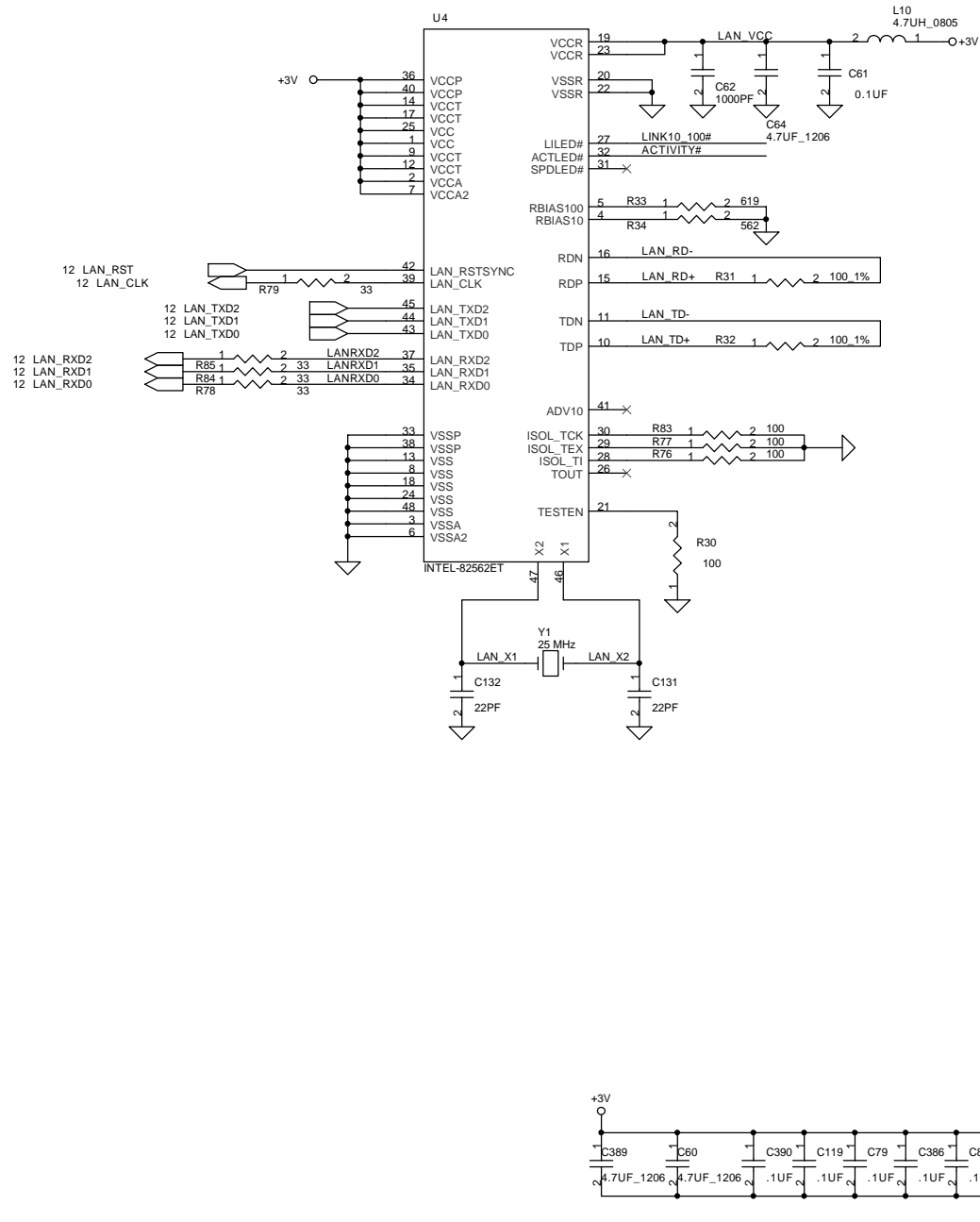


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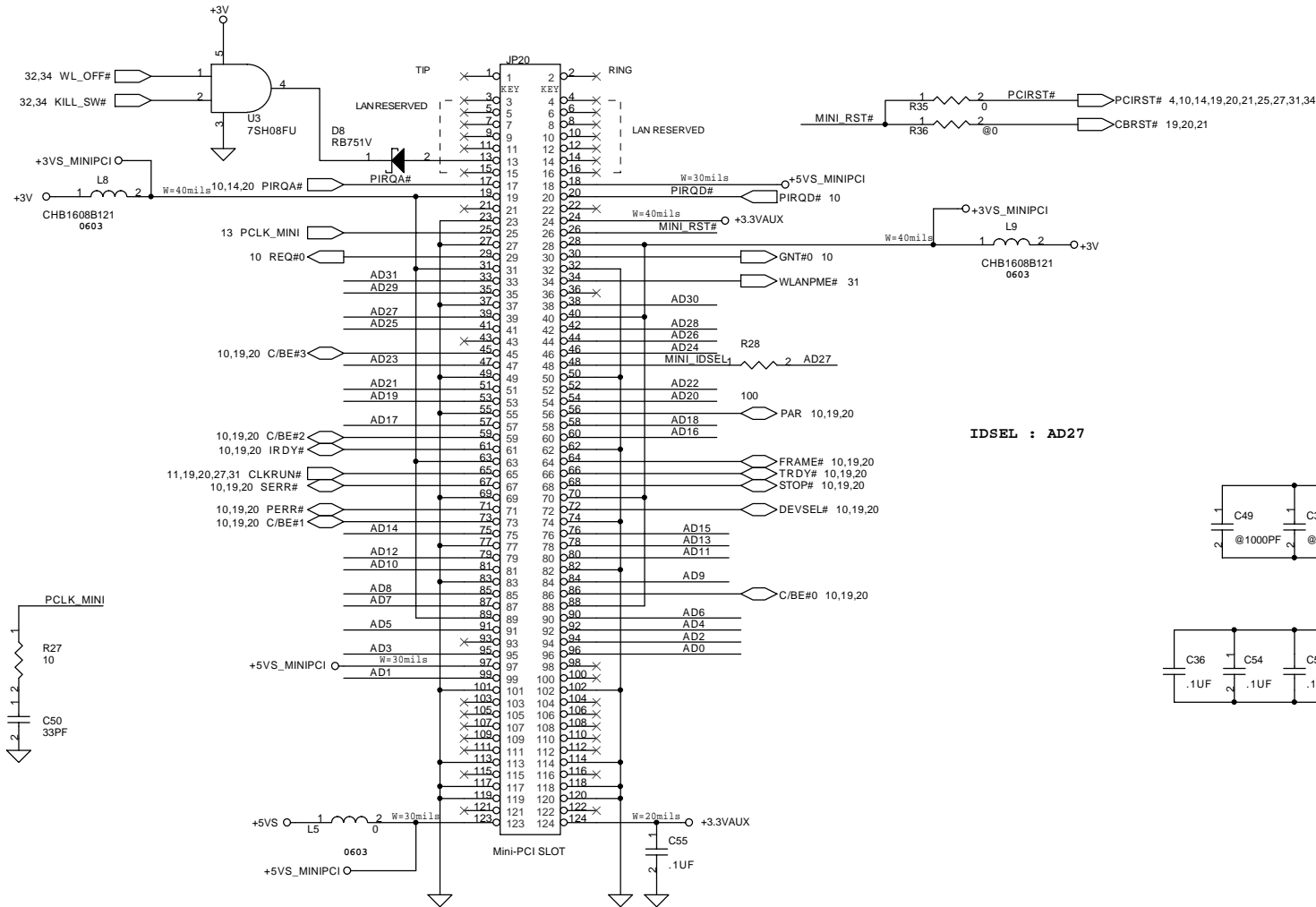
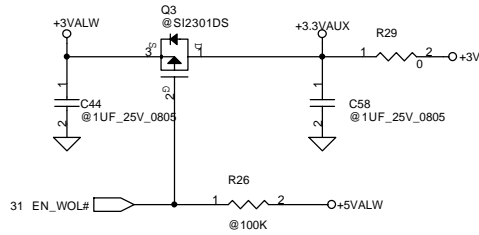
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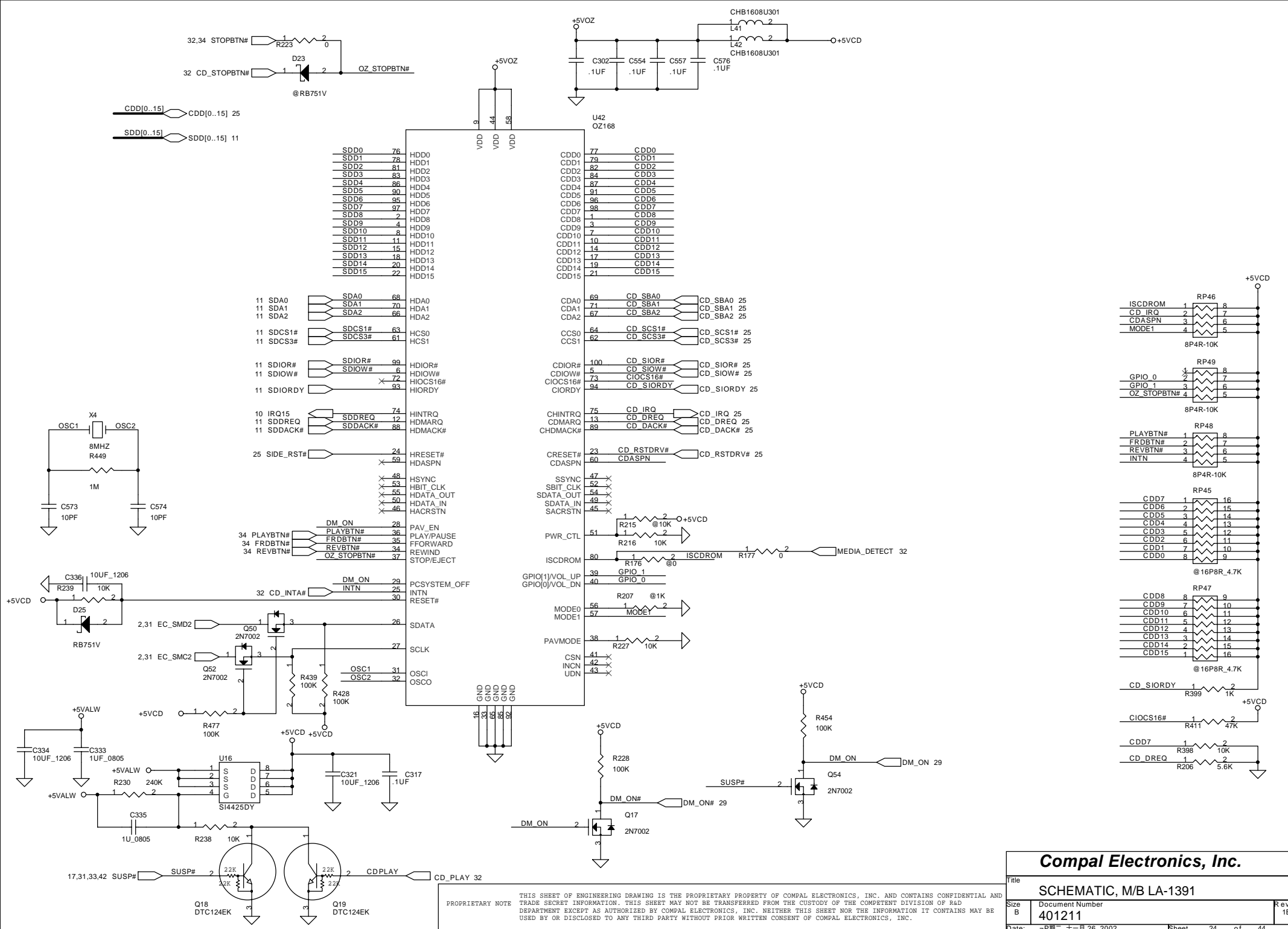


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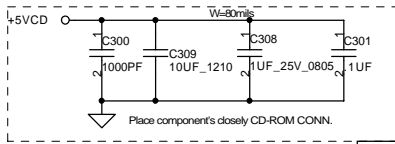
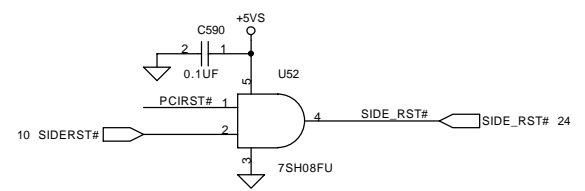
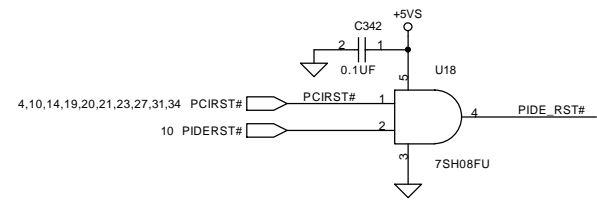
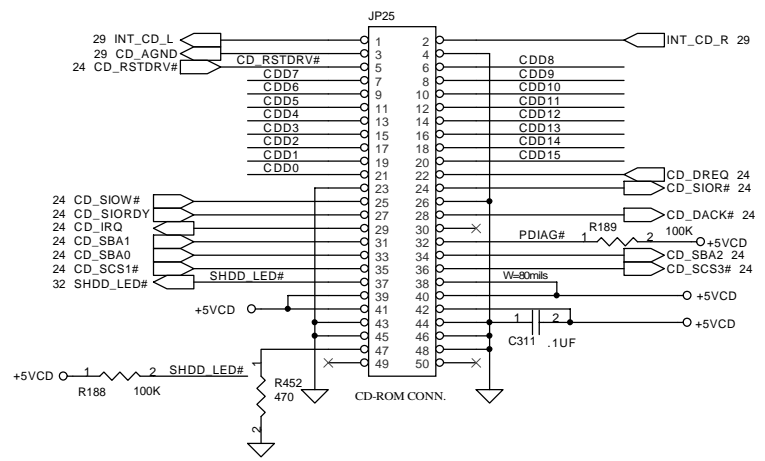
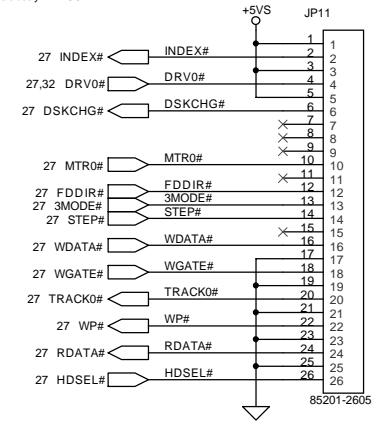
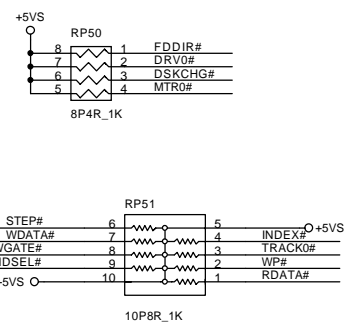
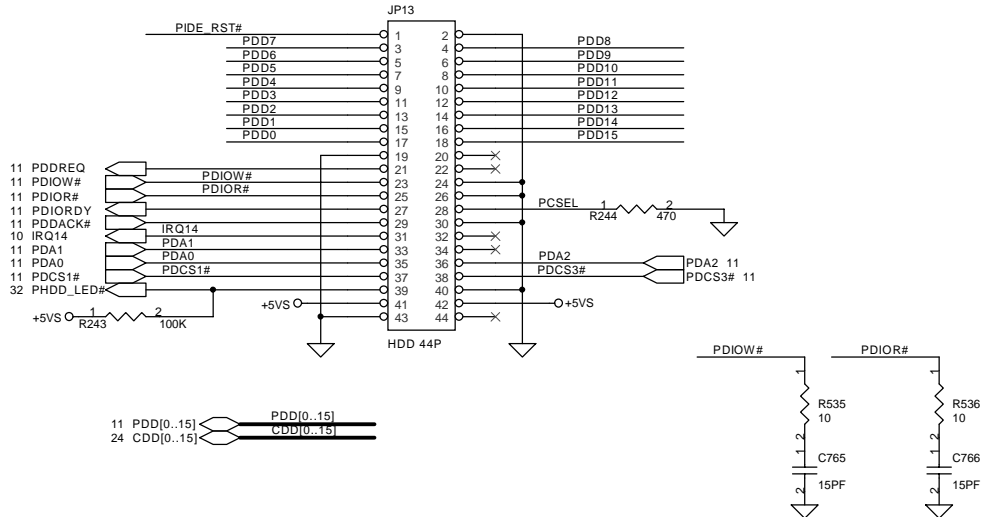
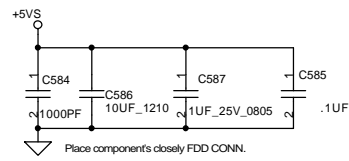
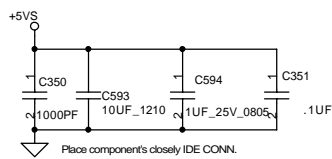
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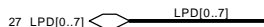
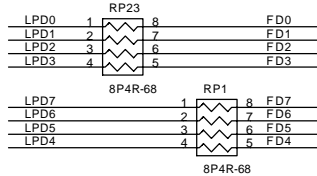
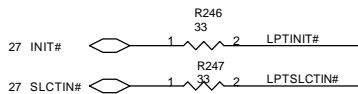
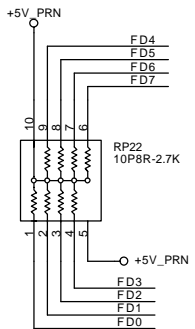
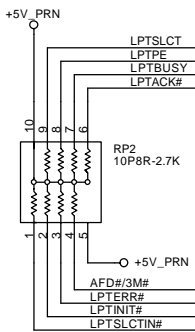
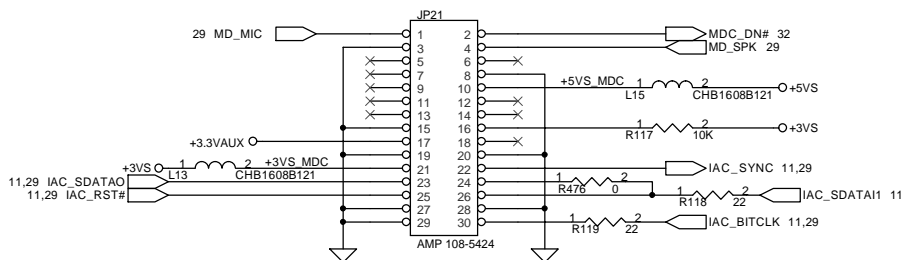
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IDE, CD-ROM Module CONN.

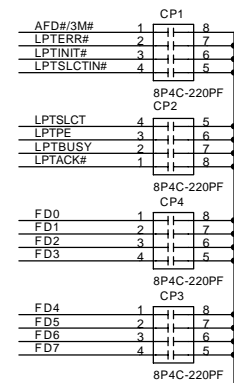
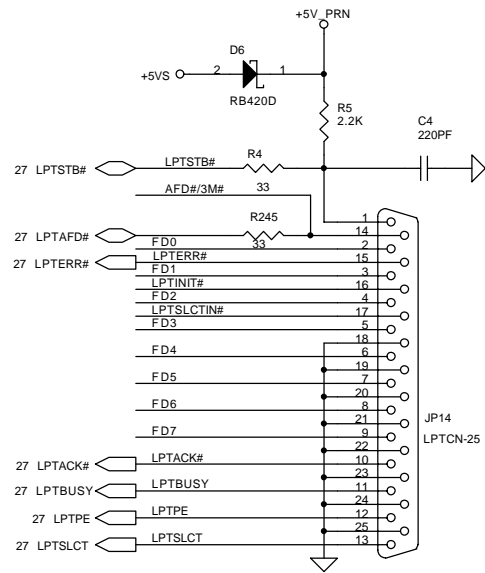


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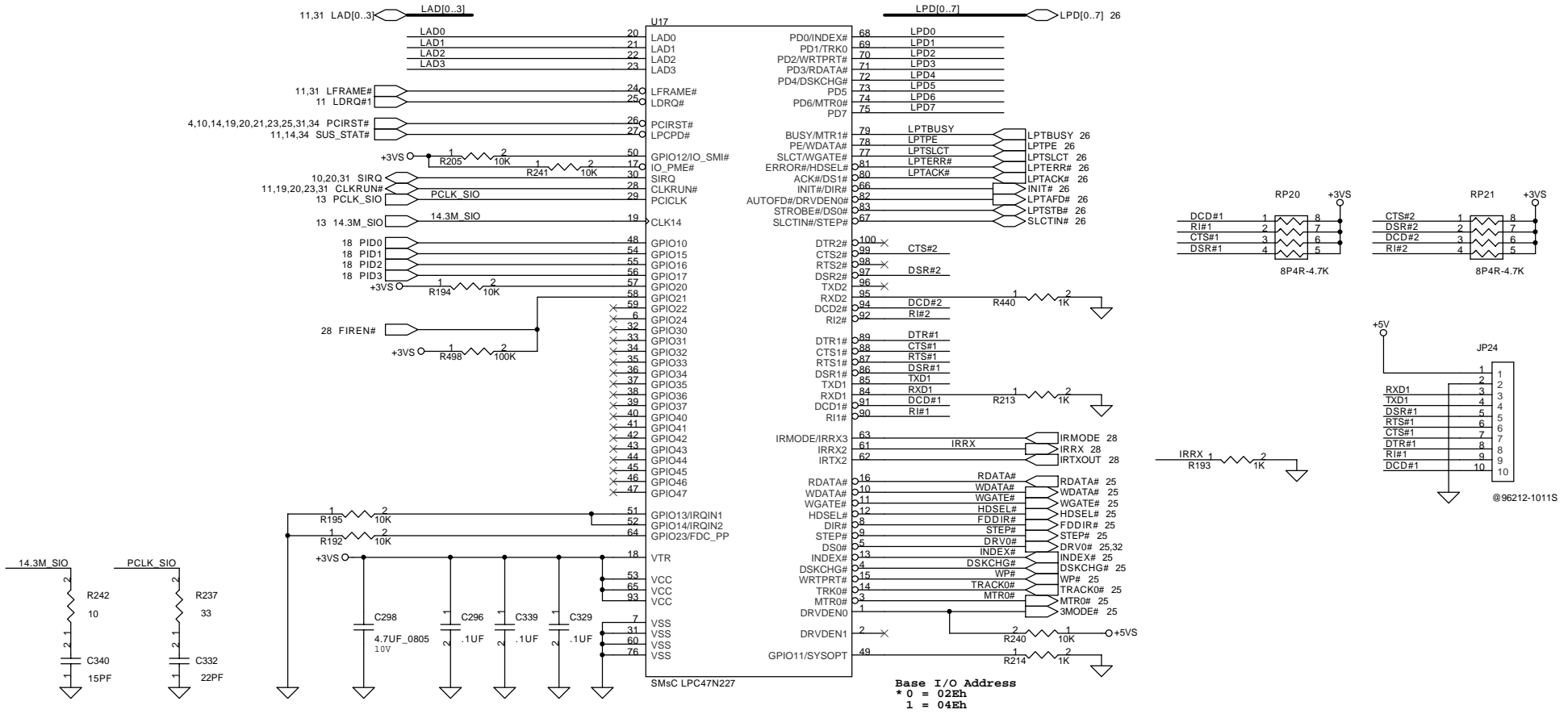
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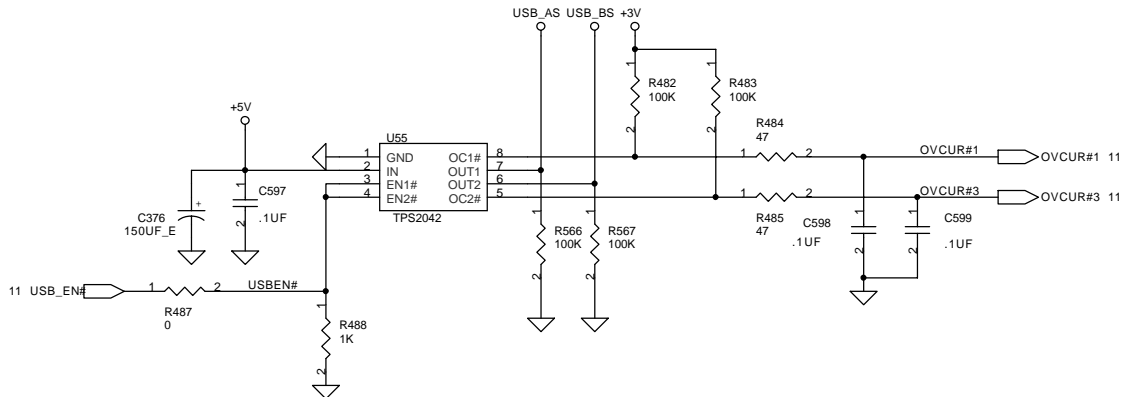
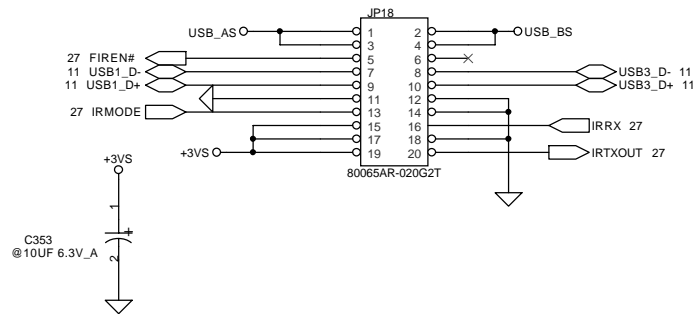
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SUPER I/O SMC FDC47N227



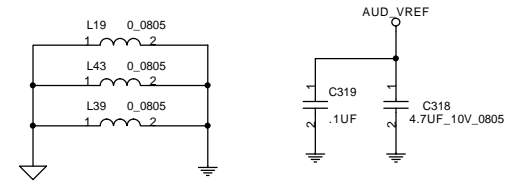
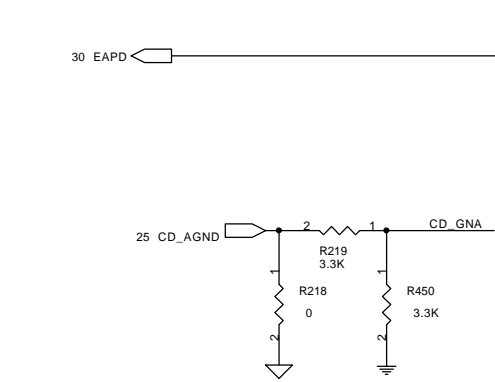
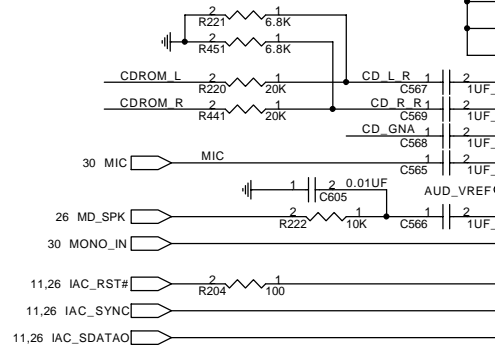
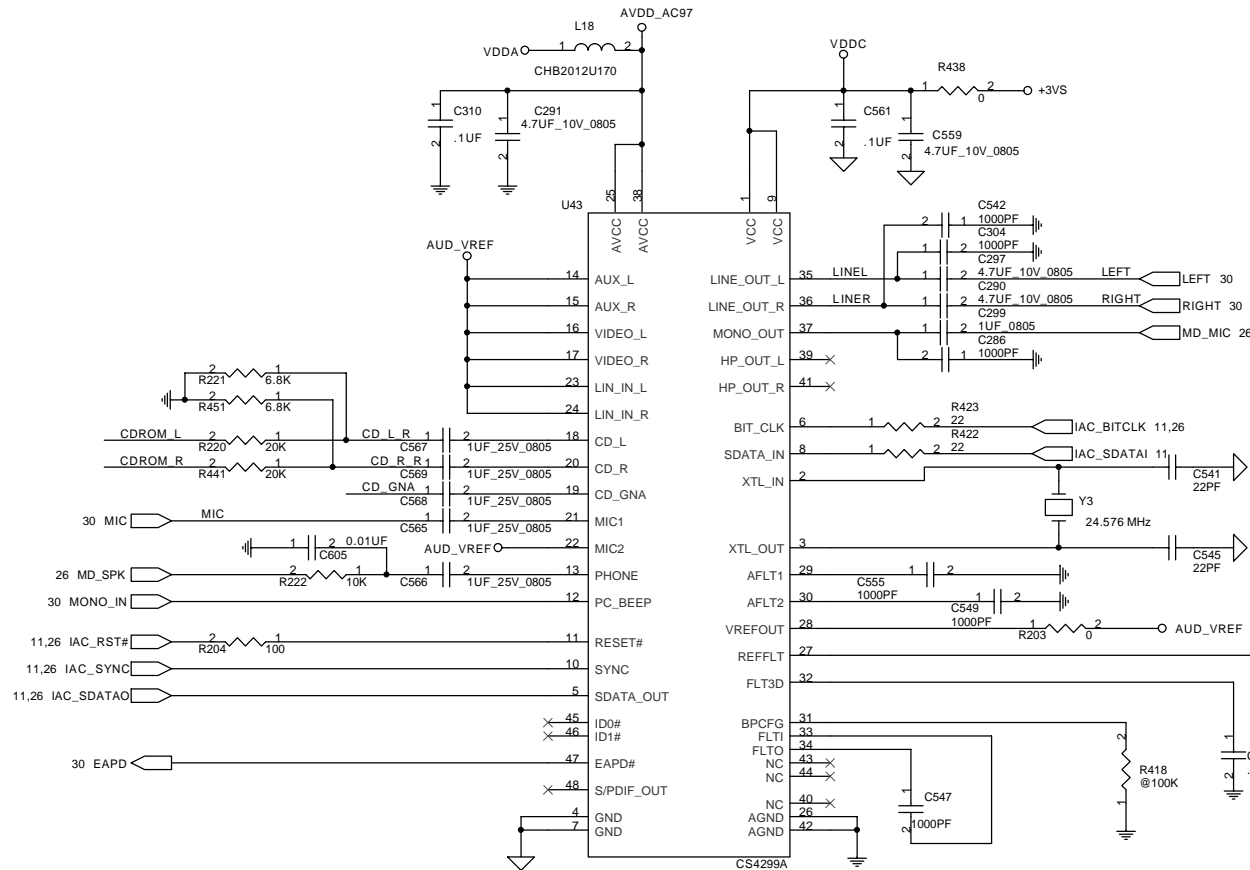
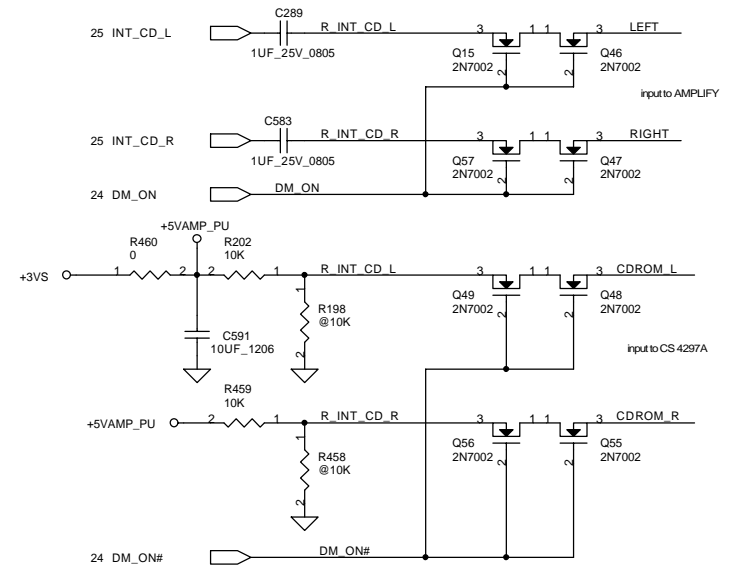
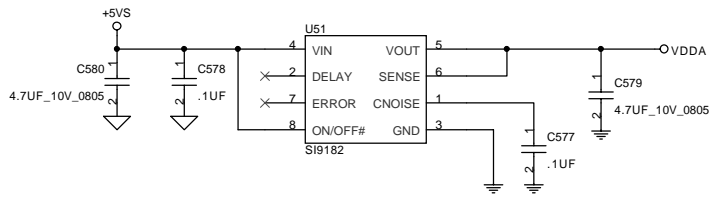
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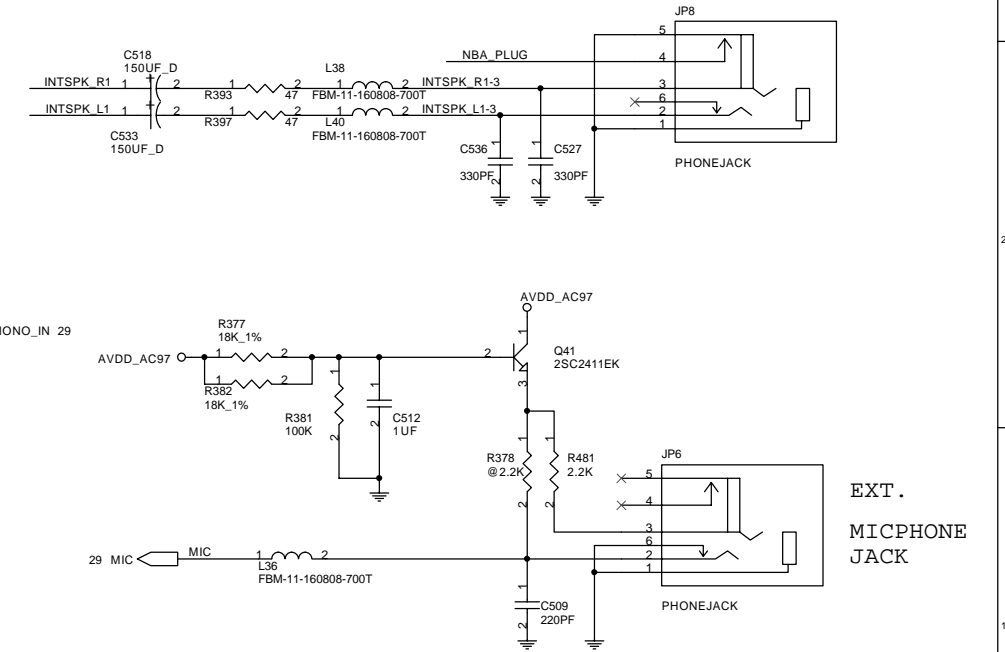
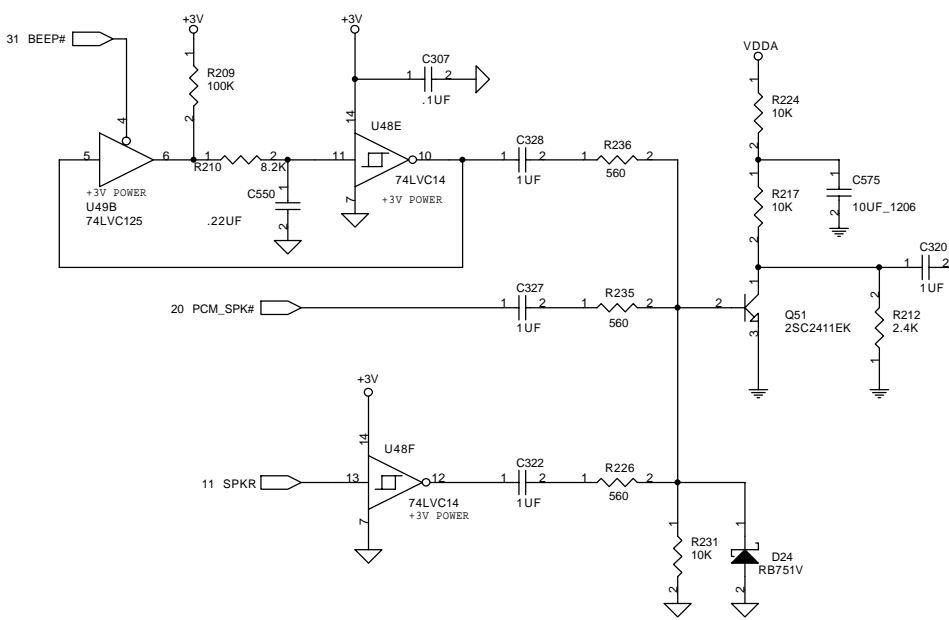
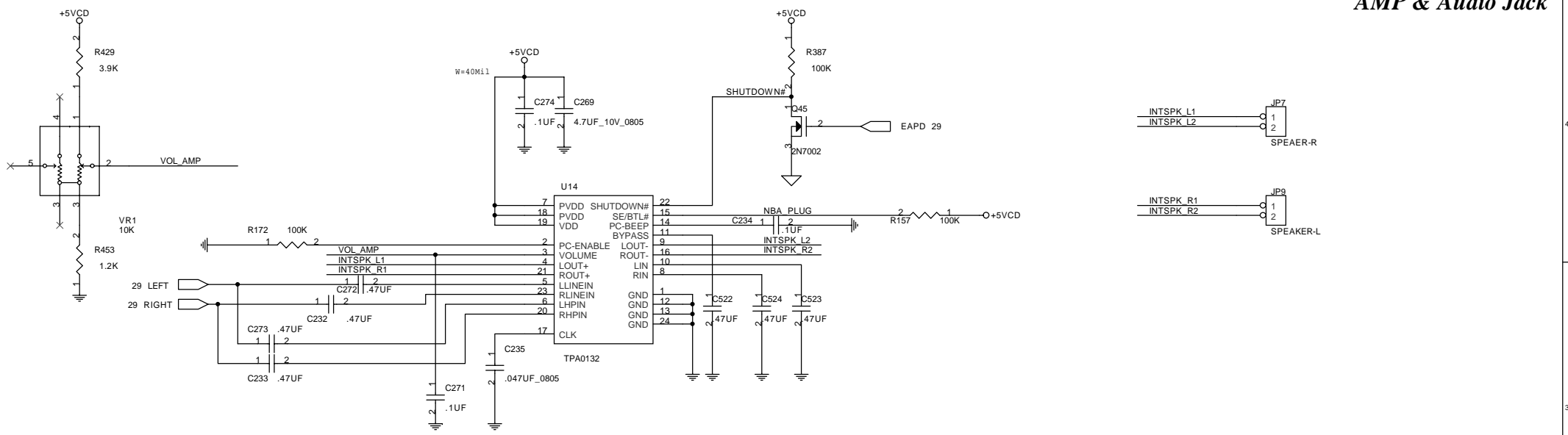
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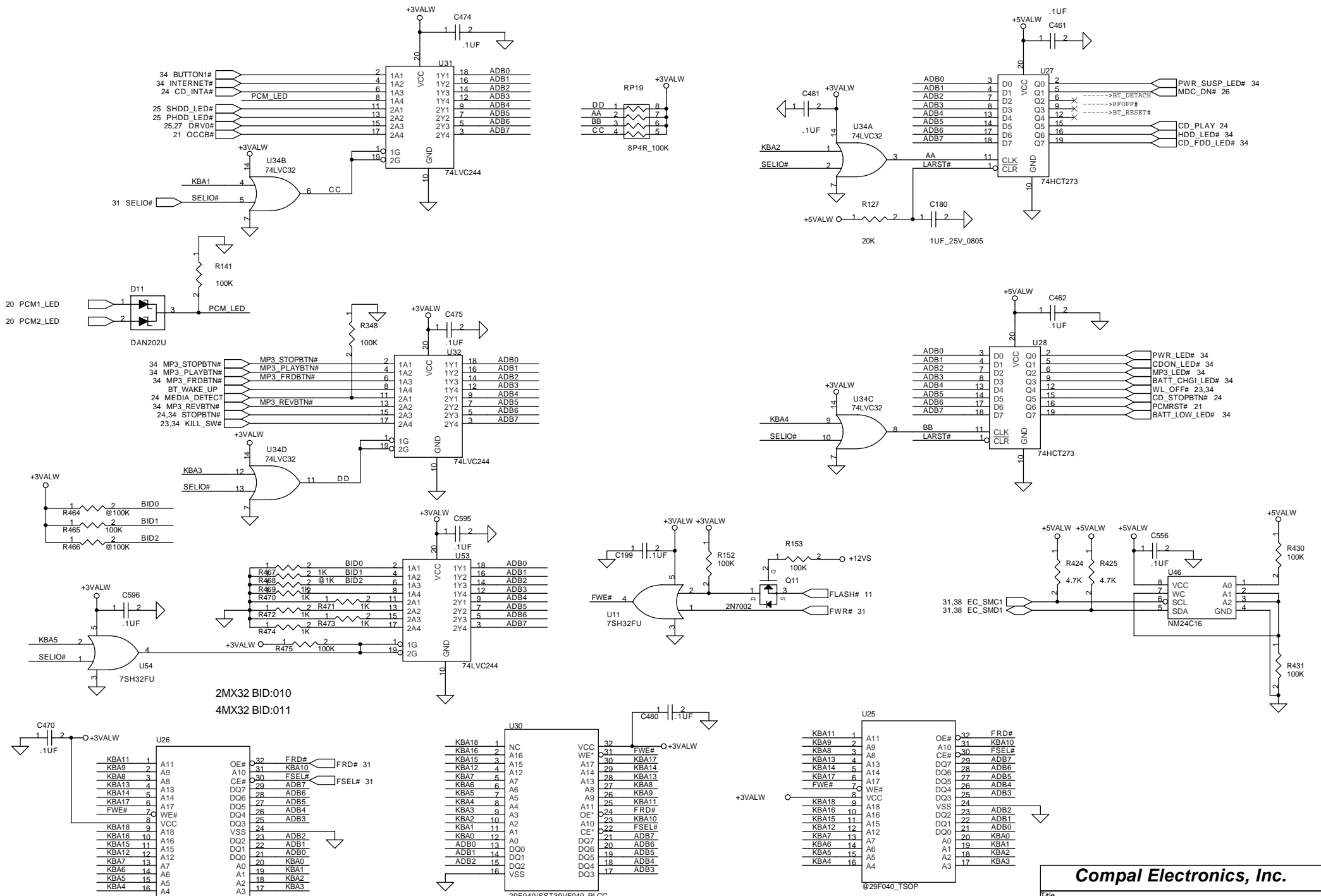
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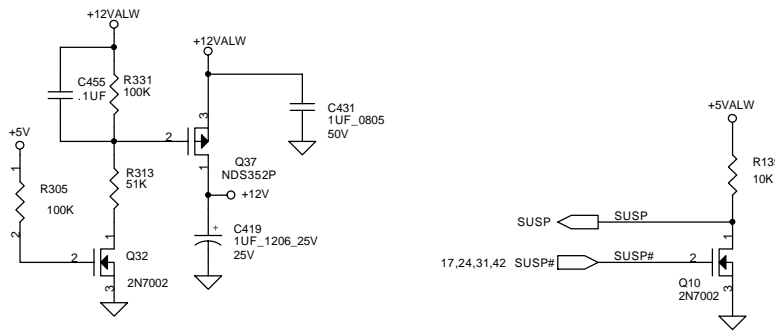
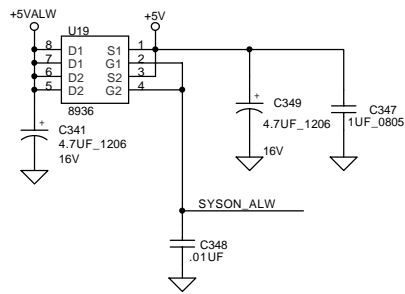
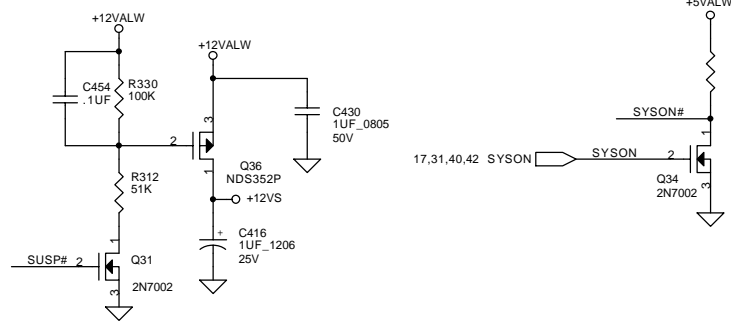
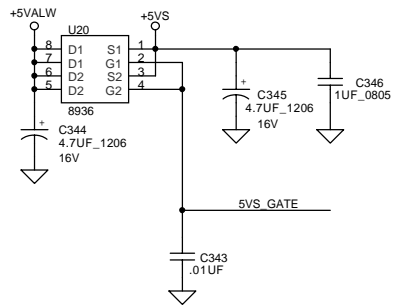
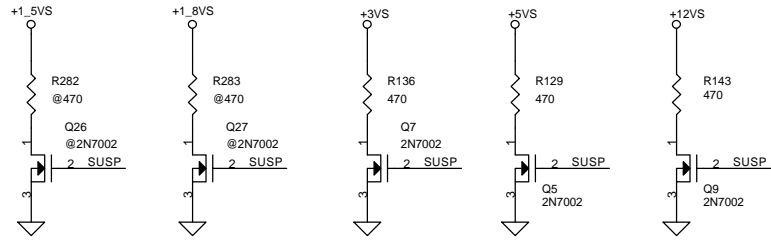
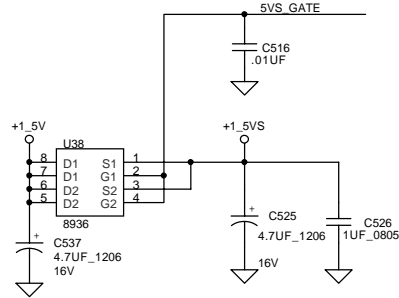
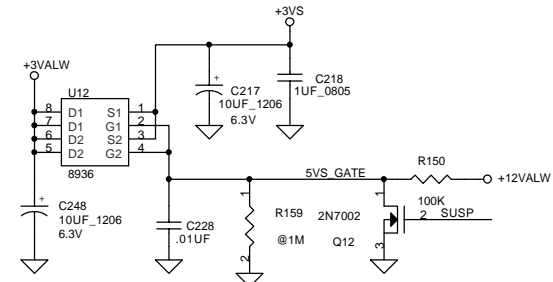
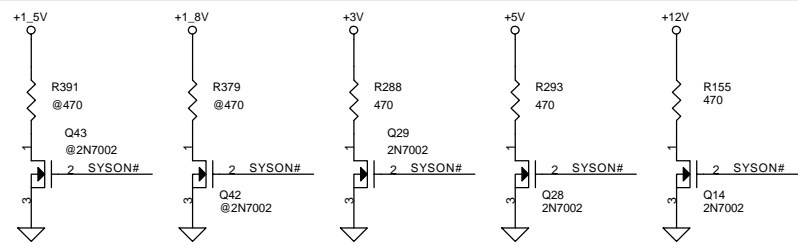
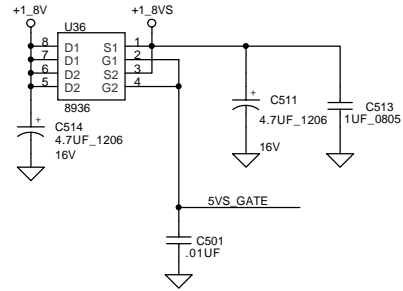
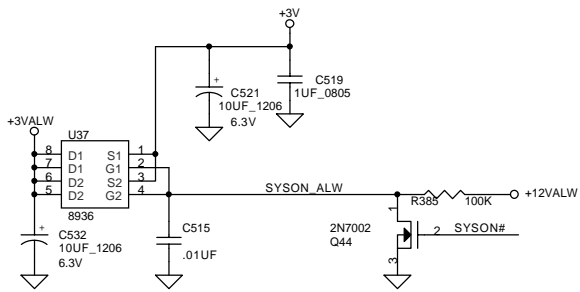
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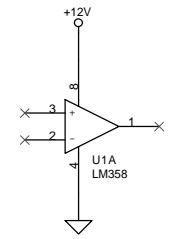
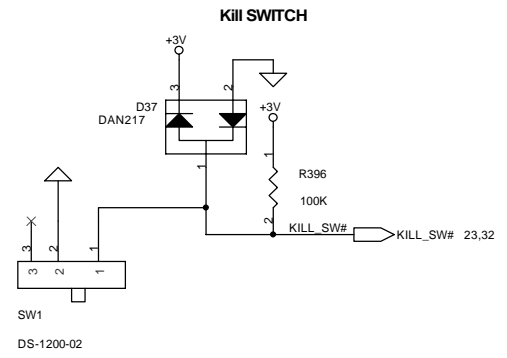
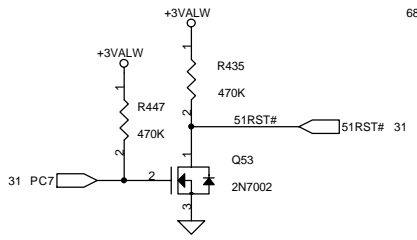
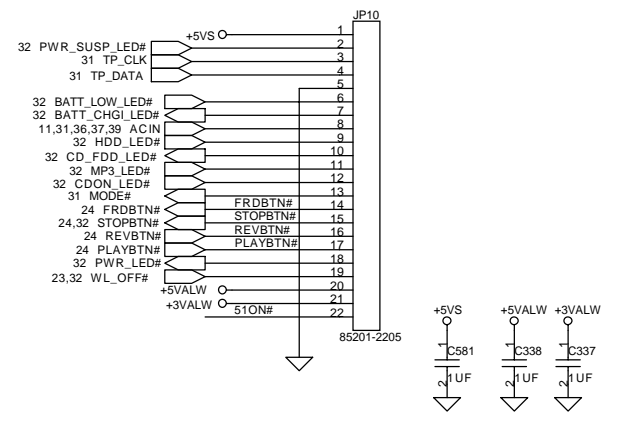
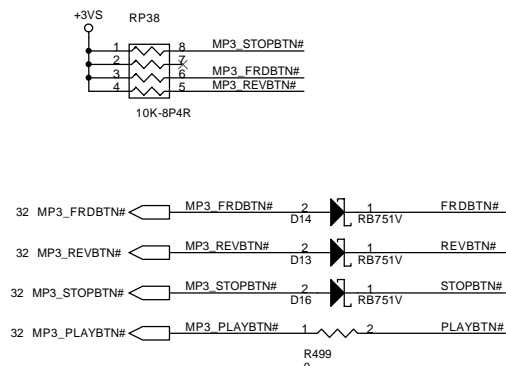
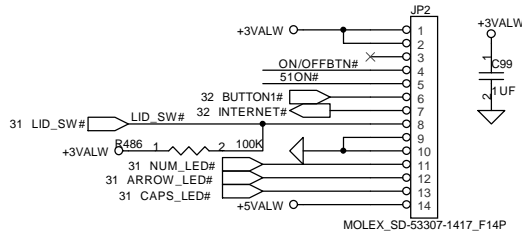
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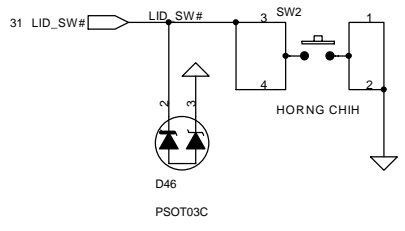
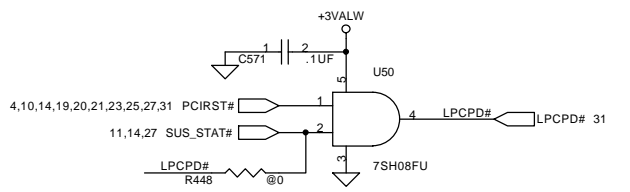
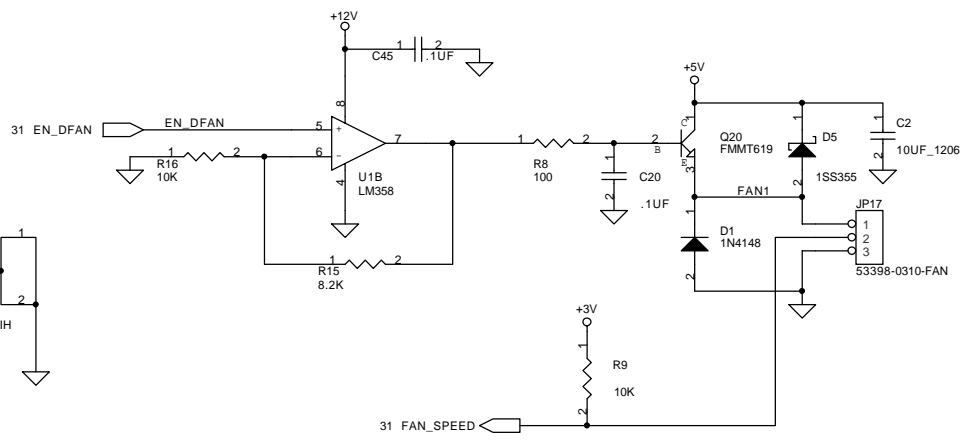
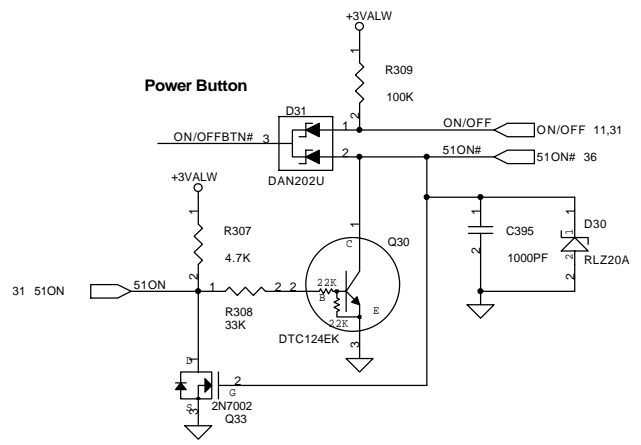


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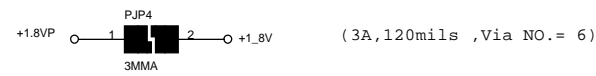
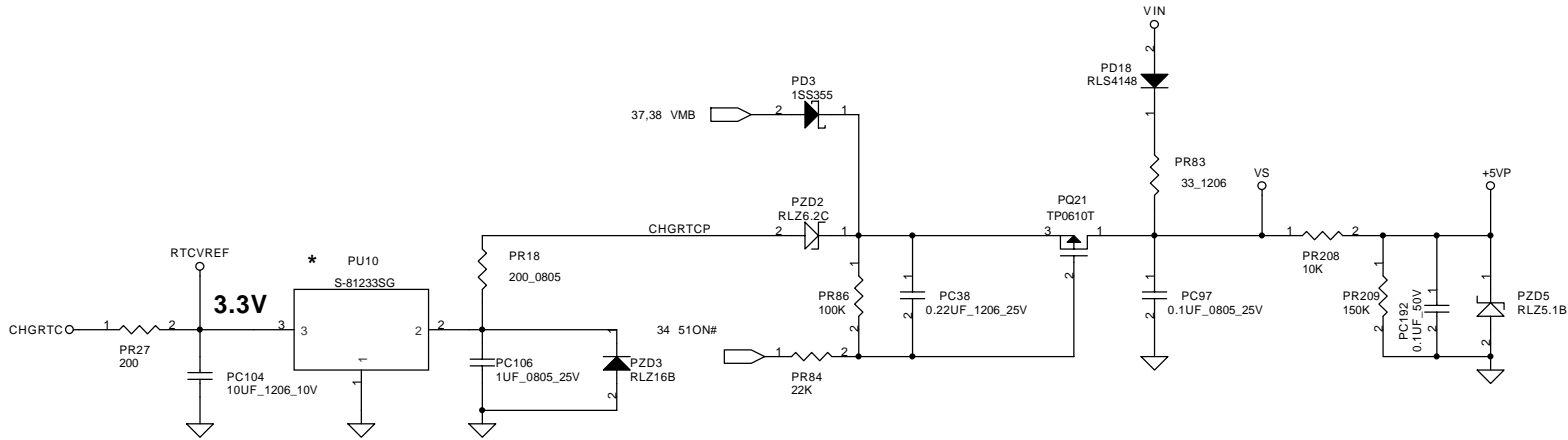
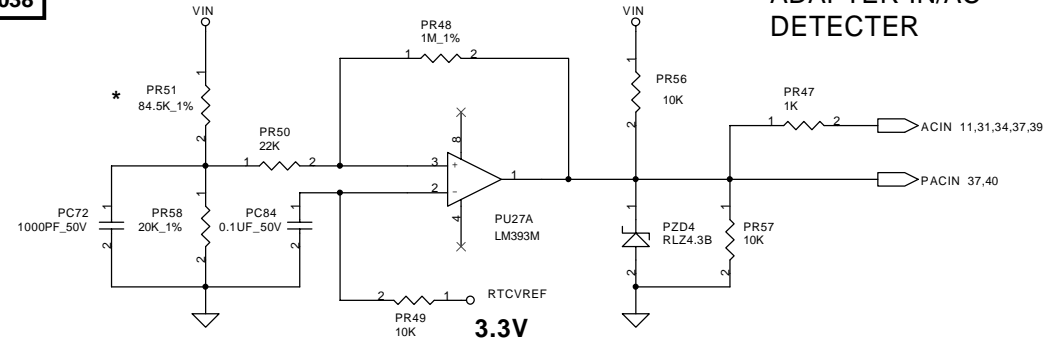
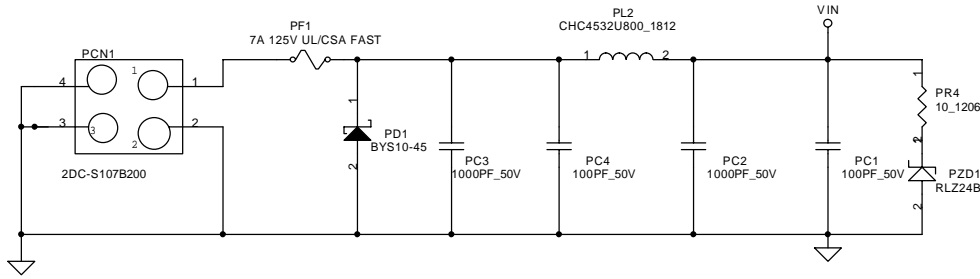
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Vin Detector

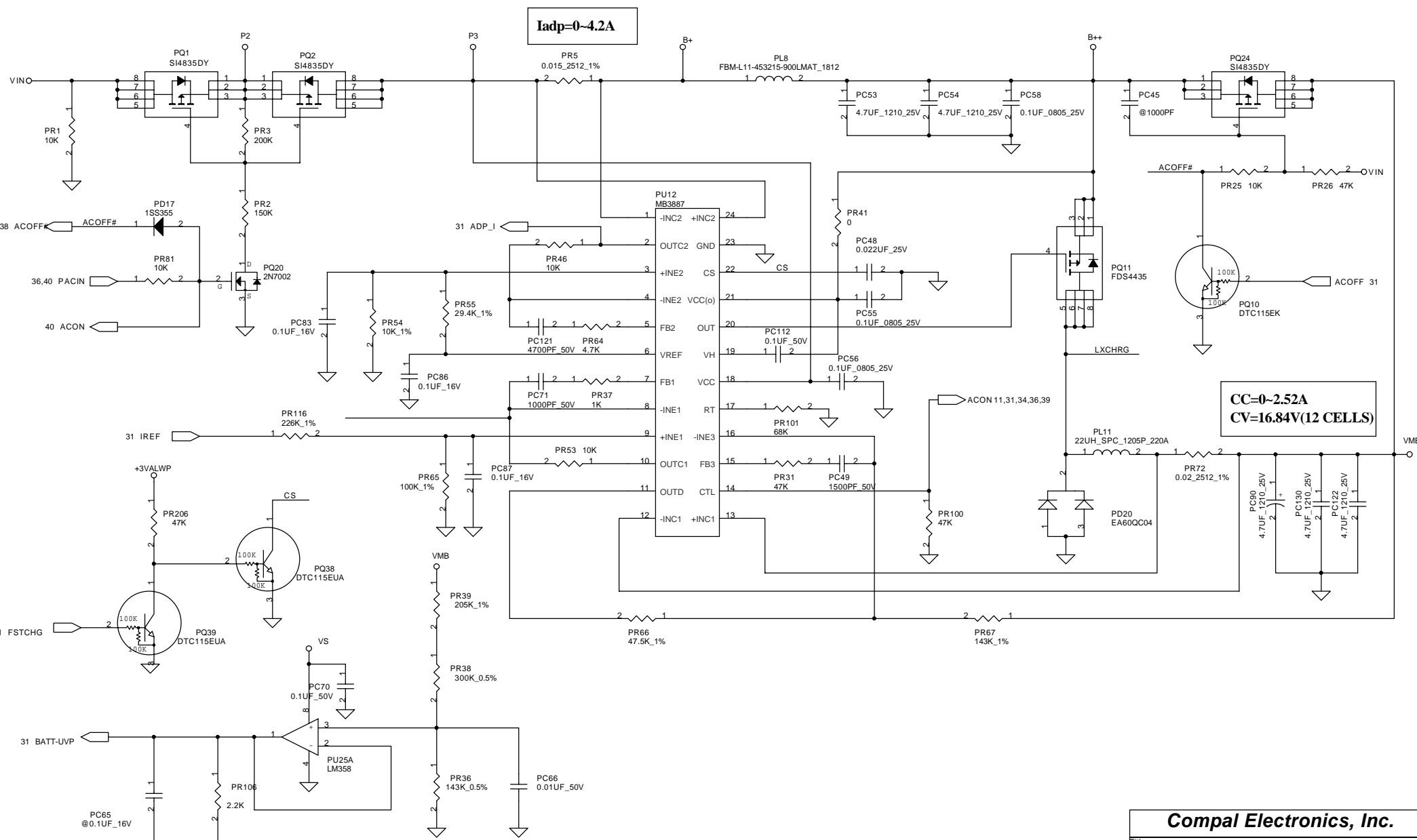
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Low 17.745 16.903 16.038



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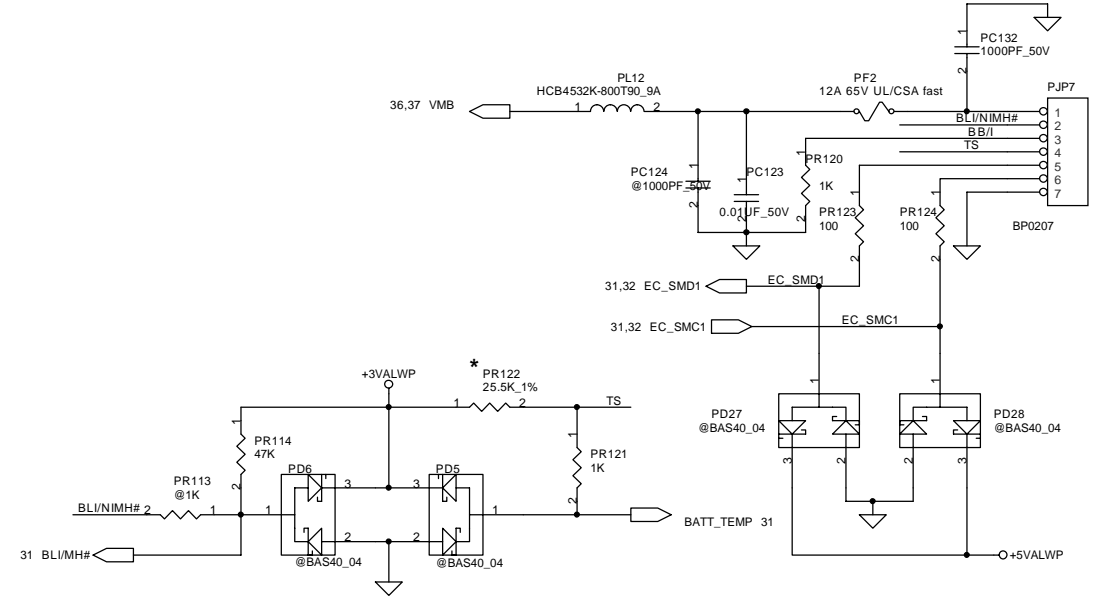
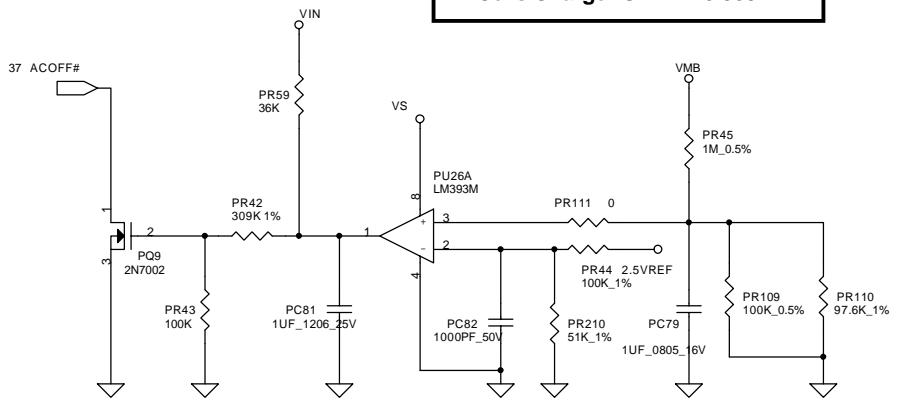
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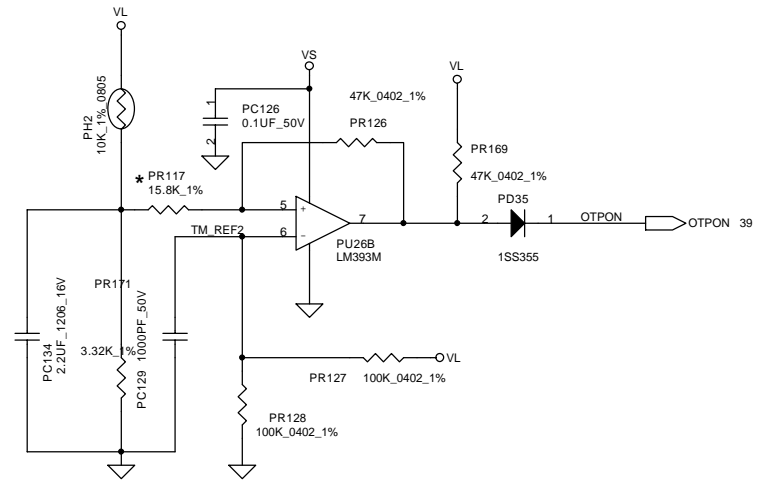
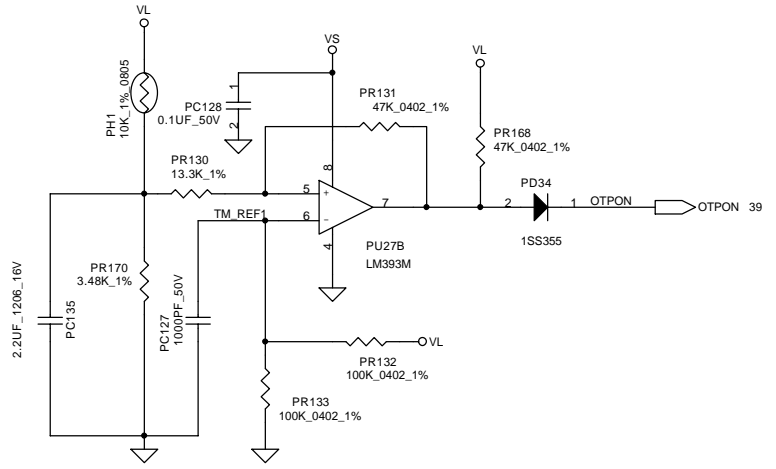
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12 Cells Charger OVP : 18.059V



PH1 under CPU botten 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

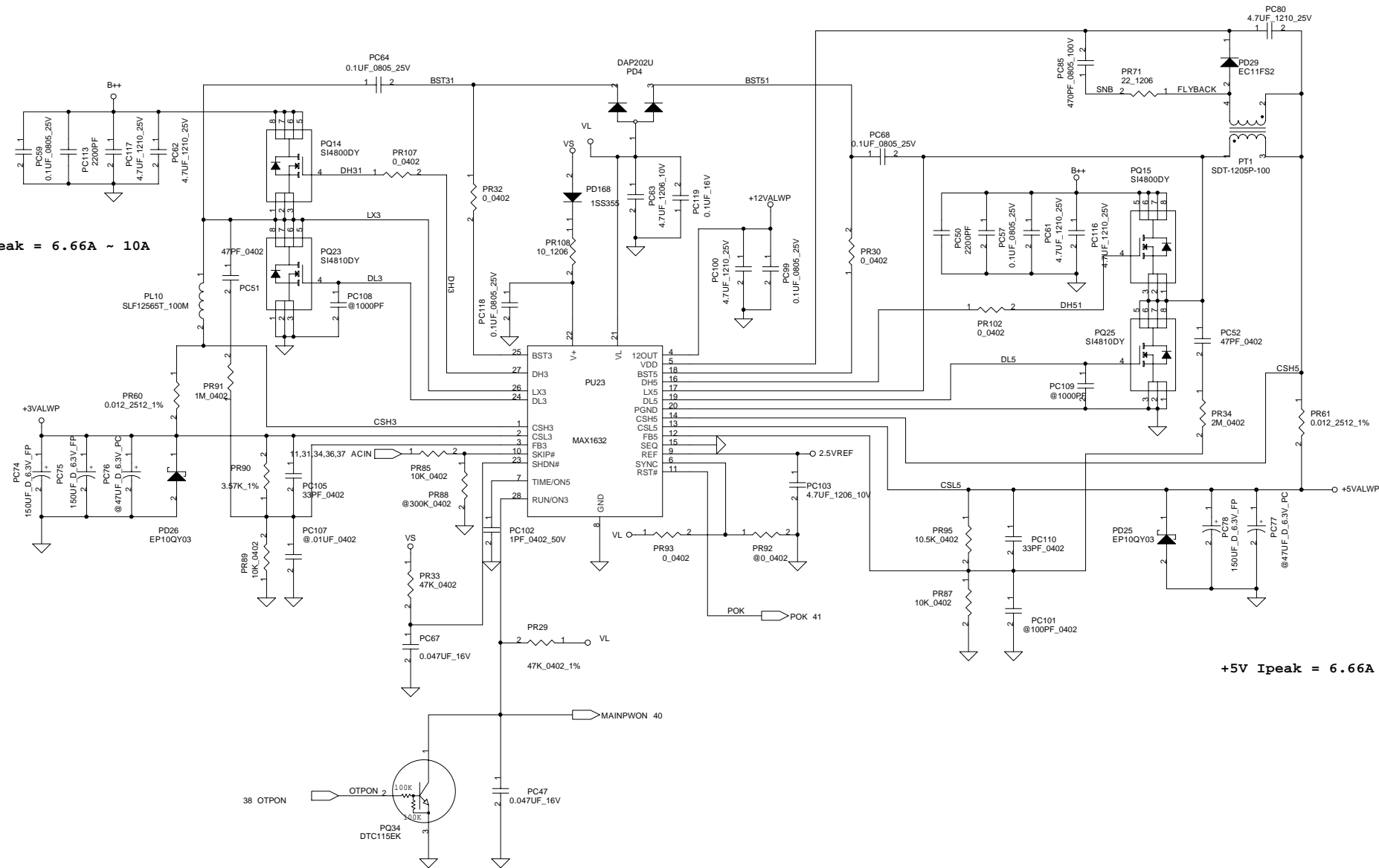


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+3.3V Ipeak = 6.66A ~ 10A

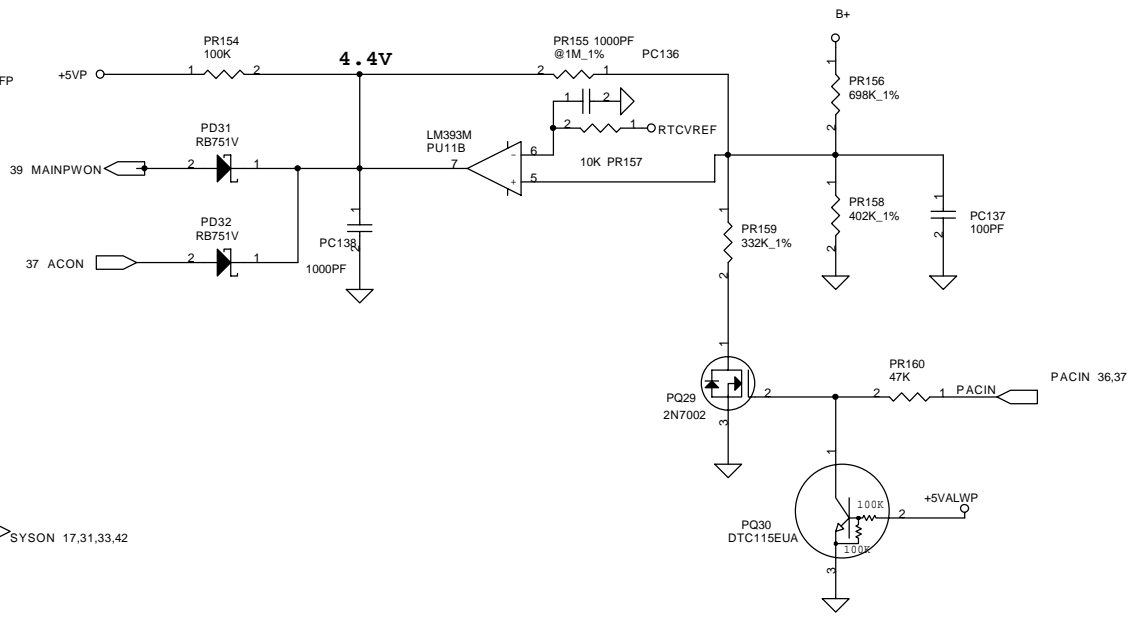
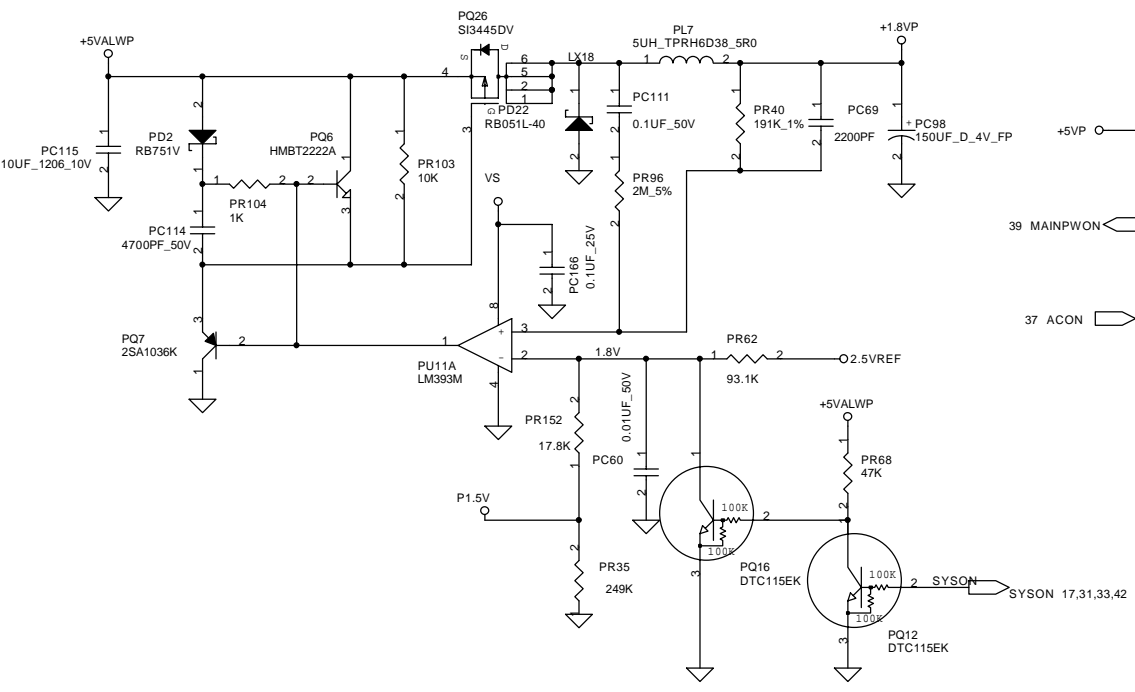
+5V Ipeak = 6.66A ~ 10A



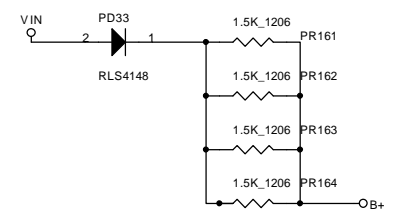
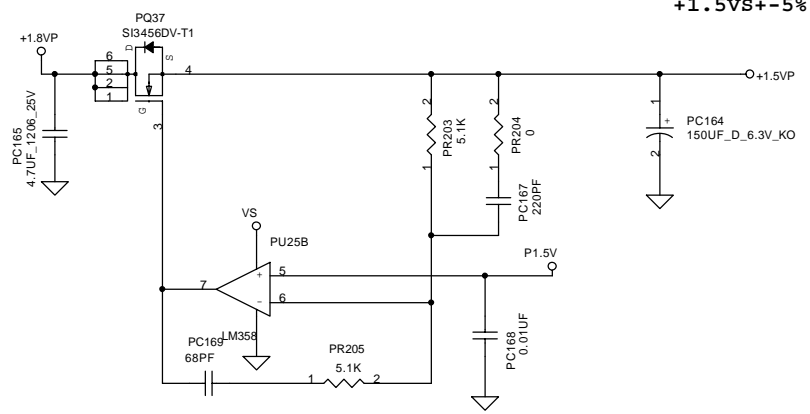
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+1.8VP+-5%



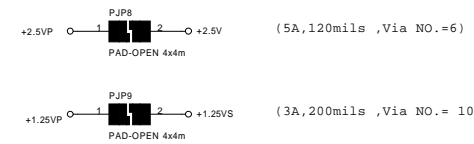
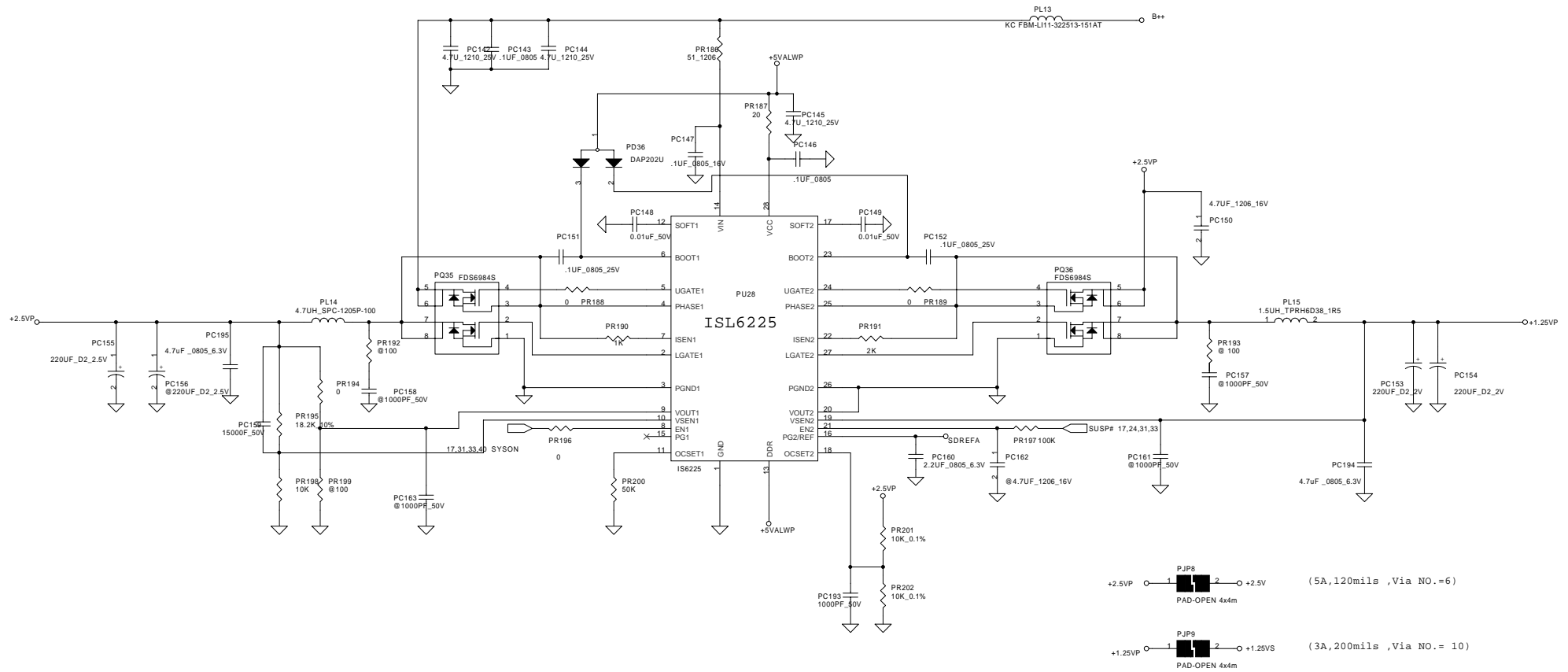
+1.5VS+-5%



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+2.5V/+1.25V



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ATR11 PIR LIST

HW PIR LIST

PWR PIR LIST

ATEST 9/6~			
1	+2.5V LEVEL ERROR	Remove R111 100ohm Change R108 from 100 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 MK1707 output terminate	Add R494 22 ohm	P12
6	Add low pass filter for MK1707 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 TPS2042 for USB protect cicuit	Add U56(TPS2042)	P25

BTEST			

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Version change list (P.I.R. List)

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	B.Ver#	Phase
1		Creat +5VP power		36	Add PC192: 0.1UF; PZD5: RLZ5.1B PR208: 10K; PR209: 150K		DVT
2		Meet spec. of ISL6225 DDR2.5V Vsense voltage 0.89V		42	Change PR195 from 17.8K to 18.2K		DVT
3		For CP mode		37	Change PR64 from 10K to 4.7K PC121 from 4700PF to 1000PF		DVT
4		For DDR 1.25V ripple voltage		42	Change PC153, PC154 from 150uF/6.3V to 220uF/2V		DVT
5		For DDR 2.5V voltage		42	Add PC156: 220uF/2V; delete PC155: 220uF/2V		DVT
6		For cost downe		42 40	Change PL15 from 1.5uH SPC_06703 to 1.5UH TPRH6D38 Change PL7 from 5uH SPC_06703 to 5UH TPRH6D38		DVT
7		For DDR 1.25V voltage sense		42	Change PR191 from 6.8K_1% to 2K_1%		DVT
8		For transient response of DDR 2.5V 1.25V		42	Add PC195 PC194 4.7uF/6.3V; de-pop PC153 Change PC193 from 1000pF to 4700pF; PR186 from 10 to 51Ohm		PVT
9		For reduce CP mode noise		37	Change PC121 from 4700PF to 1000PF		PVT
10		Increase voltage margin on CTL of MB1887		37	.De-pop PR100		PVT
11		Change 1.8V to 1.85V P1.5V to 1.73V requested from H/W		40	Change PR62 from 100K to 93.1K PR152 from 43K to 17.8K PR35 from 215K to 249K		PVT

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