

Prescott & Springdale Schematic with Capture CIS and Function field

uFCPGA Prescott

2003-03-14

REV: X00-G

Cature library ball out check document

Prescott : Prescott processor Electrial, Mechanical and Thermal Specification Rev0.5 [Check by HW:Henry,Steve]

Springdale(GMCH): Springdale GMCH External Design Specification (EDS) REV1.0 [Check by HW: Henry,Rita]

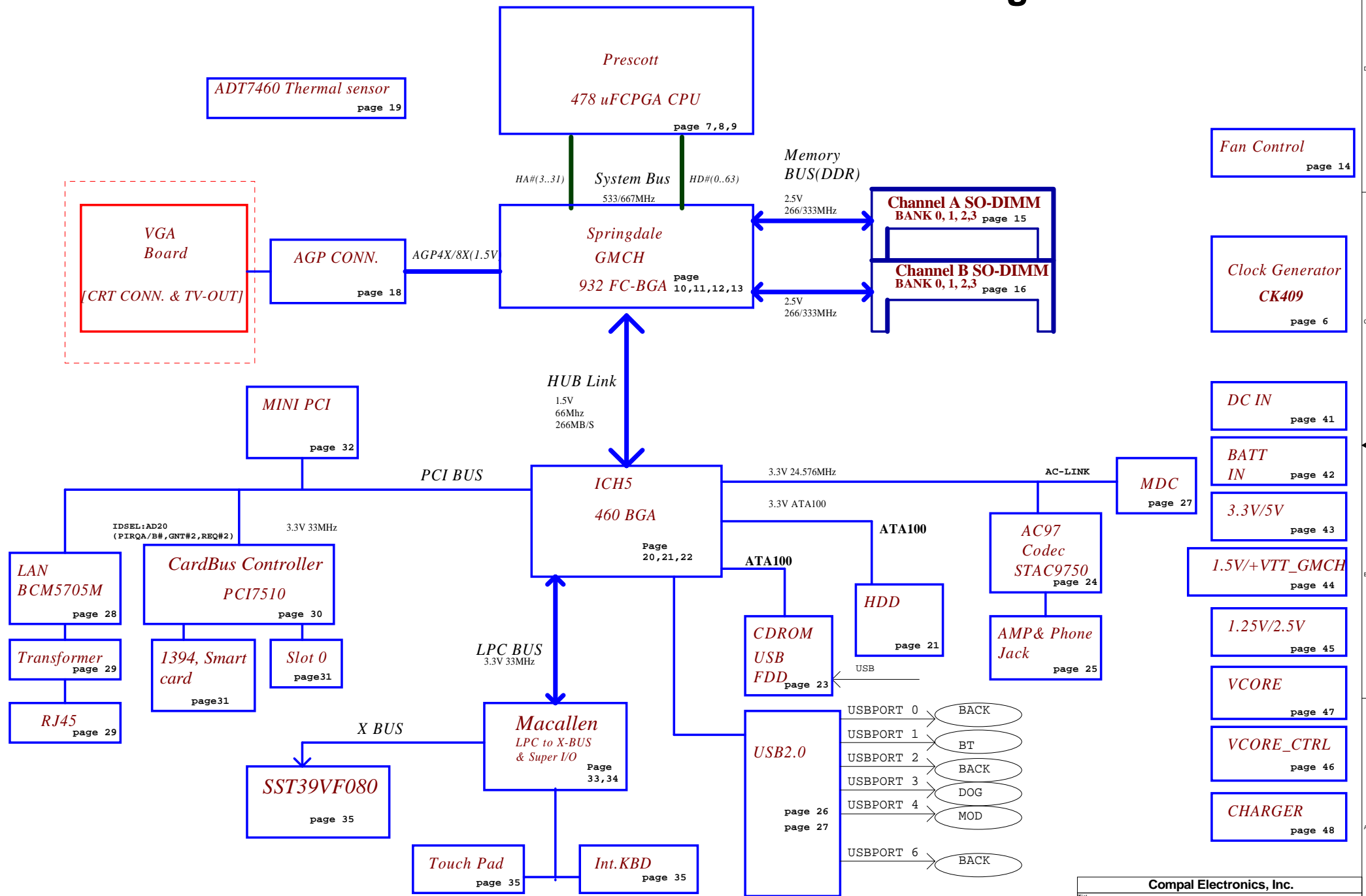
ICH5: N/A

@ : Depop Component
1@ : Depop on Nimitz (Inspiron)
2@ : Depop on Beijing (Precision)

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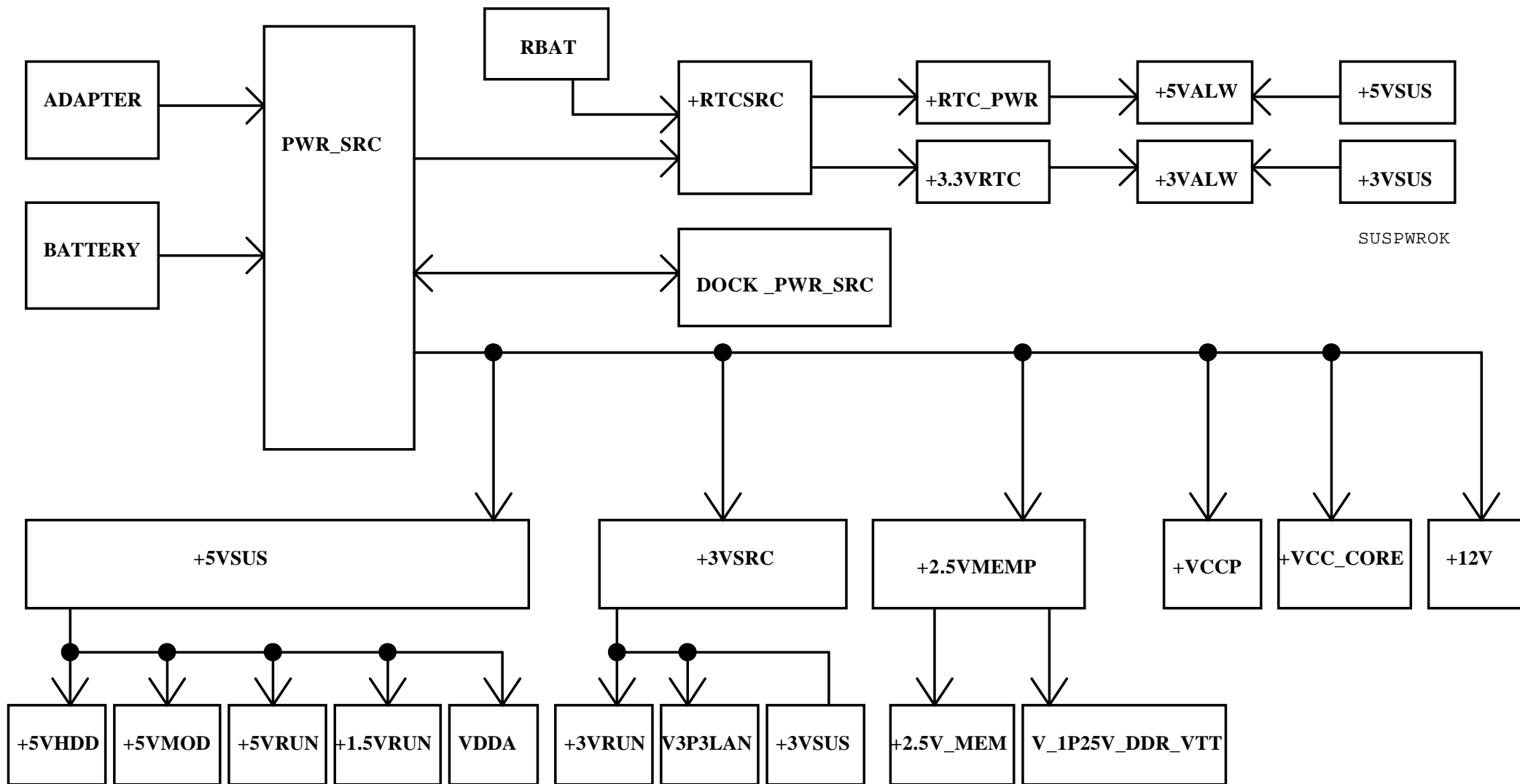
Compal Electronics, Inc.		
Title		
Cover Sheet		
Size	Document Number	Rev
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Block Diagram



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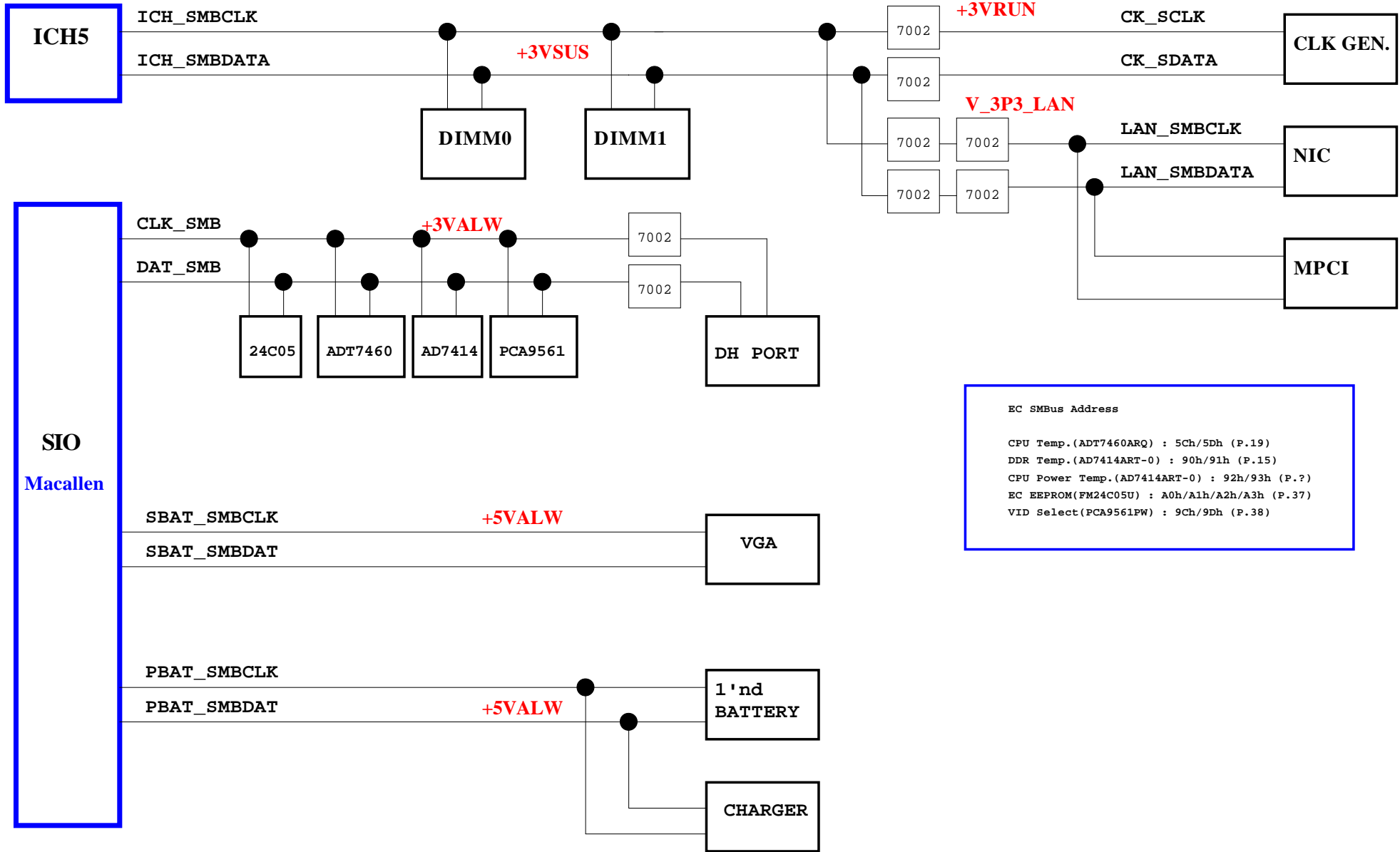
Compal Electronics, Inc.		
Block Diagram		
Size	Document Number	Rev
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SUSPWROK

Compal Electronics, Inc.			
Title Power Rail			
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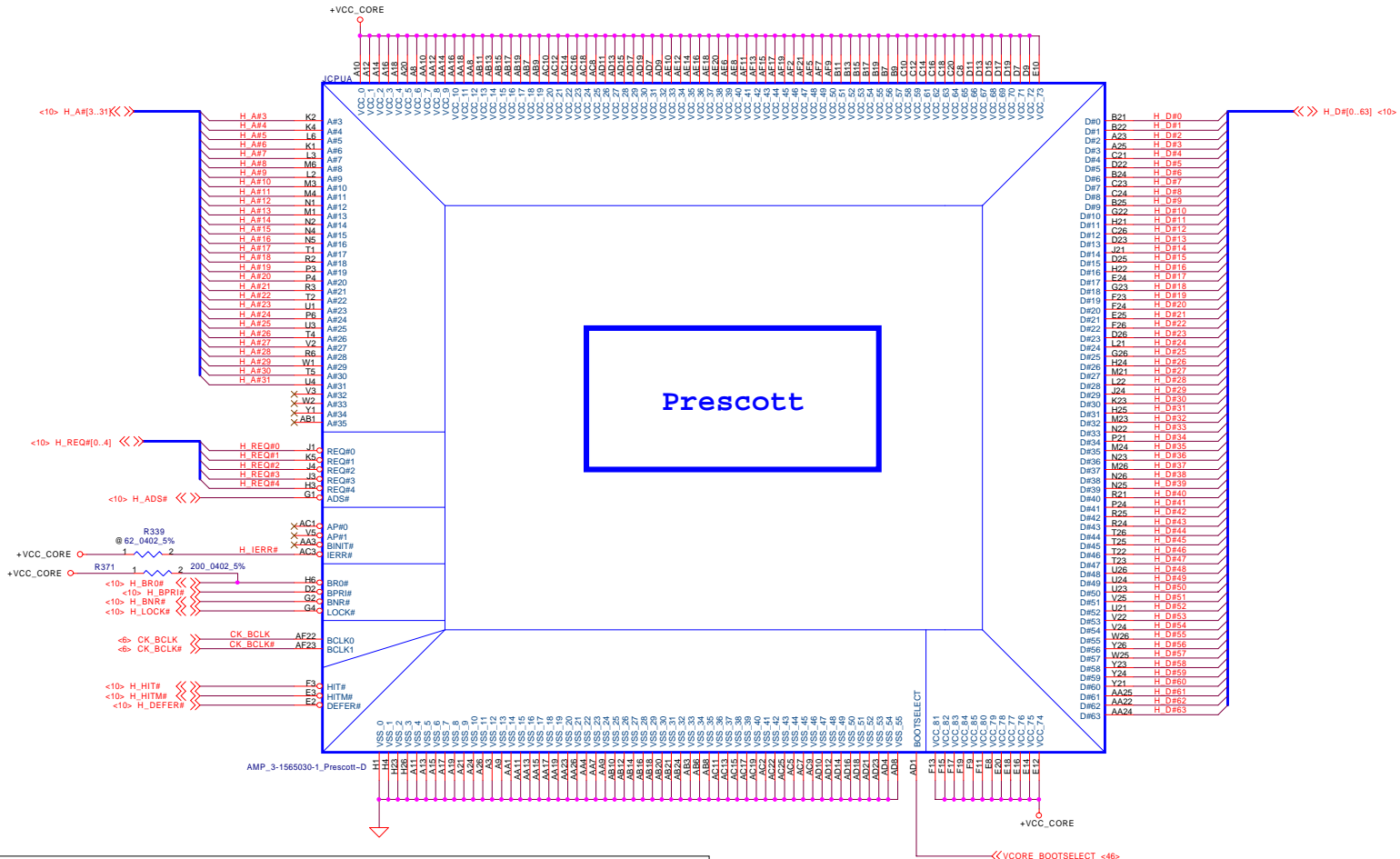


EC SMBus Address

CPU Temp.(ADT7460ARQ) : 5Ch/5Dh (P.19)
 DDR Temp.(AD7414ART-0) : 90h/91h (P.15)
 CPU Power Temp.(AD7414ART-0) : 92h/93h (P.?)
 EC EEPROM(FM24C05U) : A0h/A1h/A2h/A3h (P.37)
 VID Select(PCA9561PW) : 9Ch/9Dh (P.38)

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Title			
SMBUS TOPOLOGY			
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Reference Intel document
Desktop P4 Spec.: 10988 P4 0.13u 512KB L2 EMTS Rev.2.0
Desktop Prescott Spec.: 11910 Prescott EMTS Rev.0.5

Pin number	Northwood Pin name	Comment	Prescott Pin name	Comment	Northwood MT Pin name	Comment	Northwood	Prescott	Northwood MT
A6	TESTH11	Pull-up 200ohm to +VCC_CORE	TESTH11	Pull-up 62ohm to +VCC_CORE	GHI	Connect to PLD CPU/PBF through 0ohm	Pop	Pop	Pop
B6	FERR#	Pull-up 62ohm to +VCC_CORE	FERR#/PBR#	Pull-up 62ohm to +VCC_CORE	FERR#	Pull-up 62ohm to +VCC_CORE	Pop	Pop	Pop
AA20	ITPCLKOUT0	Pull-up 56ohm to +VCC_CORE	TESTH16	Pull-up 62ohm to +VCC_CORE	ITPCLKOUT0	Pull-up 56ohm to +VCC_CORE	Pop	Pop	Pop
AB22	ITPCLKOUT1	Pull-up 56ohm to +VCC_CORE	TESTH17	Pull-up 62ohm to +VCC_CORE	ITPCLKOUT1	Pull-up 56ohm to +VCC_CORE	Pop	Pop	Pop
AD2	NC	float	VIDPWRGD	Pull-up 2.43K ohm to +VCCVID	NC	float	Depop	Pop	Depop
AD3	NC	float	VID5	Pull-up 1Kohm to +3VRUN & connect to PWRIIC	NC	float	Depop	Pop	Depop
AF3	NC	float	VCCVIDLB	Connect to +VCCVID	NC	float	Depop	Pop	Depop
AD20	VCCA	Connect to CPU Filter	VCCIOPLL	Connect to CPU Filter	VCCA	Connect to CPU Filter			
AF23	VCCIOPLL	Connect to CPU Filter	VCCA	Connect to CPU Filter	VCCIOPLL	Connect to CPU Filter			
AE26	VSS	Connect to GND	OPTIMIZED/COMPAT#	float	VSS	Connect to GND	Pop	Depop	Pop
AD25	TESTH12	Pull-up 200ohm to +VCC_CORE	TESTH12	Pull-up 62ohm to +VCC_CORE	DPSLP	Connect to PLD through 0ohm	Pop	Pop	Pop

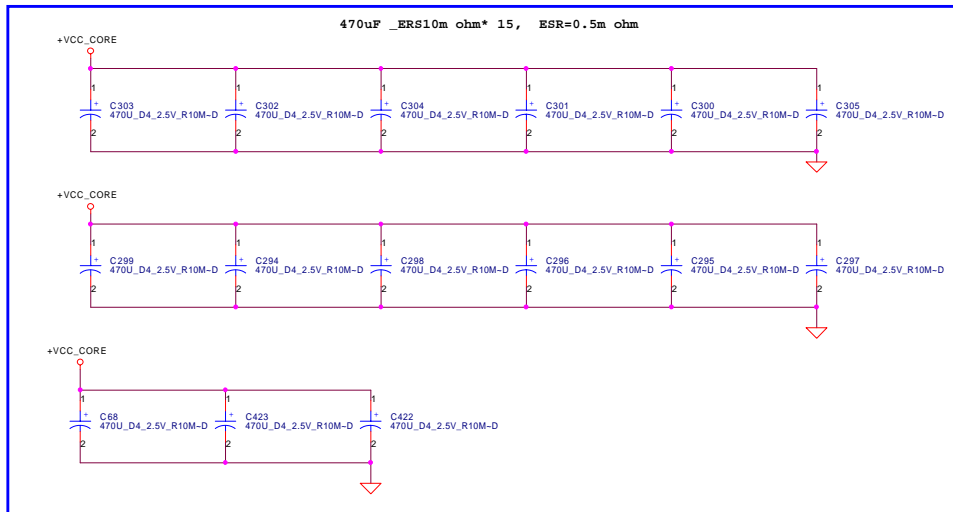
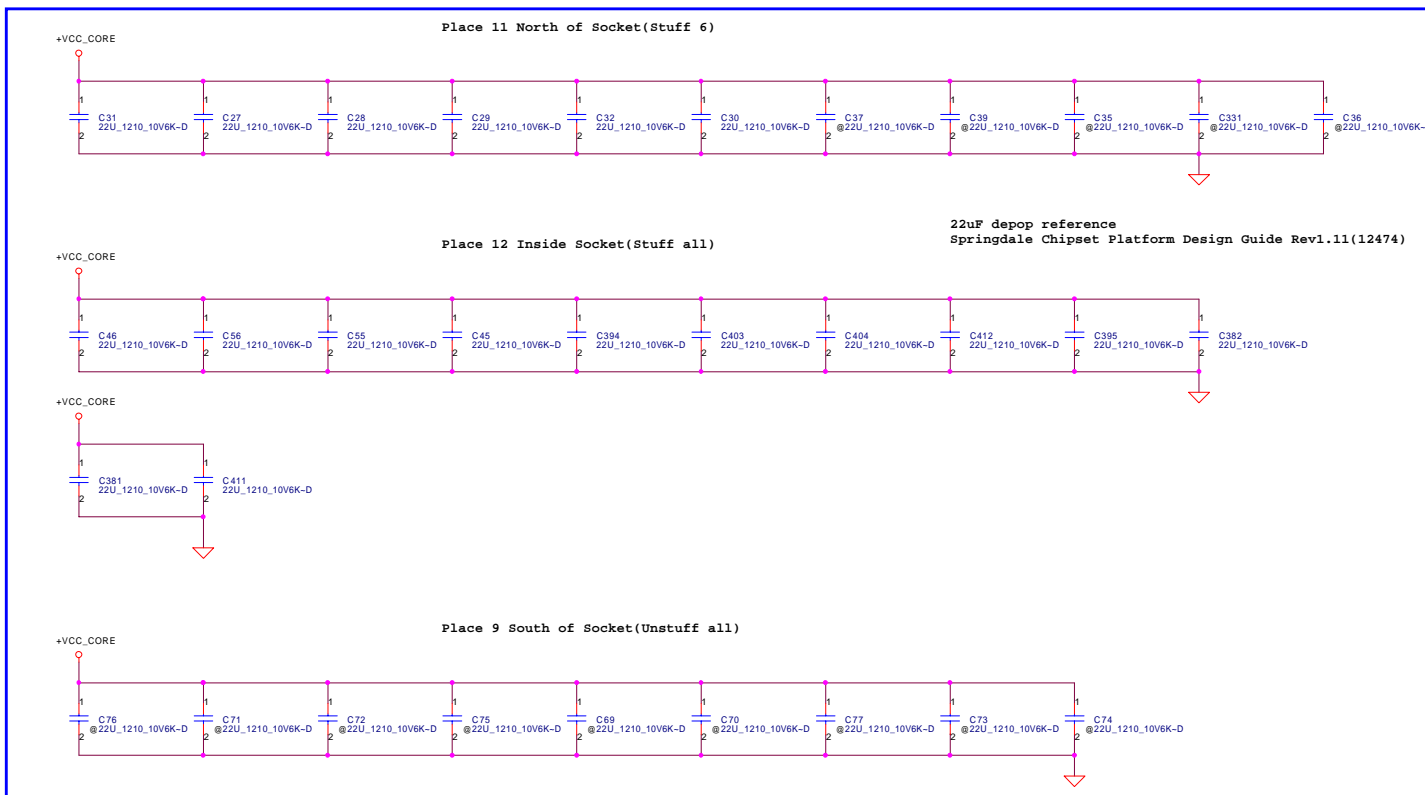
Note: AD2,AD3 pop(bring up)

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Prescott Processor in uFCPGA478

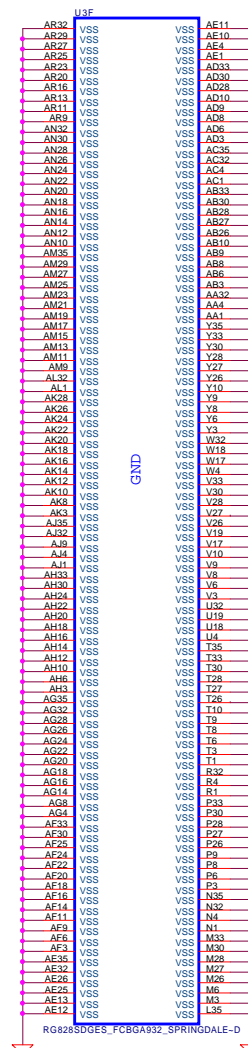
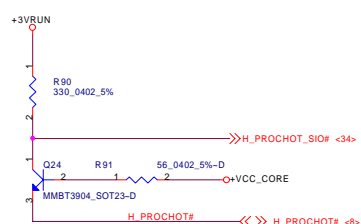
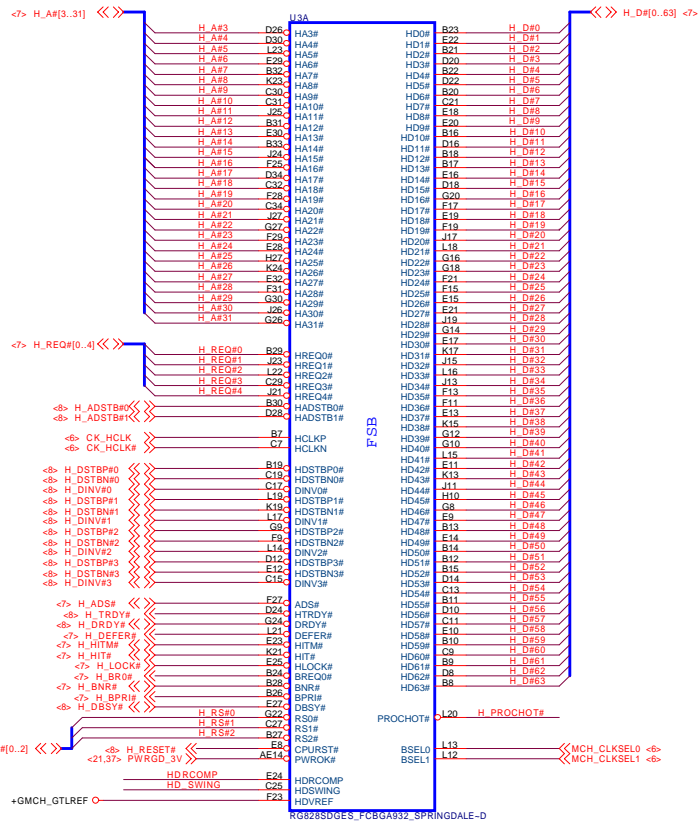
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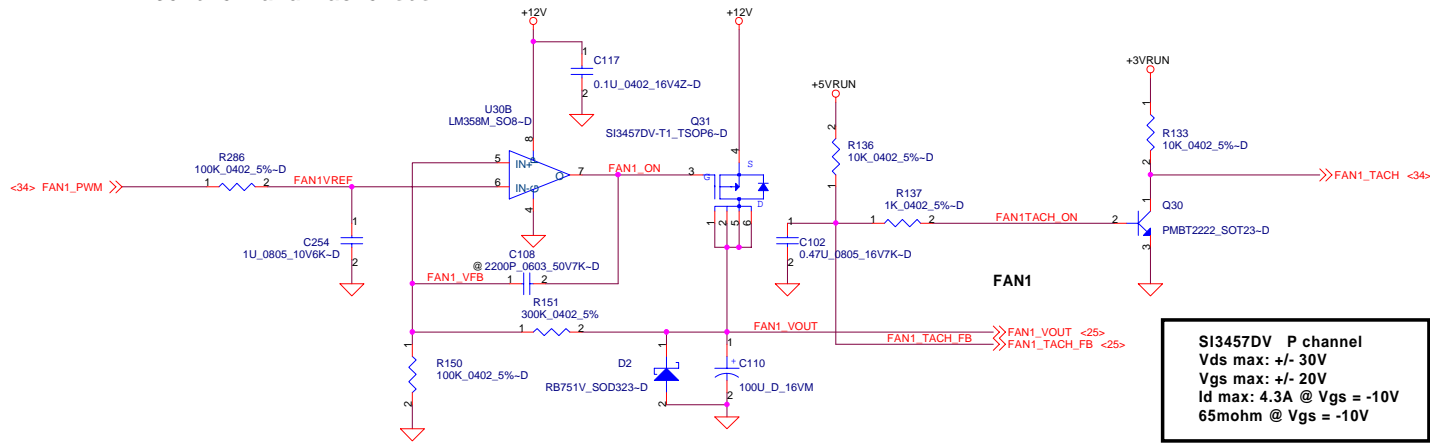
Decoupling Reference Document:
Springdale Chipset Platform Design guide Rev1.11 (12474)page239

Decoupling Reference Requirement:
560uF Polymer, ESR:5m ohm(each) * 10
22uF X5R * 32

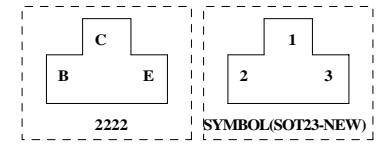
Compal Electronics, Inc.		
Title CPU Decoupling		
Size C	Document Number LA-1711	Rev K00-G
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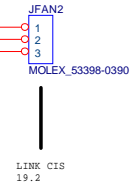
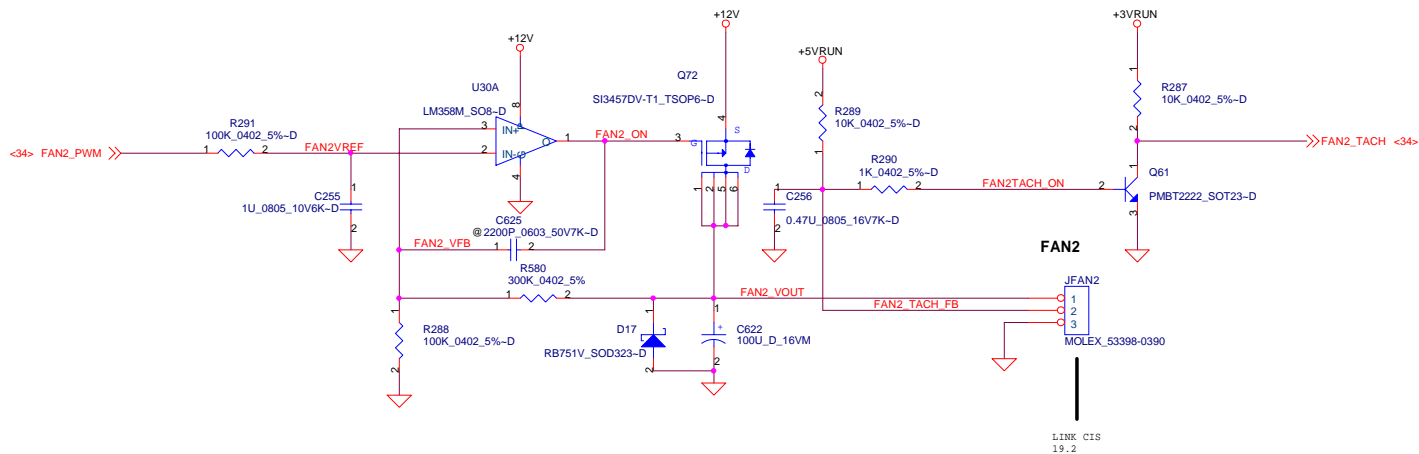
FAN1 Control and Tachometer



SI3457DV P channel
Vds max: +/- 30V
Vgs max: +/- 20V
Id max: 4.3A @ Vgs = -10V
65mohm @ Vgs = -10V



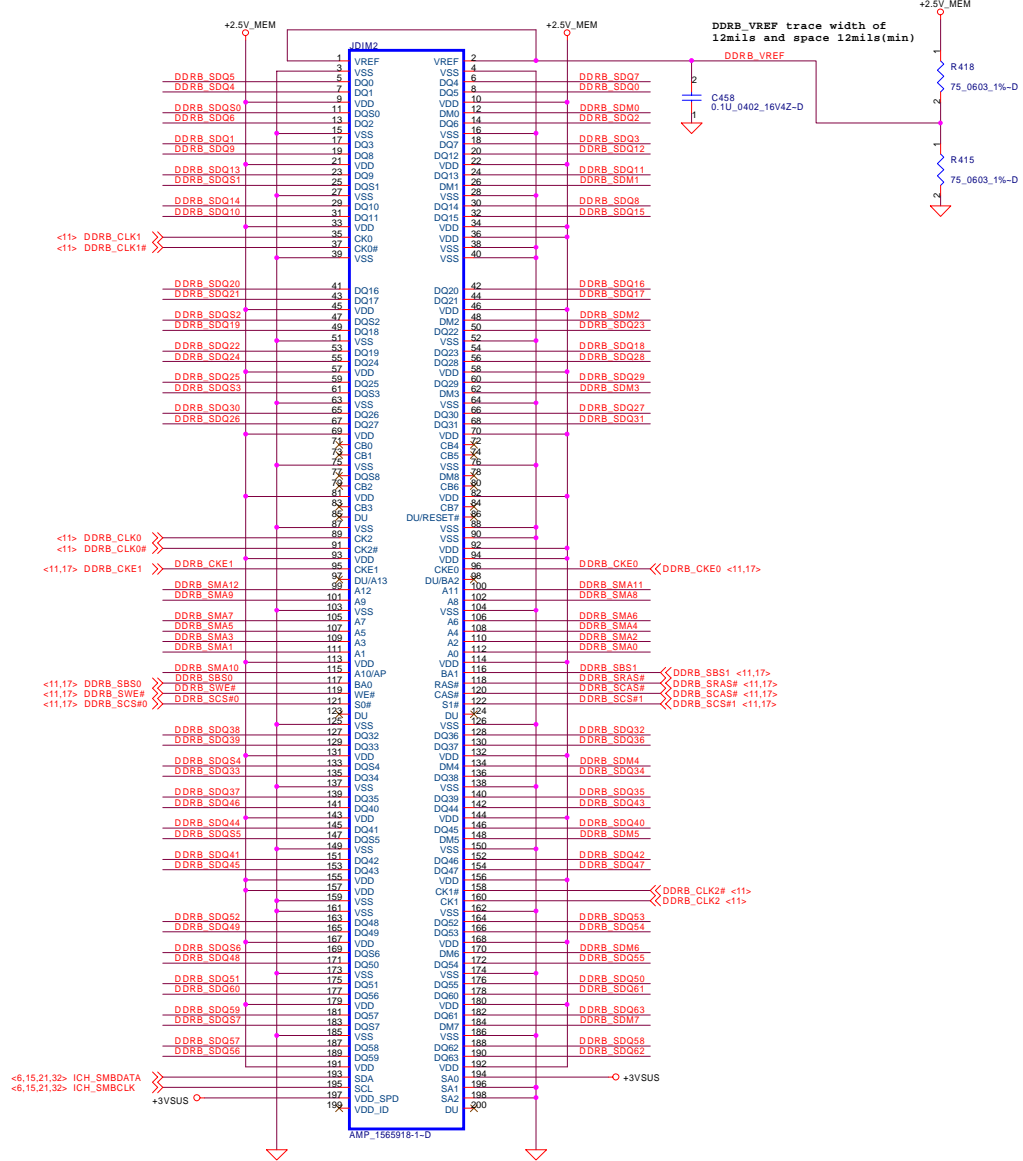
FAN2 Control and Tachometer



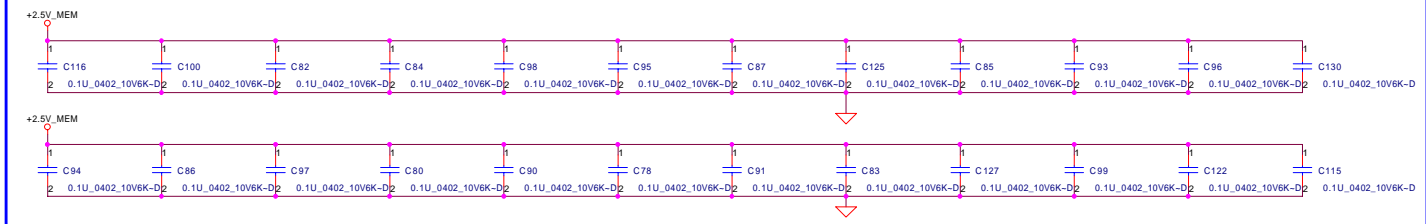
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FAN CONTROL			
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<11,17> DDRB_SDQ[0..63] <<> DDRB_SDQ[0..63]
 <11,17> DDRB_SDO[0..7] <<> DDRB_SDO[0..7]
 <11,17> DDRB_SMA[0..12] <<> DDRB_SMA[0..12]
 <11,17> DDRB_SDM[0..7] <<> DDRB_SDM[0..7]



System Memory Decoupling caps



Follow
 Decoupling Reference Document:
 Springdale Customer Schematic R1.2 page26
 each Channel(two DIMMs) requirement 0.1uF*24

DIMM1 REVERSE

Compal Electronics, Inc.		
DDR-SODIMM SLOT2		
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<12> G_ST[0..2] <<>

<12> G_AD[0..31] <<>

<12> G_C/BE#[0..3] <<>

<12> G_SBA#[0..7] <<>

<6> CK_66M_AGP <<> CK_66M_AGP

<12> G_REQ# <<> G_REQ#

<12> G_ST0 <<> G_ST0

<12> G_ST1 <<> G_ST1

<12> G_ST2 <<> G_ST2

AGP8X_DET_GC : low -->AGP3.0 ; High -->AGP2.0

Note:
AGP8X_DET_GC : Pull low by an AGP3.0 graphics card
Floating by an AGP2.0 graphics card

<12> G_AD_STBF0 <<> G_AD_STBF0

<12> G_AD_STBS0# <<> G_AD_STBS0#

<12> G_AD_STBF1 <<> G_AD_STBF1

<12> G_AD_STBS1# <<> G_AD_STBS1#

<12> G_SB_STBF <<> G_SB_STBF

<12> G_SB_STBS# <<> G_SB_STBS#

<12> G_FRAME# <<> G_FRAME#

<12> G_DEVSEL# <<> G_DEVSEL#

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<12> G_TRDY# <<> G_TRDY#

<12> G_STOP# <<> G_STOP#

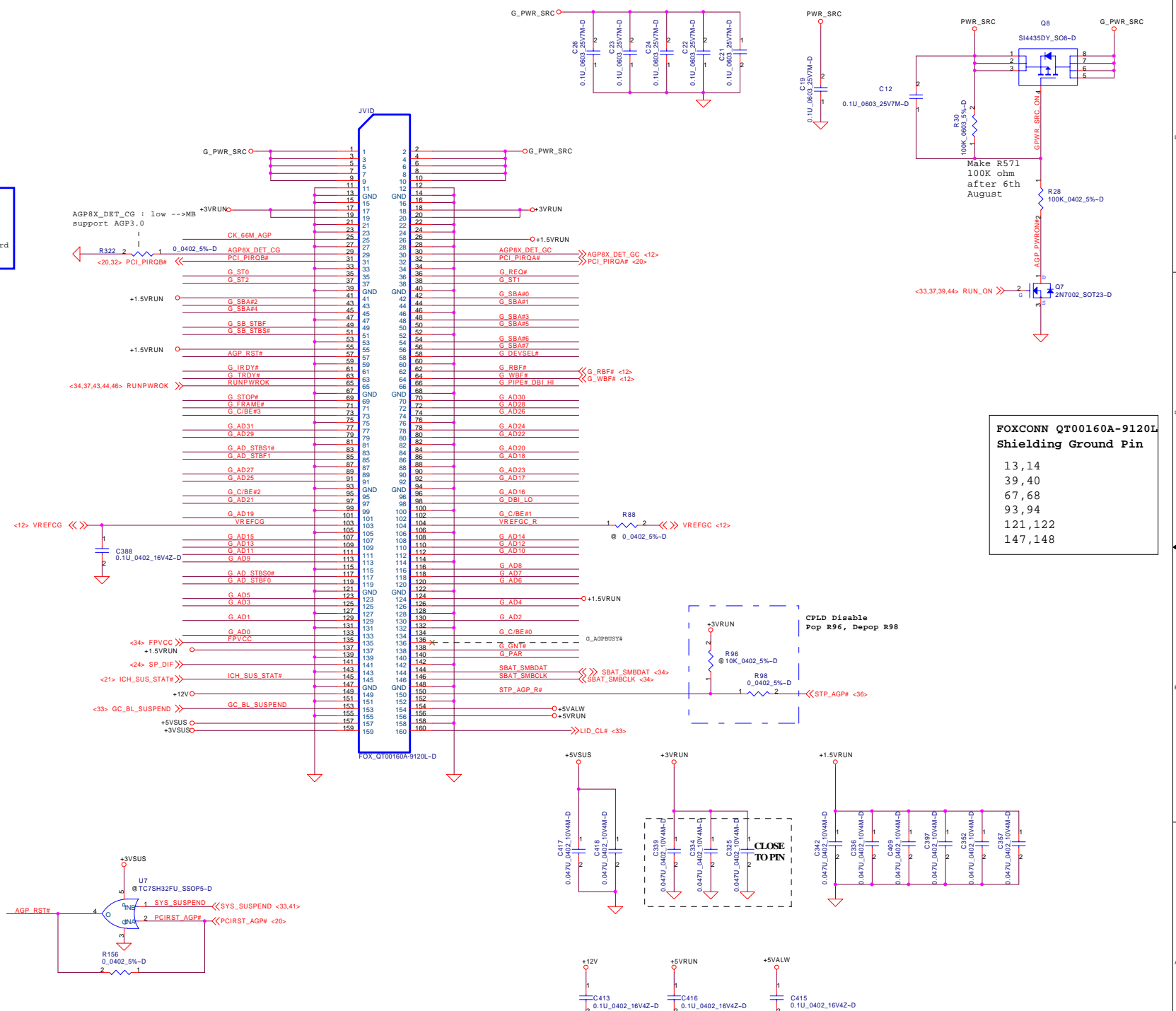
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<12> G_REQ# <<> G_REQ#

<12> G_GNT# <<> G_GNT#

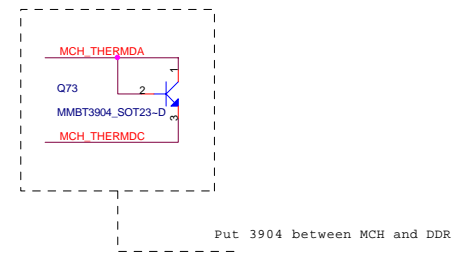
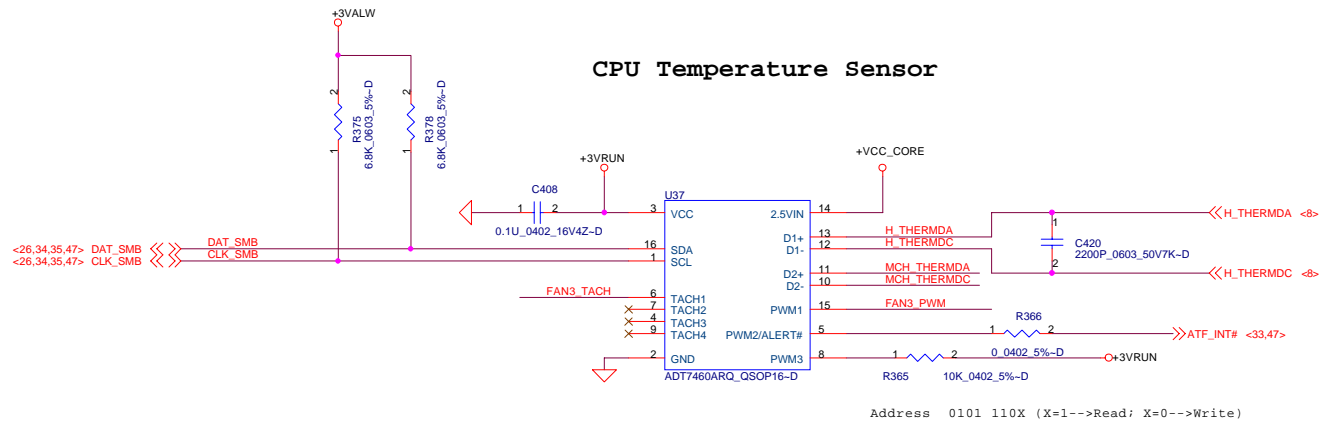
<12> G_PIPE#_DBI_HI <<> G_PIPE#_DBI_HI

<12> G_DBIL_O <<> G_DBIL_O

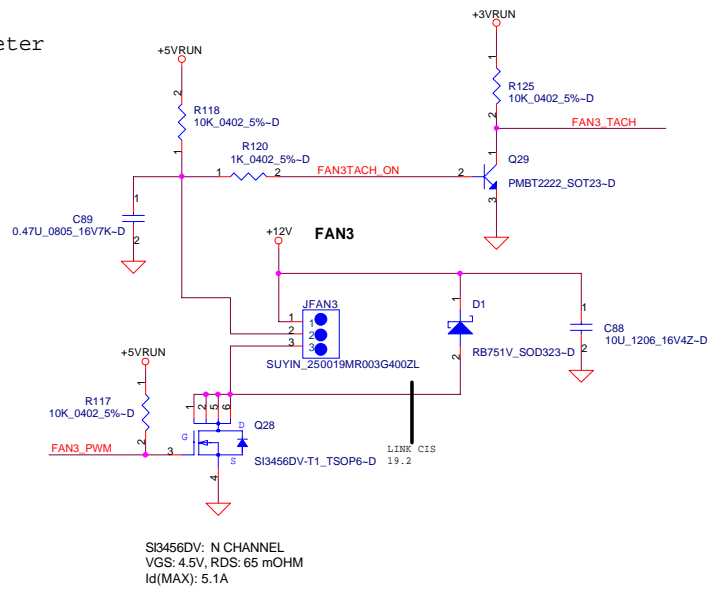


FOXCONN Q700160A-9120L-D
Shielding Ground Pin

13,14
39,40
67,68
93,94
121,122
147,148

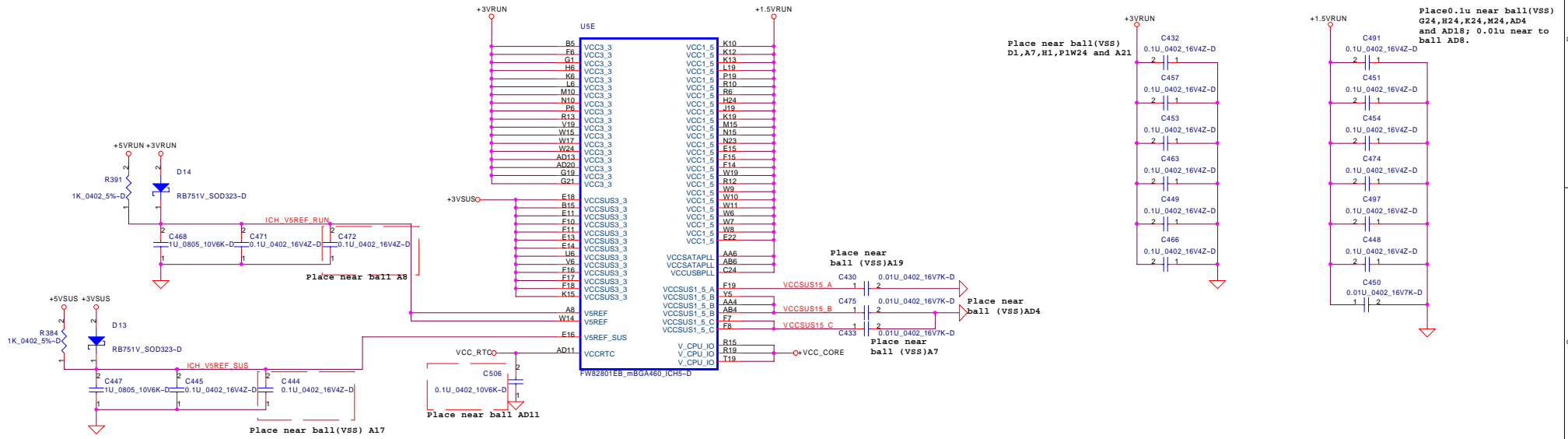


FAN3 Control and Tachometer

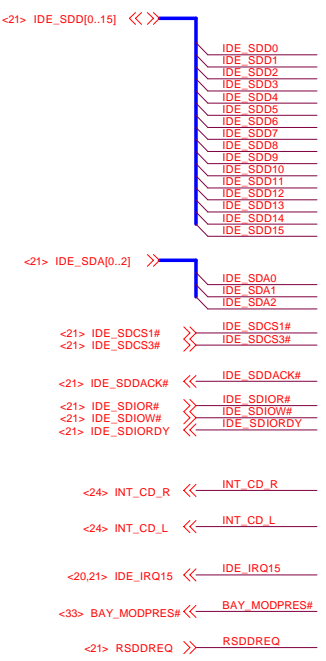


Compal Electronics, Inc.			
Title CPU Thermal Sensor & FAN Control			
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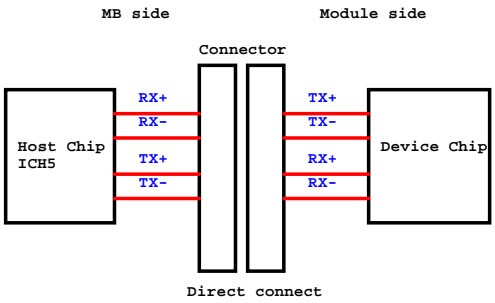
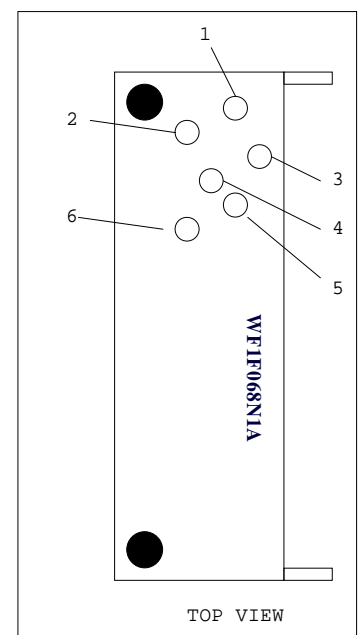
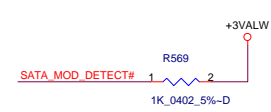
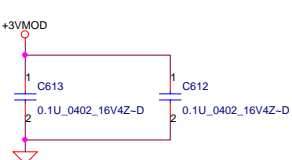
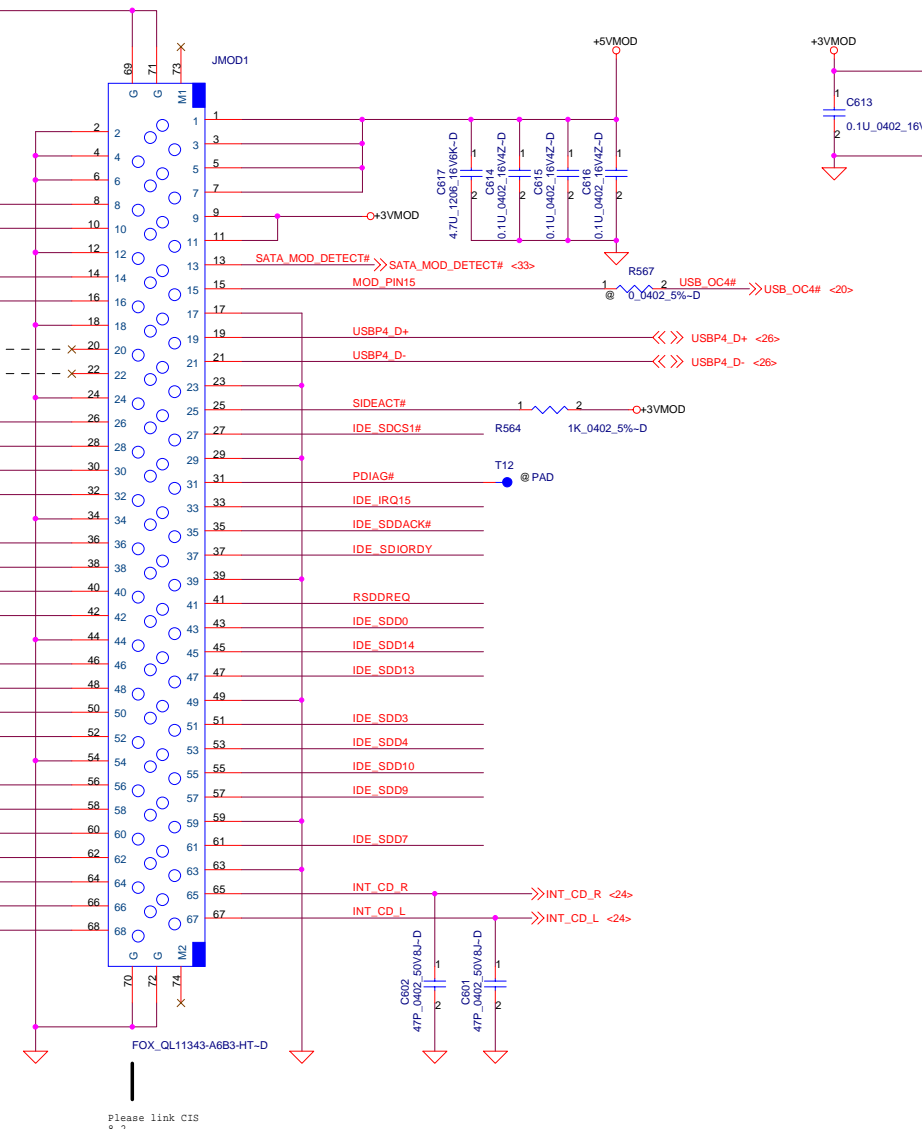
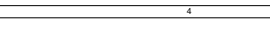
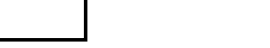
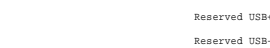
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Decoupling Reference Document:
Springdale Chipset Platform Design guide Rev1.11
(12474)page278



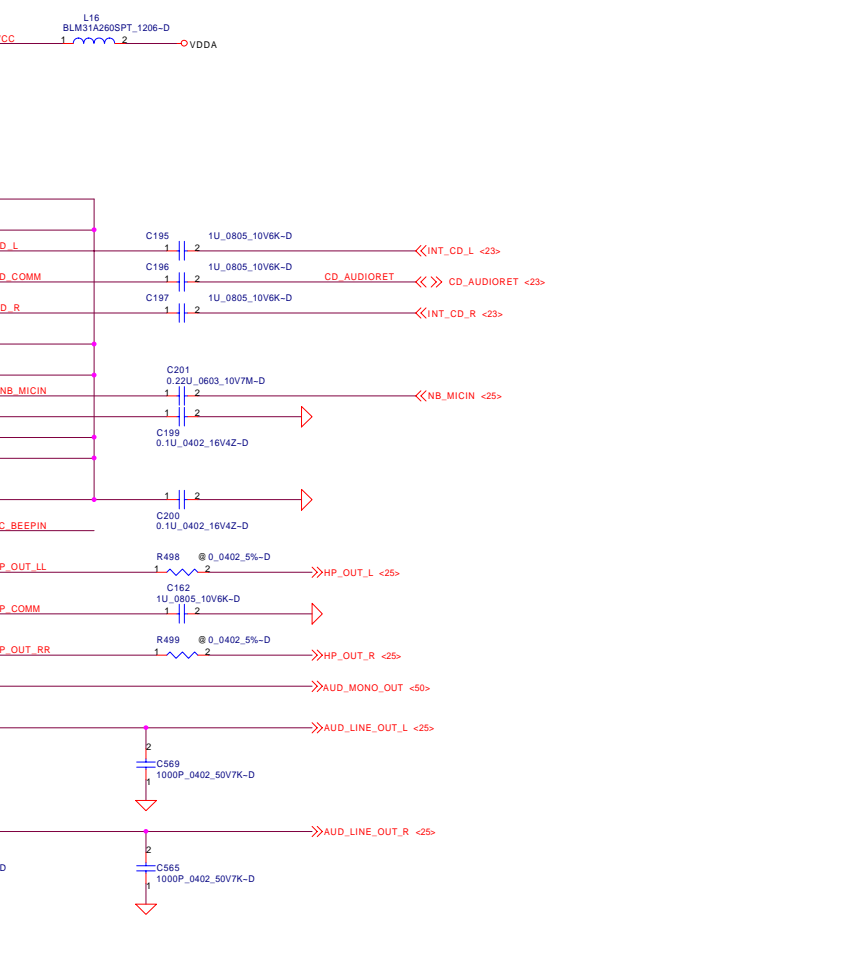
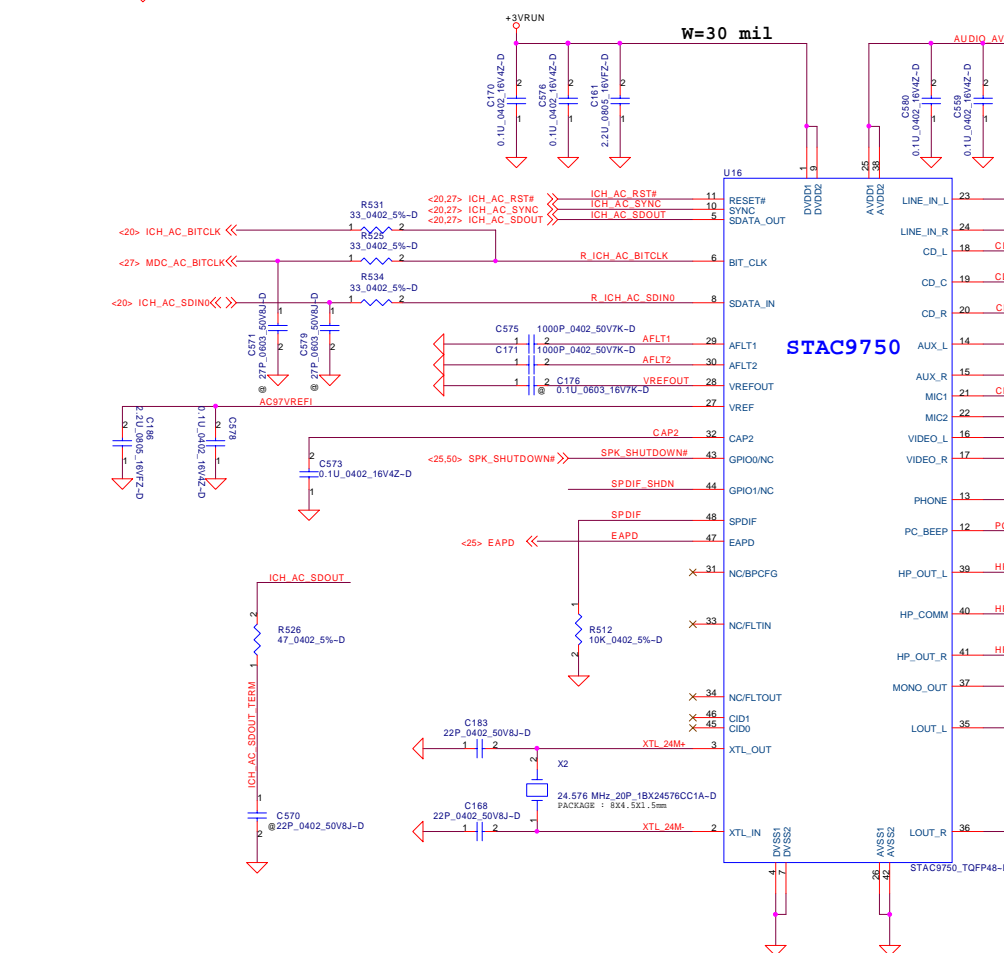
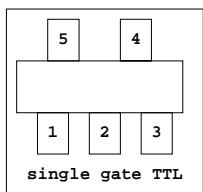
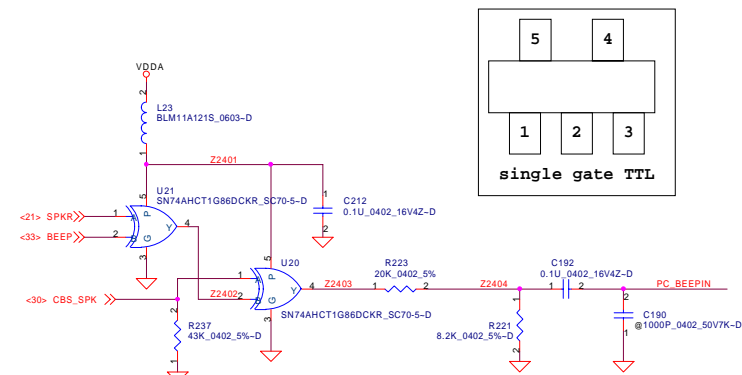
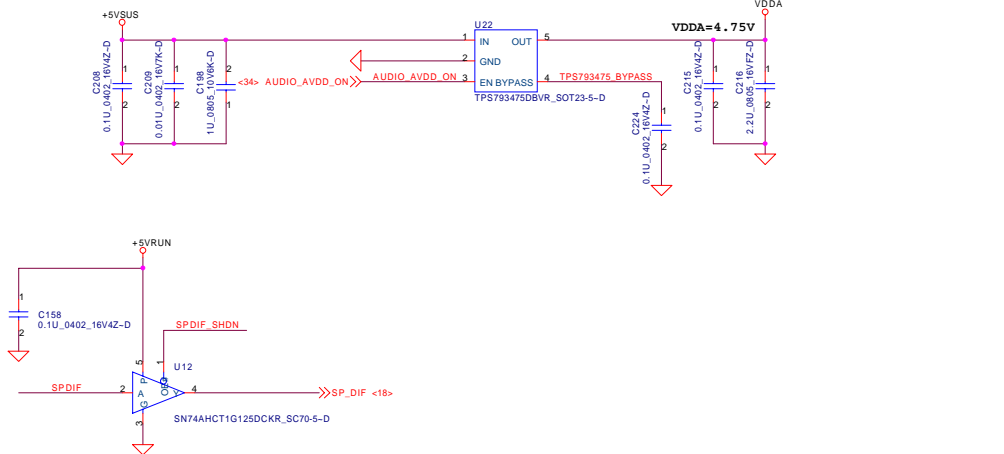
swap by Dell require
Please see sketch



D-MODULE Detect

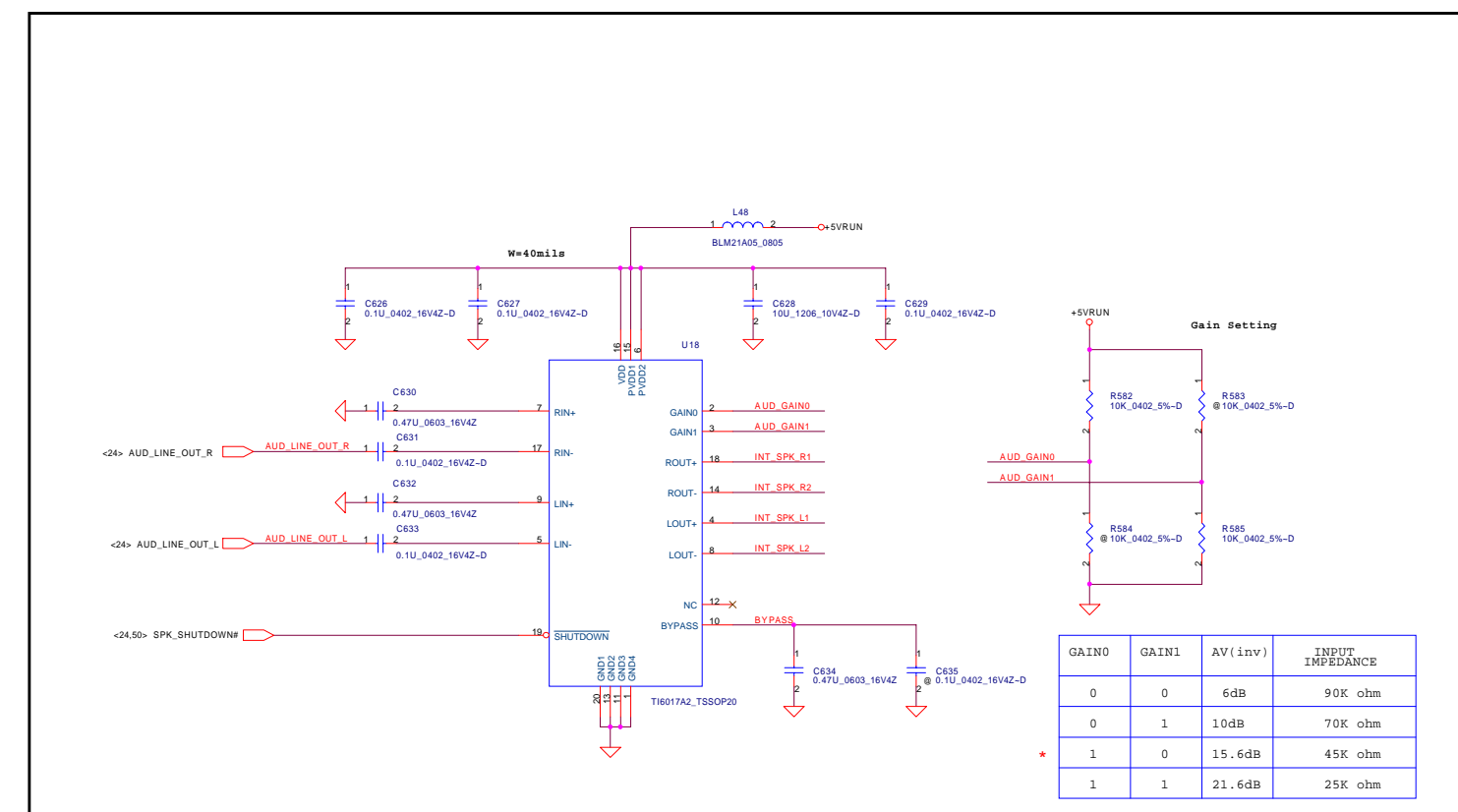
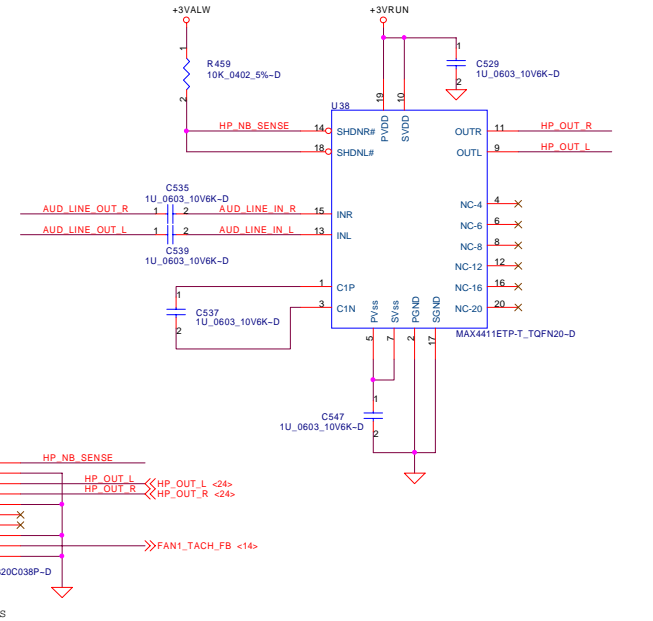
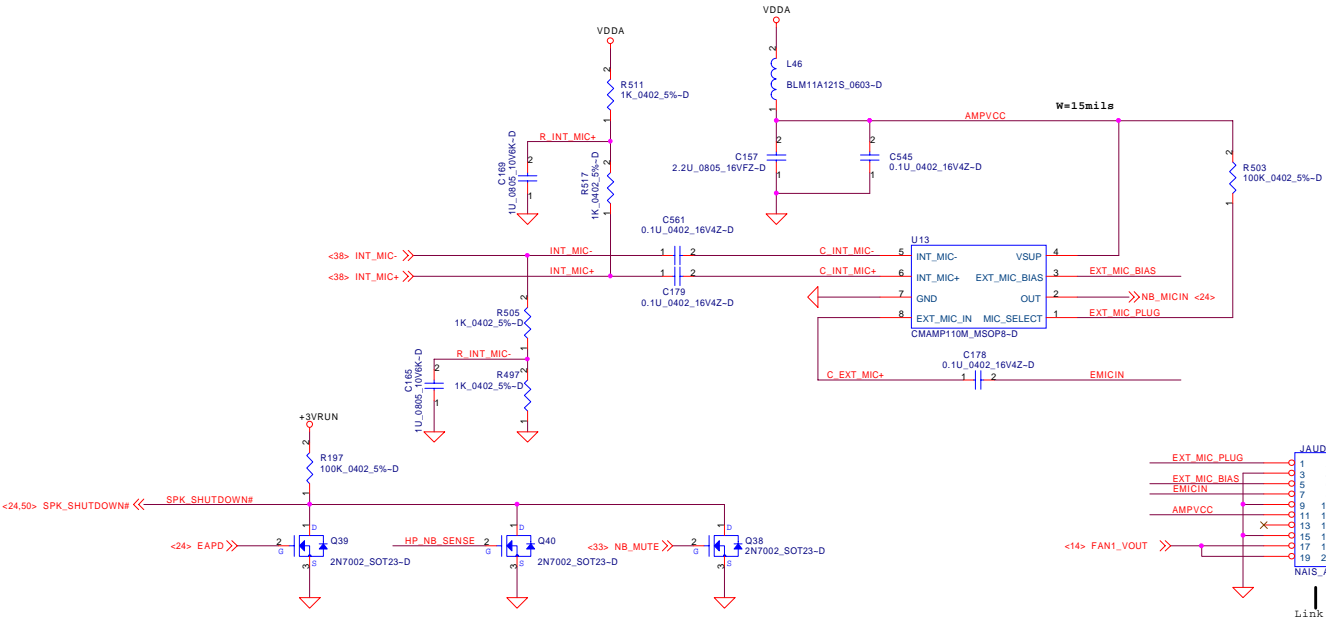
	JMOD1	Pin68 BAY_MODPRES#	Pin64 USB_IDE#	Pin13 SATA_MOD_DETECT#
Parallel IDE		LOW	LOW	HIGH
USB Device		LOW	HIGH	HIGH
S-ATA IDE		LOW	HIGH	LOW
None		HIGH	X	X

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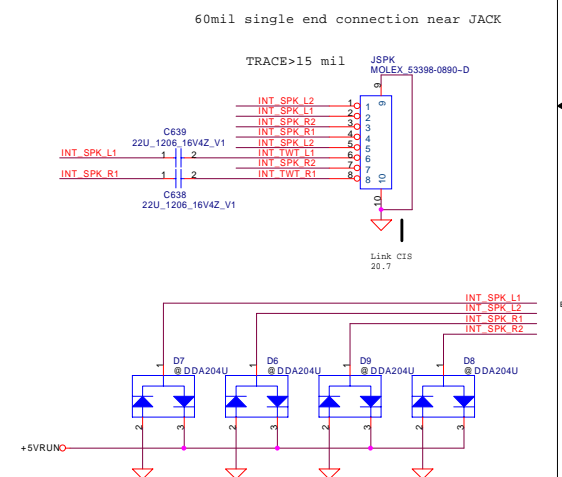
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Title	AC97 Codec	
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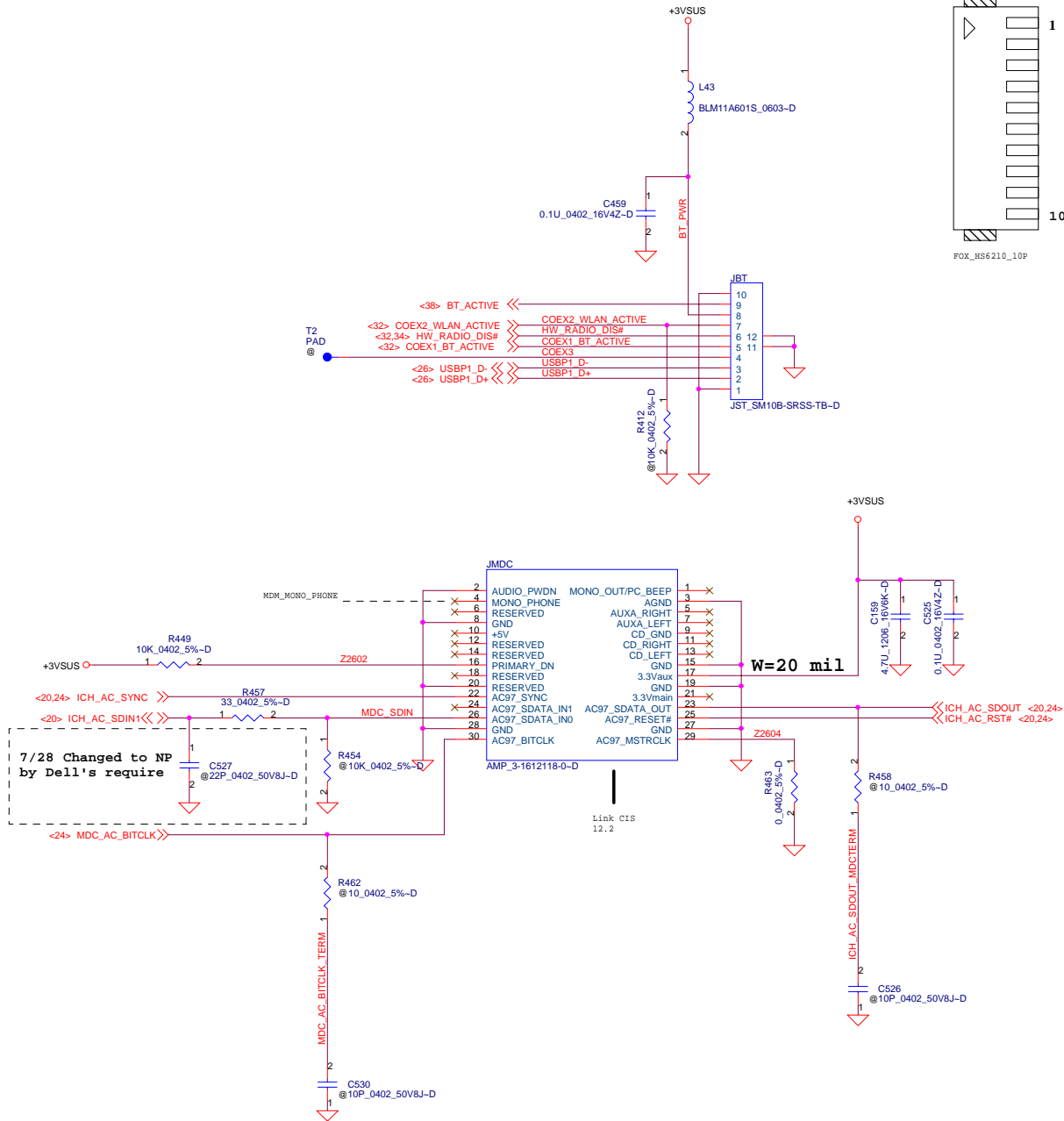
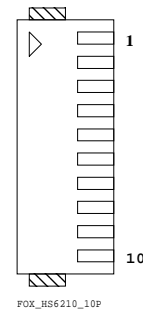


Gain Setting

GAIN0	GAIN1	AV(inv)	INPUT IMPEDANCE
0	0	6dB	90K ohm
0	1	10dB	70K ohm
1	0	15.6dB	45K ohm
1	1	21.6dB	25K ohm

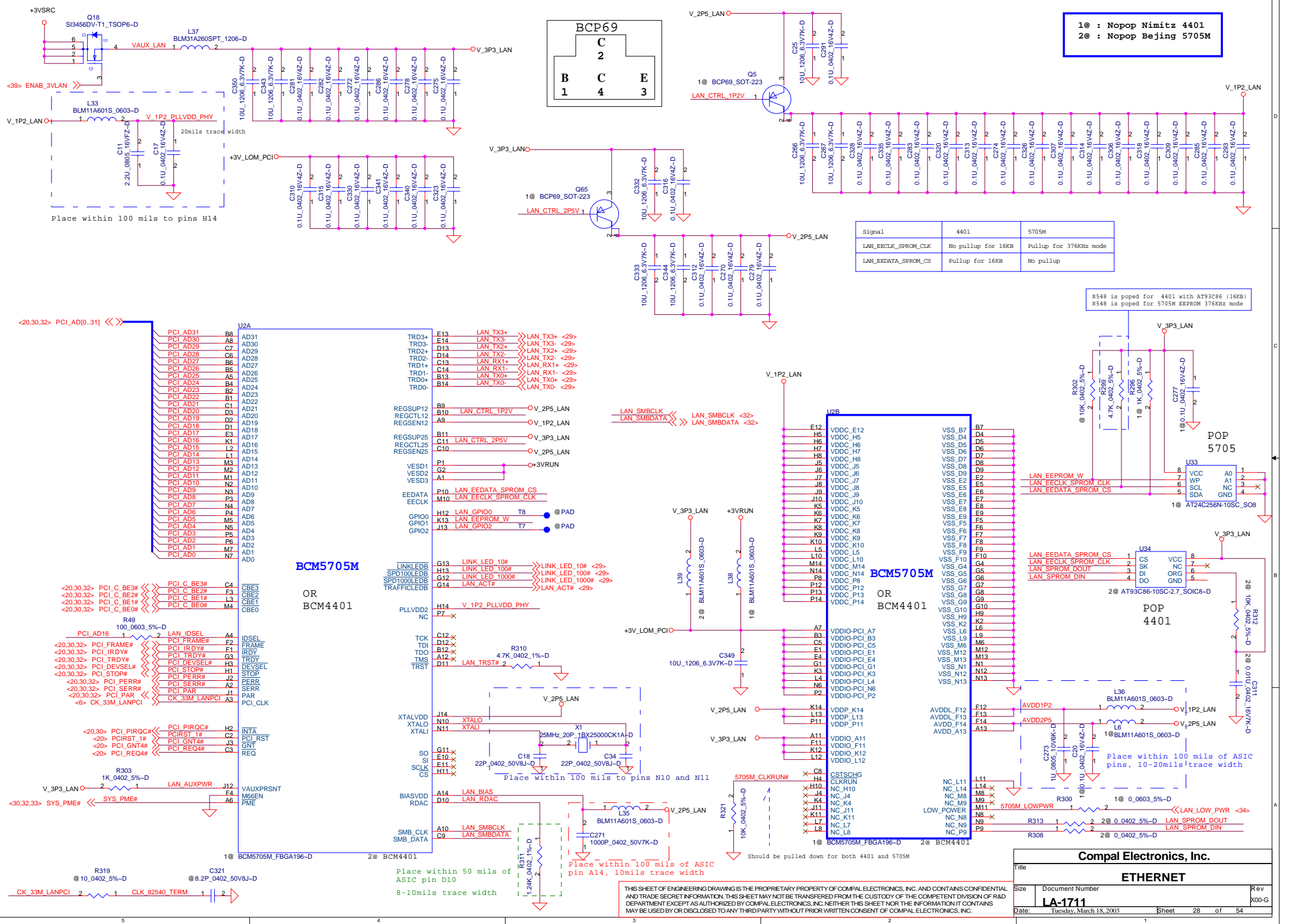


TOP view



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BT PORT and MDC			
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1@ : Nopop Nimitz 4401
 2@ : Nopop Beijing 5705M

Signal	4401	5705M
LAN_EECLK_SFROM_CLK	No pullup for 16KB	Pullup for 376KHz mode
LAN_EEDATA_SFROM_CS	Pullup for 16KB	No pullup

R548 is popped for 4401 with AT93C86 (16KB)
 R548 is popped for 5705M EPRFOM 376KHz mode

LAN EEPROM W
 LAN_EECLK_SFROM_CLK
 LAN_SFROM_DOUT
 LAN_SFROM_DIN

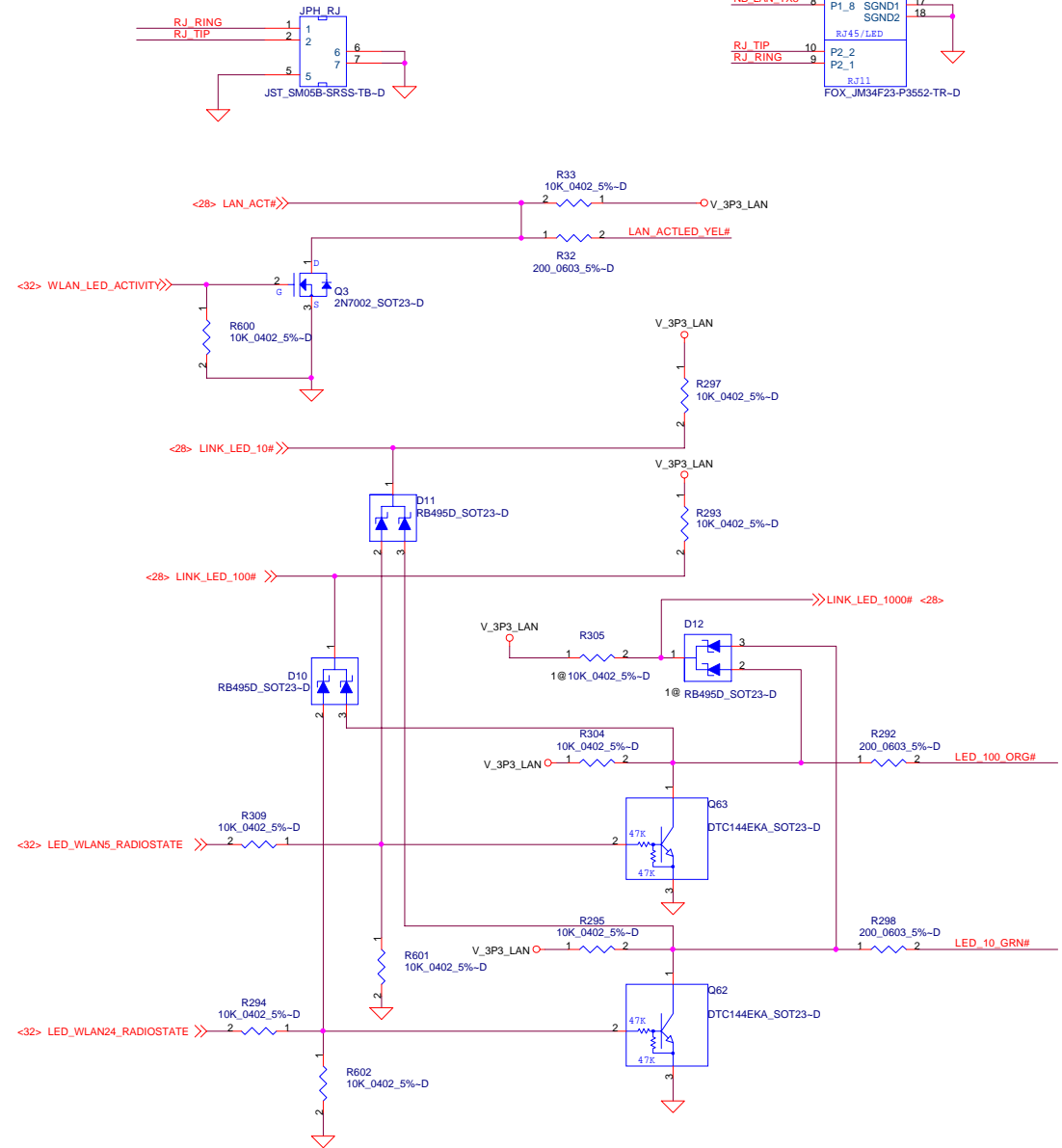
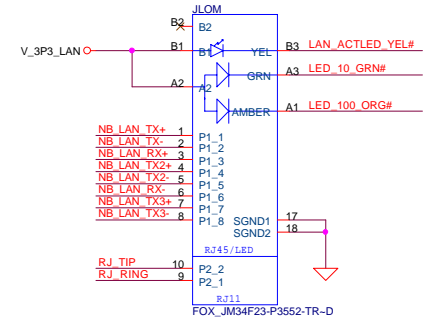
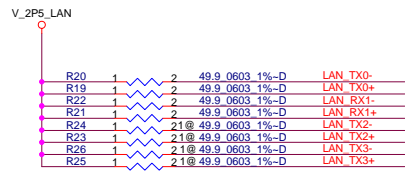
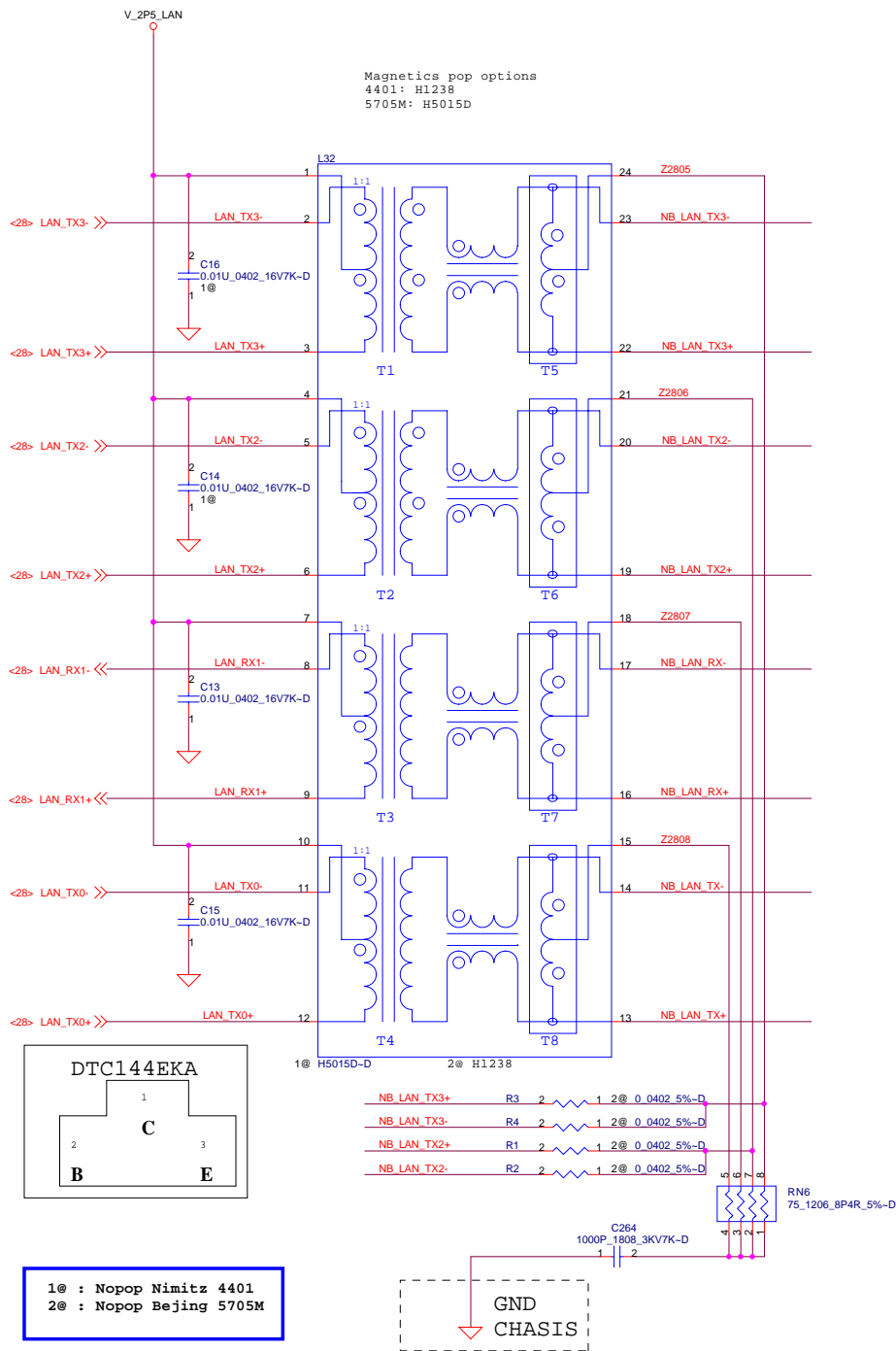
LAN_EEDATA_SFROM_CS
 LAN_EECLK_SFROM_CLK
 LAN_SFROM_DOUT
 LAN_SFROM_DIN

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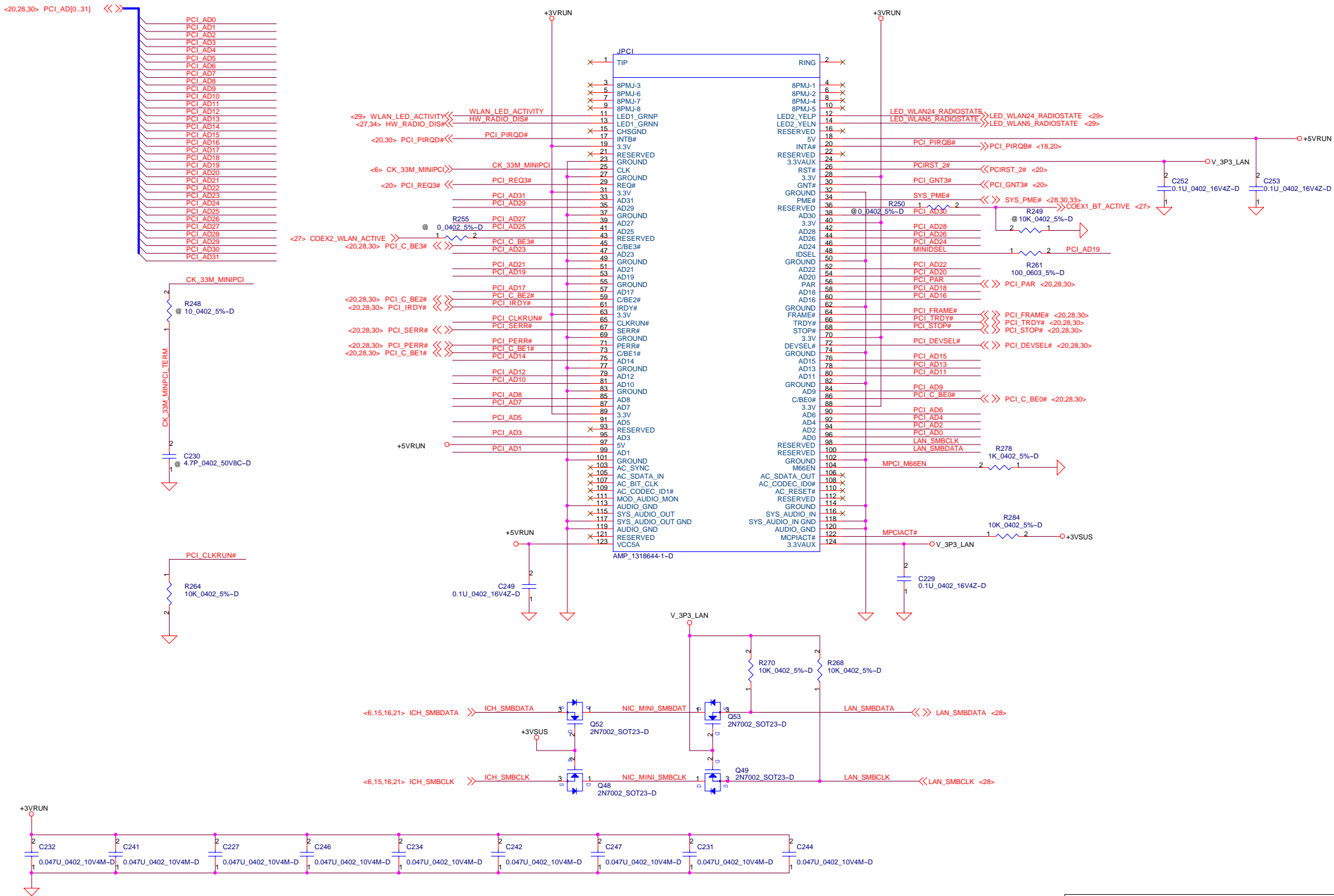
ETHERNET

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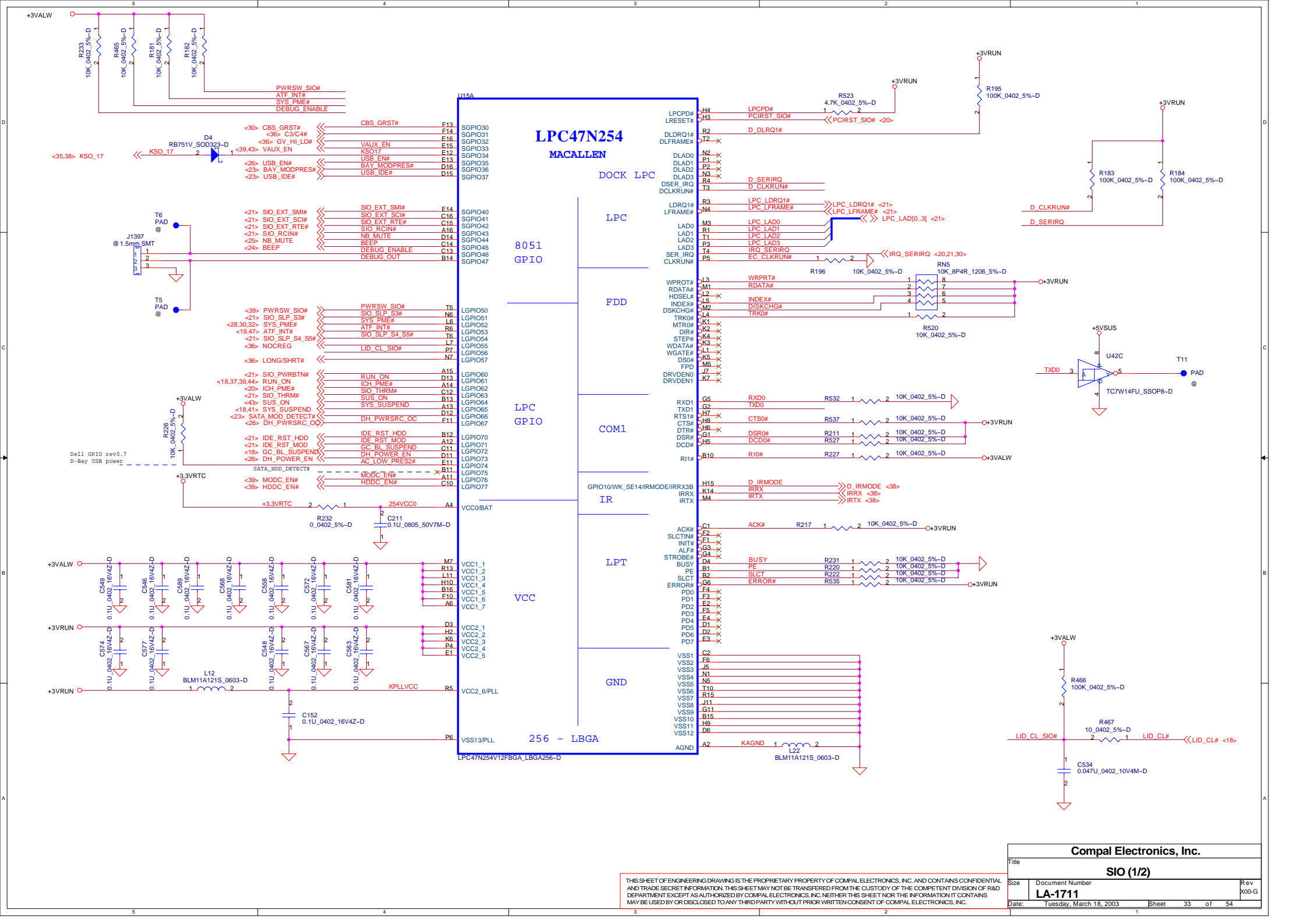
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LAN TRANSFORMER		
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MINIPCI			
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**LPC47N254
MACALLEN**

DOCK LPC

LPC

**8051
GPIO**

FDD

**LPC
GPIO**

COM1

GPIO10/WK_SE14/IRMODE/IRRX3B

IR

LPT

GND

256 - LPGA

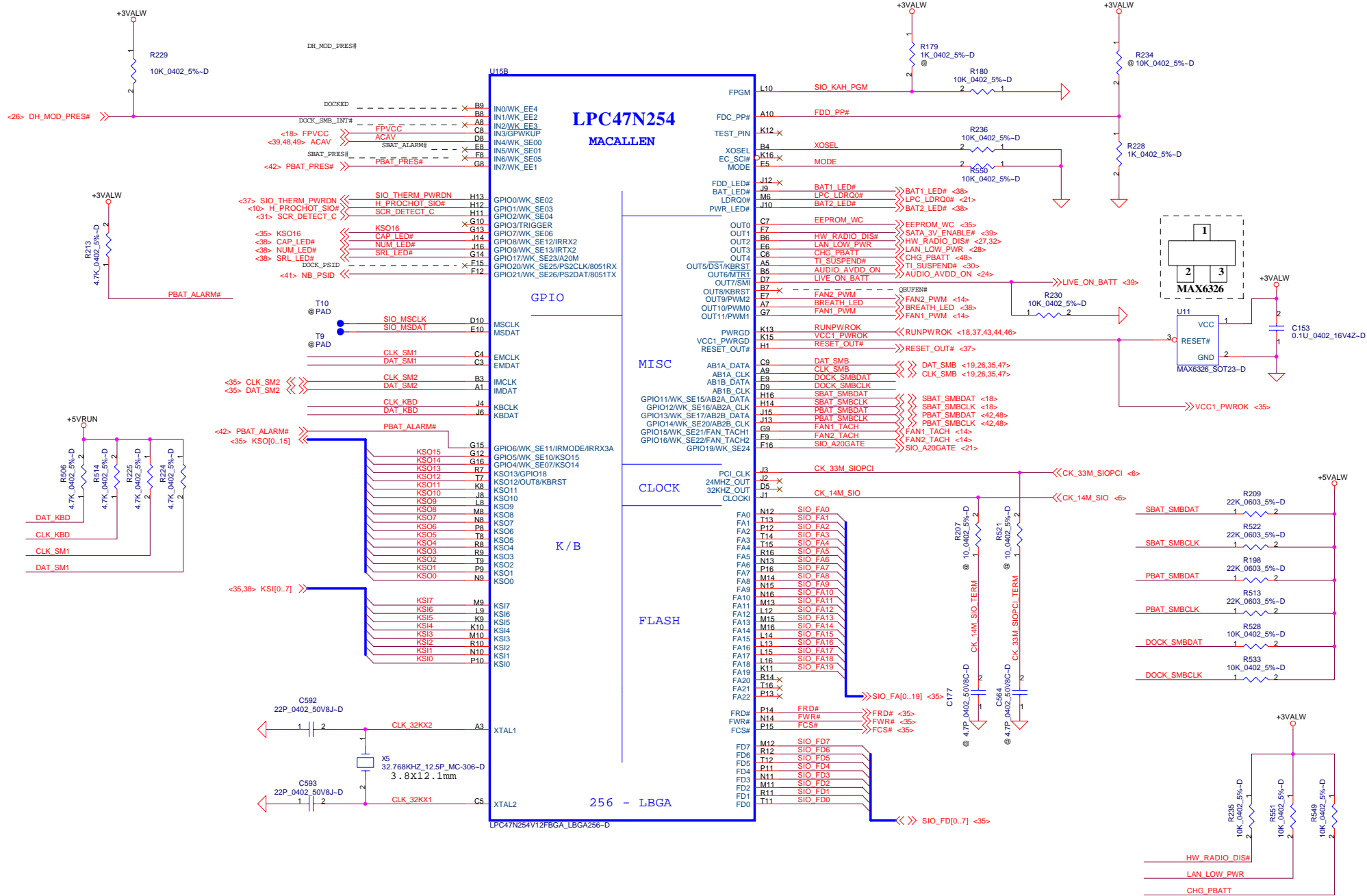
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Compal Electronics, Inc.

SIO (1/2)

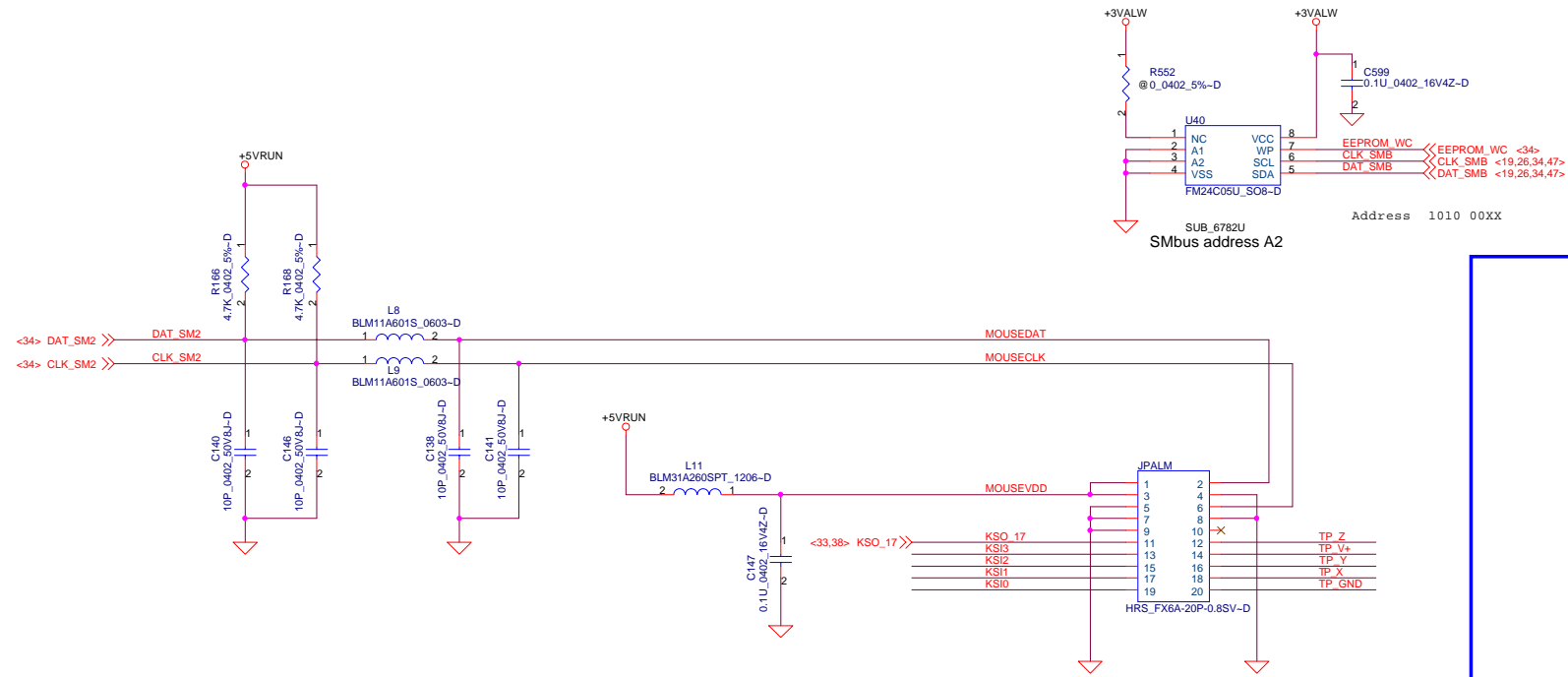
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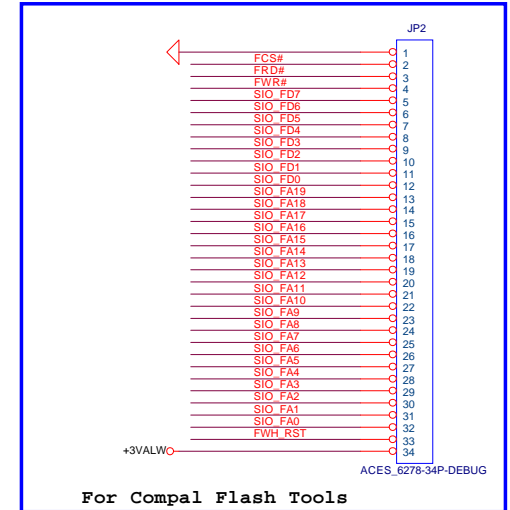
Compal Electronics, Inc.			
SIO (2/2)			
Size	Document Number	Rev	
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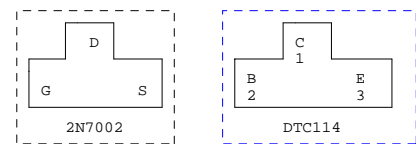
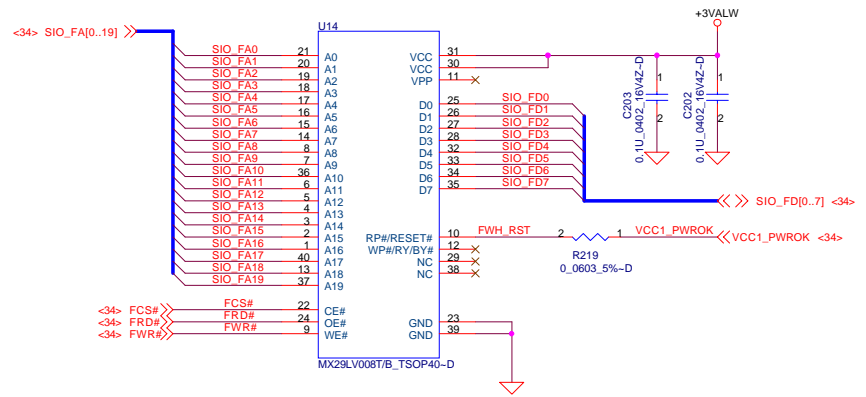
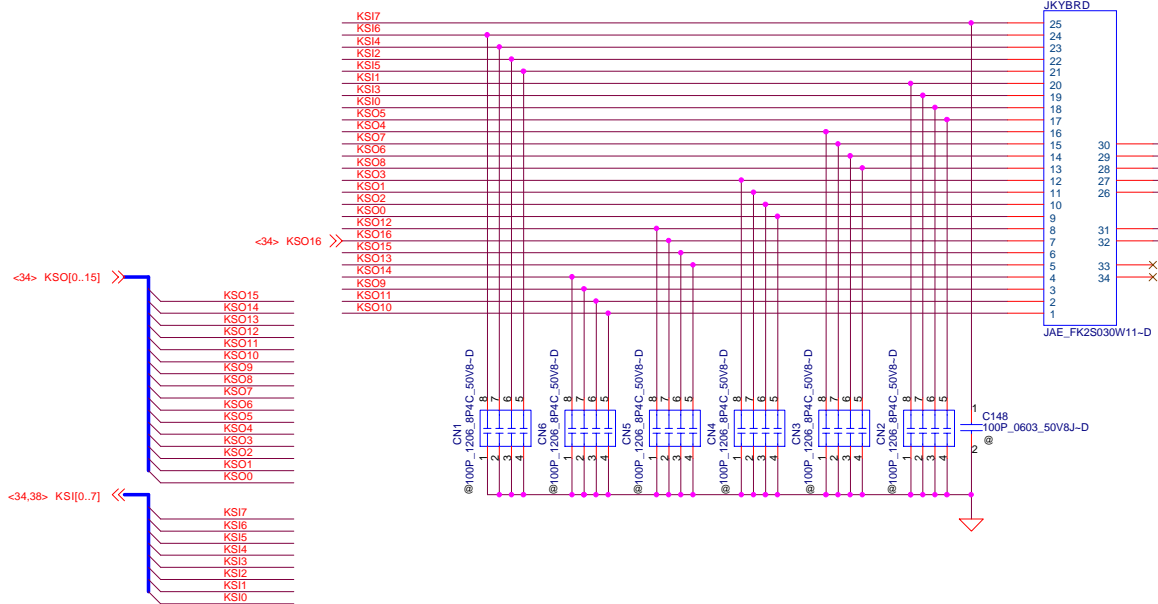


Address 1010 00XX

SUB 6782U
SMbus address A2



Keep no noise coupled,
Especially the TP_GND



Compal Electronics, Inc.			
INT KB & ROM			
Title			
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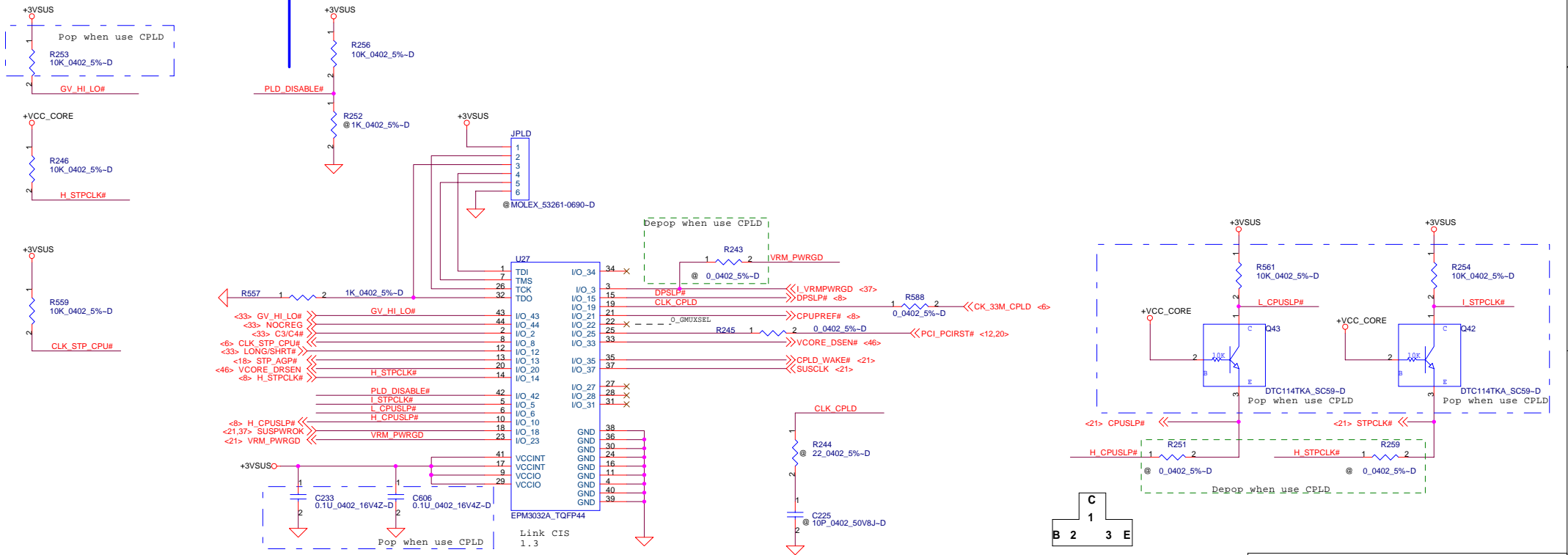
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CPLD Function options Table

No.	Function	Speedstep enable	Speedstep disable
1	CPLD (U27)	Pop U27, C233, C606, R557,	Depop U27, JPLD, C233, C606, R557,
2	STPCLK# (From ICH to CPU)	Pop Q42, R254, Depop R259	Depop Q42, R254, Pop R259
3	CPUSLP# (From ICH to CPU)	Pop Q43, R561, Depop R251	Depop Q43, R561, Pop R251
4	VRMPWRGD (From Reset to ICH)	Depop R243	Pop R243
5	STP_AGP# (PLD to AGP)	Depop R96, Pop R98 (P.18)	Pop R96, Depop R98 (P.18)
6	CPUPREF# (From PLD to CPU)	Pop R380(P.8)	Depop R380 (P.8)
7	STPCPU_VR (From PLD to CPU Power)	Pop PR94, Depop PR95 (P.46)	Depop PR94, Pop PR95 (P.46)
8	DPRSLPVR (From PLD to CPU power)	Pop PR93, Depop PR92 (P.46)	Depop PR93, Pop PR92 (P.46)
9	PLD_WAKE# (From PLD to ICH)	Pop R141 (P.21)	Depop R141 (P.21)
10	PLD_DISABLE#	Pop R256, Depop R252	Depop R256, Pop R252
11	DPSLP#	Pop R76, R78(P.8)	Depop R76, R78(P.8)
12	PCI_PCIRST#(From ICH to PLD)	Pop R245	Depop R245
13	GV_HI_LO#	Pop R253	Depop R253



Pull low disables PLD assertion of SSTEP or sleep and deeper sleep on CPU

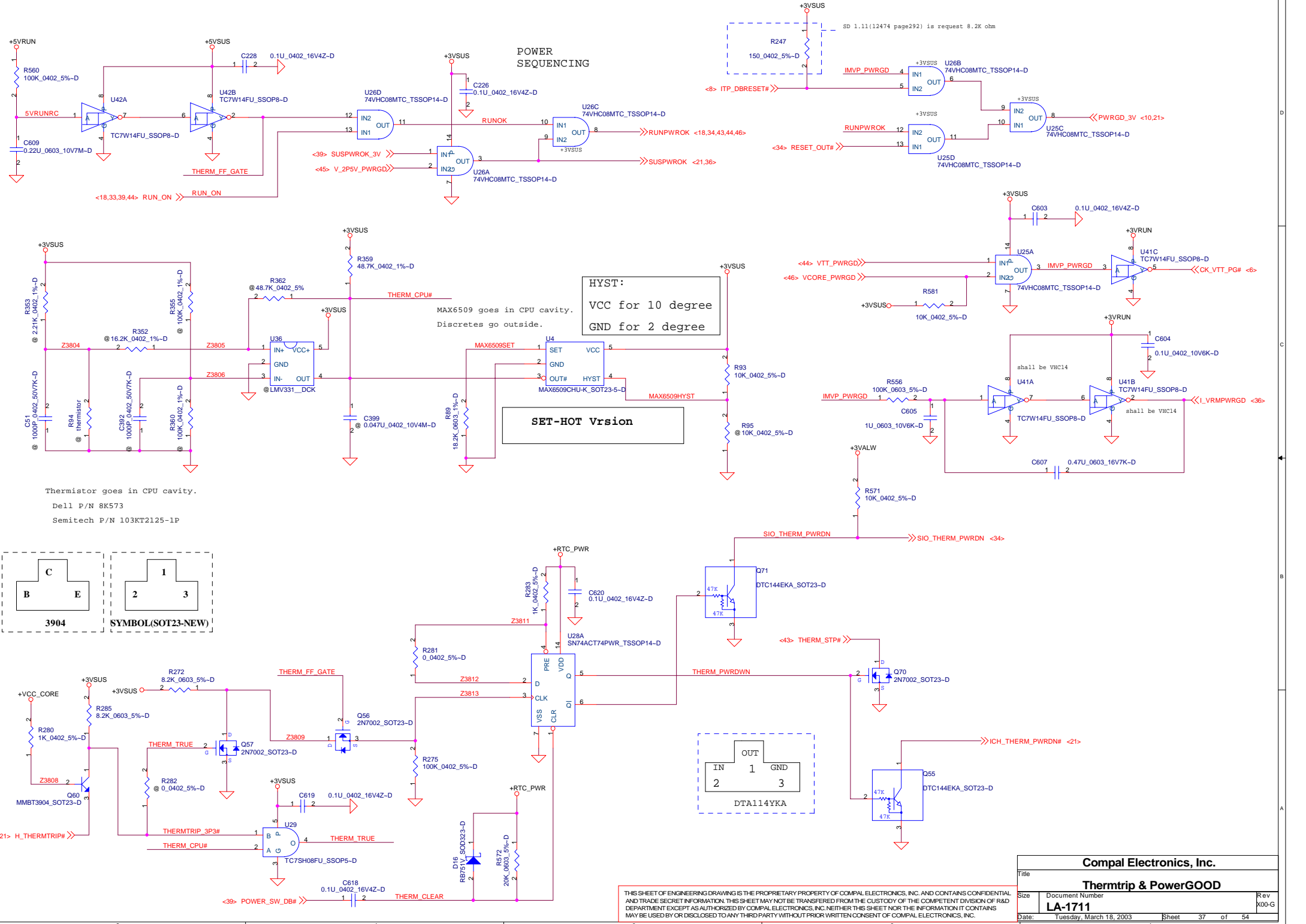


Dell Speedstep Support PLD

DTC114TKA

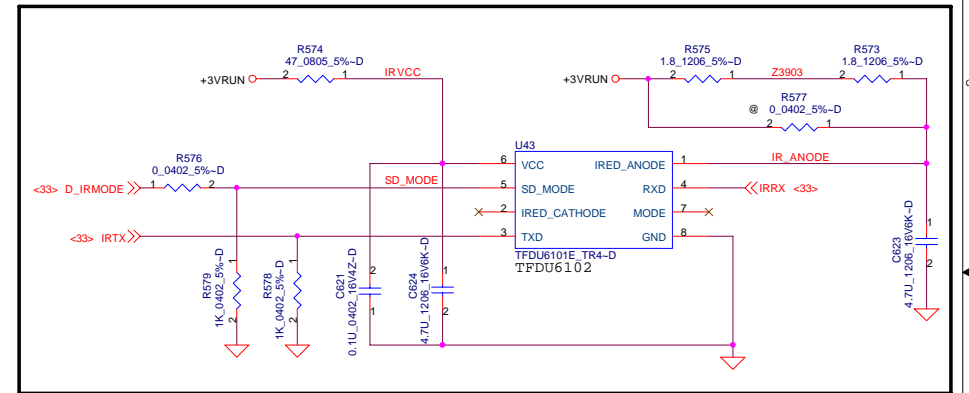
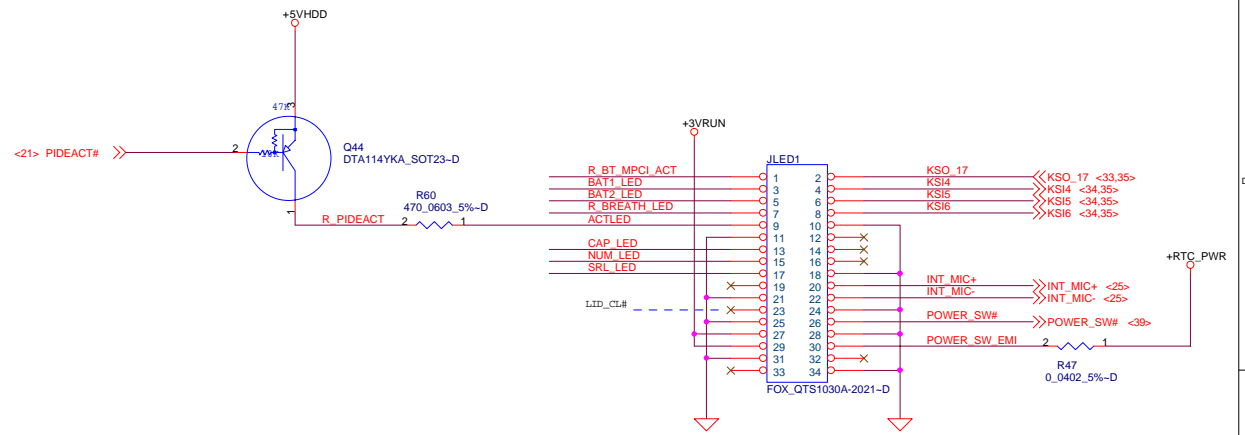
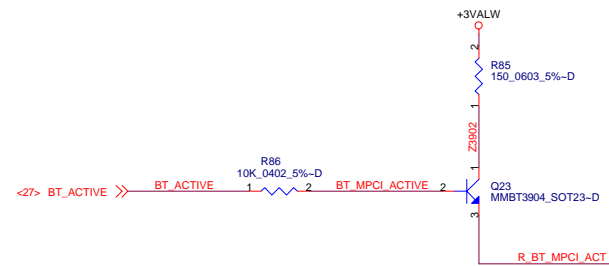
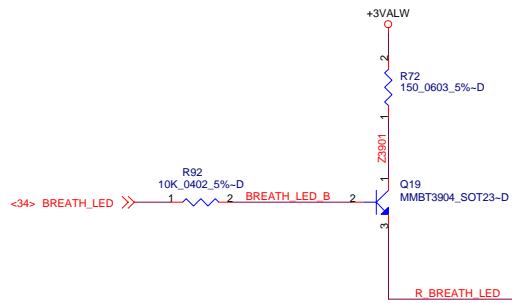
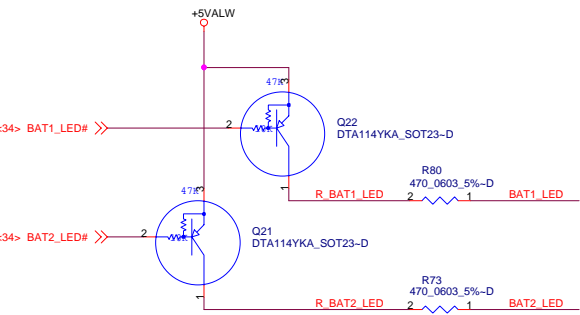
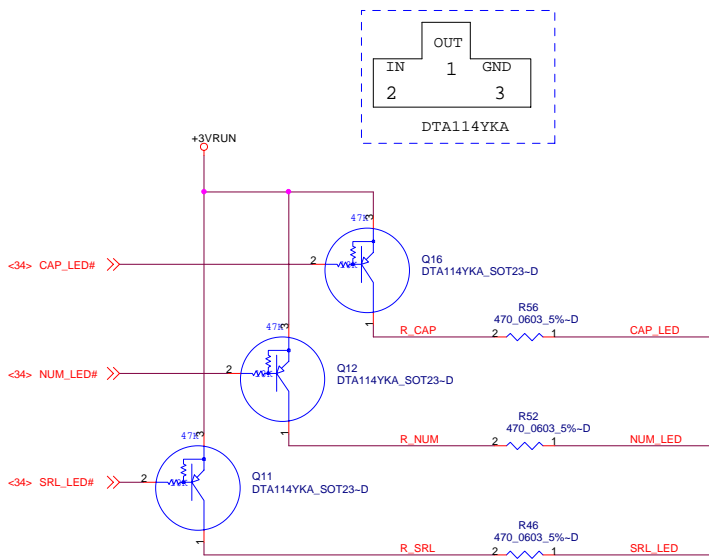
Compal Electronics, Inc.		
PLD		
Title		
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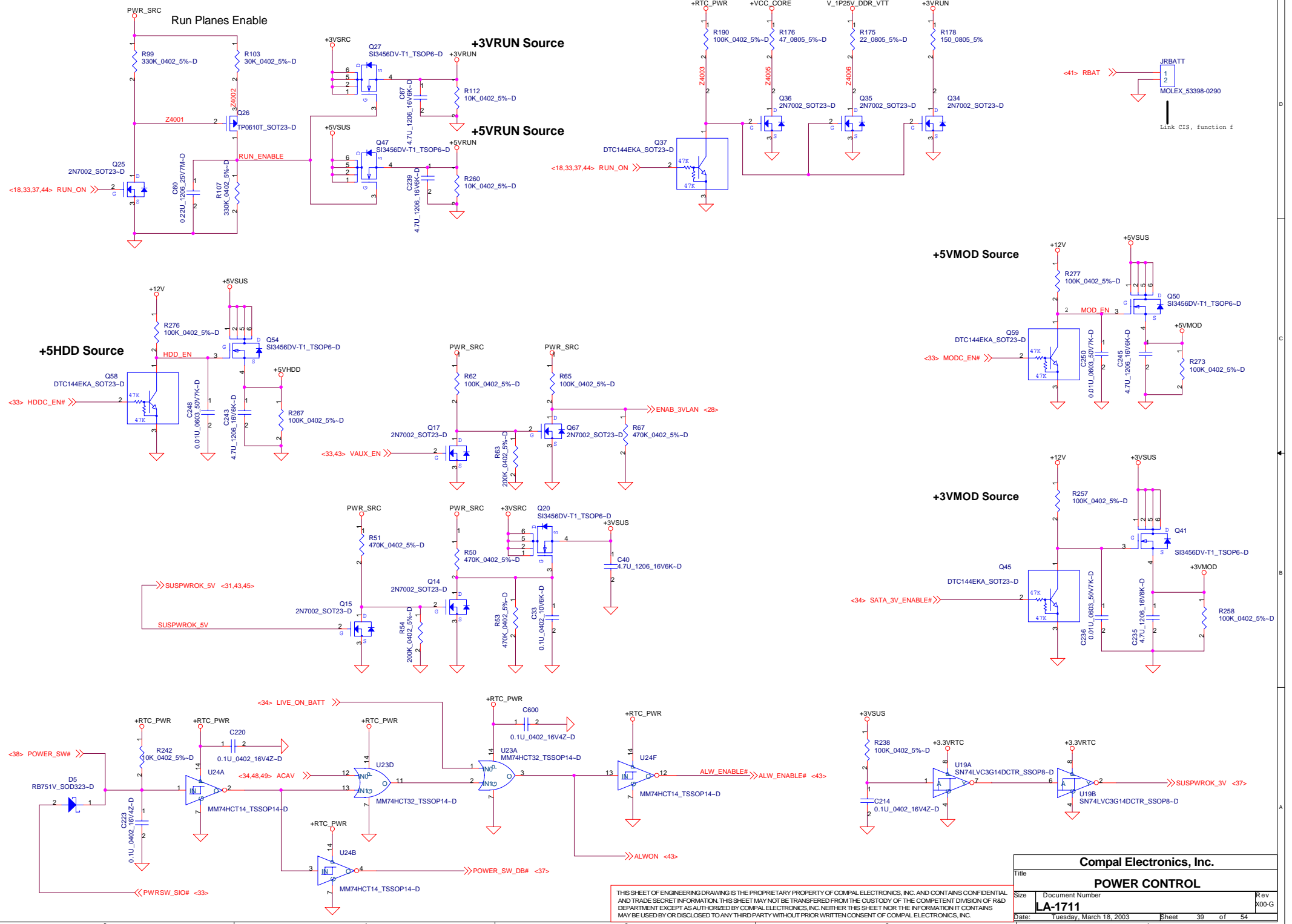
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Compal Electronics, Inc.			
Thermtrip & PowerGOOD			
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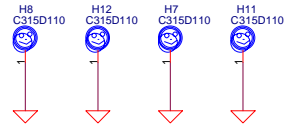
Compal Electronics, Inc.			
LED Interface & IrDA			
Title			
Size	Document Number	Rev	
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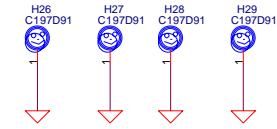
Compal Electronics, Inc.			
POWER CONTROL			
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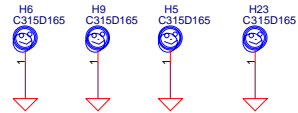
CPU screw hole



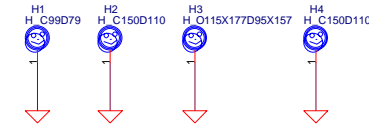
PCMCIA Slot screw hole



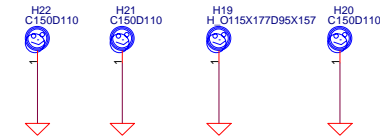
MCH screw hole



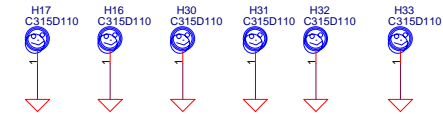
Others screw hole



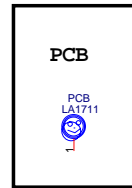
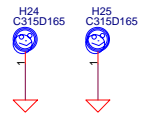
VGA Conn. screw hole



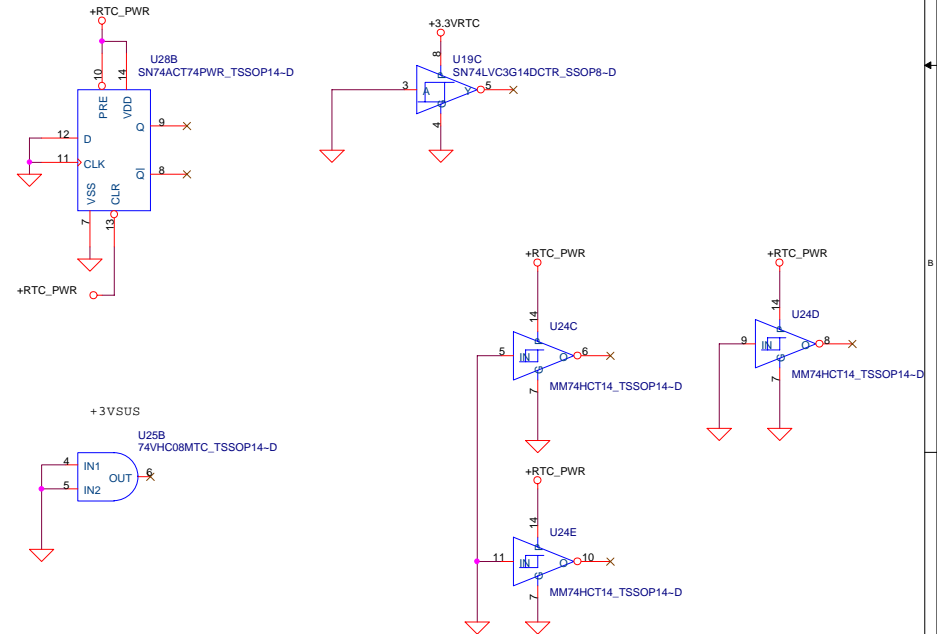
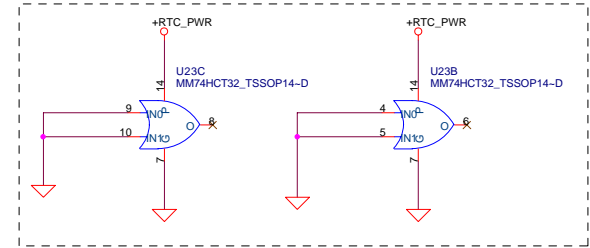
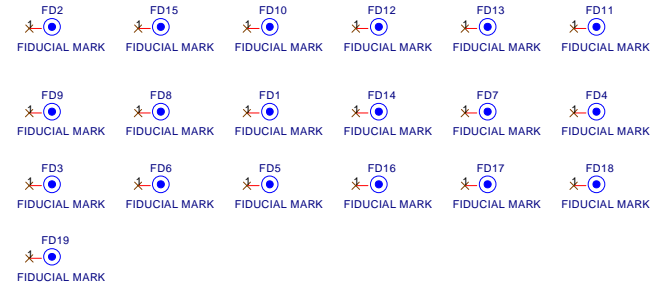
MDC



FAN Conn. screw hole

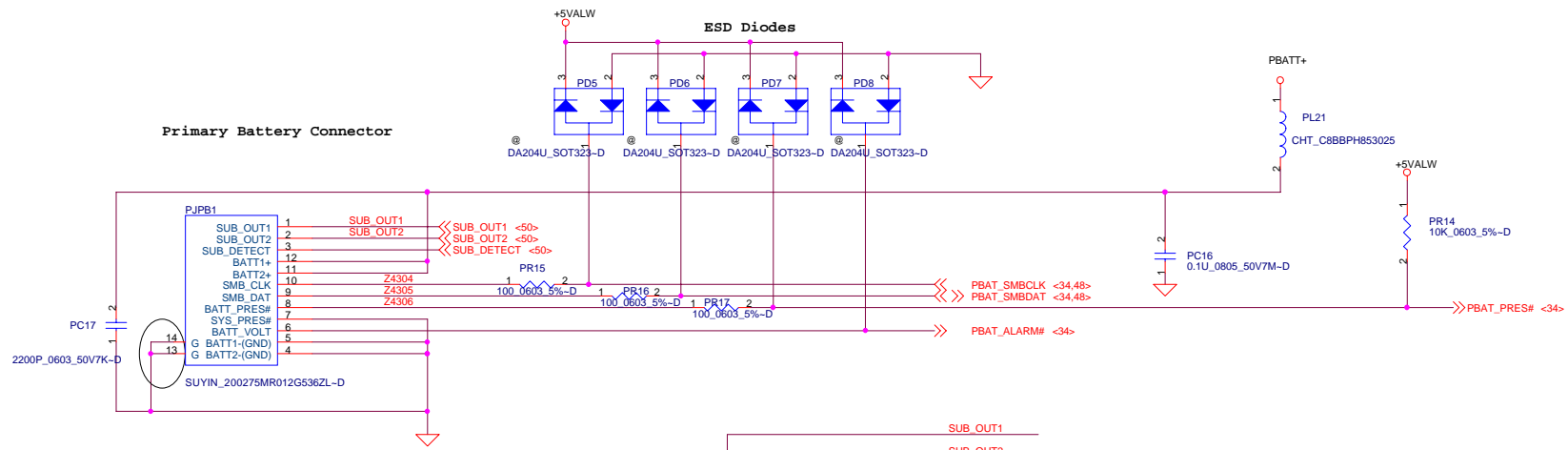


Fiducial Mark

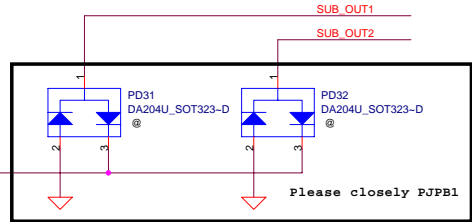
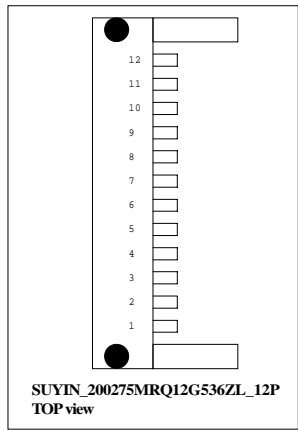


Compal Electronics, Inc.		
Title	PAD_Screw Hole and Spare Parts	
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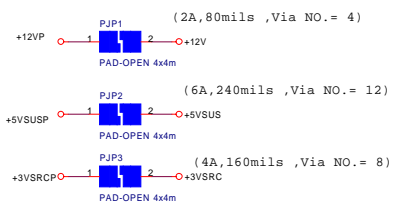
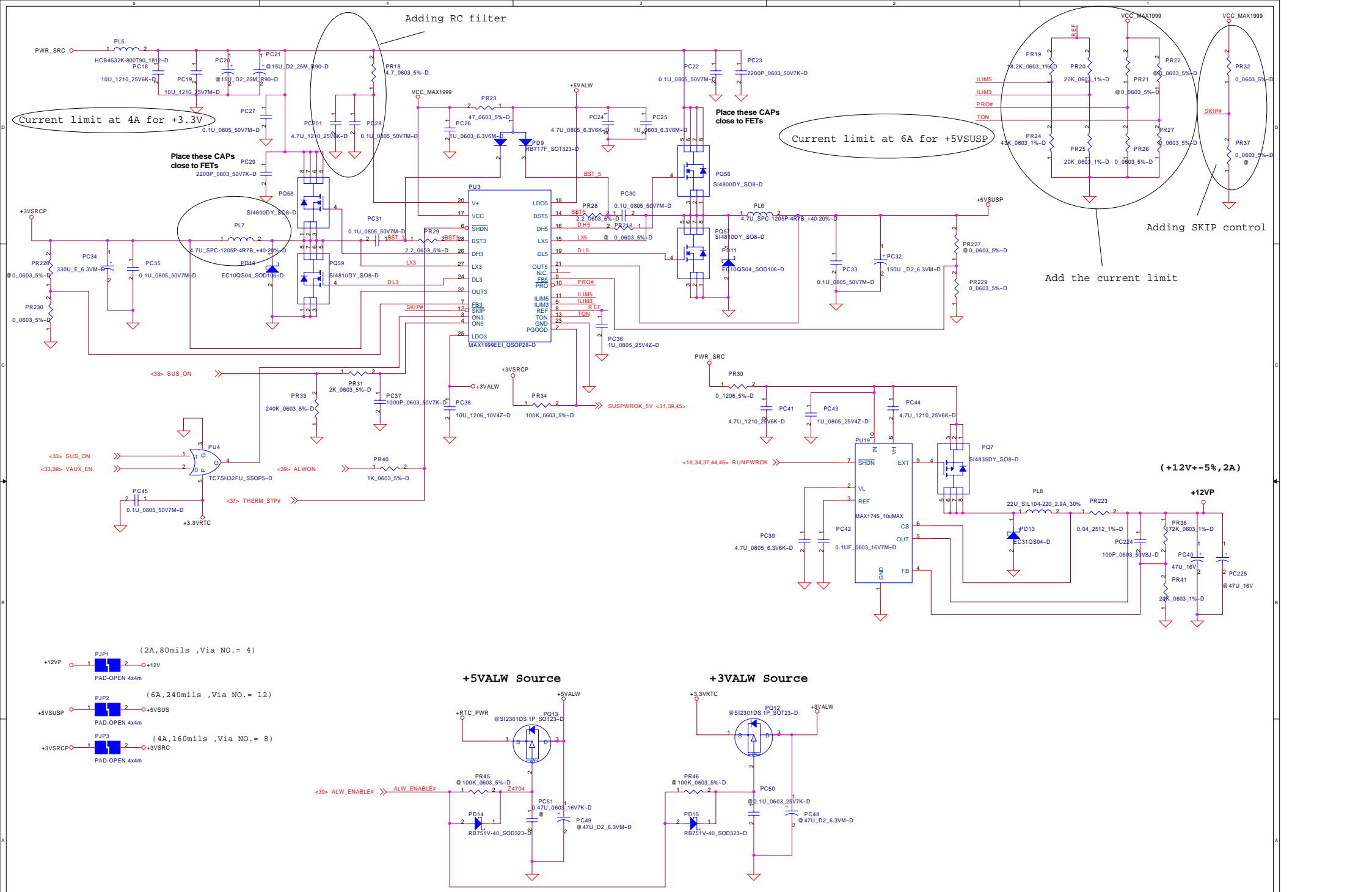


TRACE →
THE POINT →

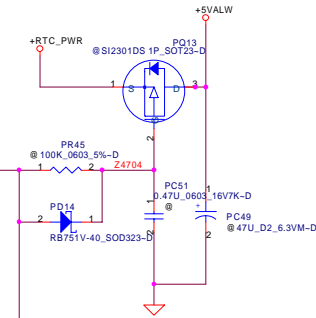


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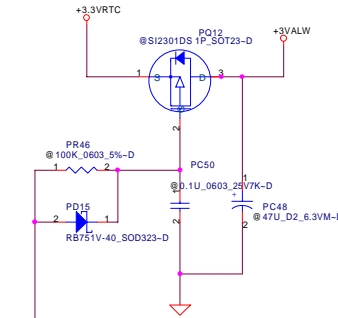
Compal Electronics, Inc.		
Title Battery CONN.		
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Date:	Tuesday, March 18, 2003	Sheet 42 of 54



+5VALW Source



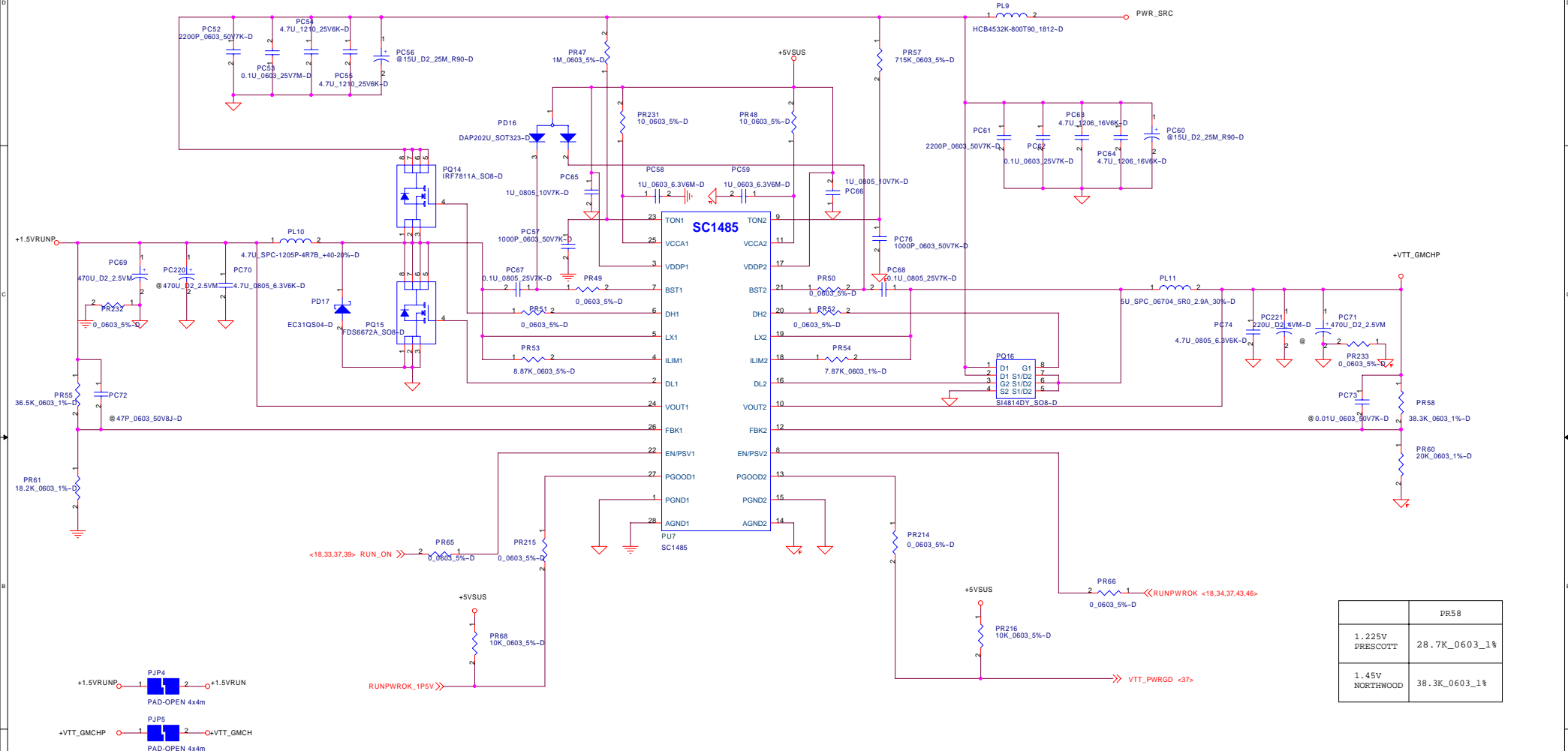
+3VALW Source



Compal Electronics, Inc.		
Title		
3.3V/5V		
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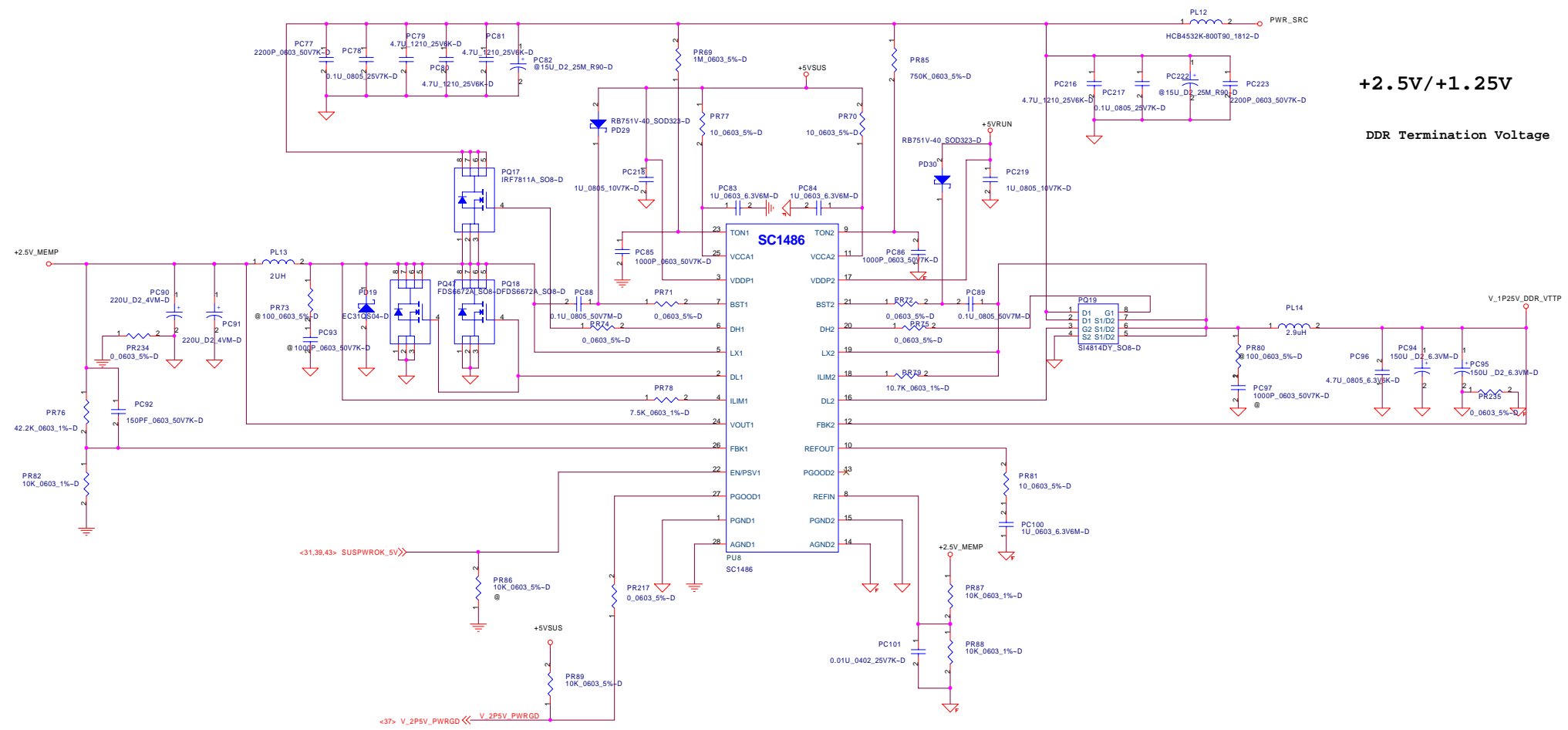
+1.5VRUNP/+VTT_GMCHP



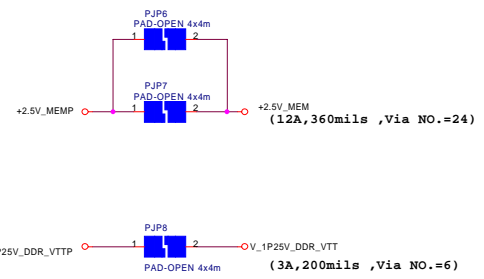
Dell-Compal Confidential

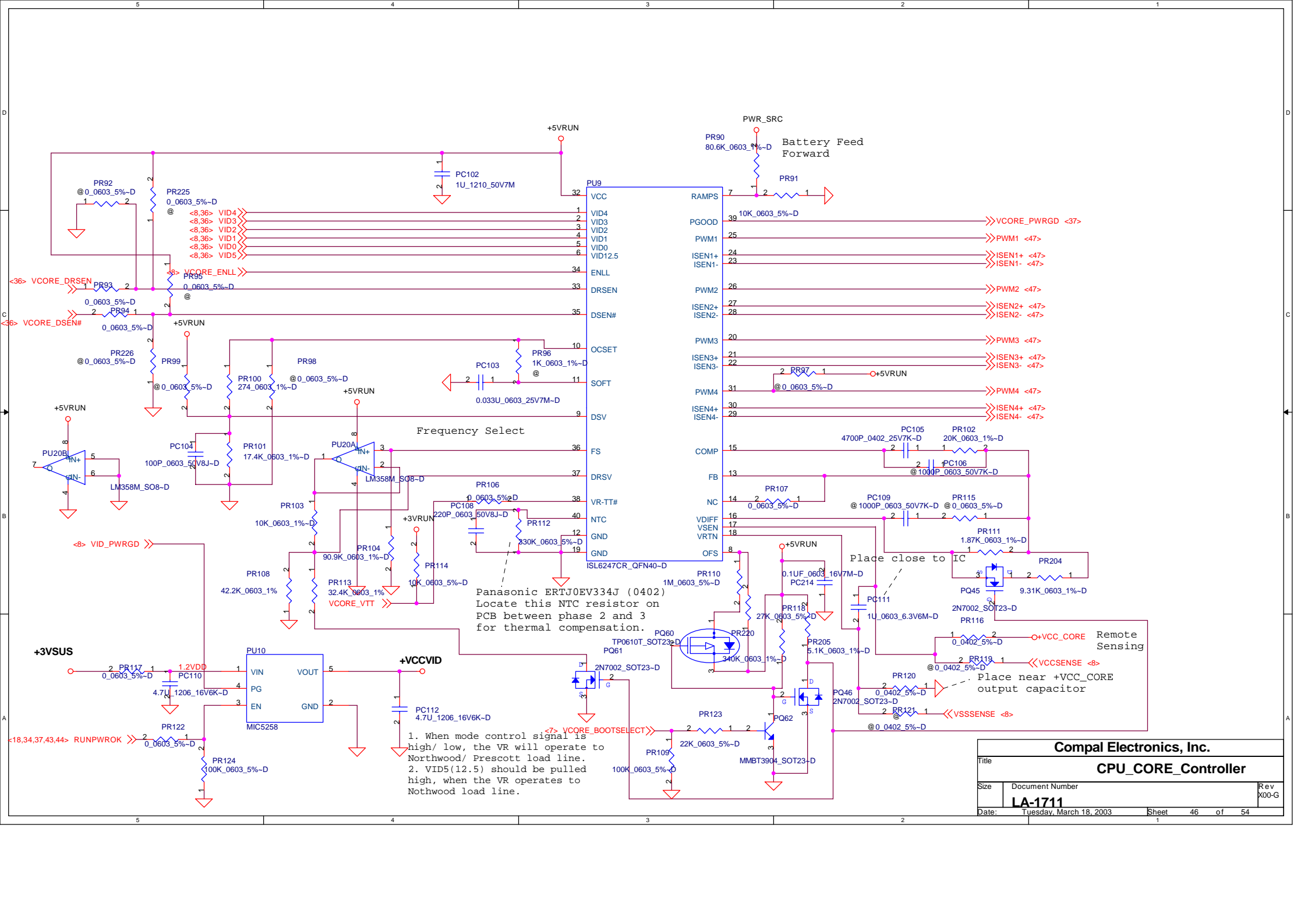
Compal Electronics, Inc.	
Title: +1.5VRUNP & +VTT_GMCHP	
Size: B	Document Number: LA-1711
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+2.5V/+1.25V
DDR Termination Voltage

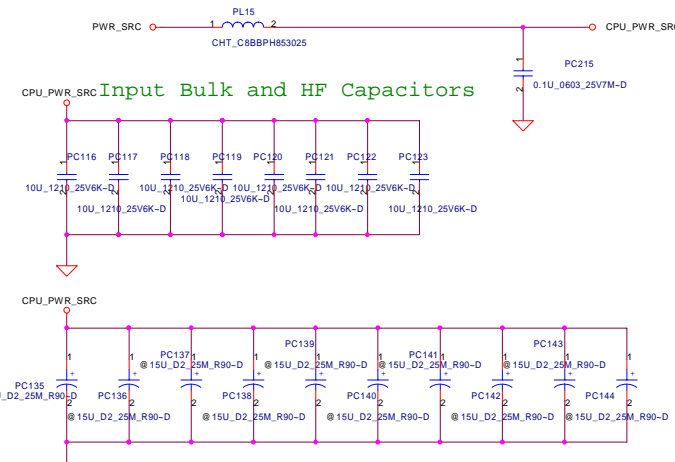
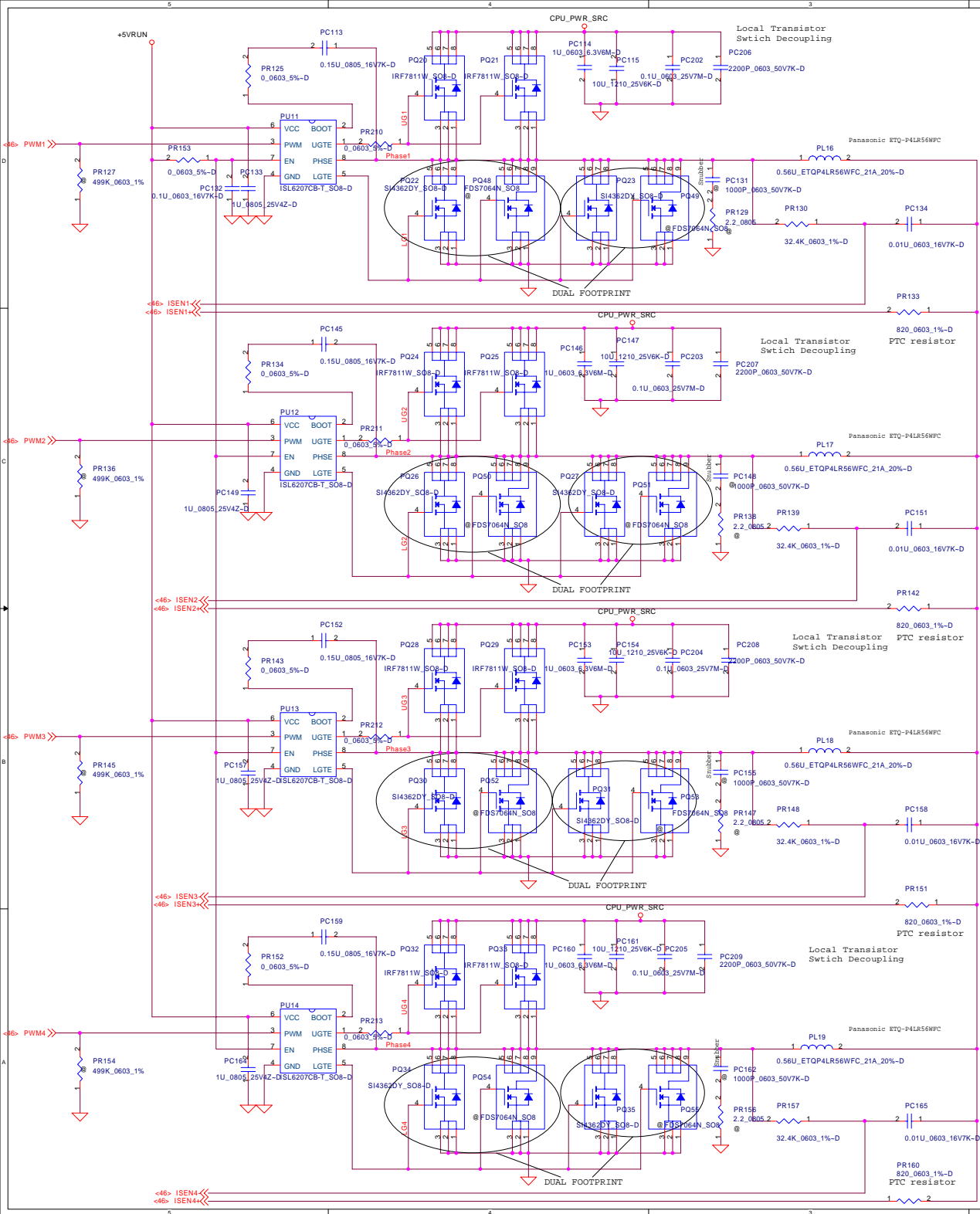




Panasonic ERTJ0EV334J (0402)
 Locate this NTC resistor on PCB between phase 2 and 3 for thermal compensation.

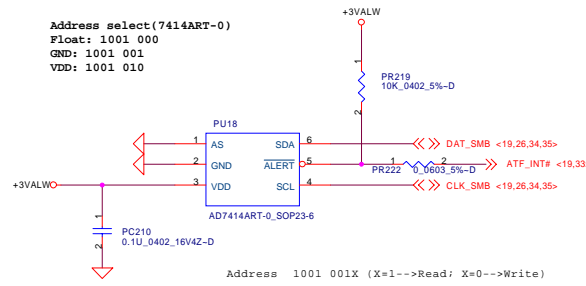
1. When mode control signal is high/ low, the VR will operate to Northwood/ Prescott load line.
2. VID5(12.5) should be pulled high, when the VR operates to Northwood load line.

Compal Electronics, Inc.		
Title		
CPU_CORE_Controller		
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Low-side two population options

SI4362DY_S08: Q22, Q23, Q26, Q27, Q30, Q31, Q34, Q35	FDS7064N_S08: Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55
--	--



Notes:

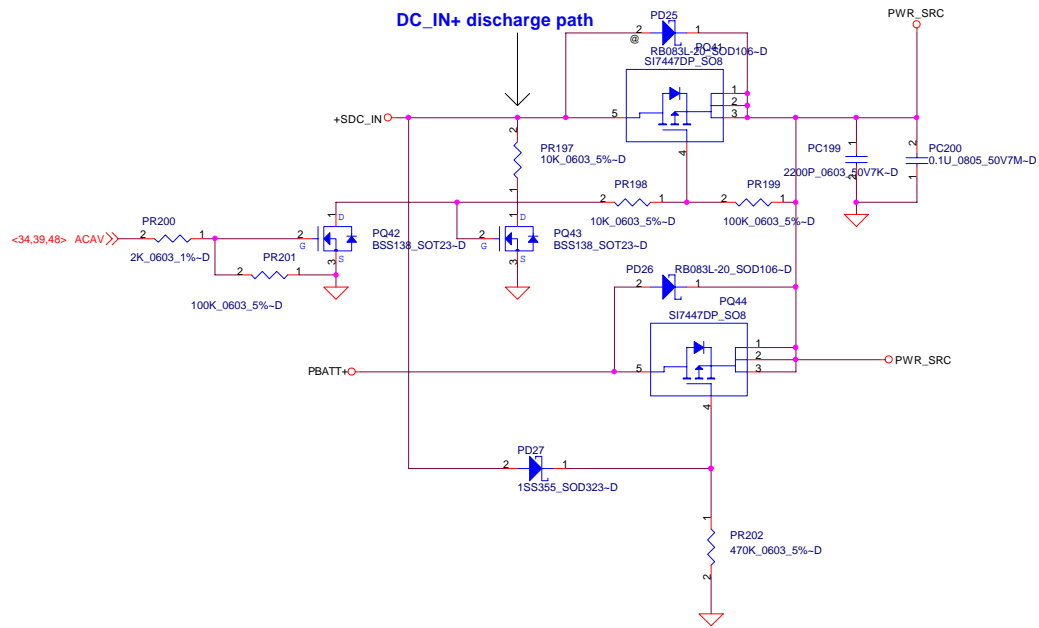
The ISL6561 (ISL6427) supports lossless current sensing including Inductor DCR and MOSFET rDSon sensing. Schematic components are color coded accordingly. In addition an external sense resistor can be used for higher load-line accuracy but this will impact system cost and efficiency.

Sync. Rectifiers use thermally enhanced "PowerPak" technology in an SO-8 form-factor. Optimal MOSFETS will be chosen based on thermal performance.

Depending on the processor final requirements and empirical thermal result testing a 3 phase solution may be possible. In the 4 phase configuration a single upper mosfet may also be sufficient.

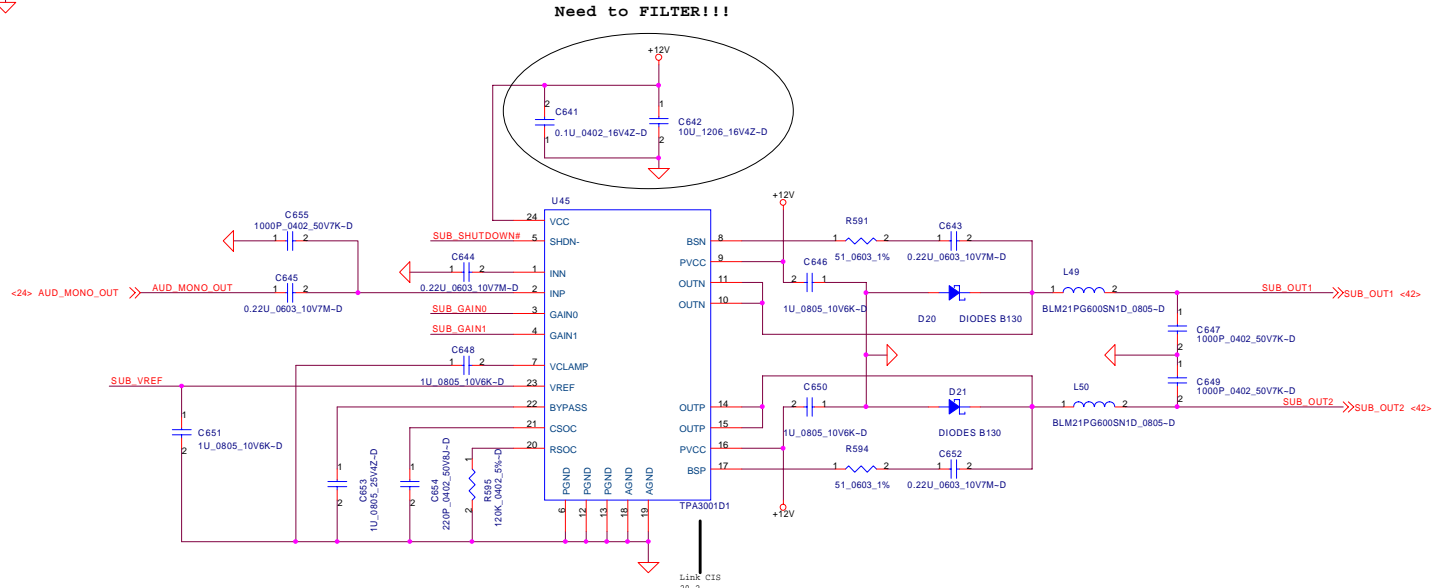
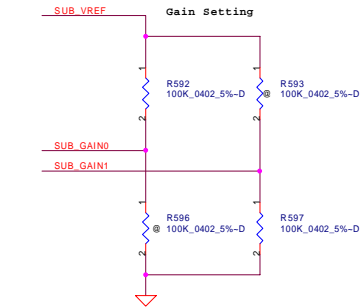
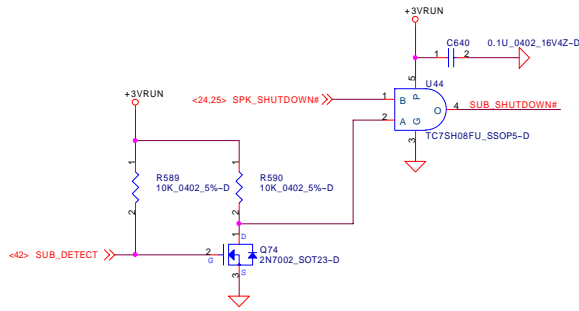
Add thermal venting vias to board. Vias under parts must have a minimum pitch of 1mm and hole size of 0.3mm to avoid solder wicking.

DCR
Inductor
Sensing



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Subwoofer		
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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	8	Prescott Processor	2/17/2003	Compal	ITP Connector default depopulate	Depop RN8 (RN8 is populated on M00)	X00-A
2	11	Springdale-DDR Interface	2/17/2003	Compal	Resistor value SPEC isn't meet Intel recommend	Correct R367,R109 from 40.2_0603_1% to 42.2_0603_1% (M00 R109,R367 are mount 42.2_0603_1%)	X00-A
3	21	ICH5-IDE/LPC/PM/GPIO/LAN	2/17/2003	Compal	Dell M00 Board Bring up issue item4: ICH5 PIN Y18, A19 are swapped on JHDD in the schematics and Pins V20, V22 are also swapped. HDD can't boot.	Swap IDE_PDCS1# and IDE_PDCS3#; Swap IDE_SDCS1# and IDE_SDCS3#.	X00-A
4	23	D-MODULE	2/17/2003	Compal	Dell M00 Board Bring up issue item5: +3.3VMOD power net no power source.we have two signal names for +3.3VMOD /+3VMOD, need jump wire.	Correct power net from +3.3VMOD to +3VMOD	X00-A
5	23	D-MODULE	2/17/2003	DELL	Need to cross the TX and RX lines on the motherboard side	Change JMOD1 pin8 from SATA_MODTX+ to SATA_MODRX+ Change JMOD1 pin10 from SATA_MODTX- to SATA_MODRX- Change JMOD1 pin14 from SATA_MODRX+ to SATA_MODTX+ Change JMOD1 pin16 from SATA_MODRX- to SATA_MODTX-	X00-A
6	26	USB(2.0) Connector	2/17/2003	DELL	Del all mark "2@" symbol, All components default must populate. Nimitz and Beijing both are support Dog House.	Del all mark "2@" symbol, All components default must populate. (All mark"2@" components are populate on M00 Board)	X00-A
7	37	Thermtrip & PowerGOOD	2/17/2003	Compal	Dell M00 Board Bring up issue item3: No generate system clock. U25 Pin1 and Pin 2 need to be shorted together, VCORE_PWRGD is an OD signal and it does not have a pullup.	VCORE_PWRGD signal add a 10K_0402_5%(R581) resistor pull up to +3VSUS.	X00-A
8	25	AMP and PHONE JACK	2/27/2003	DELL	Change OP amplifier power from +12V to +5V ,change audio amplifier as same as Abacus-MT	Change audio amplifier from TPA3002D2PHP to TI6017A2 (BOM need change)	X00-C
9	29	LAN Transfomer	2/27/2003	DELL	ME Connectors are interfere	Change RJ11/RJ45 receptacle connector to staddle type	X00-C
10	18	VGA Daughter Board Conn.	3/05/2003	Compal	Dell EE issue item38: Change AGP connector vendor	Change connector from ACES_88075-1600 to FOXCONN FOXCONN_QT00160A-9120L (BOM need change)	X00-D
11	6,34,36	Clock Generator	3/05/2003	DELL	Dell EE issue item22: This change is required due to not getting the 24MHz clk of the EC to work.	1.Del 24M_CLK net and R210(33_0402_5%) 2.Add series termination R587(33_0402_5%) near CK409 and R588(0_0402_5%) near the CPLD. Add net name from CK409 to CPLD. (BOM need change)	X00-D
12	8	Prescott Processor	3/05/2003	DELL	Dell EE issue item23: To prevent backdrive in S3	Change RN7,R35,R37 pullups from +3VSUS to +3VRUN.	X00-D
13	21	ICH5-IDE/LPC/PM/GPIO/LAN	3/05/2003	DELL	Dell EE issue item25: This pin is not 5V tolerant.	Change R388 pullup from +5VRUN to +3VRUN.	X00-D
14	33,36	SIO (1/2) & PLD	3/05/2003	DELL	Dell EE issue item26: Change name of the follow signal from GV_LO_HI# to GV_HI_LO#	Change name of the follow signal from GV_LO_HI# to GV_HI_LO#	X00-D
15	25	AMP and Phone Jack Interface	3/05/2003	DELL	Dell EE issue item39: 1.Change the population option for R583 and R584 to no pop 2.Change the voltage rai lto D7, D6, D9, D8 to +5VRUN	1.R583,R584 Add "@" symbol and depop. 2.Change power from +12V to +5VRUN.	X00-D
16	18	VGA Daughter Board Conn.	3/05/2003	DELL	Dell EE issue item37: Table for ST1 and ST2, were did this table come from?	Delete ST1,ST2 table and R324-R327 (BOM need change)	X00-D
17	12	Springdale-AGP /HUB/VGA/CSA	3/05/2003	DELL	Dell EE issue item36: AGP8X_DET_GC circuit need to change per the errata change.	Change Q13 from MMBT3904 to 2N7002; R55 from 33.2_0603_1% to 39.2_0603_1% (BOM need change)	X00-D

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
18	21	ICH5-IDE/LPC/PM/GPIO/LAN	3/07/2003	Compal	HDD pinout are reversed	Change pinout and and connector part number(BOM need change)	X00-E
19	23	D- MODULE	3/07/2003	Compal	Change D- Module connector (Mating Height issue)	Change connector from JAE_WM1F068N1A to Foxconn QL11343-A6B3-HT	X00-E
20	26	USB(2.0) Connector	3/07/2003	Compal	ME Connectors are interfere	Change connector to staddle type. Foxconn Fox_UB11193-P01-TR (BOM need change)	X00-E
21	11	Springdale-DDR Interface	3/07/2003	Compal	Dell M00 Board Bring up issue item34,35: SMXRCOMPVOH - add 0.1UF cap from +2.5V (pin2 of C65) to GND SMYRCOMPVOH - add 0.1UF cap from +2.5V (pin2 of C53) to GND	Add C636 and C637(0.1U_0402_16V4Z) [BOM need change]	X00-E
22	36	PLD	3/08/2003	DELL	Dell M00 Board Bring up issue item27 Need to change PLD pinout per the right package program.	Follow CPLD rework instruction, correct U27 symbol pin out.	X00-E
23	36	PLD	3/08/2003	DELL	Dell M00 Board Bring up issue item28 Eliminate the VID MUX and keep the zero Ohm resistors	Del U1,C10,R14,R18,RP1,R13 (BOM need change)	X00-E
24	8,18,36		3/08/2003	DELL	Dell M00 Board Bring up issue item24 Change the table on pg 36 to reflect the correct refdes and components see PLD rework instructions	Page36: Pop U27, C233, C606, R557 ;Pop Q42, R254, Depop R259 ; Pop Q43, R561, Depop R251,R243 ; Pop R256, Depop R252; pop R245, R253 Page18: Depop R96, Pop R98 Page8 :Pop R76,R78,R380 Page46: PR94,PR93, Depop PR95,PR92 [BOM need change]	X00-E
25	8	Prescott Processor	3/12/2003	DELL	Dell M00 Board Bring up issue item32 Depop pullup R84 on H_RESET# since we have another pullup R358	Depop R84 ,62_0402_5%(BOM need change)	X00-F
26	11	Springdale-DDR Interface	3/12/2003	DELL	Value is not correct	Change C636,C637 (0.01U_0402_16V7K) [Add it on BOM]	X00-F
27	14	FAN CONTROL	3/12/2003	Compal	ME connector design change	Change JFAN2 from MOLEX_53261-0310 to MOLEX_53398-0390; Delete JFAN1 [BOM need change]	X00-F
28	15,19	CPU Thermal Sensor & FAN Control	3/12/2003	DELL	To saving cost	Delete U35(AD7414ART-0),R345(10K_0402_5%),R348(0_0402_5%), C383(0.1U_0402_16V4Z); Add Q73(MMBT3904) [BOM change]	X00-F
29	19	CPU Thermal Sensor & FAN Control	3/12/2003	Compal	ME connector design change	Change JFAN3 from MOLEX_53261-0310 to SUYIN_250019MR003G400ZL [BOM need change]	X00-F
30	25	AMP and PHONE JACK	3/12/2003	Compal	ME connector design change for phone Jack and Int.SPK	Change JSPK from MOLEX_53261-0690 to MOLEX_53398_0890; change JP1 from HRS_DF20-10DP-1V to NAIS_AXN320C038P; Add C638,C639(22U_1206_16V4Z) [BOM need change]	X00-F
31	24,25,50	Subwoofer	3/12/2003	DELL	Add Subwoofer circuit	Page24: U16 pin37 connect to C646 pin1(AUD_MONO_OUT) Page25: Del R586(100K_0402_5%) [BOM need change] Page50 : Add subwoofer circuit [Add]	X00-F
32	31	CardBus Socket	3/12/2003	DELL	All model support smart card function	Update page3 Table and change mark "l@" symbol to "@"	X00-F
33	21	ICH5-IDE/LPC/PM/GPIO/LAN	3/12/2003	DELL	Follow Intel DG (12837)ICH_SYNC# circuit implementation	Depop R161,R167,R169,Q32,Q33 and pop R438(0_0402_5%) [BOM need change]	X00-F
34	31	CardBus Socket	3/13/2003	Compal	Correct Item32	Populate U17 and L14, delete "l@" symbol [Don't need change BOM]	X00-G

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35	27,31		3/14/2003	Compal	ME connector design change	Page27 :Change JMDC from FOX_QT8A0301-3011 to AMP_3-1612118-0 Page31: Change JCBUS form FCI_61082-081001 to FOX_1CA87501-T1-D; Change J1394 from FOX_UV31413-K8 [BOM need change]	X00-G
36	31	CardBus Socket	3/14/2003	DELL	Dell Schematic issue item12 Please add a 100PF cap to SC_DATA_C per TI late recommendation	Add C656(100P_0402_50V7K). [BOM need change]	X00-G
37	8	Prescott Processor	3/14/2003	DELL	H_DPSLP# doubule pull up	Depop R79(62_0402_5%) , [BOM need change]	X00-G
38	25	AMP and PHONE JACK	3/14/2003	DELL	Dell Schematic issue item48 Remove comment above U18 and remove the wires in the bottom	Connect C638 and C639 to INT_TWT_R1 and INT_TWT_L1 at JSPK	X00-G
39	25	AMP and PHONE JACK	3/14/2003	DELL	Dell Schematic issue item48 Change the pinout of JAUDO	Change net FAN1_TACH_FN from pin16 to pin18, pin15,16 connect to GND	X00-G
40	29	LAN TRANSFOMER	3/14/2003	DELL	Dell Schematic issue item45,46 the BJT werent driving the LED enough	1.Change Q3 from DTC144KA_SOT23 to 2N7002 2.LED_WLAN5_RADIOSTATE, LED_WLAN24_RADIOSTATE, and WLAN_LED_ACIVITY. Add 10K_0402_5% pulldown resistor(R600-R602) [BOM need change]	X00-G
41	50	Subwoofer	3/14/2003	DELL	Dell Schematic issue item48 Move D18 and D19 to page 42, and update all component Symbols	Move D18 and D19 to page 42, and update all component Symbols , move C655 from current location to in between C645 and U45 pin 2 and change value to 1000P_0402_50V7K	X00-G
42	6	Clock Generator	3/14/2003	DELL	Dell Schematic issue item30 Springdale DG P65 recommend a 10 Ohm resistor from CK_VDD_MAIN to Pin VDD_48 (pin34) of Ck409	Reserved power source option: populate R589. depopulate R599 [BOM need change]	X00-G
Delete by Dell's update issue_0314 ;X00-H							
43	11	Springdale-DDR Interface	3/18/2003	Compal	Intel recommend is 31.12K,the value isn't popularize. Follow Dell's DT team use 30.9K	Change R101,106,369,373 from 31.12K_0603_1% to 30.9K_0603_1% ;[BOM need change]	X00-H
44	25	AMP and PHONE JACK	3/18/2003	Compal	Add one net for Phone Jack board pullup source.	Change JAUDO pin11 from NC to AMPVCC	X00-H
45	36,39,40		3/18/2003	Compal	Single name issue	Delete pin 22 of U27 net and show text ; move U25B from page39 to page40, change pin4,5 to GND and pin6 to NC.	X00-H

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	45	1.25V/2.5V	2/26/2003	Compal	Dell M00 Board Bring up issue item13: Make SUSPOWROK_5V a strong pullup.	Depop PR86 (PR86 is populated on M00)	X00-B
2	43	3.3V/5V	2/26/2003	DELL	Dell M00 Board Bring up issue item21: Need to add pads for voltage/temp tolerance measurements. Request from our Reliability engineers.	Add voltage divider at +5VSUSP(PR227, PR229) Add voltage divider at +3VSRCP(PR228, PR230)	X00-B
3	46,47	CPU_CORE_Controller CPU_CORE_Power-Stage	2/26/2003	DELL	Dell M00 Board Bring up issue item29: Change CPU controller and driver VCC to +5VRUN to reduce S3 current.	Change PU9 and PU11, PU12, PU13, PU14 VCC to +5VRUN	X00-B
4	46	CPU_CORE_Controller	3/05/2003	DELL	Dell X00 Board issue item40,41: Change the power rail to the following components PR99, PU20A/B, PC214 from +5VSUS to +5VRUN Change the power rail to the following component PR114 from +3VSRC to +3VRUN	Change the power rail of PR99 and PU20A/B, PC214,PR97 from +5VSUS to +5VRUN Change the power rail of PR114 from +3VSRC to +3VRUN	X00-D
5	44,45	+1.5VRUNP/ +VTT_GMCHP 1.25V/2.5V	3/07/2003	DELL	Intersil ISL6225B IC issue. So change controller IC.	Change PU7 to SC1485 and PU8 to SC1486.	X00-E
6	45	1.25V/2.5V	3/12/2003	DELL	Dell X00 Board issue item47: Intle in the DG 1.21 update have changed the DDR voltage to 2.6V and Term voltage to 1.3.	Change PR72 to 42.2K	X00-F

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