

Compal Confidential

EFL50 / EFT51 Schematics Document

Intel Dothan/ Celeron M/ Alviso GM(PM) / DDR-2 / ICH6-M

(Daughter Card: ATi M24P/ M26P)

2005 / 03 / 08 (B-Test EVT)

Rev:0.2

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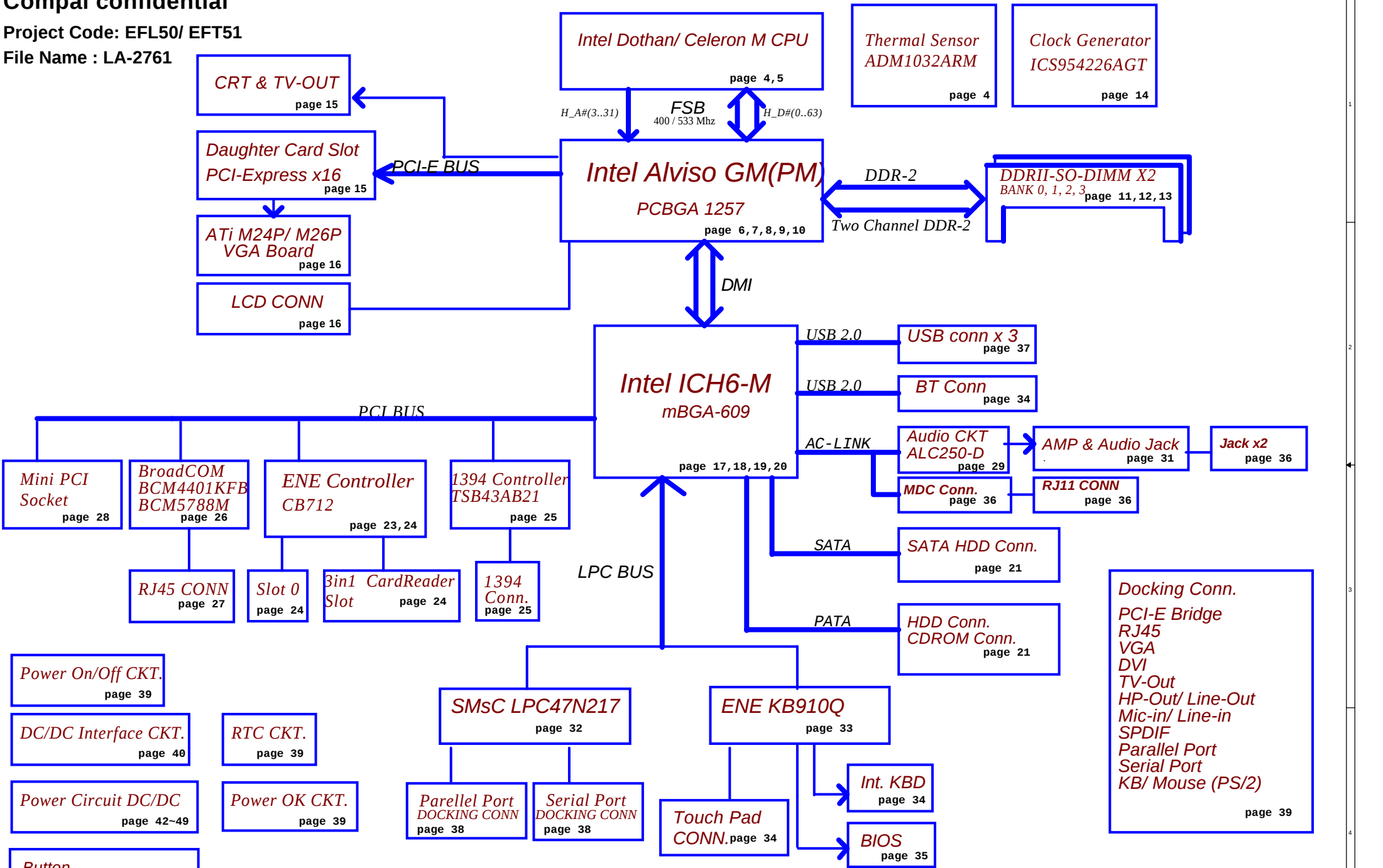
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Security Classification		Compal Secret Data			
Issued Date	2005/03/08	Deciphered Date	2006/03/08	Title	Cover Sheet
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Project Code: EFL50/ EFT51

File Name : LA-2761



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Issued Date	2005/03/08	Deciphered Date	2006/03/08	Title	Block Diagrams
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Voltage Rails

Power Plane	Description	S1	S3	S4/ S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit.	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+1.05VS	1.05V switched power rail	ON	OFF	OFF
+DDRVTT	0.9V switched power rail for DDR terminator	ON	OFF	OFF
+1.5VALW	1.5V always on power rail	ON	ON	ON*
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+DDRVCC	1.8V power rail for DDR	ON	ON	OFF
+2.5VS	2.5V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V power rail	ON	ON	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+5VMOD	5V switched power rail for Module Bay	ON	OFF	OFF
+12VALW	12V always on power rail	ON	ON	ON*
+RTCVCC	RTC power	ON	ON	ON

Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.

External PCI Devices

Device	IDSEL#	REQ#/GNT#	Interrupts
CardBus	AD20	2	PIRQA/PIRQB
1394	AD16	0	PIRQE
SD	AD20	2	PIRQA/PIRQB
Mini-PCI	AD18	1	PIRQG/PIRQH
LAN	AD17	3	PIRQF

EC SM Bus1 address

Device	Address	Device	Address
Smart Battery	0001 011X b	ADM1032	1001 110X b
EEPROM(24C16/02)	1010 000X b		
(24C04)	1011 000Xb		

ICH6M SM Bus address

Device	Address
Clock Generator (ICS 954226AGT)	1101 001Xb
DDR# DIMM0	1001 000Xb
DDR# DIMM2	1001 010Xb

STATE \ SIGNAL	SLP_S1#	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS	Clock
Full ON	HIGH	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1(Power On Suspend)	LOW	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3 (Suspend to RAM)	LOW	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4 (Suspend to Disk)	LOW	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 (Soft OFF)	LOW	LOW	LOW	LOW	ON	OFF	OFF	OFF

Board ID / SKU ID Table for AD channel

Vcc	3.3V +/- 5%			
Ra / Rc	100K +/- 5%			
Board ID	Rb / Rd	VAD_BID min	VAD_BID typ	VAD_BID max
0	0	0 V	0 V	0 V
1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V
2	18K +/- 5%	0.436 V	0.503 V	0.538 V
3	33K +/- 5%	0.712 V	0.819 V	0.875 V
4	56K +/- 5%	1.036 V	1.185 V	1.264 V
5	100K +/- 5%	1.453 V	1.650 V	1.759 V
6	200K +/- 5%	1.935 V	2.200 V	2.341 V
7	NC	2.500 V	3.300 V	3.300 V

BOARD ID Table

Board ID	PCB Revision
0	0.1
1	0.2
2	
3	
4	
5	
6	
7	

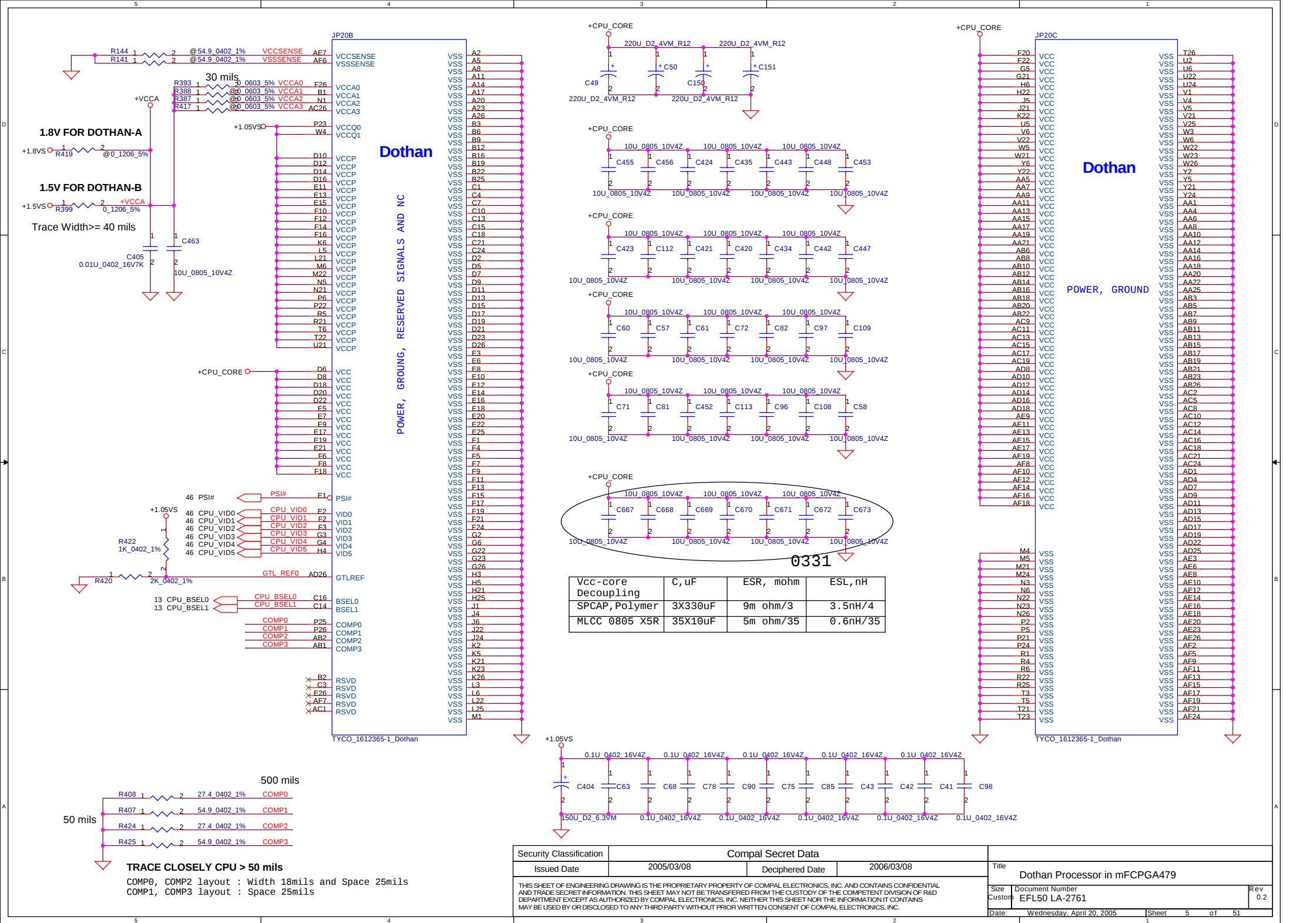
SKU ID Table

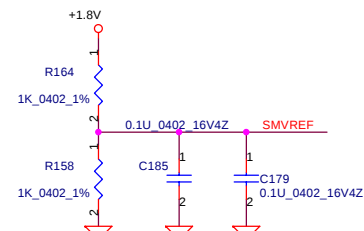
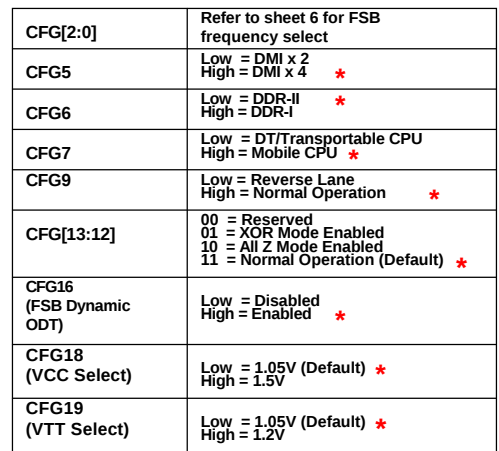
SKU ID	SKU
0	
1	
2	
3	
4	
5	
6	
7	

BTO Option Table

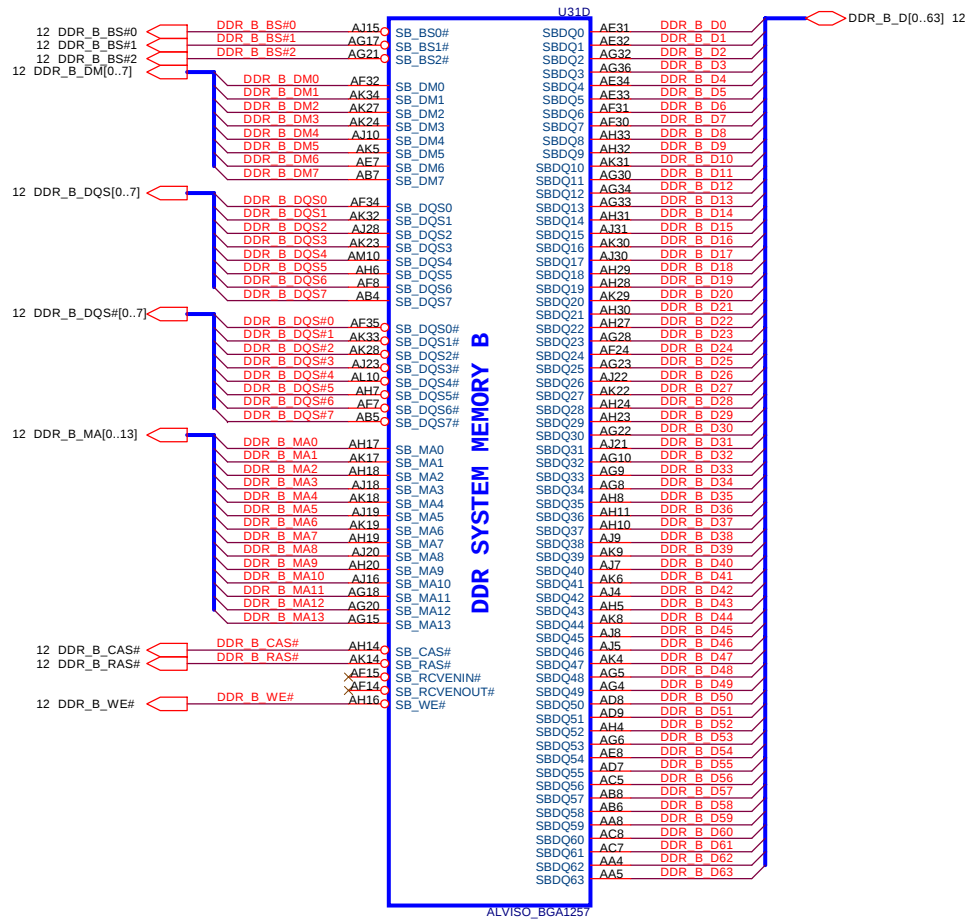
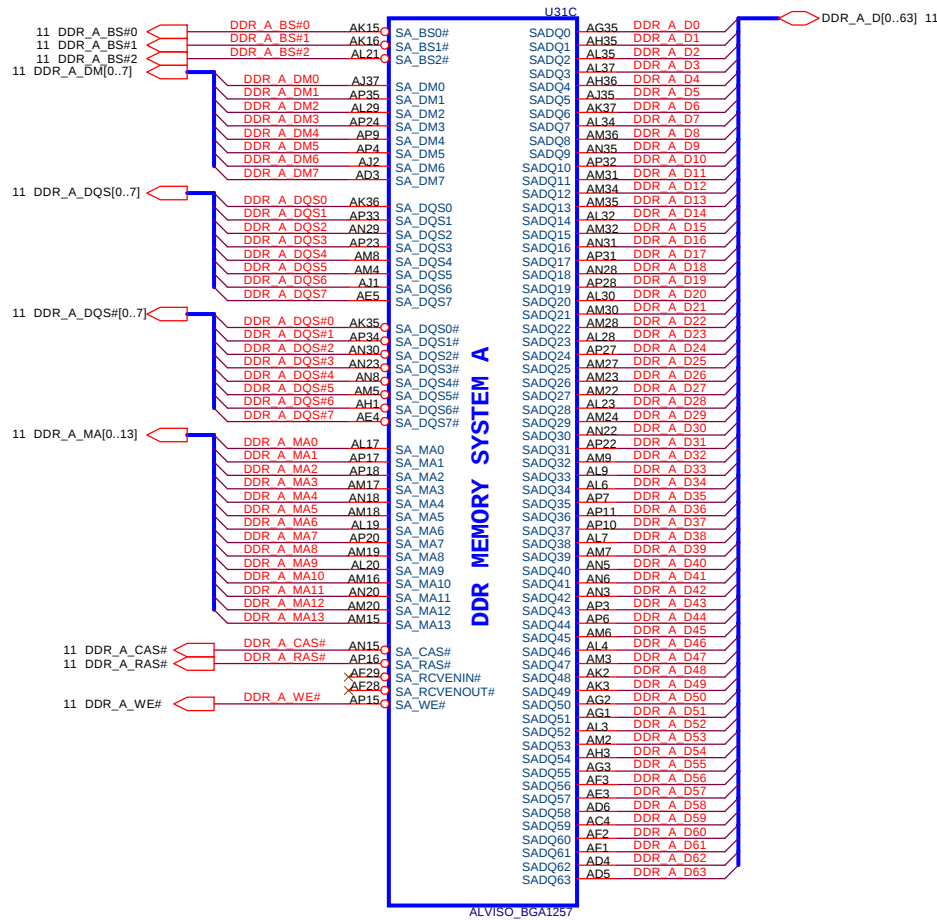
BTO Item	BOM Structure
UMA	6M@
Discrete	PM@
LAN 10/100	4401@
LAN GIGA	5788@
1 Spindle	1S@
2 Spindle	2S@
2 Spindle with SATA	2SS@
2 Spindle with PATA	2SP@
1 Spindle with SATA	1SS@
1 Spindle with PATA	1SP@
With Docking	WD@
Without Docking	ND@
With 1394	1394@
With 1394 4pin	1394<4>@
With 1394 6pin	1394<6>@

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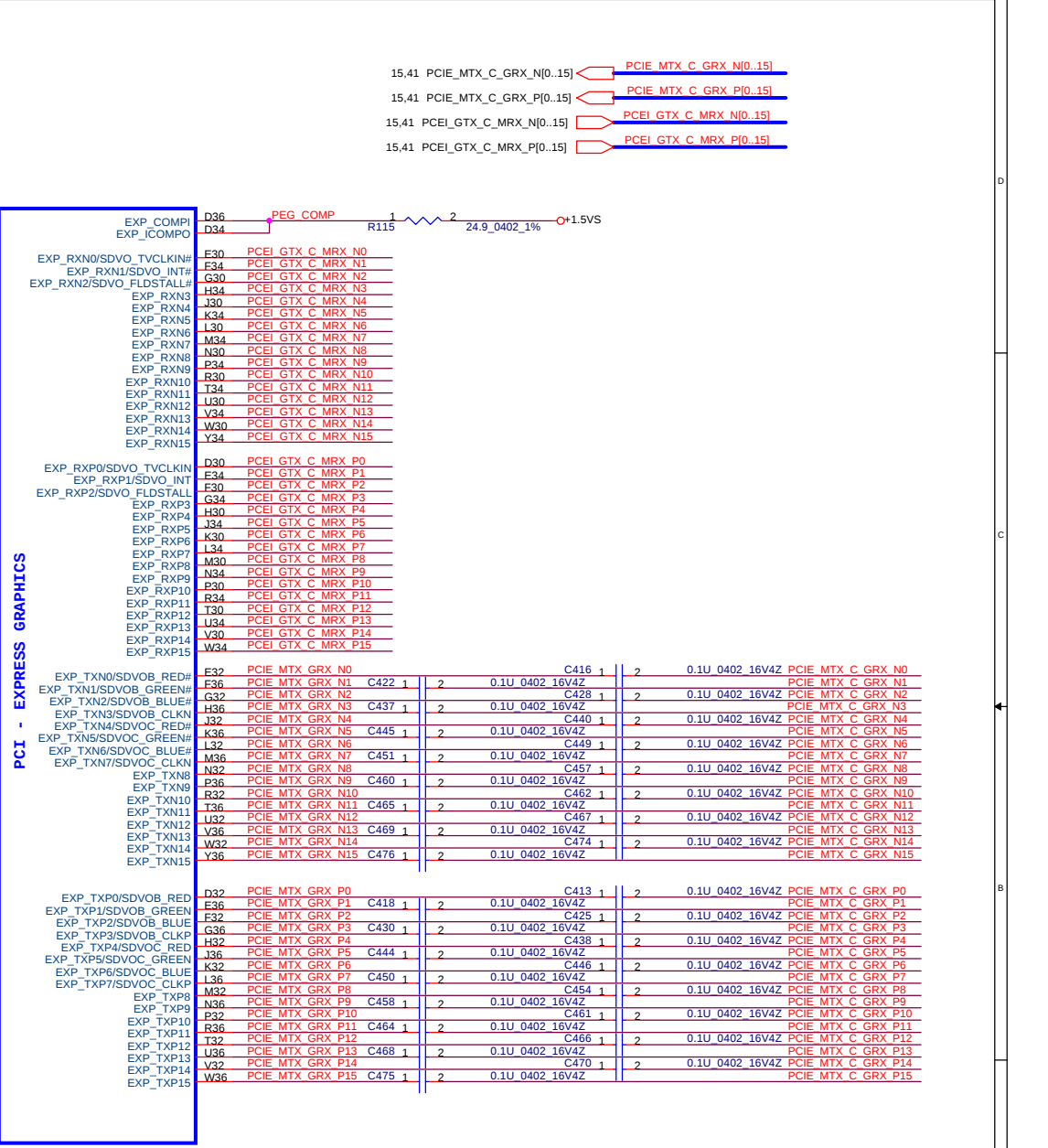
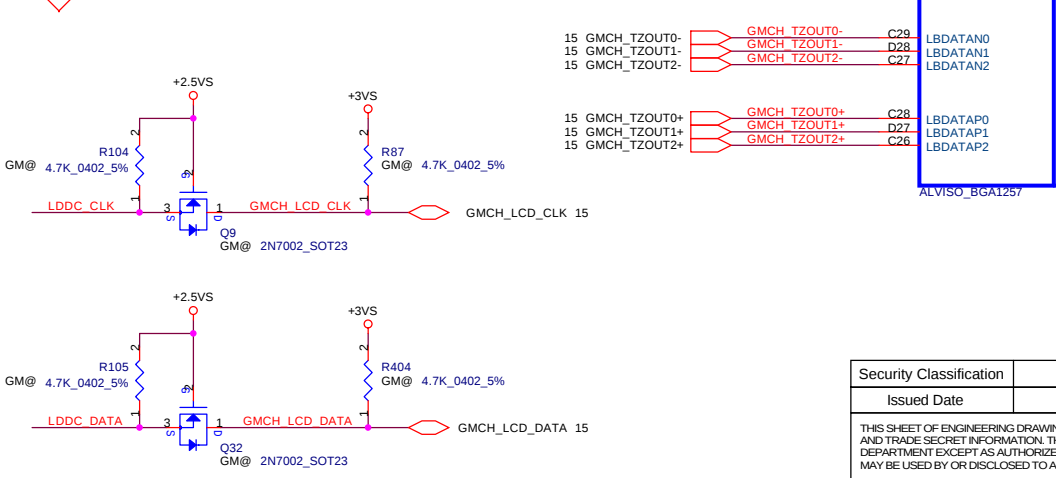
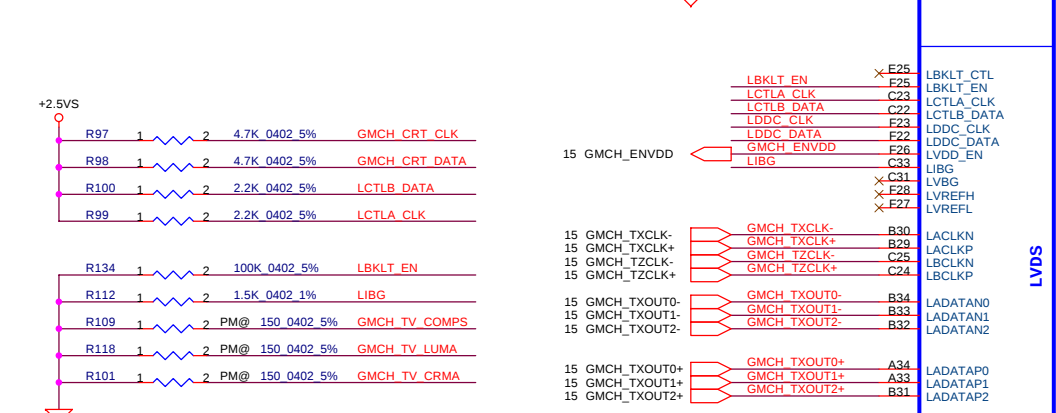
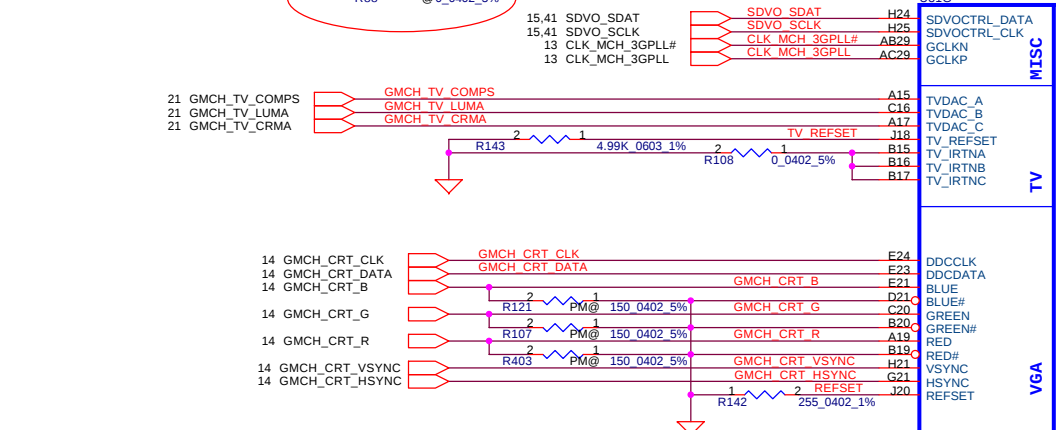
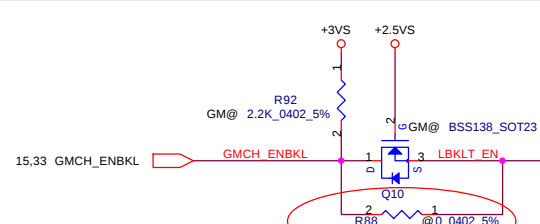




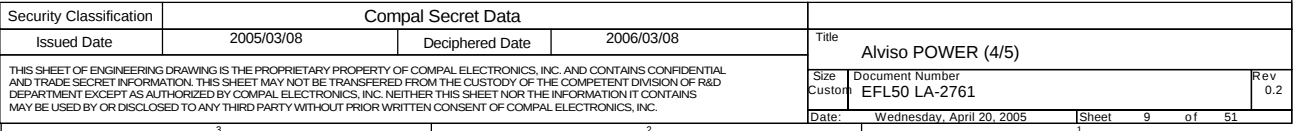
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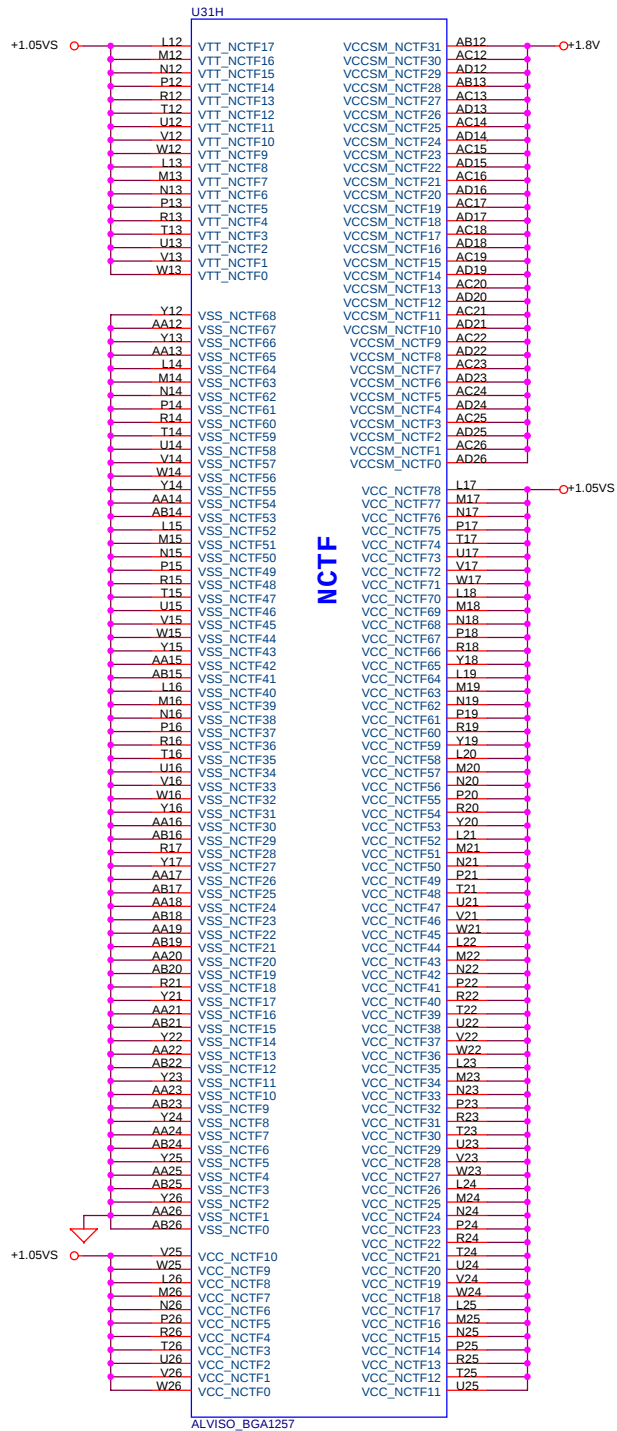


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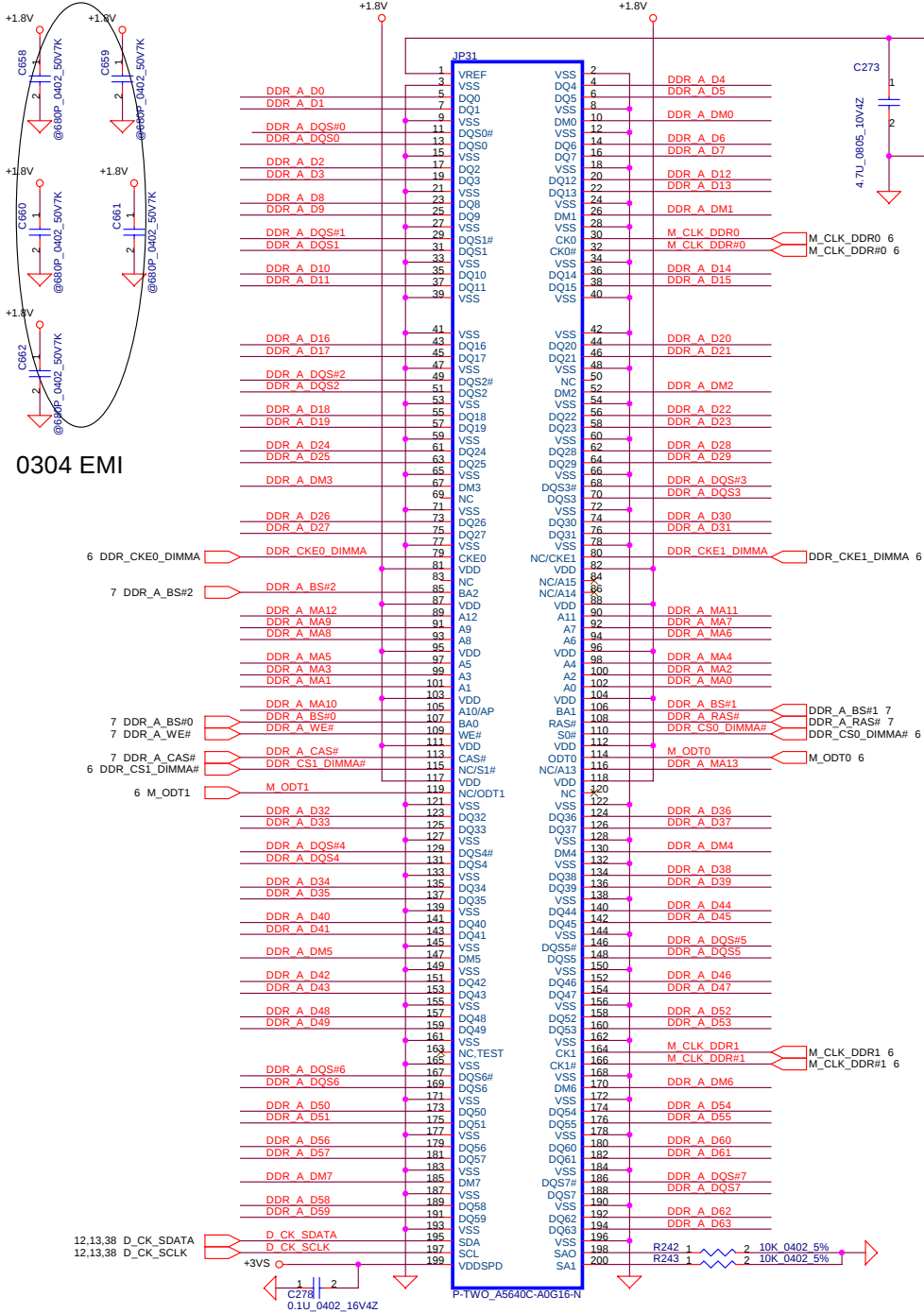


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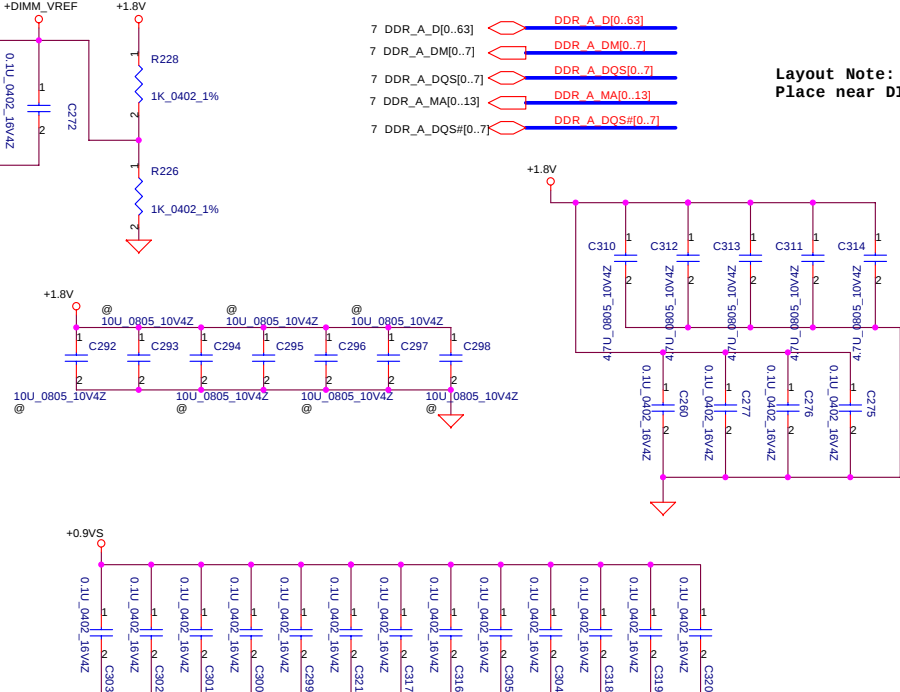


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0304 EMI

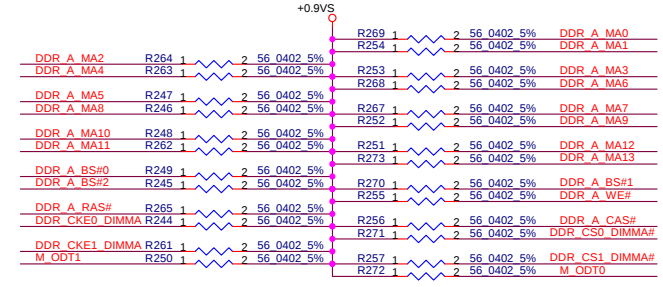
Address: 1001 000X b



Layout Note:
Place near DIMM

Layout Note:
Place one cap close to every 2 pullup
resistors terminated to +0.9VS

Layout Note:
Place these resistor
closely DIMM0,all
trace length<750 mil



Layout Note:
Place these resistor
closely DIMM0,all
trace length
Max=1.3"

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/08	Deciphered Date	2006/03/08	DDRII- SODIMM SLOT0	
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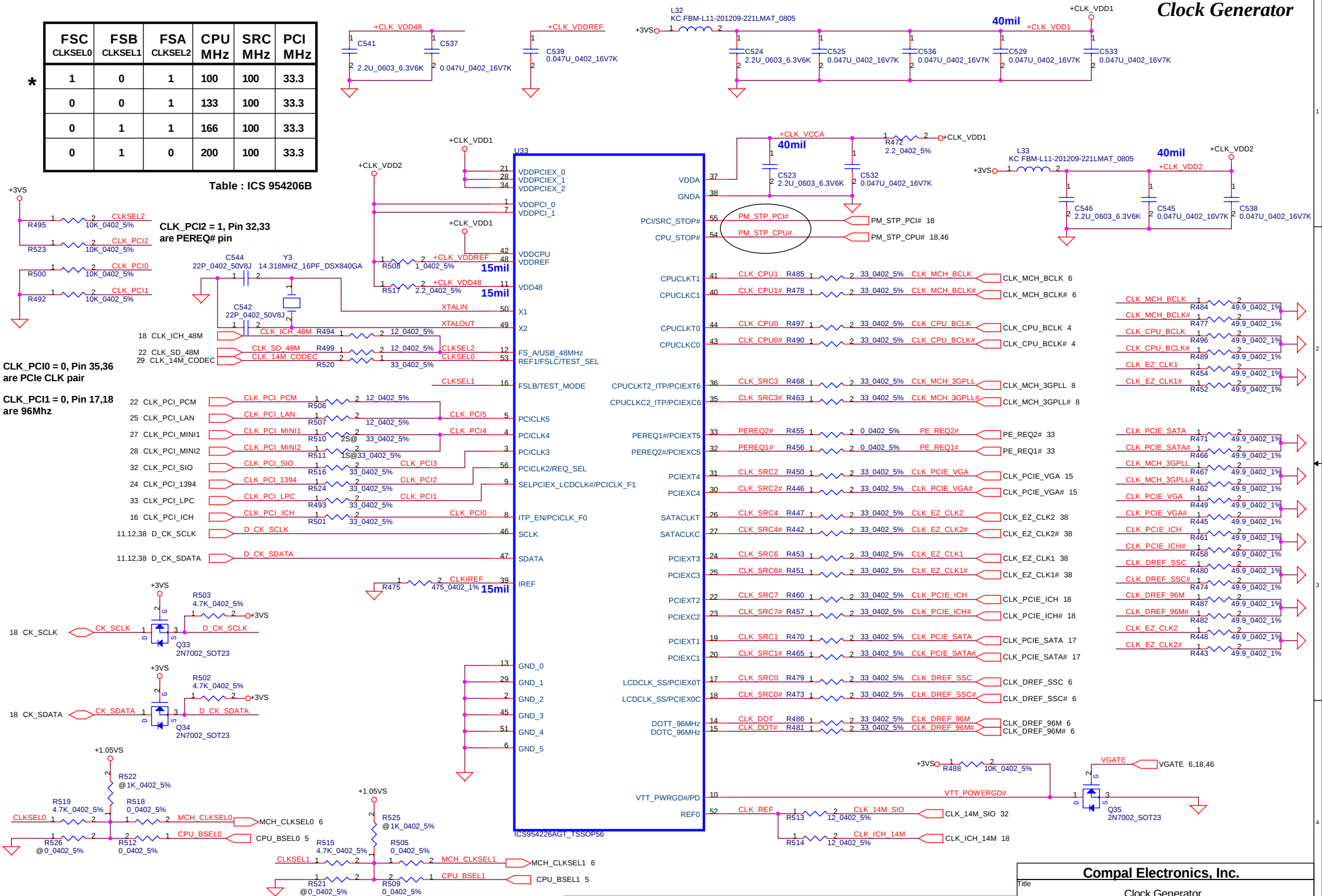
FSC	FSB	FSA	CPU	SRC	PCI
CLKSEL0	CLKSEL1	CLKSEL2	MHz	MHz	MHz
1	0	1	100	100	33.3
0	0	1	133	100	33.3
0	1	1	166	100	33.3
0	1	0	200	100	33.3

Table : ICS 954206B

CLK_PCI2 = 1, Pin 32,33 are PEREQ# pin

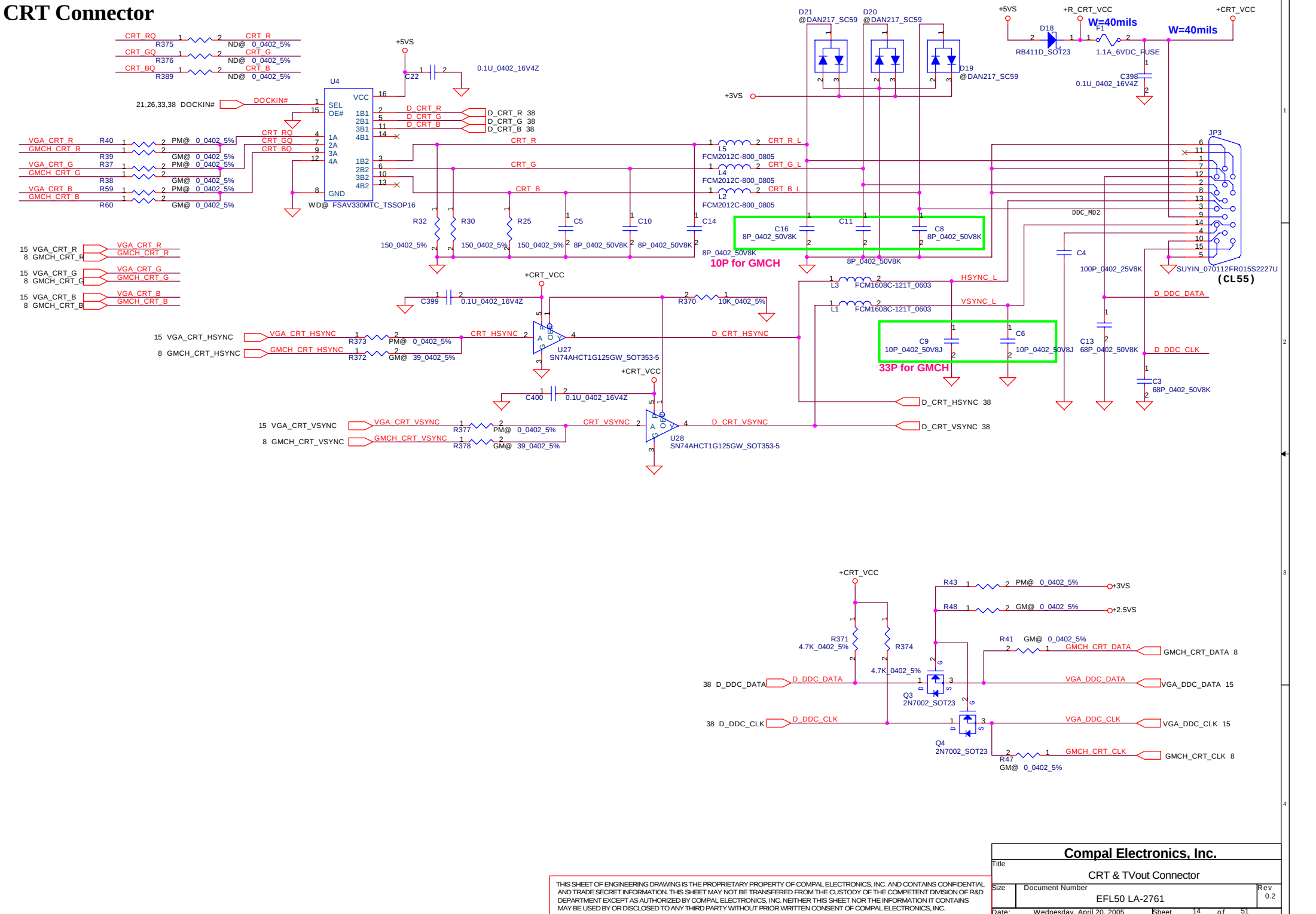
CLK_PCI0 = 0, Pin 35,36 are PCIe CLK pair

CLK_PCI1 = 0, Pin 17,18 are 96MHz



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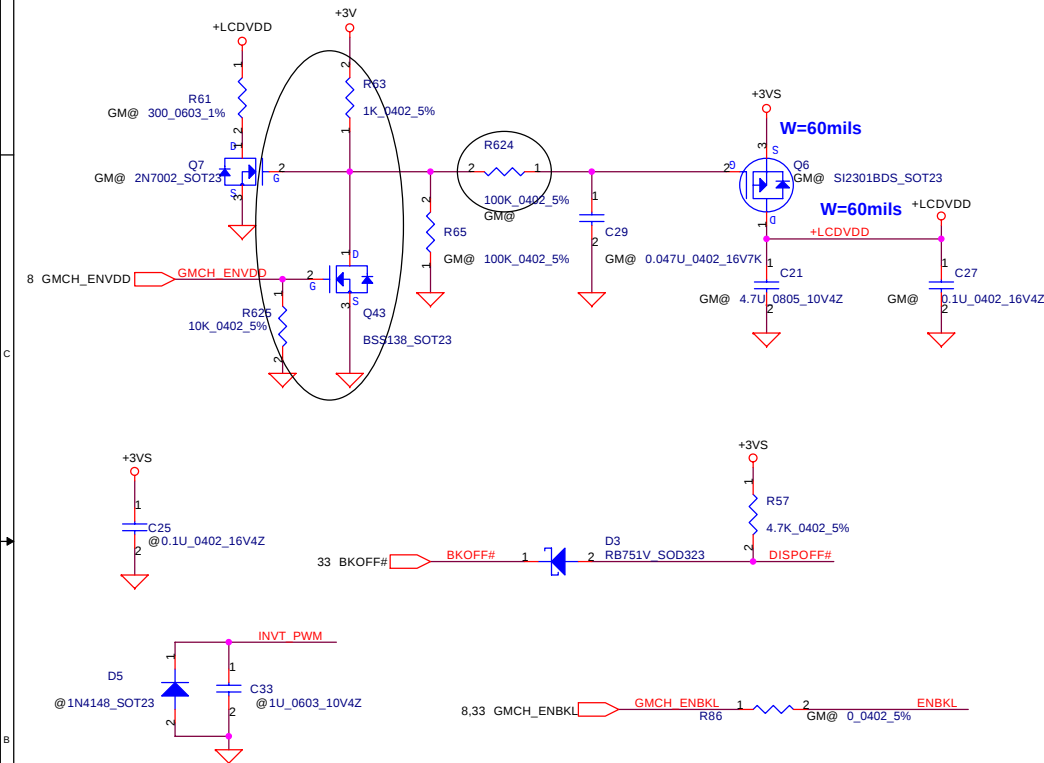
CRT Connector



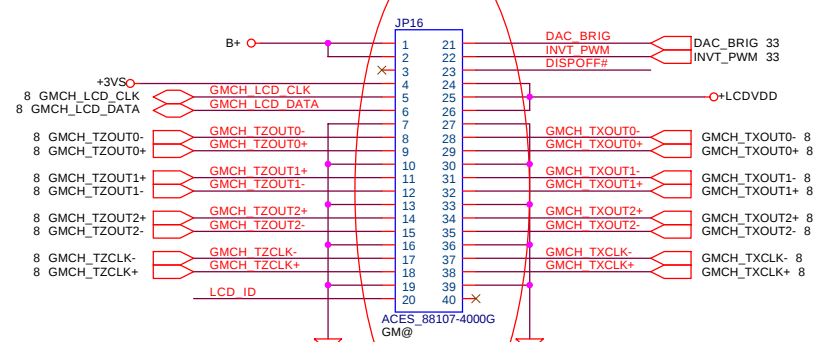
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Title			
CRT & TVout Connector			
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LCD POWER CIRCUIT



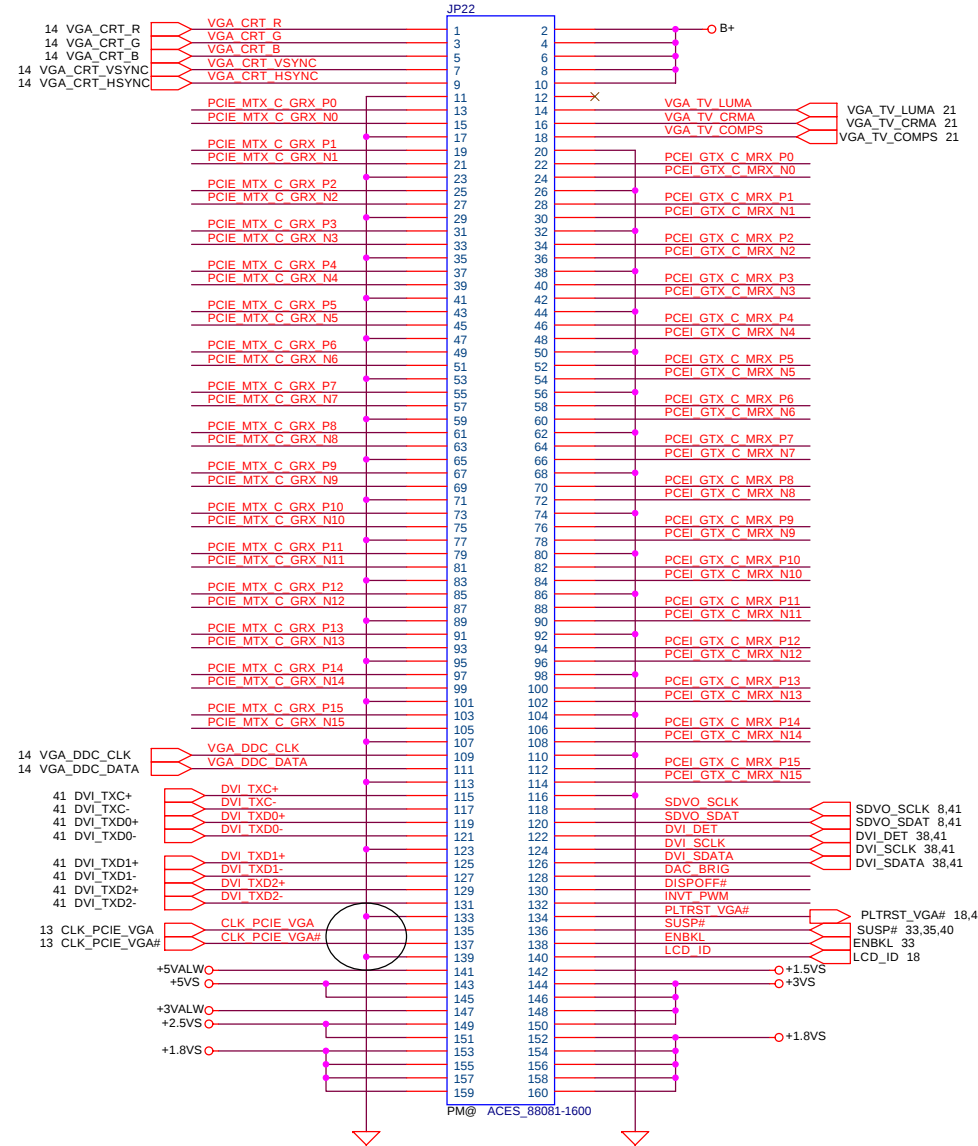
LCD/PANEL BD. Conn.



Reverse for Layout

8,41 PCIE GTX_C_MRX_N[0..15] ← PCIE GTX_C_MRX_N[0..15]
 8,41 PCIE GTX_C_MRX_P[0..15] ← PCIE GTX_C_MRX_P[0..15]
 8,41 PCIE_MTX_C_GRX_N[0..15] ← PCIE_MTX_C_GRX_N[0..15]
 8,41 PCIE_MTX_C_GRX_P[0..15] ← PCIE_MTX_C_GRX_P[0..15]

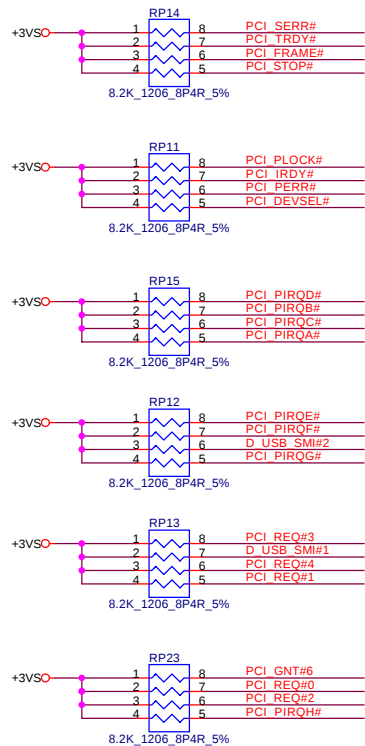
VGA BOARD Conn.



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Title			VGA / LCD CONN.
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22,24,25,27,28 PCI_AD[0..31]

PCI AD0 E2
PCI AD1 E5
PCI AD2 C2
PCI AD3 E5
PCI AD4 E3
PCI AD5 E9
PCI AD6 E2
PCI AD7 D6
PCI AD8 E6
PCI AD9 D3
PCI AD10 A2
PCI AD11 D2
PCI AD12 D5
PCI AD13 H3
PCI AD14 B4
PCI AD15 J5
PCI AD16 K2
PCI AD17 K5
PCI AD18 D4
PCI AD19 L6
PCI AD20 G3
PCI AD21 H4
PCI AD22 H2
PCI AD23 H5
PCI AD24 B3
PCI AD25 M6
PCI AD26 B2
PCI AD27 K6
PCI AD28 K3
PCI AD29 A5
PCI AD30 L1
PCI AD31 K4

U13B

PCI

REQ[0]#
GNT[0]#
REQ[1]#
GNT[1]#
REQ[2]#
GNT[2]#
REQ[3]#
GNT[3]#
REQ[4]#/GPI[40]
GNT[4]#/GPO[48]
REQ[5]#/GPI[1]
GNT[5]#/GPO[17]
REQ[6]#/GPI[0]
GNT[6]#/GPO[16]

C/BE[0]#
C/BE[1]#
C/BE[2]#
C/BE[3]#
IRDY#
PAR
PCIRST#
DEVSEL#
PERR#
PLOCK#
SERR#
STOP#
TRDY#

PLTRST#
PCICK
PME#

Interrupt I/F

PIRQ[A]#
PIRQ[B]#
PIRQ[C]#
PIRQ[D]#
PIRQ[E]#/GPI[2]
PIRQ[F]#/GPI[3]
PIRQ[G]#/GPI[4]
PIRQ[H]#/GPI[5]

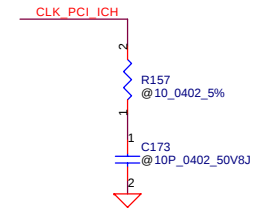
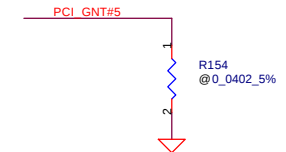
RESERVED

×AC5
×AD5
×AF4
×AG4
×AD9
×AF8
×AG8
×U3
SATA[1]RXN/RSVD[1]
SATA[1]RXP/RSVD[2]
SATA[1]TXN/RSVD[3]
SATA[1]TXP/RSVD[4]
SATA[3]RXN/RSVD[5]
SATA[3]RXP/RSVD[6]
SATA[3]TXN/RSVD[7]
SATA[3]TXP/RSVD[8]
TP[3]RSVD[9]

ICH6_BGA609

L5 PCI REQ#0 PCI REQ#0 24
C1 PCI GNT#0 PCI GNT#0 24
B5 PCI REQ#1 PCI REQ#1 27,28
B6 PCI GNT#1 PCI GNT#1 27,28
M5 PCI REQ#2 PCI REQ#2 22
F1 PCI GNT#2 PCI GNT#2 22
B8 PCI REQ#3 PCI REQ#3 25
C8 PCI GNT#3 PCI GNT#3 25
F7 PCI REQ#4 PCI REQ#4 25
E7 D_USB_SMI#1 D_USB_SMI#1 38
E8 PCI GNT#5 D_USB_SMI#1 38
F6 PCI GNT#2 D_USB_SMI#2 38
B7 D_USB_SMI#2 D_USB_SMI#2 38
D8 PCI GNT#6
J6 PCI CBE#0 PCI_C/BE#0 22,24,25,27,28
H6 PCI CBE#1 PCI_C/BE#1 22,24,25,27,28
G4 PCI CBE#2 PCI_C/BE#2 22,24,25,27,28
G2 PCI CBE#3 PCI_C/BE#3 22,24,25,27,28
A3 PCI IRDY# PCI_IRDY# 22,24,25,27,28
E1 PCI PAR PCI_PAR 22,24,25,27,28
R2 PCI RST# PCI_RST# 22,24,25,27,28,32,33
C3 PCI DEVSEL# PCI_DEVSEL# 22,24,25,27,28
E3 PCI PERR# PCI_PERR# 22,24,25,27,28
C5 PCI PLOCK#
G5 PCI SERR# PCI_SERR# 22,24,25,27,28
J1 PCI STOP# PCI_STOP# 22,24,25,27,28
J2 PCI TRDY# PCI_TRDY# 22,24,25,27,28
R5 PLT_RST# PLT_RST# 6,18,20,32,33,41
G6 CLK_ICH_PCI CLK_ICH_PCI 13
P6
D9 PCI PIRQE# PCI_PIRQE# 24
C7 PCI PIRQF# PCI_PIRQF# 25
C6 PCI PIRQG# PCI_PIRQG# 27,28
M3 PCI PIRQH# PCI_PIRQH# 27,28

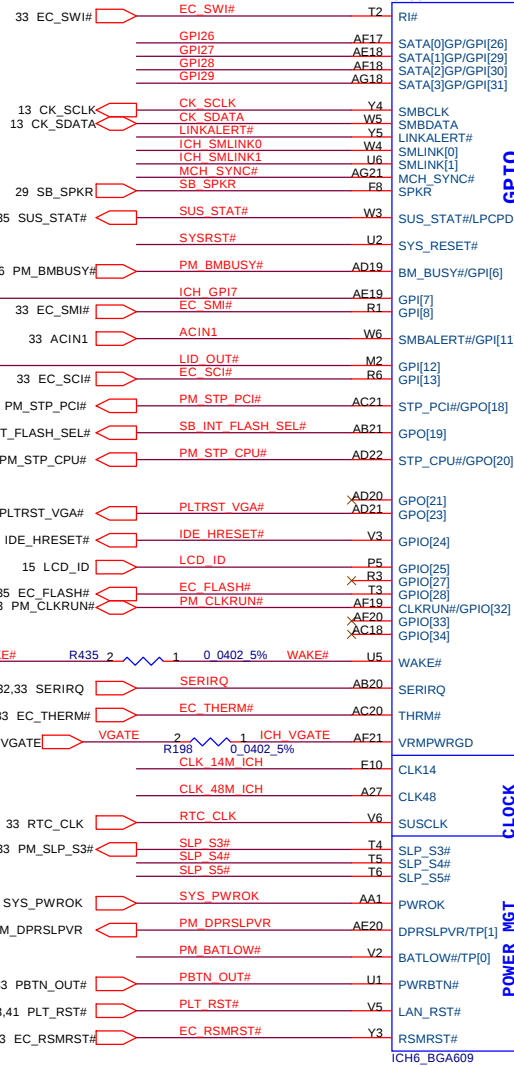
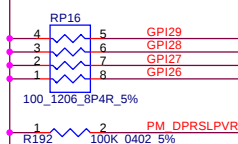
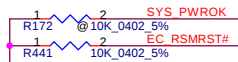
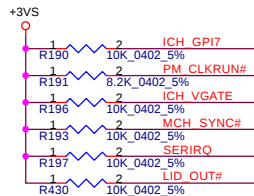
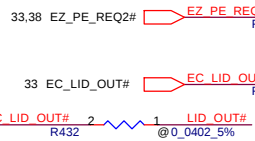
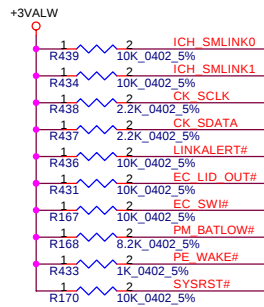
Internal Pull-up.
Sample high destination is LPC.



Compal Electronics, Inc.

Title	ICH6(1/4)		
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PCI-EXPRESS

DIRECT MEDIA INTERFACE

USB

POWER MGT

CLOCK

GPIO

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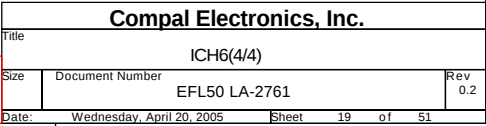
GPIO

GPIO

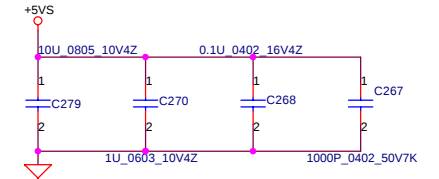
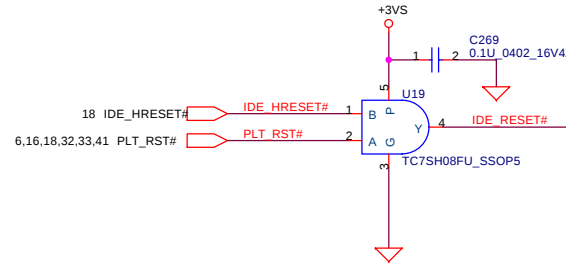
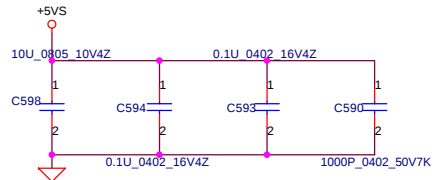
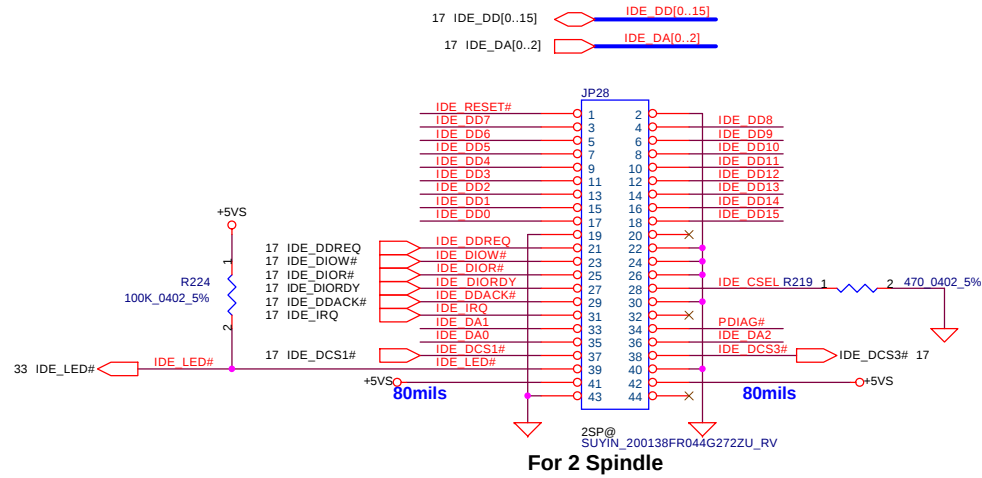
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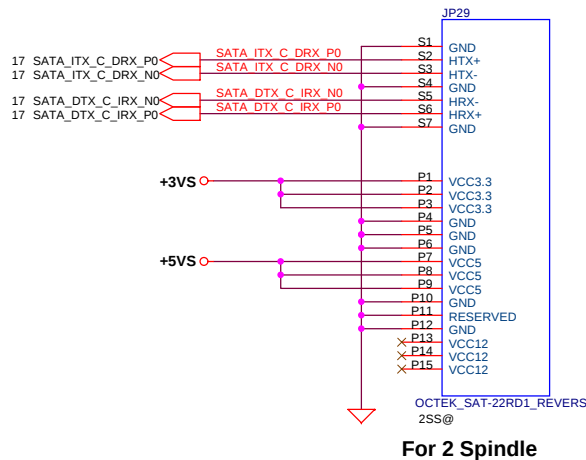
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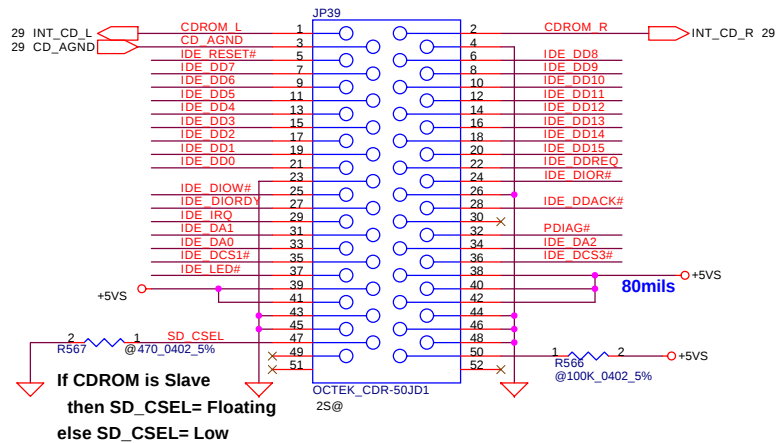
HDD CONN



SATA HDD CONN



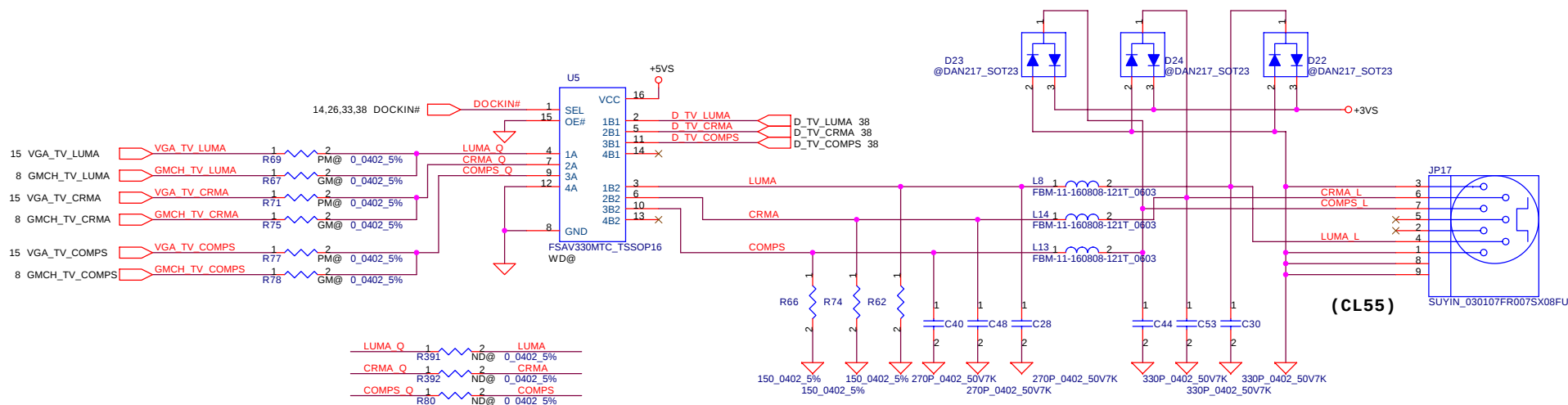
CDROM CONN



Compal Electronics, Inc.

Title		
HDD & CDROM Connector		
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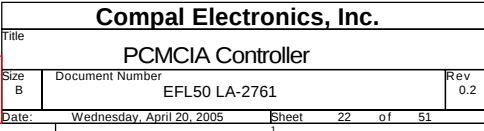


(CL55)

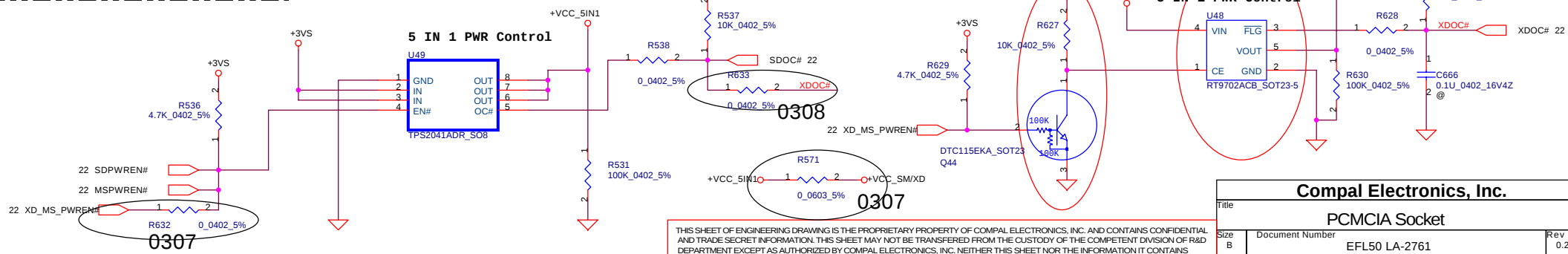
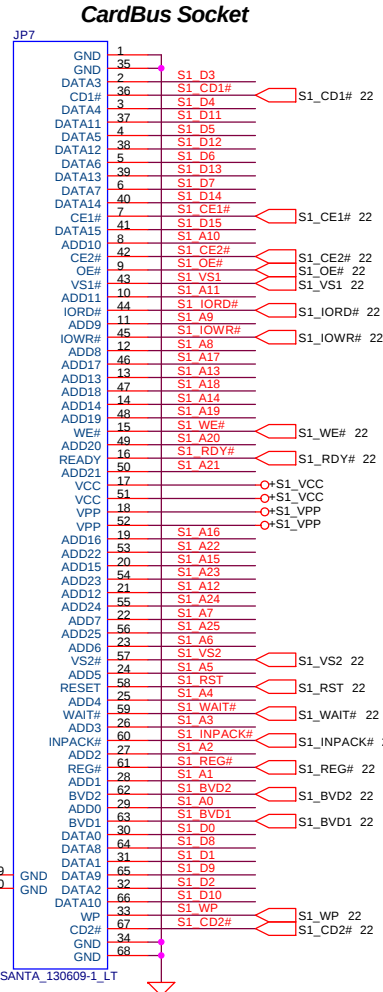
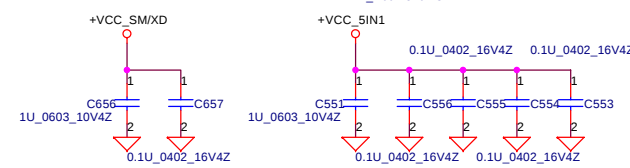
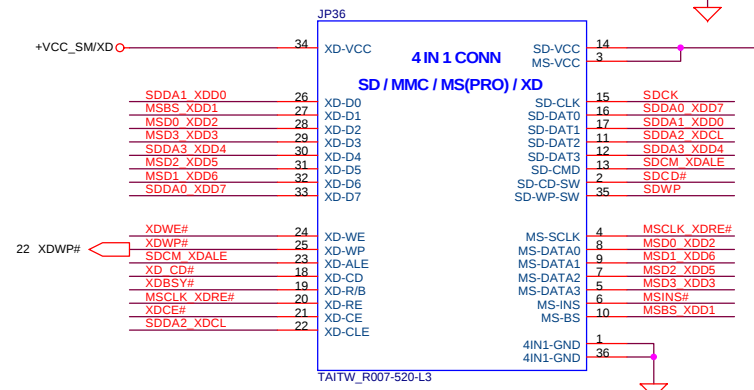
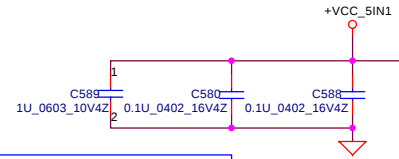
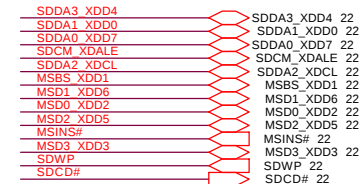
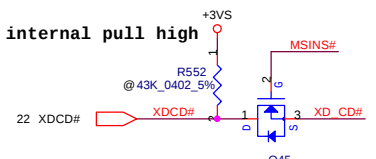
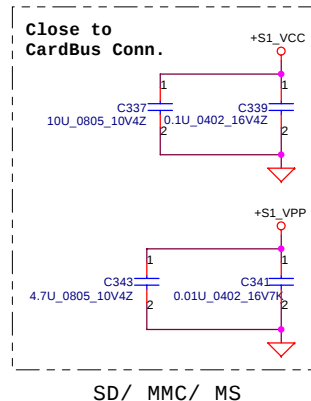
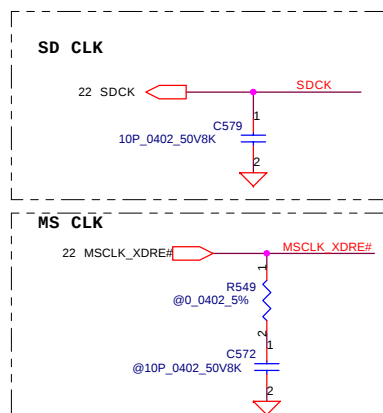
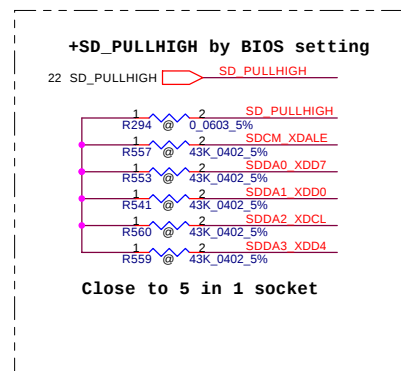
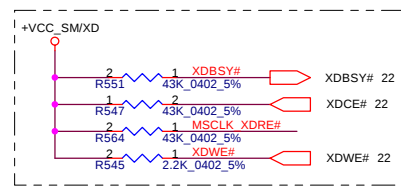
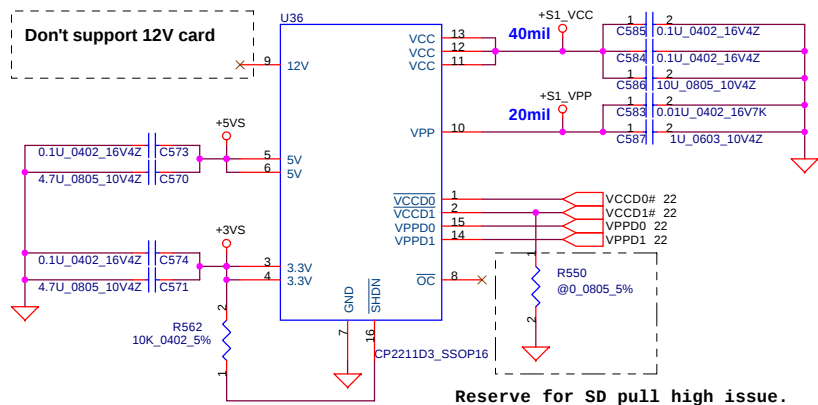
Compal Electronics, Inc.

Title			PATA / SATA HDD Connector		
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PCMCIA Power Controller



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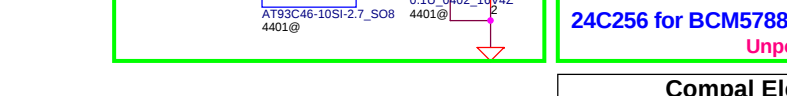
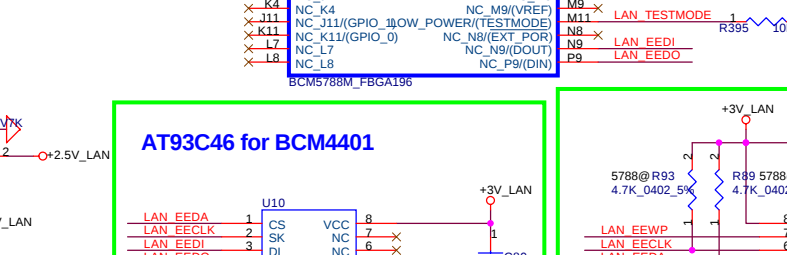
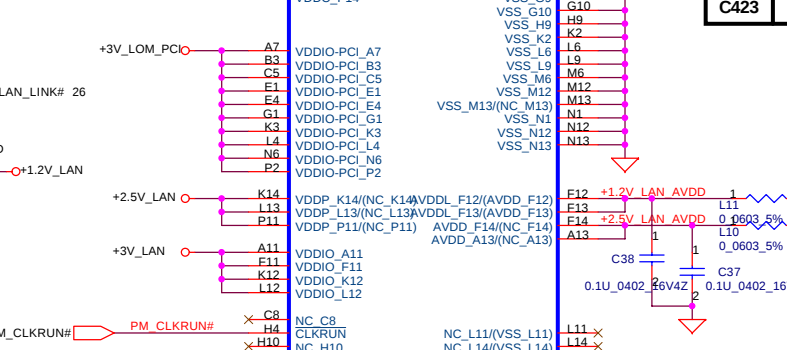
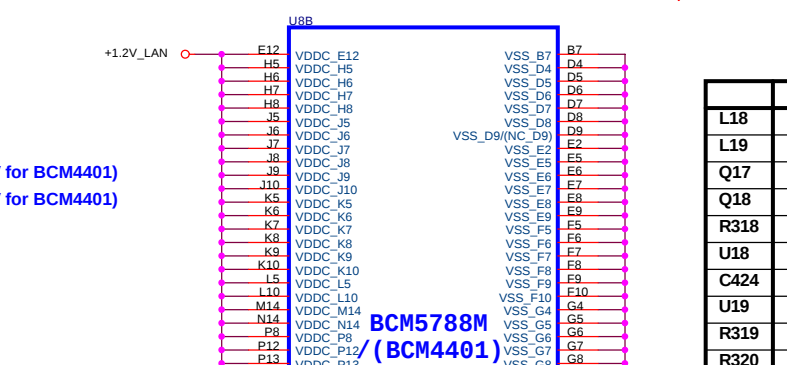
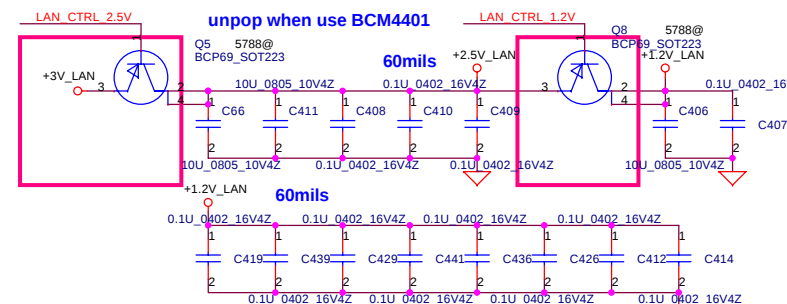
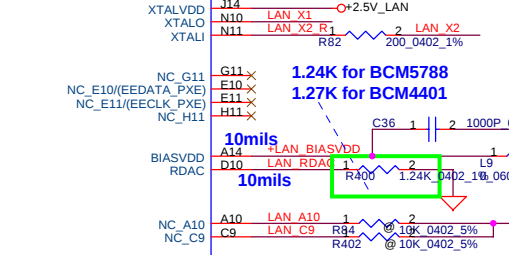
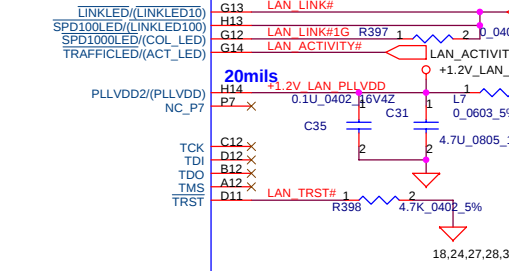
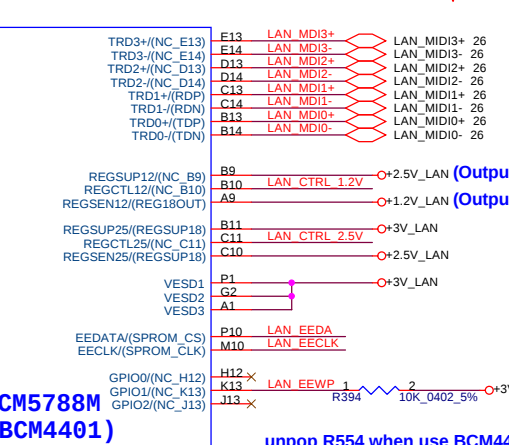
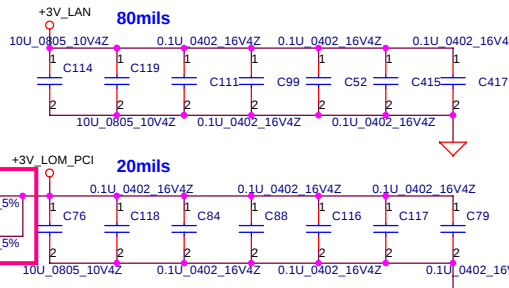
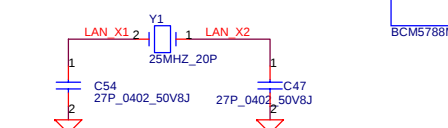
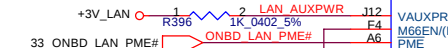
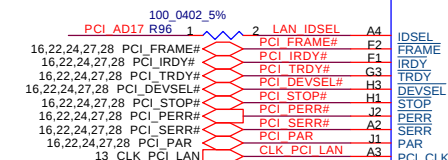
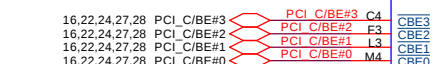
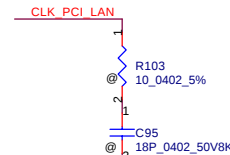
Compal Electronics, Inc.			
Title			
PCMCIA Socket			
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EN_WOL# = Low,
System can wake on LAN
(keep Low when Power On)

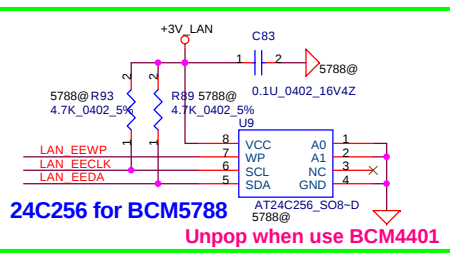
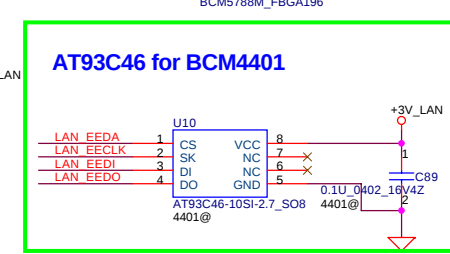
VGS(th) = -0.45V
IDmax = 2.3A

+3VS for BCM5788
+3V_LAN for BCM4401

16,22,24,27,28 PCI_AD[0..31]

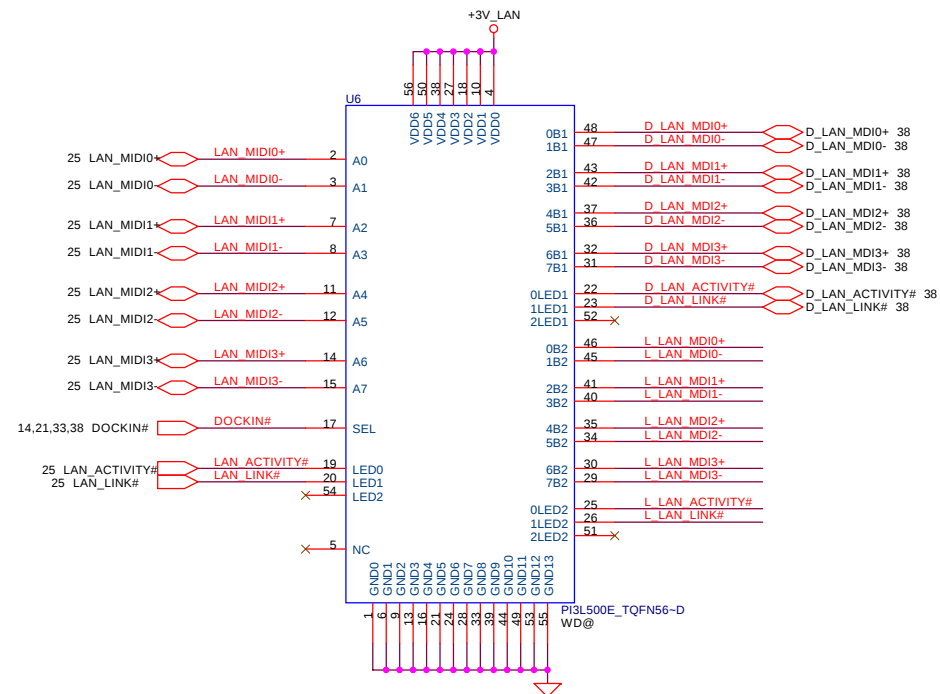


	5788	4401
L18		Pop
L19	Pop	
Q17	Pop	
Q18	Pop	
R318	1.24K	1.27K
U18		Pop
C424		Pop
U19	Pop	
R319	Pop	
R320	Pop	
C423	Pop	



Title		
LAN BCM5788M		
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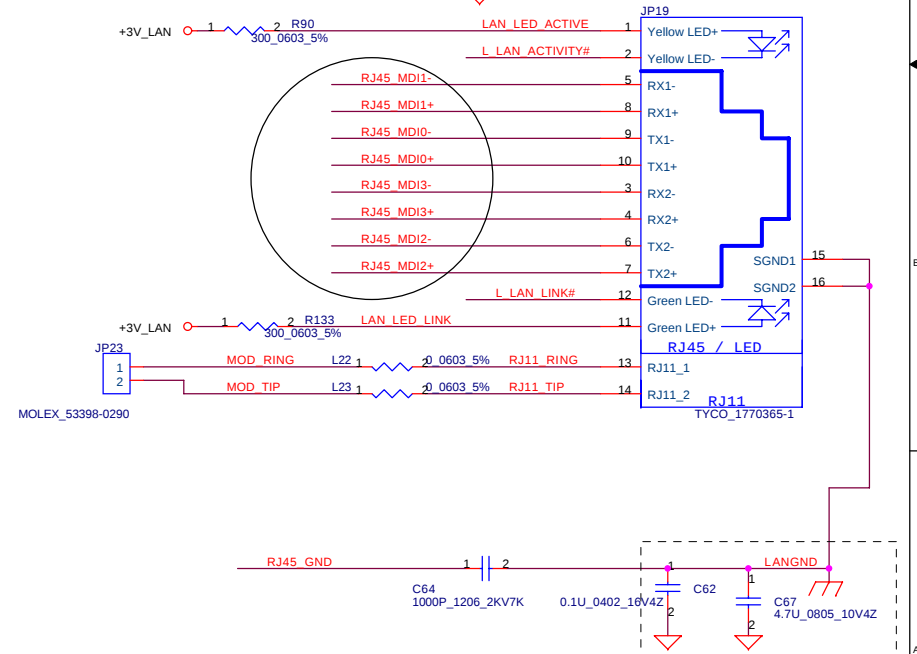
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LAN BCM5788M/BCM4401KFB

24ST0023-3(SP050004200) for BCM4401(10/100)

24HST1041A-3(SP050002110) for BCM5788M(GbE)



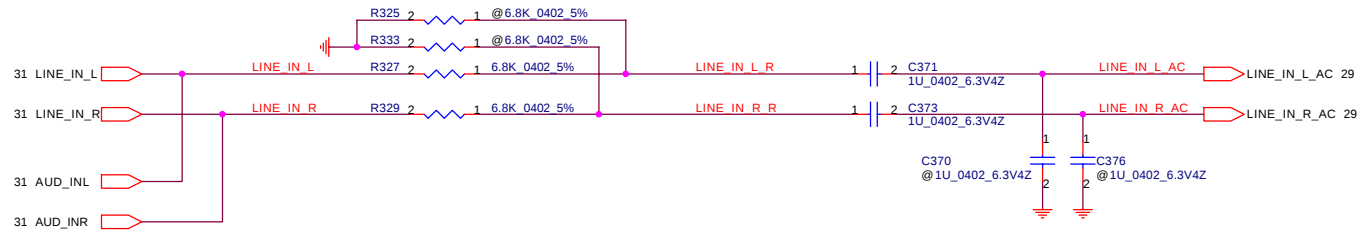
reserved for BCM4401(10/100)

Compal Electronics, Inc.

LAN Magnetic & RJ45/RJ11

Title			
LAN Magnetic & RJ45/RJ11			
Size	Document Number	Rev	
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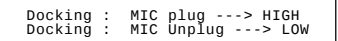
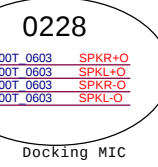
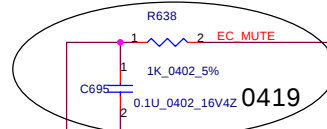
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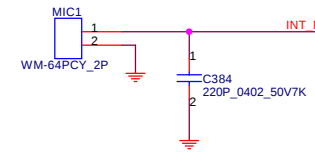
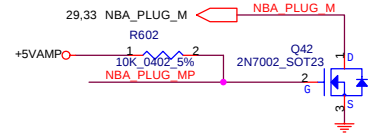
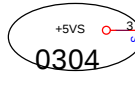
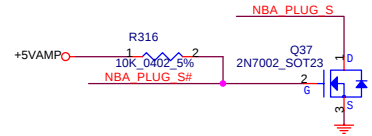
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Title			
Audio Line Switch			
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Diagram showing the connection of the SPKR+O, SPKR-O, SPKL+O, and SPKL-O pins to the JP9 header. The pins are numbered 4, 3, 2, and 1 respectively, and the header pins are numbered 4, 3, 2, and 1 respectively.

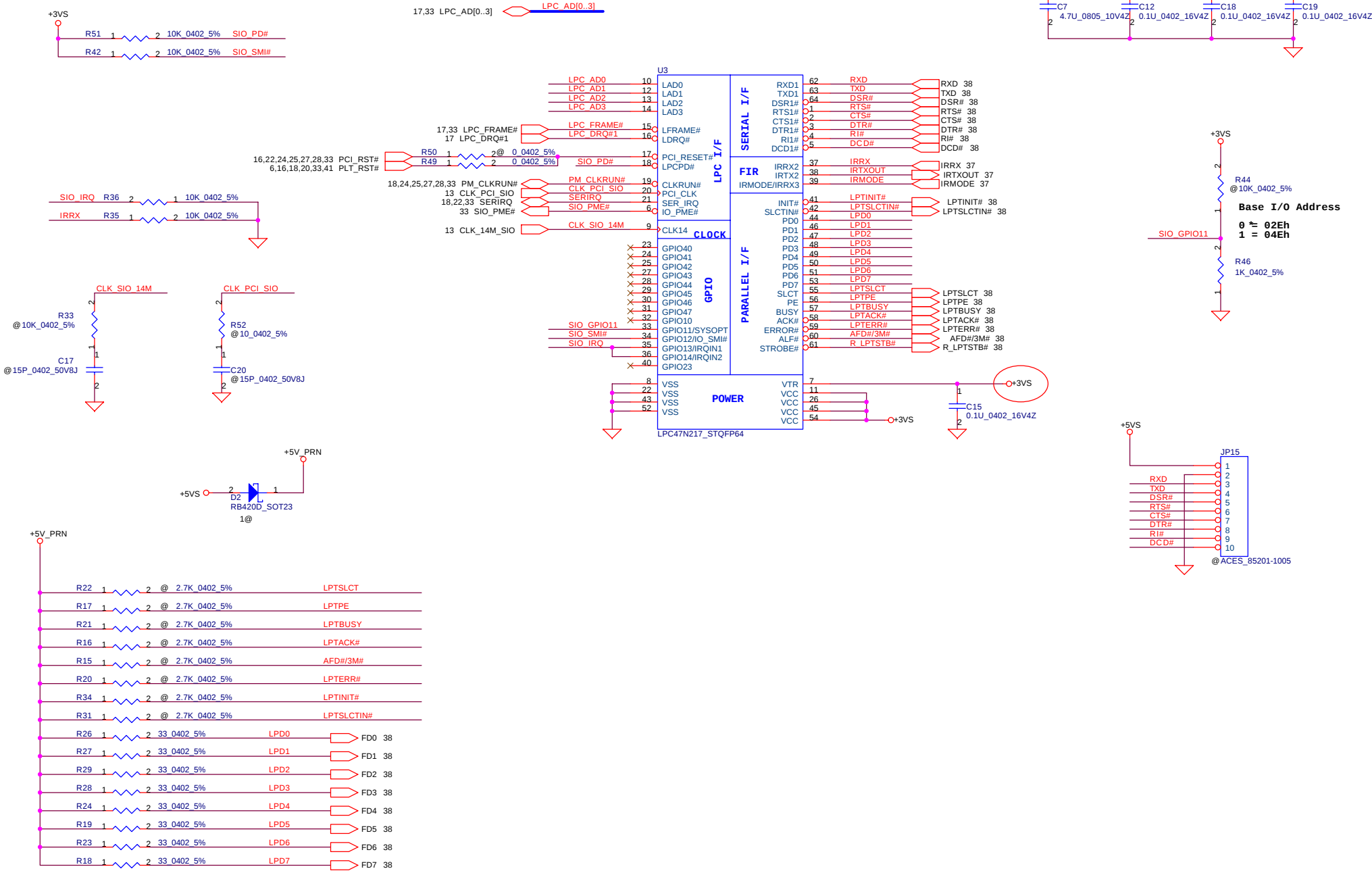


HeadPhone JACK



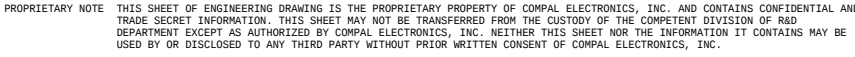
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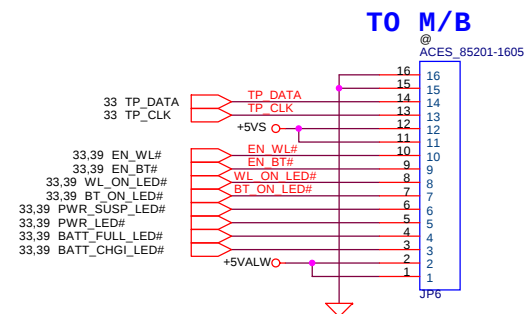
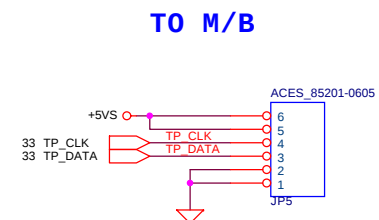
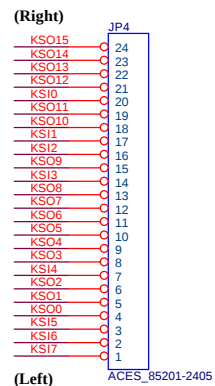
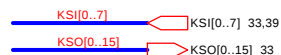
SUPER I/O SMC LPC47N217



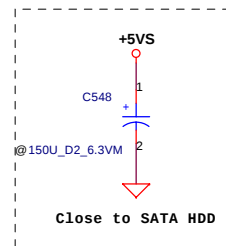
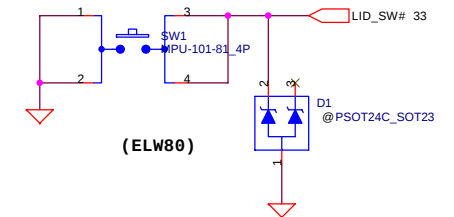
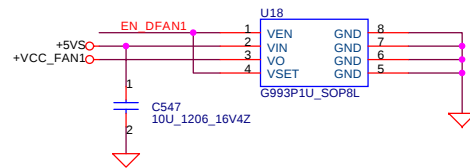
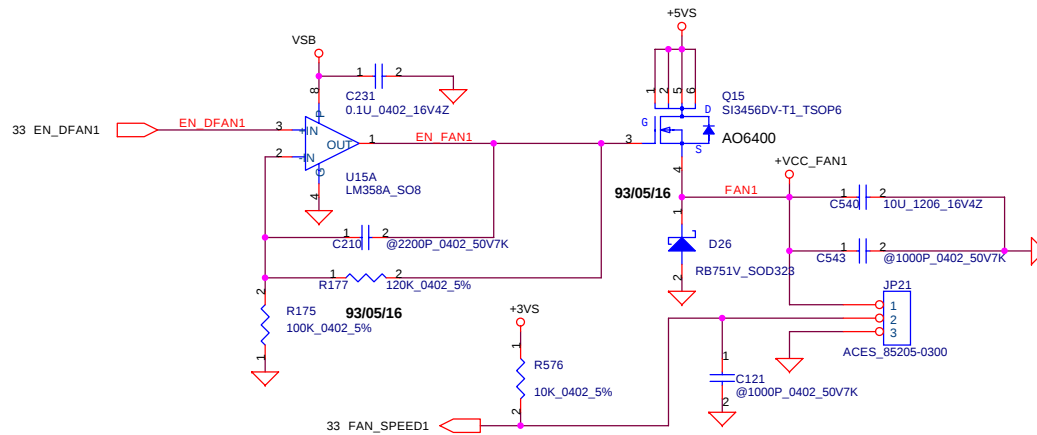
Compal Electronics, Ltd.			
Title			
LPC-Super I/O 217			
Size	Document Number	Rev	
	EFL50 LA2751	0.2	
Date:	Wednesday, April 20, 2005	Sheet	32 of 51

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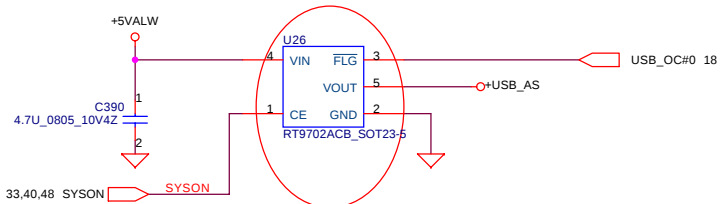


FAN Conn

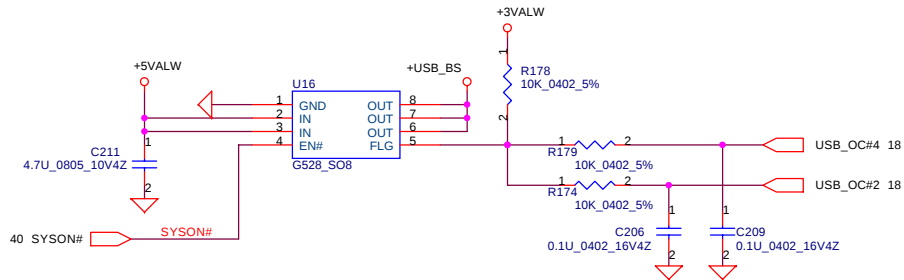


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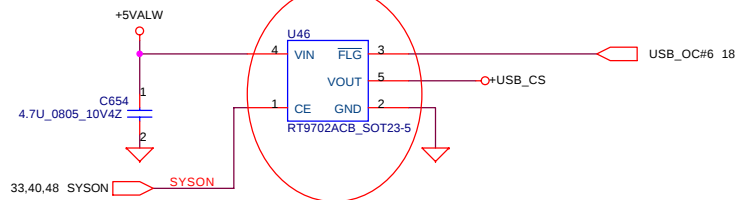
Compal Electronics, Inc.			
Title FAN / FIR / RJ11/Lid Switch			
Size	Document Number		Rev
	EFL50 LA-2761		0.2
Date:	Wednesday, April 20, 2005	Sheet	36 of 51



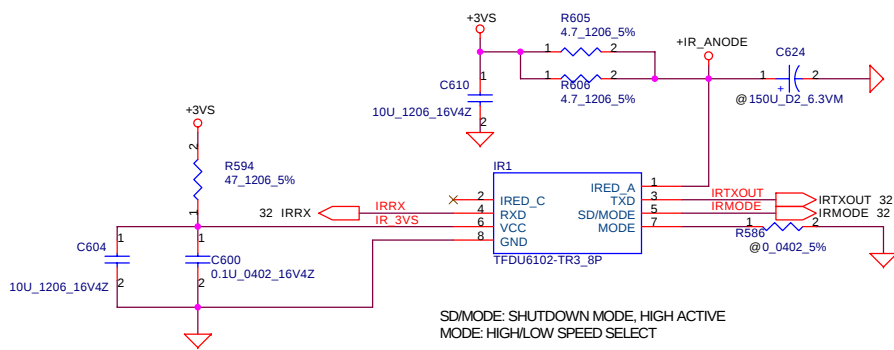
Cost-Down from G528 to RT9702



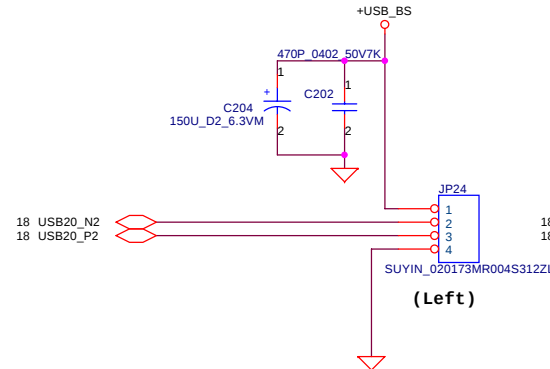
Cost-Down from G528 to RT9702



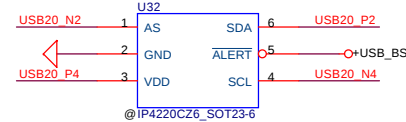
FIR Module



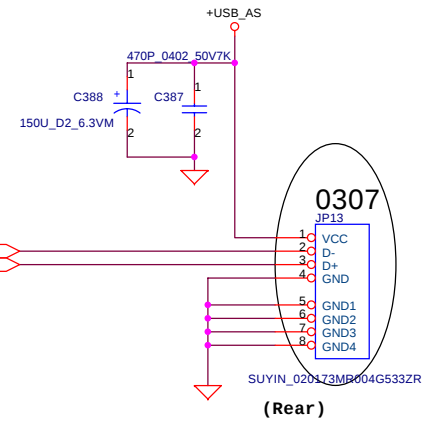
SDMODE: SHUTDOWN MODE, HIGH ACTIVE
MODE: HIGH/LOW SPEED SELECT



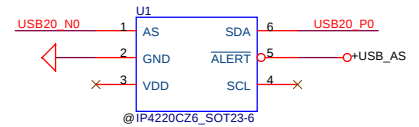
(Left)



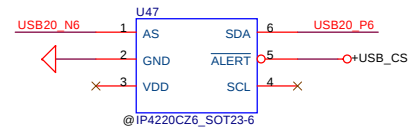
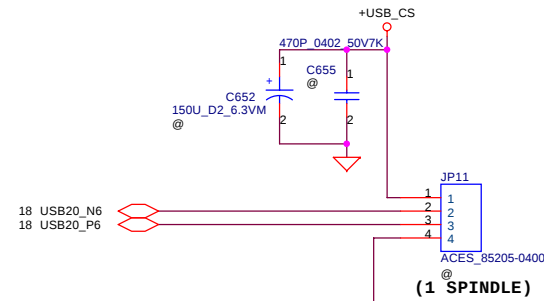
(Left)



(Rear)



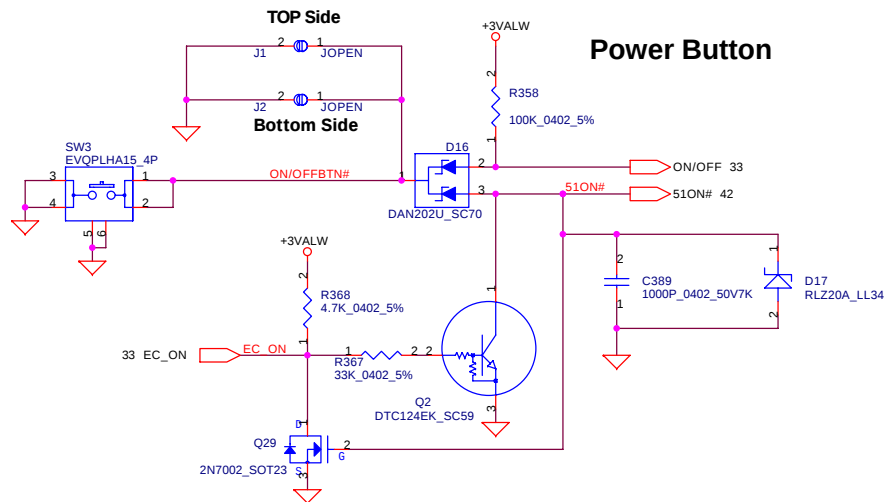
(1 SPINDLE)



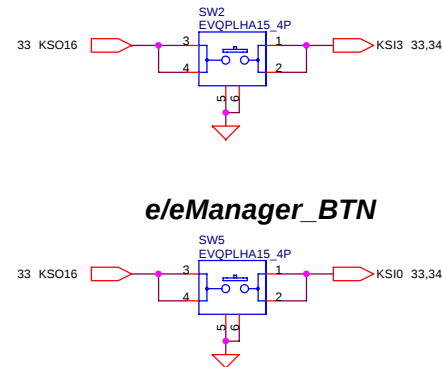
Compal Electronics, Inc.

Title		
USB Conn		
Size	Document Number	Rev
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Date:	Wednesday, April 20, 2005	Sheet 37 of 51

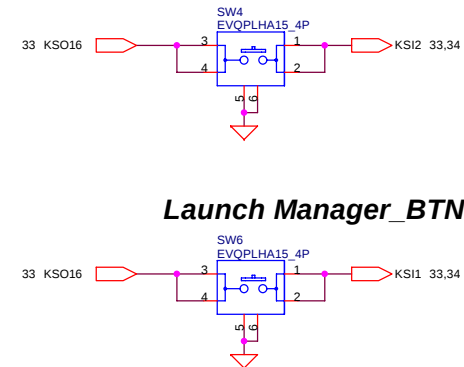
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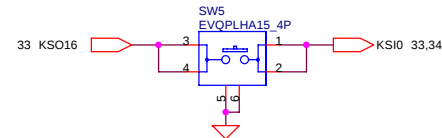
E-Mail_BTN



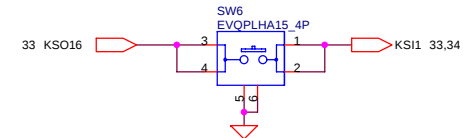
Internet_BTN



e/eManager_BTN



Launch Manager_BTN



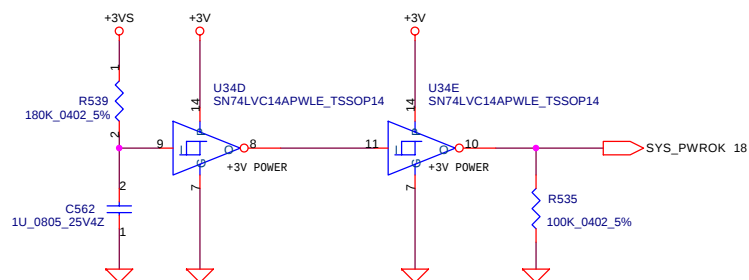
BlueTooth_BTN



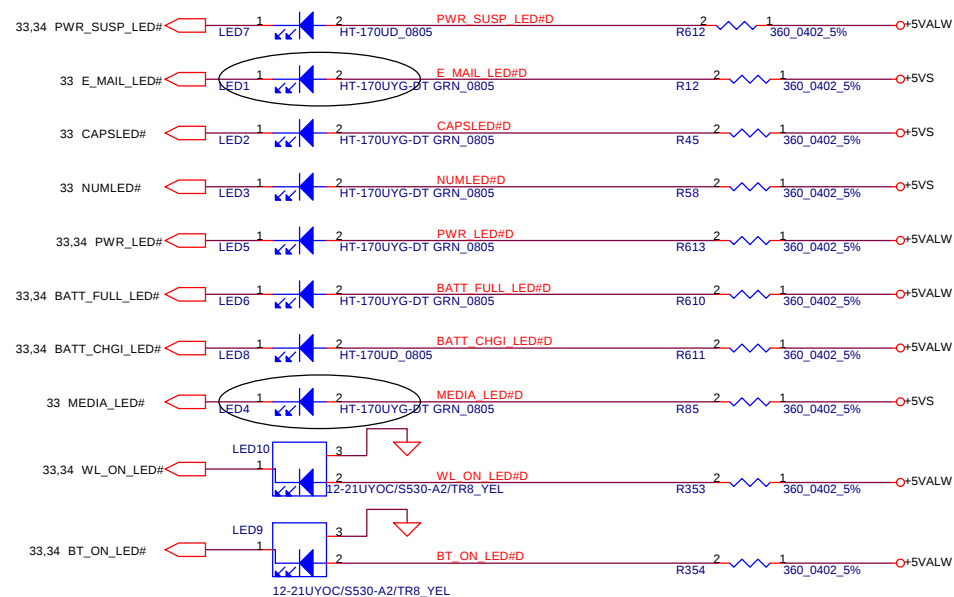
Wireless_BTN



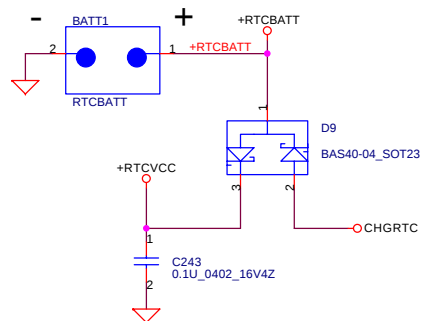
Power ON Circuit



LED Indicator

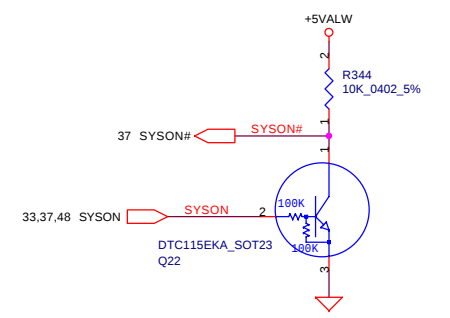
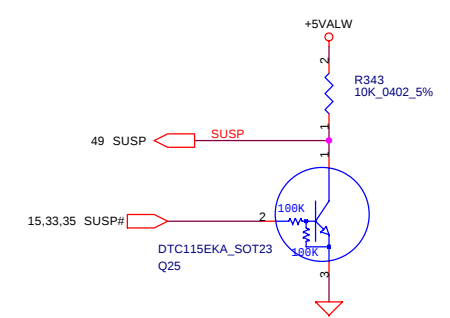
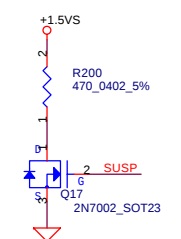
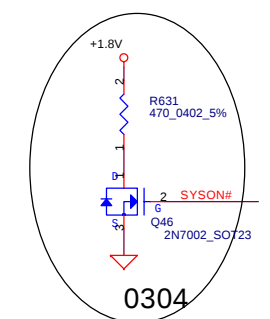
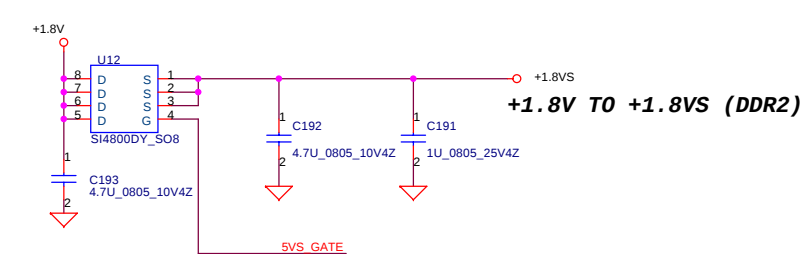
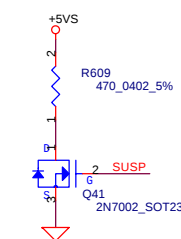
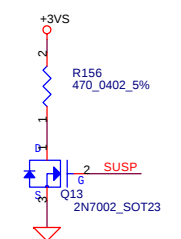
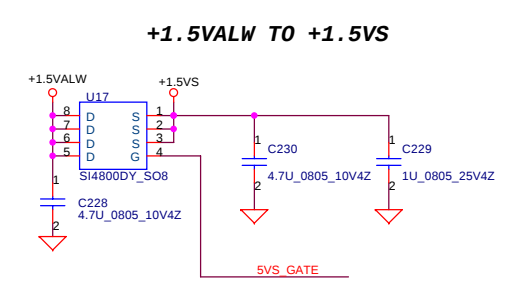
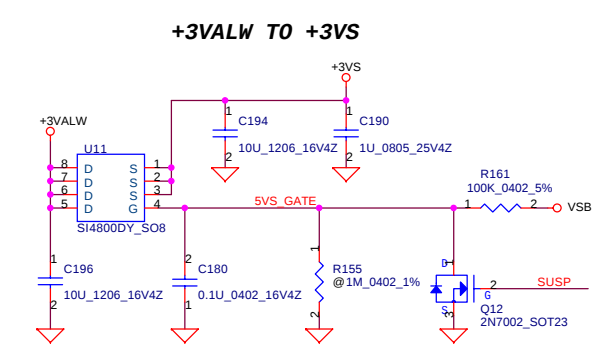
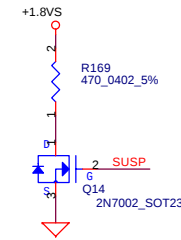
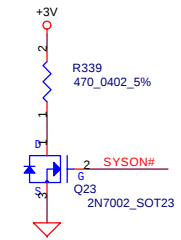
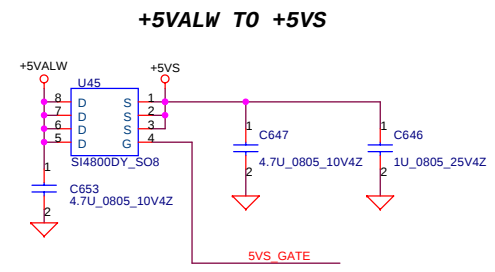
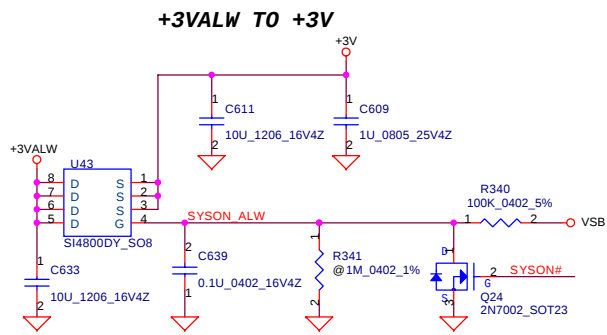


RTC Battery



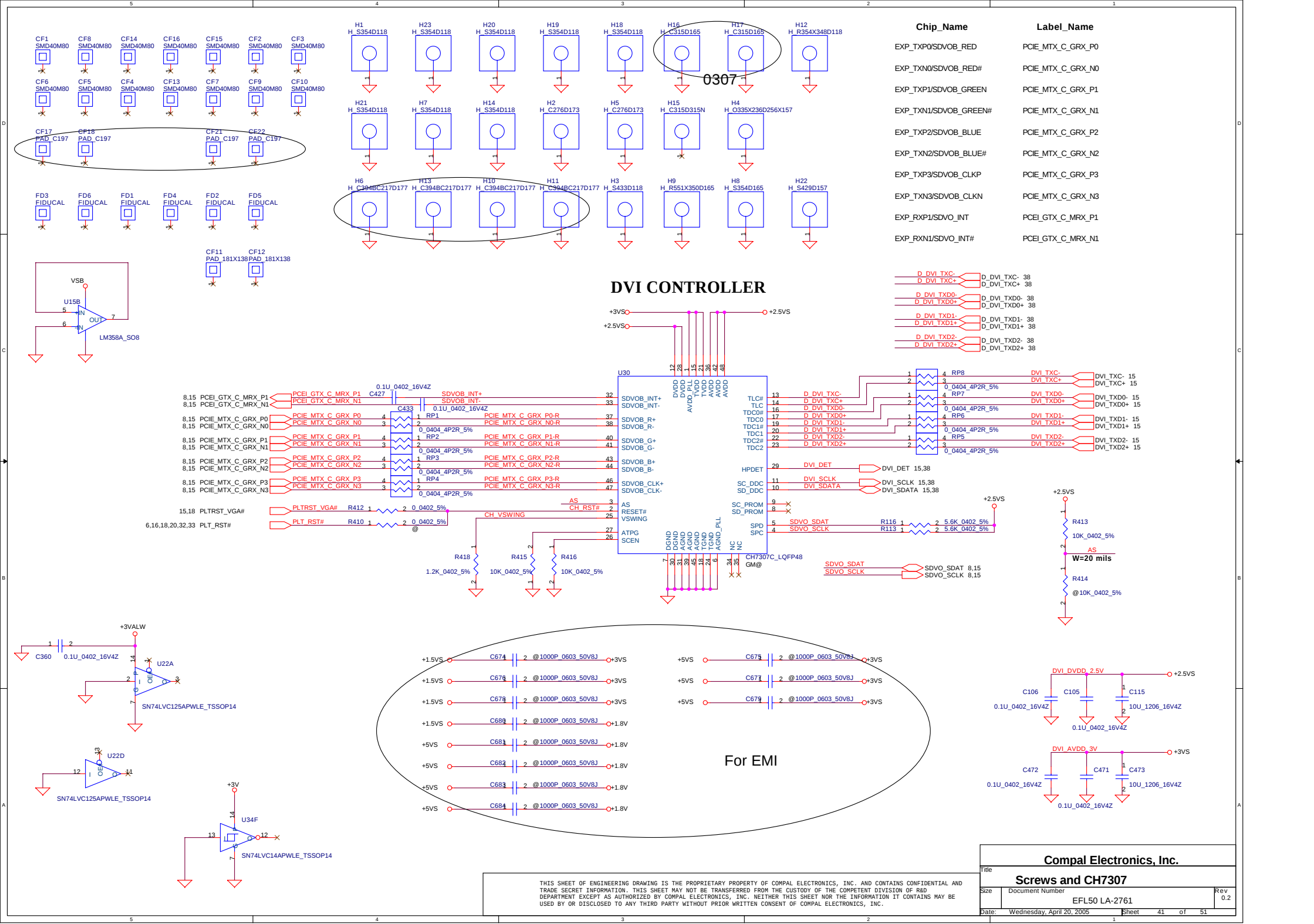
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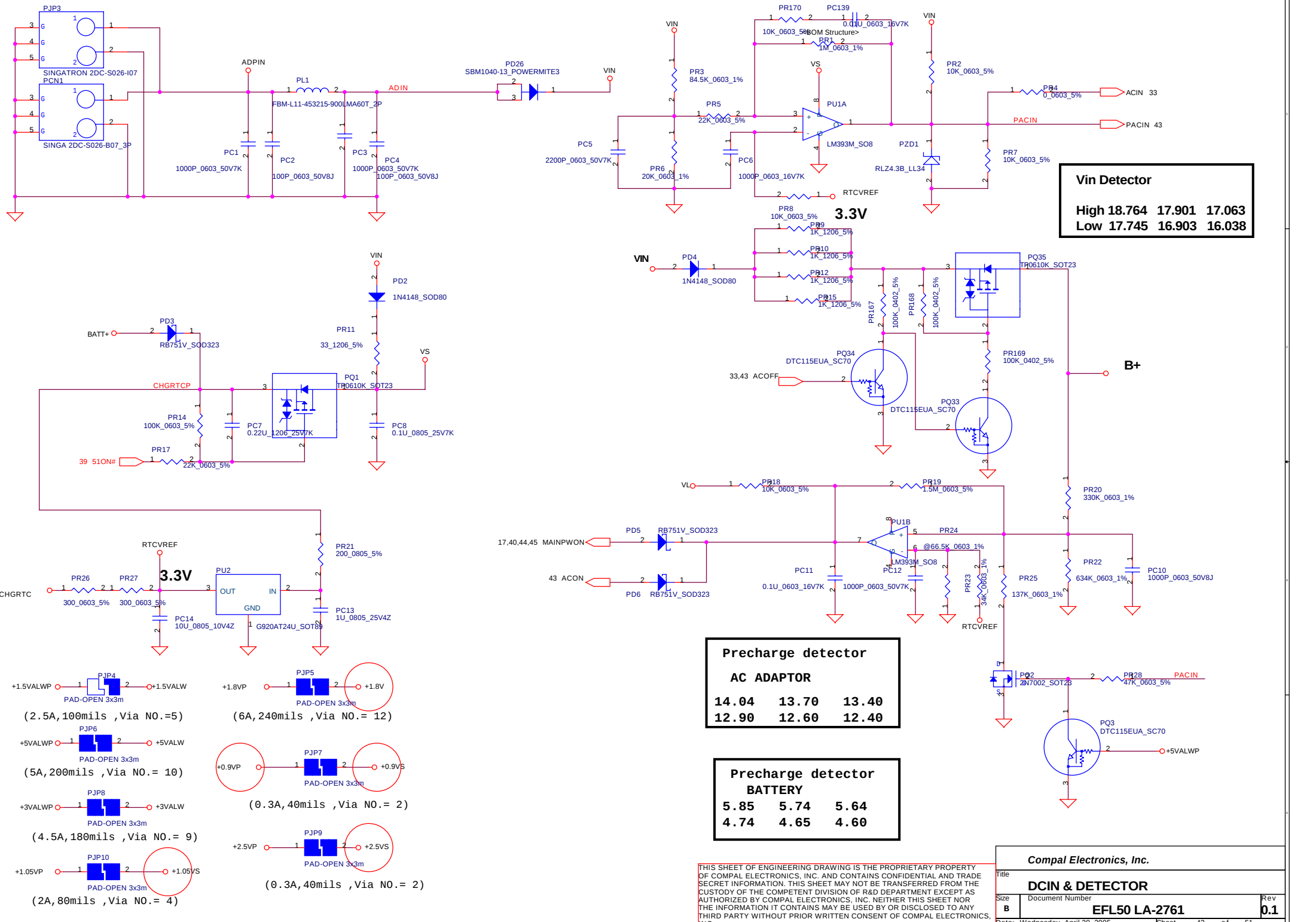
Compal Electronics, Inc.			
Title			
Power OK/Reset/RTC battery			
Size	Document Number	Rev	
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Compal Electronics, Inc.			
POWER CONTROL CKT			
Size	Document Number	Rev	
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Date:	Wednesday, April 20, 2005	Sheet	40 of 51





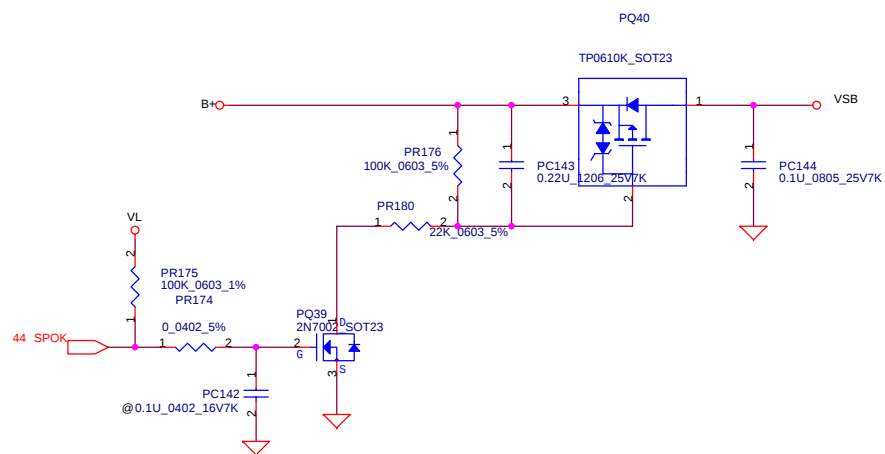
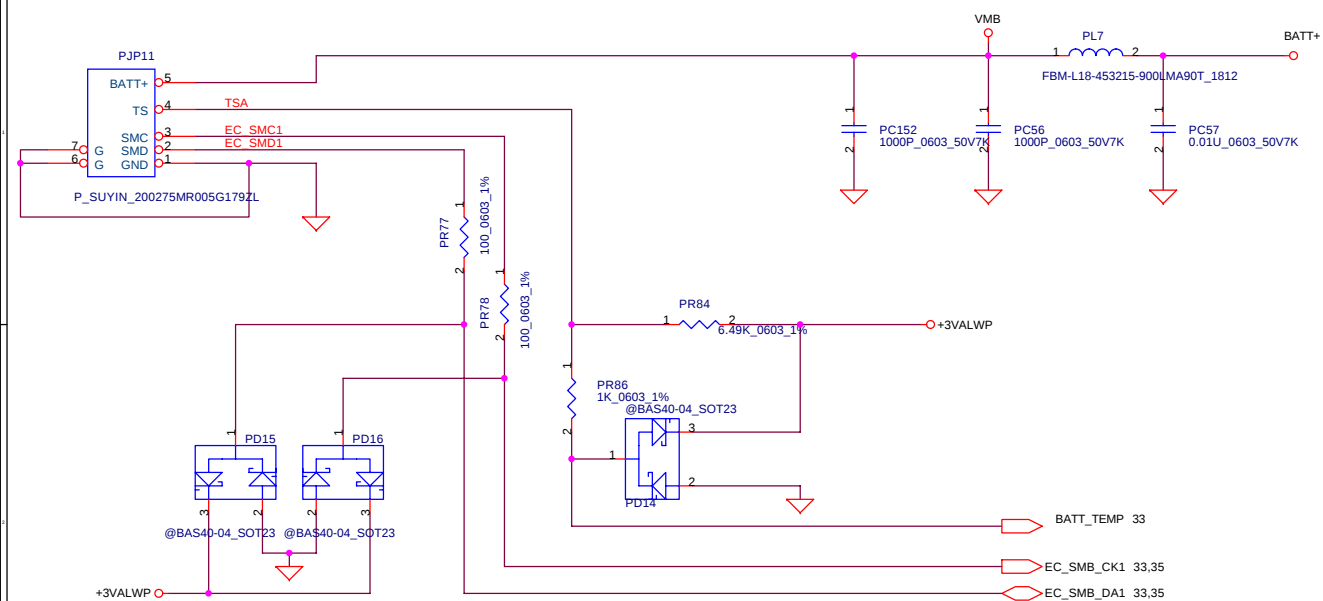
Vin Detector			
High	18.764	17.901	17.063
Low	17.745	16.903	16.038

Precharge detector AC ADAPTOR			
14.04	13.70	13.40	
12.90	12.60	12.40	

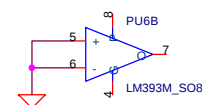
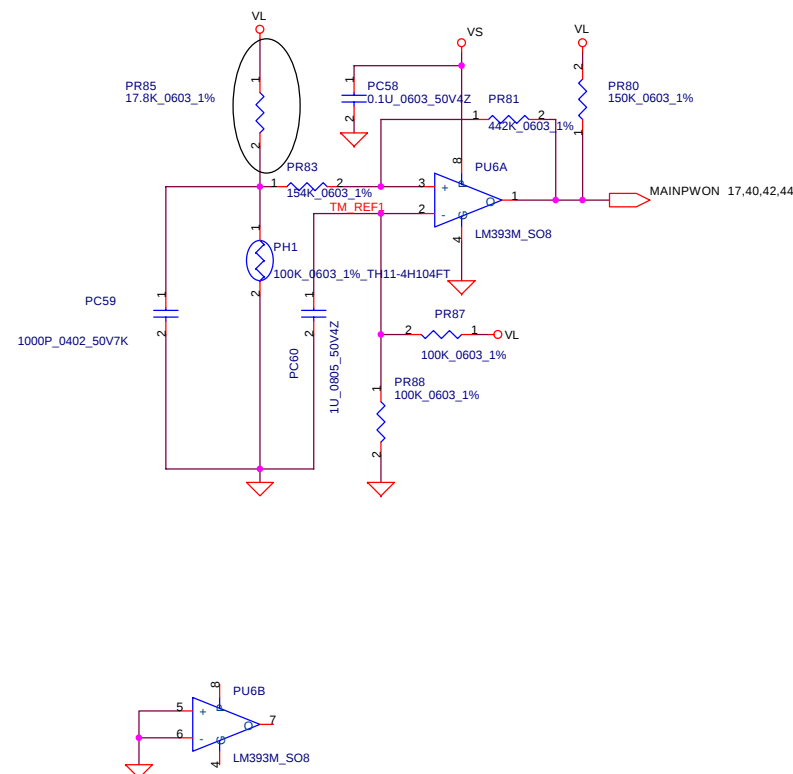
Precharge detector BATTERY			
5.85	5.74	5.64	
4.74	4.65	4.60	

Compal Electronics, Inc.			
Title			
DCIN & DETECTOR			
Size	Document Number	Rev	
B	EFL50 LA-2761	0.1	
Date:	Wednesday, April 20, 2005	Sheet	42 of 51

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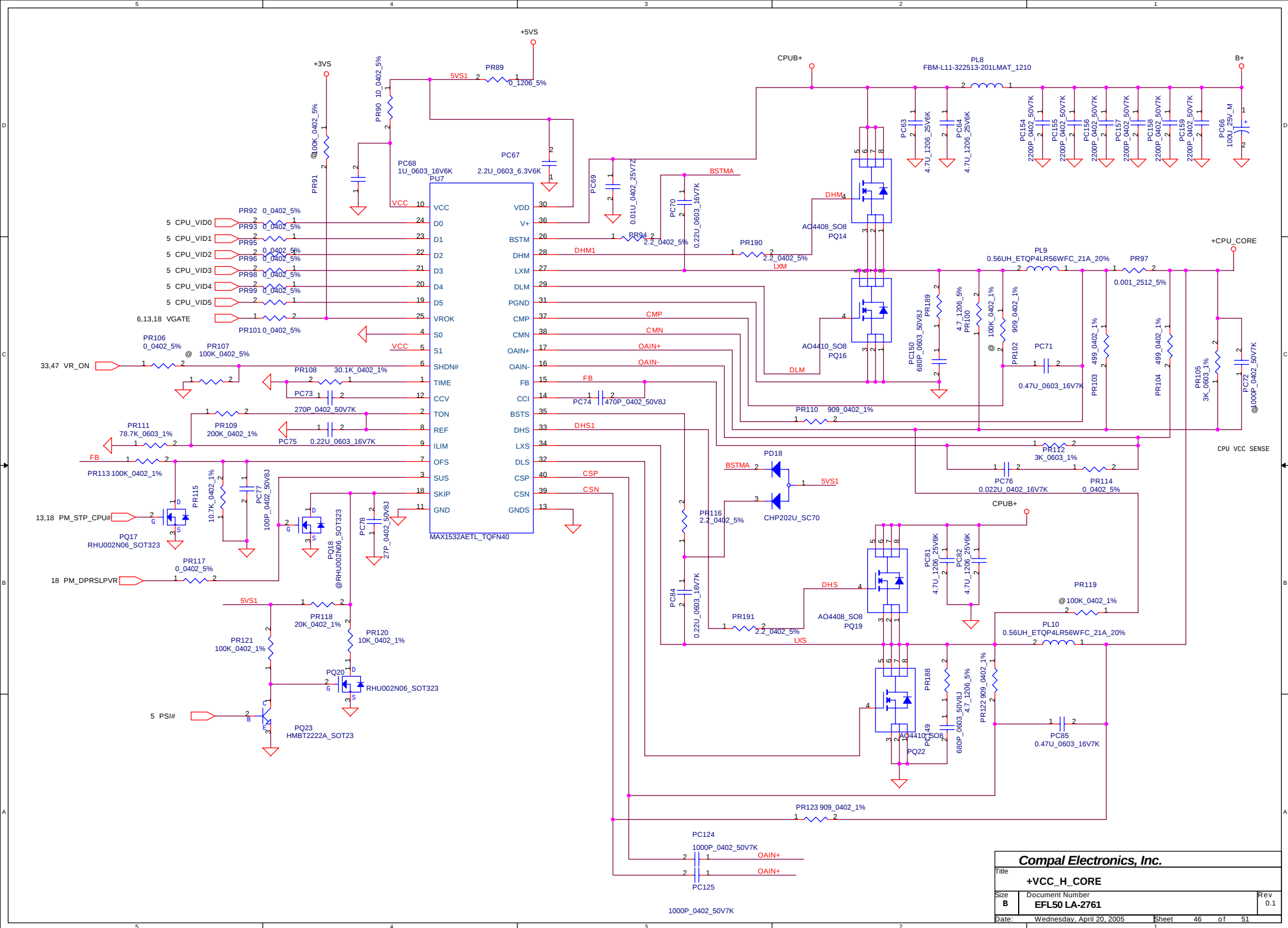
PH1 under CPU botten side :
CPU thermal protection at 80 degree C
Recovery at 44(45) degree C

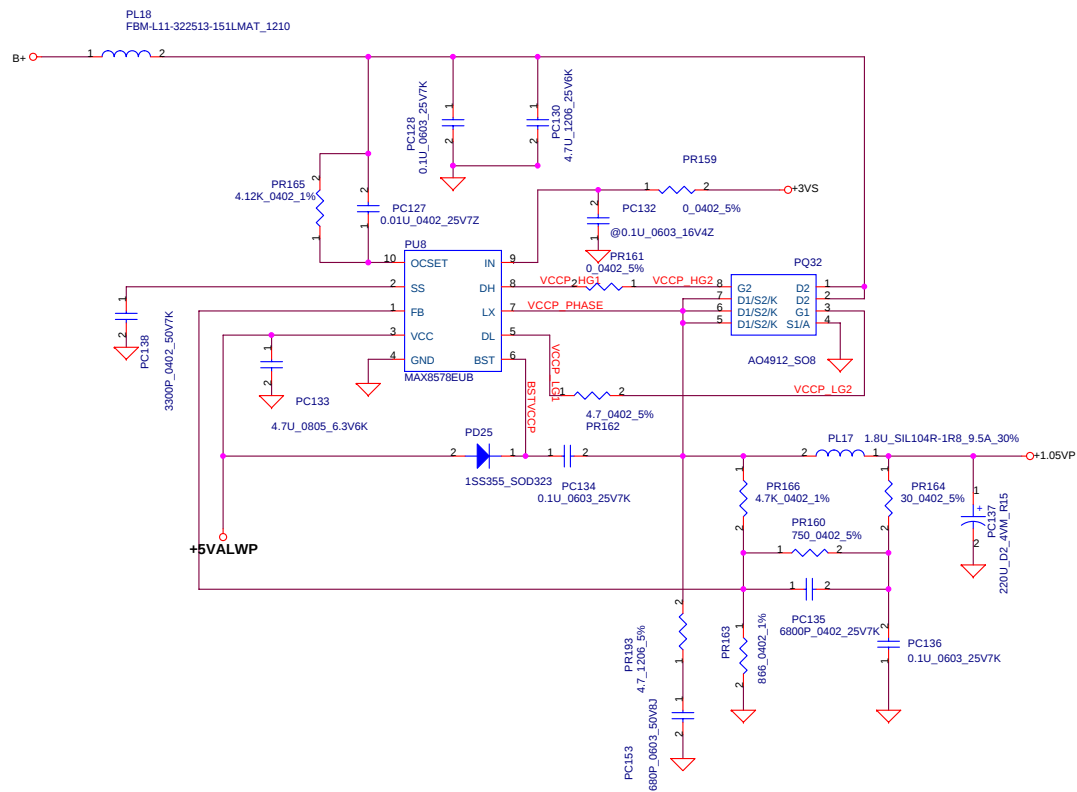


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Compal Electronics, Inc.

Title		BATTERY CONN / OTP/1.2V	
Size	Document Number	Rev	
B	EFL50 LA-2761	0.1	
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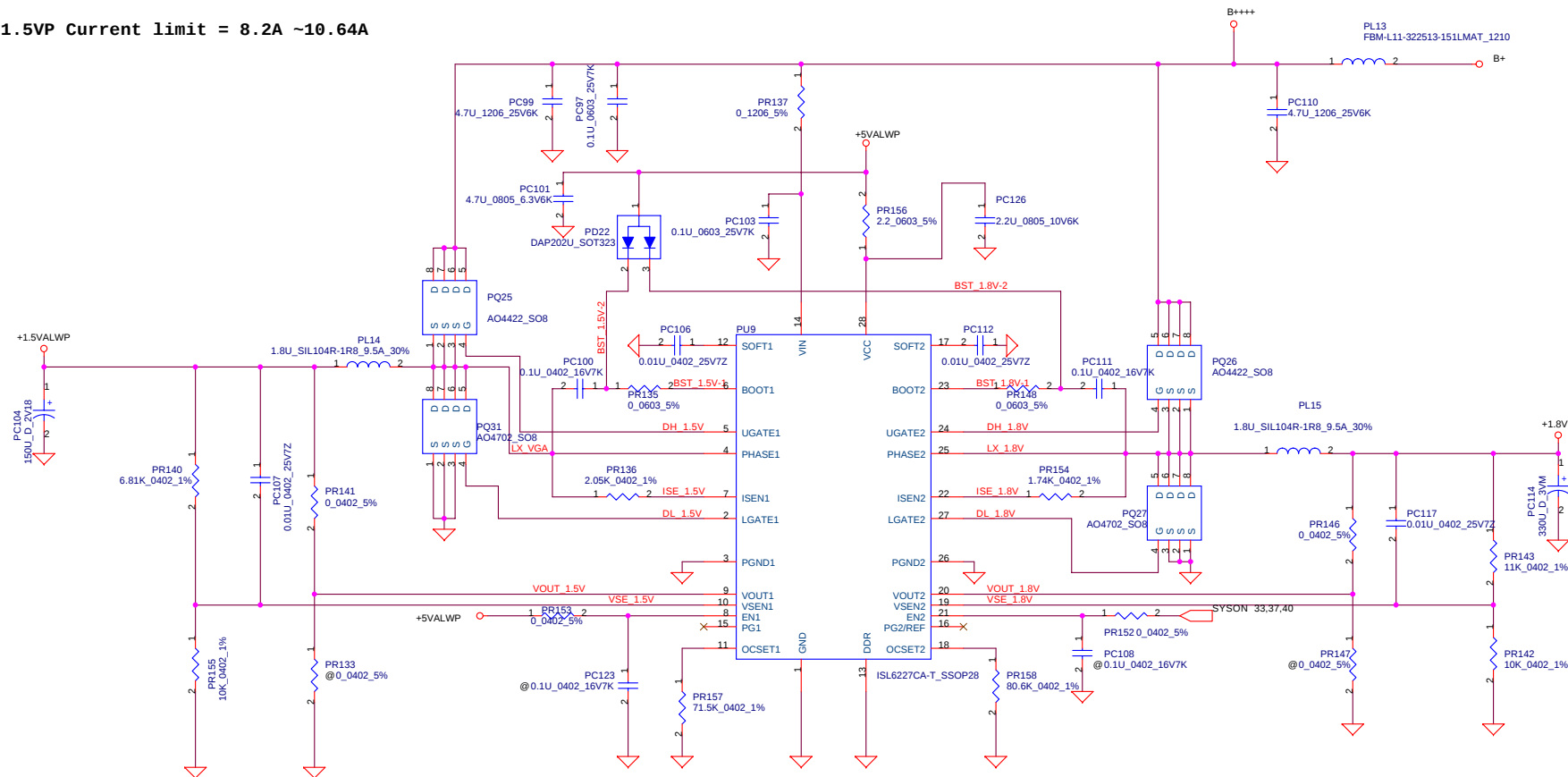


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Compal Electronics, Inc.			
Title	1.5V & 1.8V		
Size	Document Number	Rev	
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+1.8VP O.C.P. =8.1A ~ 10.36A

+1.5VP Current limit = 8.2A ~10.64A



915PM(DISCRETE)	PR143=11K 1.8VP=1.867V
915GM (UMA)	PR143=10.5K 1.8VP=1.8V

Compal Electronics, Inc.

Title

1.5VP

Size

B

Document Number

EFL50 LA-2761

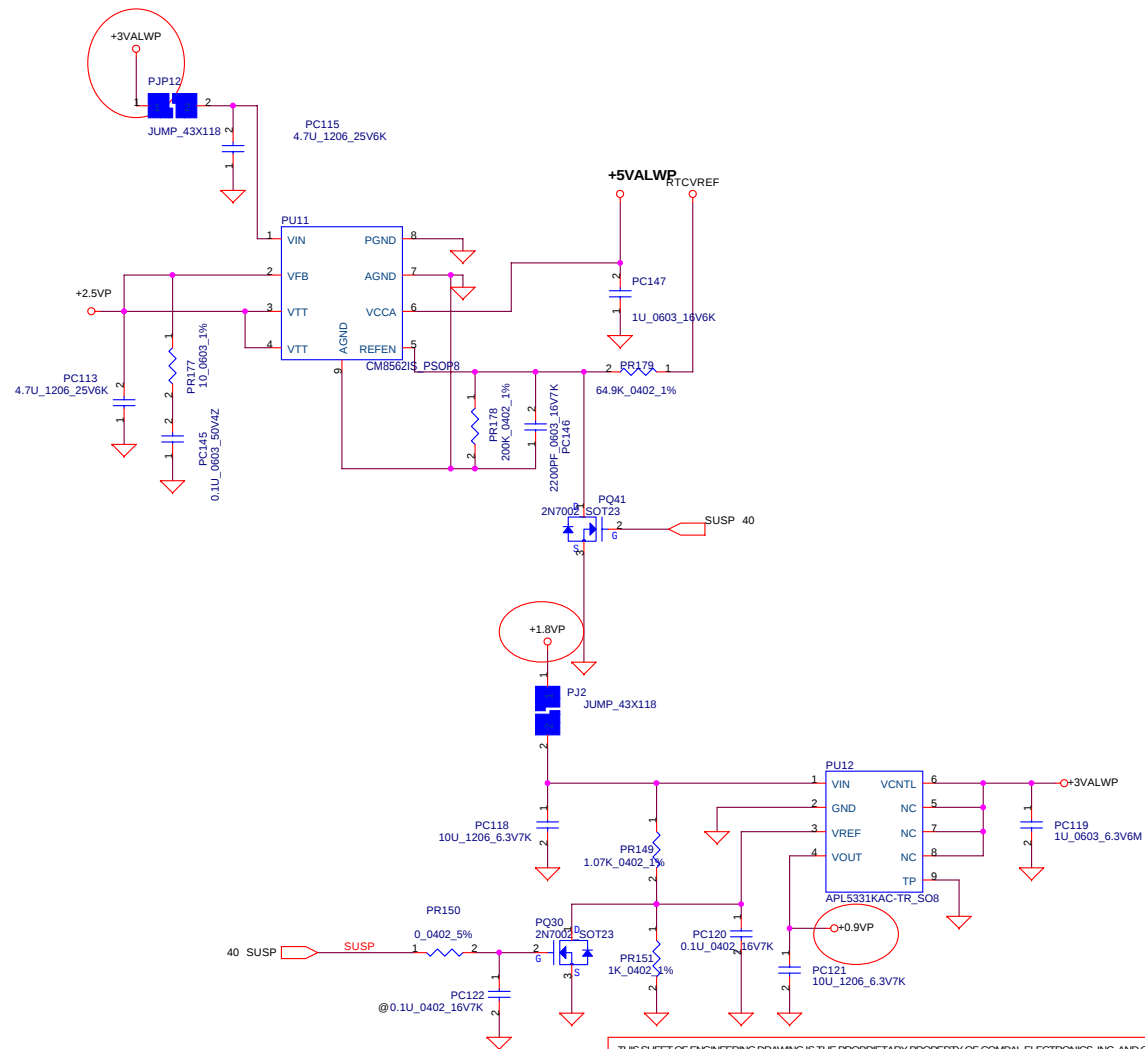
2

Rev

U.1

1

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Compal Electronics, Inc.			
Title			
1.8VP/0.9VP/2.5VP			
Size	Document Number	Rev	
B	EFL50 LA-2761	0.1	
Date:	Wednesday, April 20, 2005	Sheet	49 of 51

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

Item	Fixed Issue	Reason for change	Rev.	PG #	Modify List	VER	Phase
1	Add C663, C664, C665	For +2.5V (VCC_SYNC)	0.2	9			
2	Add C658, C659, C660, C661, C662	For EMI Solution	0.2	11			
3	Change L43, L44, L45, L46 Net	Improve Audio	0.2	31			
4							
5							
6							
7							
8							
9							

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

Item	Fixed Issue	Reason for change	Rev.	PG #	Modify List	VER	Phase
1		Modify PU8 IC		47	1. change PU8 from MAX8576 to MAX8578 2delete PC132		DVT
2		Modify 1.05VP voltage level		47	1. change PR166 from 7.15k to 4.7k , PC135 from 6800P to 0.047u 0603		DVT
3		change precharge detect point		42	1. change PR20 from 412k to 330k		DVT
4		Modify disable precharge respond time		42	1. change PR167/PR168/PR169 from 470k to 100k		DVT
5		PD16 PIN2 AND PIN3 are wrong		45	1. modify PD16 schematic,and delete PD16(only reserve)		DVT
6		for decrease BATT connector EMI		45	1. add PC151/PC152/PC153 :680PF		DVT
7		for decrease CPU CORE switching ring effect and add EMI solution : snubber		46	1. change PR94/PR116 from 0 to 2.2 add PR189//PR188 4.7 1206 ,add PC150/PC149 680P		DVT
8		for decreaseVCCP ripple		47	1. change PC137 from 150u 35m to 220u 15m		DVT2
9		add EMI solution		45 46 43	1. add PC152 1. add PR190/191:2.2 1. add PR192:2.2		DVT2
10		add EMI solution		47	1. add PL18 FBM L11		PVT
11		add EMI solution in 1.05VP power regulator		47	1. add PC153=680PF ,PR193=4.7		PVT
8							
9							