

# Compal confidential

## Schematics Document

Mobile Merom uFCPGA with Intel  
Crestline\_PM+ICH8-M core logic

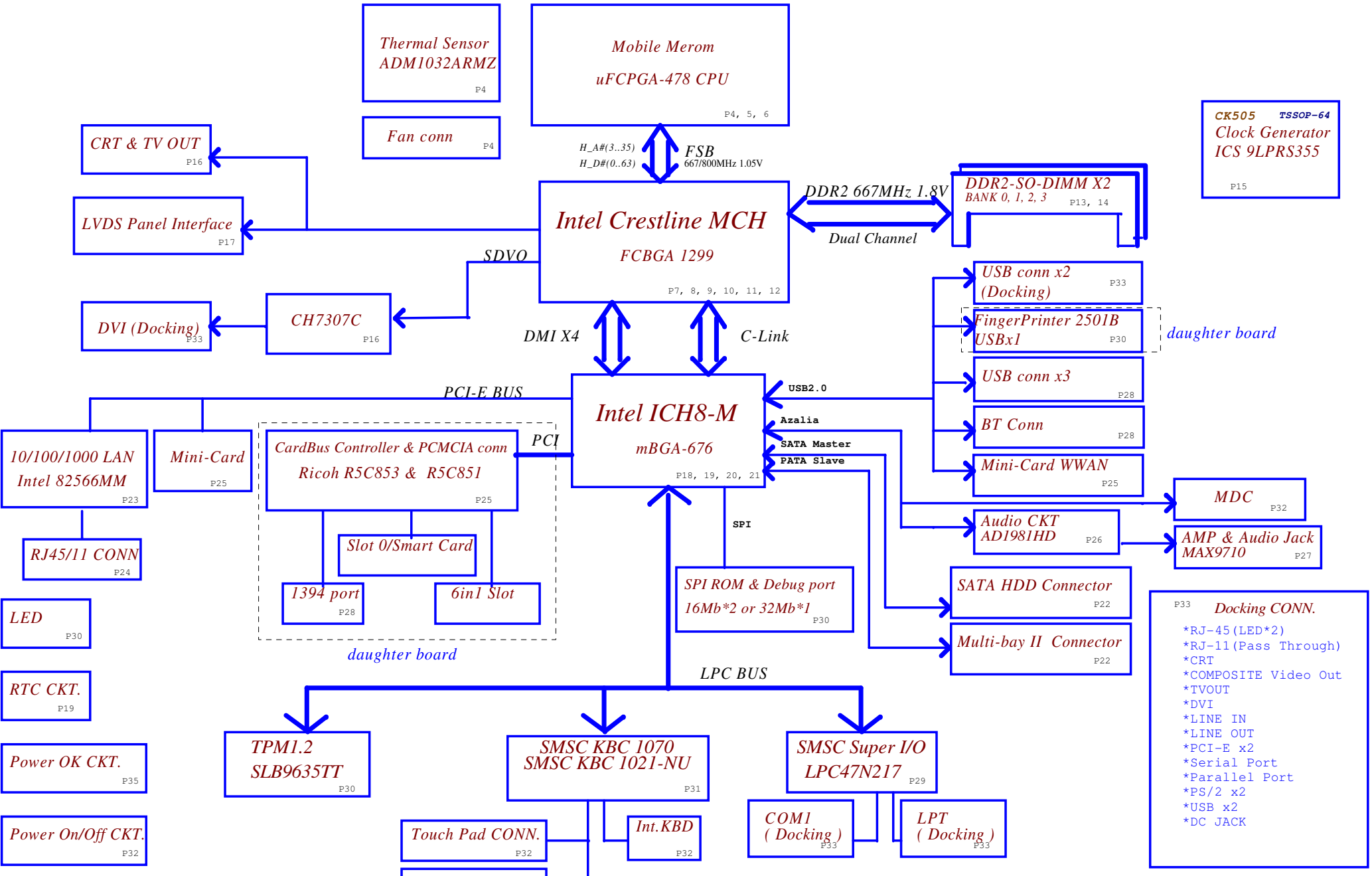
IBT00 LA-3261P UMA

2007-03-28 REV:1A (MV2)



Security Classification	Compal Secret Data			Title <b>Compal Electronics, Inc.</b>		
Issued Date	2006/02/13	Deciphered Date	2006/03/10	Cover Sheet		
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>				Size	Document Number	Rev
				Custom	LA-3261P UMA	0.4
Date: Wednesday, March 28, 2007				Sheet	1	of 55

# Chimay UMA



DC/DC Interface CKT. P34

Power On/Off CKT. P32

Power OK CKT. P35

RTC CKT. P19

LED P30

RJ45/11 CONN P24

10/100/1000 LAN Intel 82566MM P23

Mini-Card P25

DVI (Docking) P33

LVDS Panel Interface P17

CRT & TV OUT P16

TPM1.2 SLB9635TT P30

CardBus Controller & PCMCIA conn Ricoh R5C853 & R5C851 P25

Slot 0/Smart Card 1394 port 6in1 Slot P28

CH7307C P16

Intel Crestline MCH FCBGA 1299 P7, 8, 9, 10, 11, 12

Thermal Sensor ADM1032ARMZ P4  
Fan conn P4

Touch Pad CONN. P32

TrackPoint CONN. P32

SMSC KBC 1070 SMSC KBC 1021-NU P31

SPI ROM & Debug port 16Mb\*2 or 32Mb\*1 P30

Intel ICH8-M mBGA-676 P18, 19, 20, 21

Mobile Merom uFCPGA-478 CPU P4, 5, 6

Int. KBD P32

SMSC Super I/O LPC47N217 P29

SATA HDD Connector P22

SATA Master PATA Slave

USB2.0 Azalia

DMI X4 C-Link

DDR2 667MHz 1.8V Dual Channel

FSB 667/800MHz 1.05V

COM1 (Docking) P33

LPT (Docking) P33

Multi-bay II Connector P22

Mini-Card WWAN P25

BT Conn P28

USB conn x3 P28

USB conn x2 (Docking) P33

DDR2-SO-DIMM X2 BANK 0, 1, 2, 3 P13, 14

CK505 TSSOP-64 Clock Generator ICS 9LPRS355 P15

SATA HDD Connector P22

Audio CKT AD1981HD P26

MDC P32

AMP & Audio Jack MAX9710 P27

FingerPrinter 2501B USBx1 P30

daughter board

P33 Docking CONN.  
\*RJ-45 (LED\*2)  
\*RJ-11 (Pass Through)  
\*CRT  
\*COMPOSITE Video Out  
\*TVOUT  
\*DVI  
\*LINE IN  
\*LINE OUT  
\*PCI-E x2  
\*Serial Port  
\*Parallel Port  
\*PS/2 x2  
\*USB x2  
\*DC JACK

Security Classification	Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date
		2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		

Compal Electronics, Inc.		
Block Diagram		
Size	Document Number	Rev
Custom	LA-3261P UMA	0.4
Date:	Tuesday, March 27, 2007	Sheet 2 of 55

**Voltage Rails**    O MEANS ON    X MEANS OFF

power plane / State	+B LDO3 LDO5	+5VALW +3VALW	+1.8V +5V +0.9V	+5VS +3VS +2.5VS +1.8VS +1.5VS +1.25VS +VGA_CORE +CPU_CORE +VCCP	+3VM +1.05VM +1.25VM	CLOCK
S0	O	O	O	O	O	O
S3/M1	O	O	O	X	O	O
S3	O	O	O	X	O	O
S5 S4/AC	O	O	X	X	O	O
S5 S4/ Battery only	O	X	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X	X

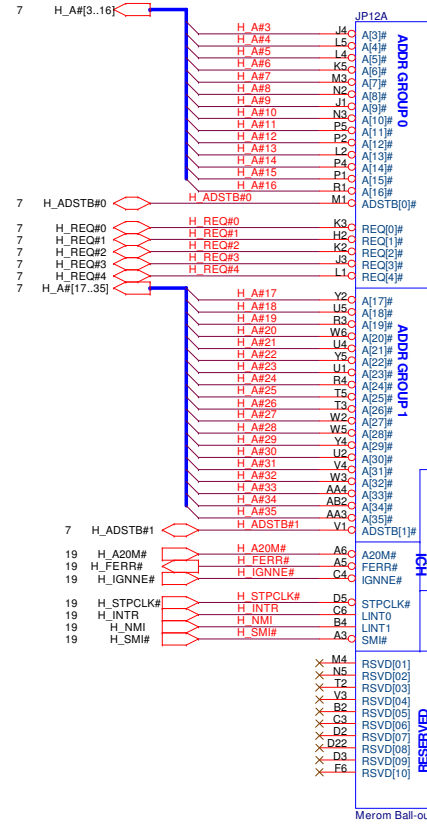
**PCI Devices**

EXTERNAL	IDSEL#	REQ/GNT#	PIRQ
CARD BUS & 1394	AD22	2	C,D,E,G

DMA Channel	Device
DMA0	MODEM / LAN
DMA1	ECP
DMA2	FLOPPY DISK
DMA3	AUDIO
DMA4	(Cascade)
DMA5	Unused
DMA6	Unused
DMA7	Unused

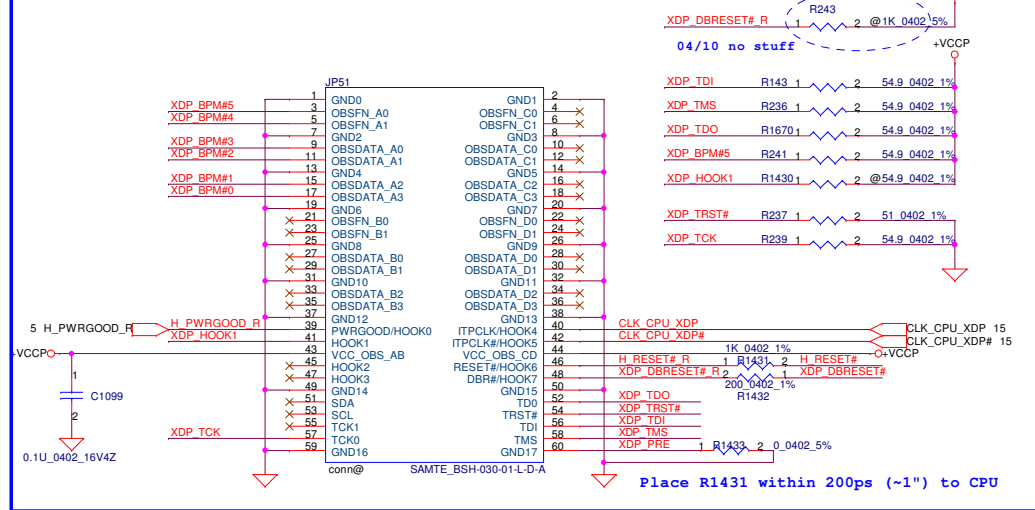
USB PORT#	Destination
0	Walk-up0 (Right side)
1	Fingerprint
2	Reserve
3	WWAN
4	Walk-up1 (Left Side)
5	Walk-up2 (Left Side)
6	Bluetooth
7	Reserve
8	Docking
9	Docking

IRQ	Device
0	System Timer
1	Keyboard
2	N/A
3	Serial port (COM2), LAN/Modem
4	Serial port (COM1)
5	Audio/VGA
6	Floppy
7	Parallel port
8	System CMOS/Real-time clock
9	Microsoft ACPI
10	N/A, Memem, LAN
11	Mass storage control/ PCI simple communication control
12	synactic PS2 port GlidePAD
13	Numeric Data Process
14	Primary IDE interface, HDD
15	Secondary IDE innterface, CD-ROM
16	Mobile Intel Crestline Express Chipset Family Microsoft UAA Bus Driver for High Definition Audio Intel 82801H (ICH8 Family) PCI Express Root Port -27D0 Broadcom NetXtreme Gigabit Ethernet
17	Intel 82801H (ICH8 Family) PCI Express Root Port - 27D2 Broadcom 802.11b/g WLAN Intel 82801H (ICH8 Family) USB Universal Host Controll
18	Intel 82801H (ICH8 Family) USB Universal Host Controll Ricoh R5C853 Cardbus Control Ricoh R5C853 Integrates FlashMedia Control Ricoh R5C853 Gemcore based SmartCard Control
19	Intel 82801H (ICH8 Family) PCI Express Root Port - 27D6 Intel 82801H (ICH8 Family) USB Universal Host Controll
20	Intel 82801H (ICH8 Family) USB Universal Host Controll Intel 82801H (ICH8 Family) USB2 Enhanced Host Controll
21	Intel 82801H (ICH8 Family) USB Universal Host Controll
22	SDA Standard Compliant SD Host Controller
23	HP Mobile Data Protection Sensor

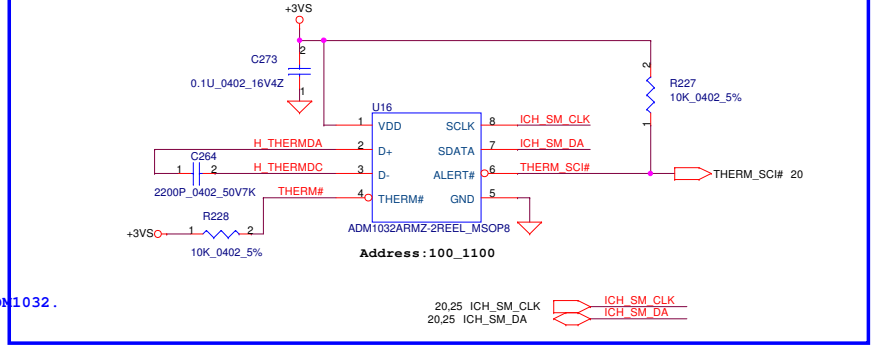


### XDP Connector

layout note: Change R237 to 649 ohm if using XTP to ITP adapter



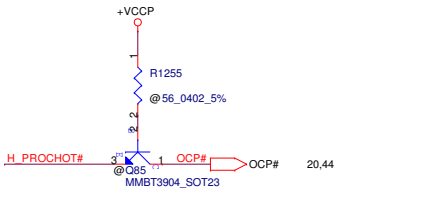
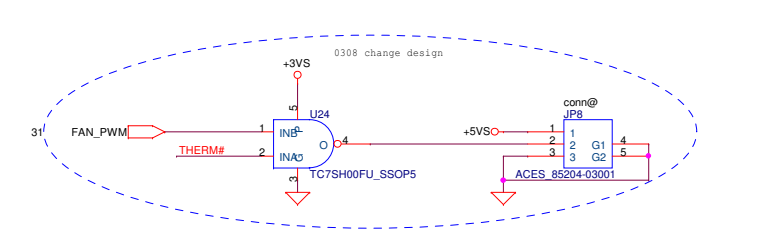
### Thermal Sensor ADM1032ARMZ



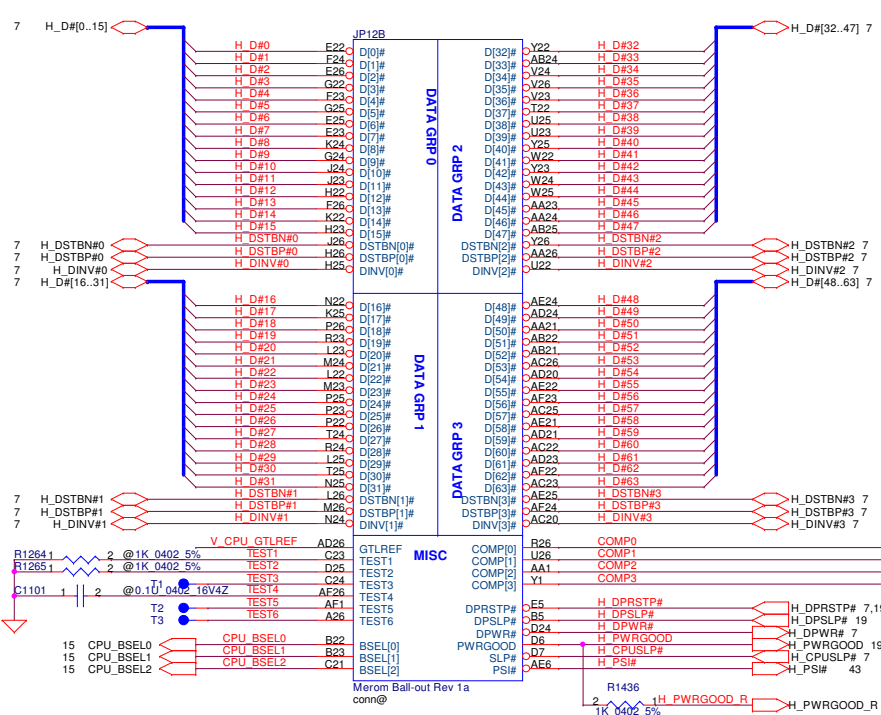
1113 Add resistors in series with the diode signals going to ADM1032.

For Merom, R1798 and R1799 are 0ohm  
For Penryn, R1798 and R1799 are 100ohm.

### PWM Fan Control circuit

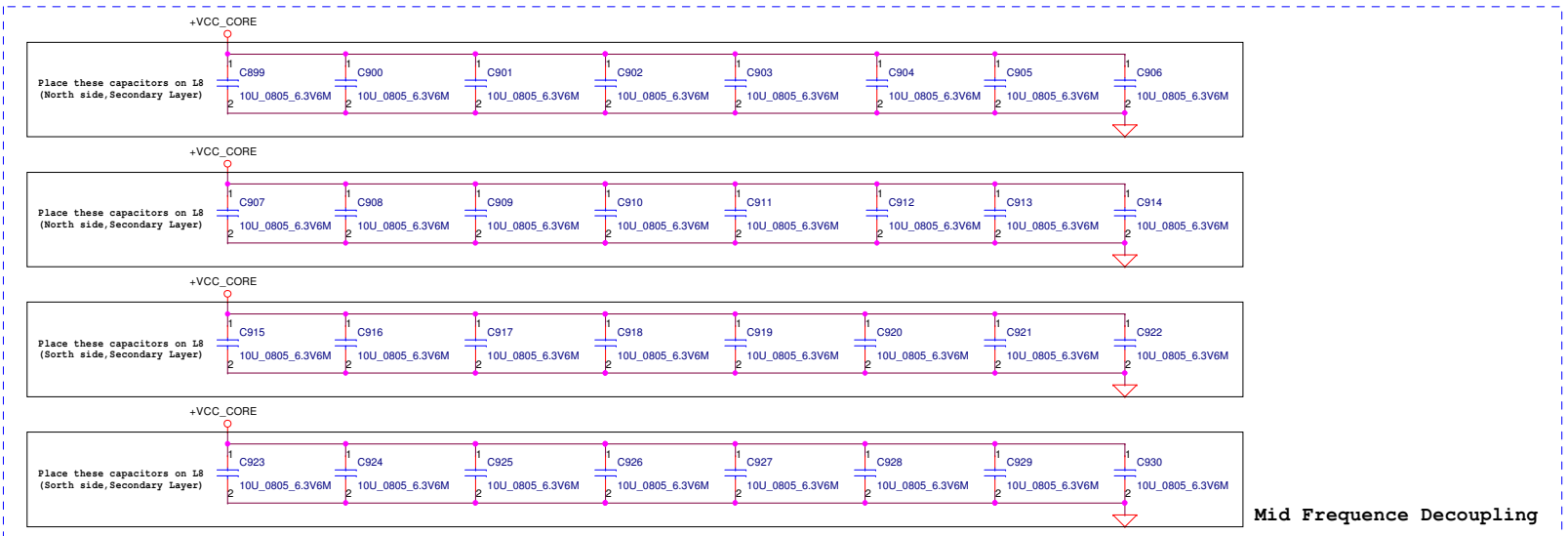


Security Classification	Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	Compal Electronics, Inc.
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Merom(1/3)-AGTL+XDP
Size	Document Number	Customer	Rev	4 of 55
Date:	Tuesday, March 27, 2007	Sheet	4	of 55



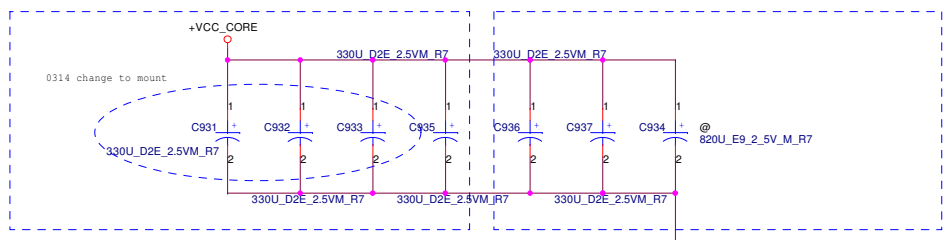
JP12D		
A4	VSS[001]	P6
A8	VSS[002]	P21
A11	VSS[003]	P24
A14	VSS[004]	R2
A16	VSS[005]	R5
A19	VSS[006]	R22
A23	VSS[007]	R25
AF2	VSS[008]	T1
B6	VSS[009]	T23
B8	VSS[010]	T26
B11	VSS[011]	U3
B12	VSS[012]	U6
B16	VSS[013]	U21
B19	VSS[014]	U24
B21	VSS[015]	U2
B24	VSS[016]	V5
C5	VSS[017]	V22
C8	VSS[018]	V25
C11	VSS[019]	W1
C14	VSS[020]	W4
C16	VSS[021]	W23
C2	VSS[022]	W26
C22	VSS[023]	Y3
C25	VSS[024]	Y6
D1	VSS[025]	Y21
D4	VSS[026]	Y24
D8	VSS[027]	AA2
D11	VSS[028]	AA5
D13	VSS[029]	AA8
D16	VSS[030]	AA11
D19	VSS[031]	AA14
D23	VSS[032]	AA16
D26	VSS[033]	AA19
E3	VSS[034]	AA22
E6	VSS[035]	AA25
E8	VSS[036]	AB1
E11	VSS[037]	AB4
E14	VSS[038]	AB8
E16	VSS[039]	AB11
E19	VSS[040]	AB13
E21	VSS[041]	AB16
E24	VSS[042]	AB19
F5	VSS[043]	AB23
F8	VSS[044]	AB26
F11	VSS[045]	AC3
F13	VSS[046]	AC6
F16	VSS[047]	AC8
F19	VSS[048]	AC11
F2	VSS[049]	AC14
F22	VSS[050]	AC16
F25	VSS[051]	AC19
G4	VSS[052]	AC21
G1	VSS[053]	AC24
G23	VSS[054]	AD2
G26	VSS[055]	AD5
H3	VSS[056]	AD8
H6	VSS[057]	AD11
H21	VSS[058]	AD13
H24	VSS[059]	AD16
J2	VSS[060]	AD19
J5	VSS[061]	AD22
J22	VSS[062]	AD25
J25	VSS[063]	AE1
K1	VSS[064]	AE4
K4	VSS[065]	AE8
K23	VSS[066]	AE11
K26	VSS[067]	AE14
L3	VSS[068]	AE16
L6	VSS[069]	AE19
L21	VSS[070]	AE23
L24	VSS[071]	AE26
M2	VSS[072]	A2
M5	VSS[073]	AF6
M22	VSS[074]	AF8
M25	VSS[075]	AF11
N1	VSS[076]	AF13
N4	VSS[077]	AF16
N23	VSS[078]	AF19
N26	VSS[079]	AF21
P3	VSS[080]	A25
	VSS[081]	AF25

Merom Ball-out Rev 1a  
conn@

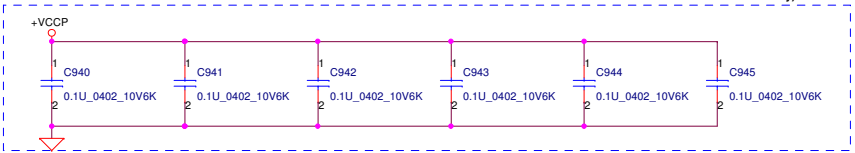


Mid Frequency Decoupling

Near CPU CORE regulator  
ESR <= 1.5m ohm  
Capacitor > 1980uF



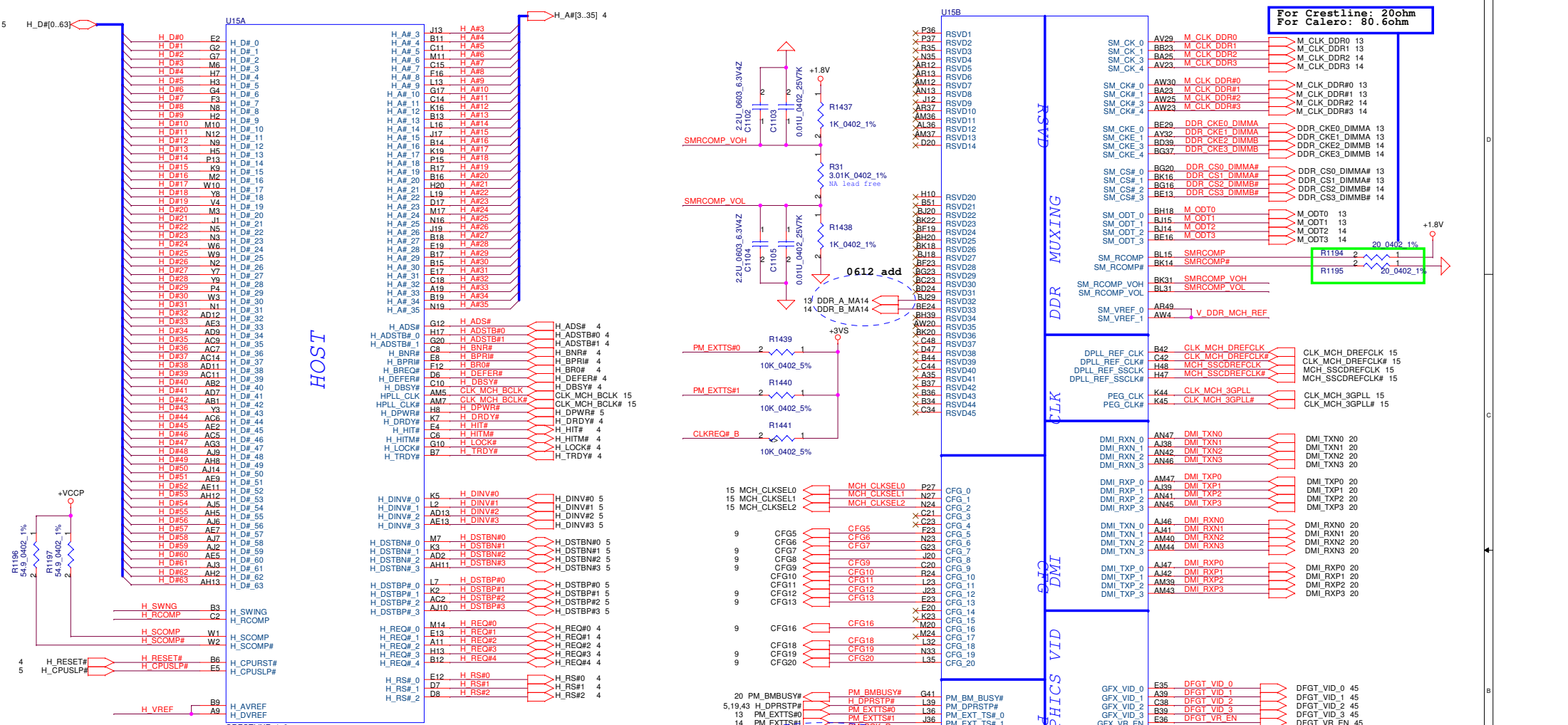
Place these inside  
socket cavity on L8  
(North side  
Secondary)



Security Classification	Compal Secret Data		
Issued Date	2006/02/13	Deciphered Date	2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			

Compal Electronics, Inc.			
Title <b>Merom(3/3)-GND&amp;Bypass</b>			
Size	Document Number	Rev	
Custom	LA-3261P_UMA	0.4	
Date:	Tuesday, March 27, 2007	Sheet	6 of 55





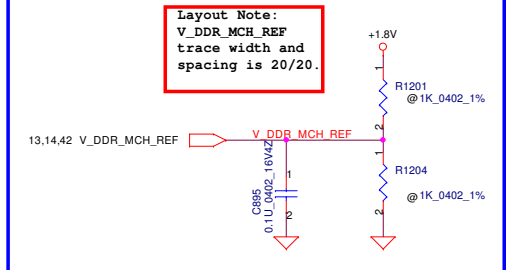
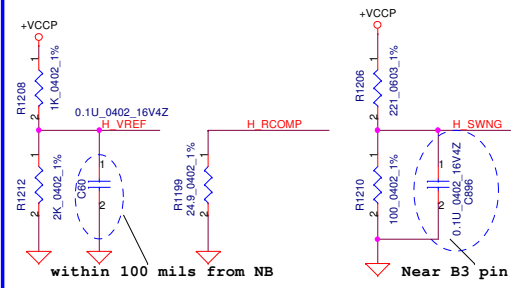
For Crestline: 20ohm  
For Calero: 80.6ohm

layout note:

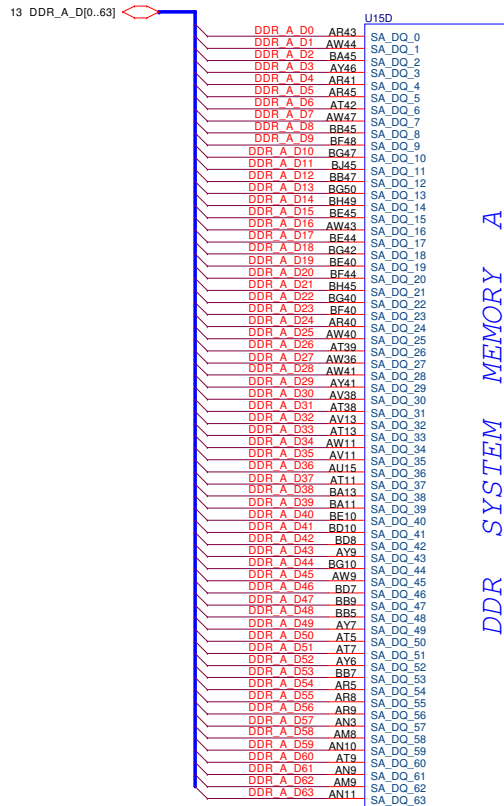
Route H\_SCOMP and H\_SCOMP# with trace width, spacing and impedance (55 ohm) same as FSB data traces

Layout Note:  
H\_RCOMP / H\_VREF / H\_SWNG  
trace width and spacing is 10/20

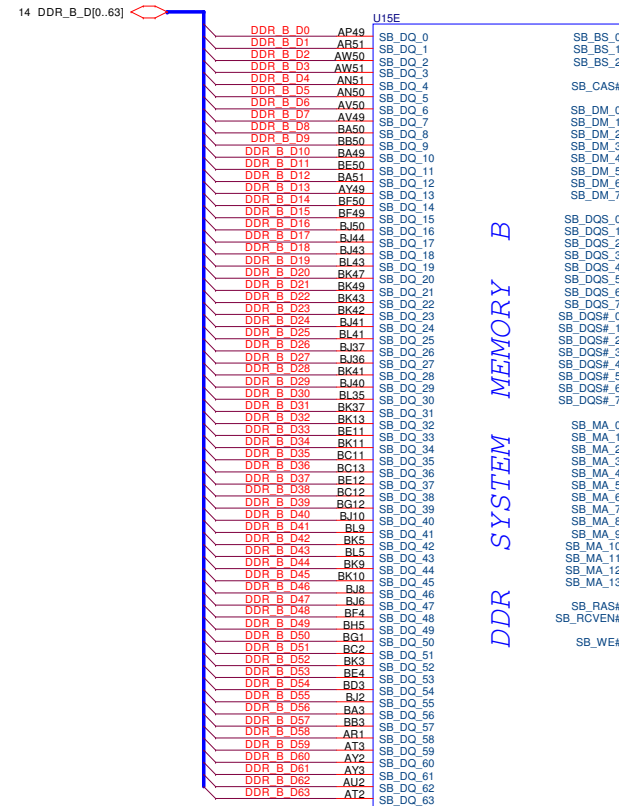
Layout Note:  
V\_DDR\_MCH\_REF  
trace width and  
spacing is 20/20.



Security Classification	Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	CRESTLINE(1/6)-AGTL+DMI/DDR2
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				
Size	Document Number	Rev		
Custom	LA-3261P UMA	0.4		
Date:	Tuesday, March 27, 2007	Sheet	7	of 55



DDR SYSTEM MEMORY A



DDR SYSTEM MEMORY B

Security Classification	Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	Document Number
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Rev 0.4
Date: Tuesday, March 27, 2007			Sheet 8 of 55	Company Name
CRESTLINE((2/6)-DDR2 A/B CH				Company Name

Compal Electronics, Inc.

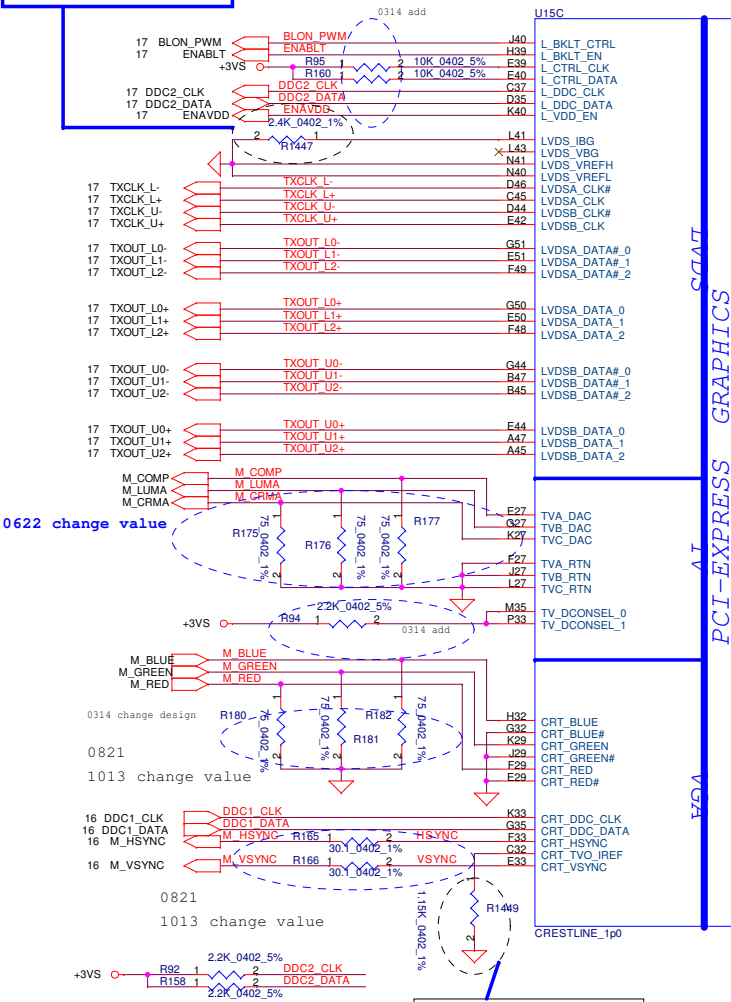
CRESTLINE((2/6)-DDR2 A/B CH

LA-3261P UMA

Sheet 8 of 55



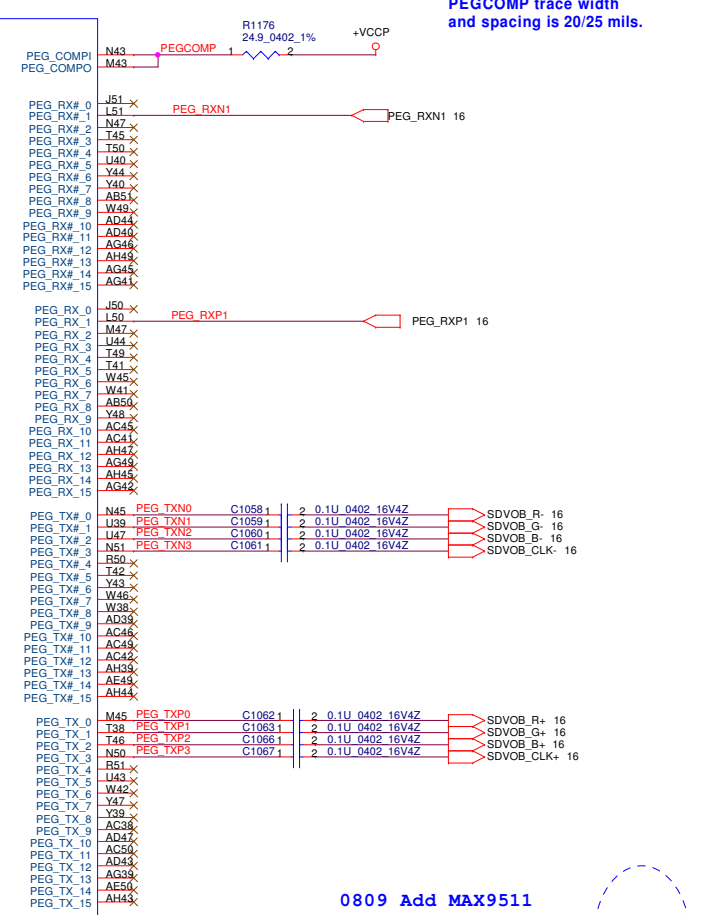
For Crestline: 2.4kOhm  
For Calero: 1.5kOhm



0622 change value  
0314 change design  
0821  
1013 change value  
0821  
1013 change value

For Crestline: 1.3kOhm  
For Calero: 255ohm

PEGCOMP trace width and spacing is 20/25 mils.

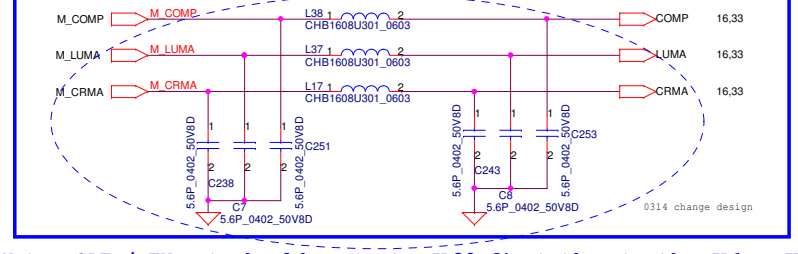


0809 Add MAX9511  
1013 Remove MAX9511

Strap Pin Table

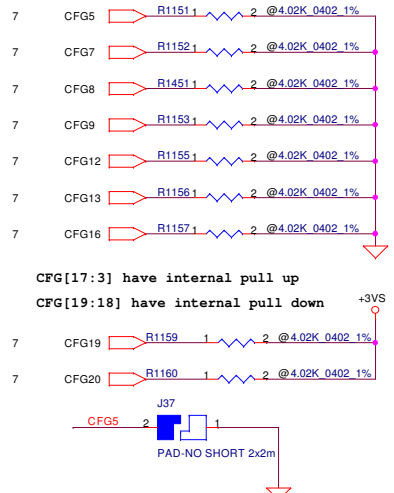
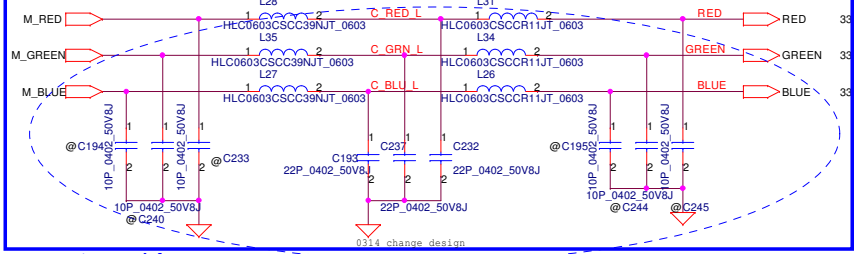
CFG[2:0] FSB Freq select	010 = FSB 800MHz 011 = FSB 667MHz Others = Reserved
CFG5 (DMI select)	0 = DMI x 2 1 = DMI x 4 *
CFG6	Reserved
CFG7 (CPU Strap)	0 = Reserved 1 = Mobile CPU *
CFG8 (Low power PCIE)	0 = Normal mode 1 = Low Power mode *
CFG9 (PCIE Graphics Lane Reversal)	0 = Reverse Lane 1 = Normal Operation *
CFG[11:10]	Reserved
CFG[13:12] (XOR/ALLZ)	00 = Reserved 01 = XOR Mode Enabled 10 = All Z Mode Enabled 11 = Normal Operation(Default) *
CFG[15:14]	Reserved
CFG16 (FSB Dynamic ODT)	0 = Disabled 1 = Enabled *
CFG[18:17]	Reserved
SDVO_CTRLDATA	0 = No SDVO Device Present * 1 = SDVO Device Present
CFG19 (DMI Lane Reversal)	0 = Normal Operation (Lane number in Order) * 1 = Reverse Lane
CFG20 (PCIE/SDVO concurrent)	0 = Only PCIE or SDVO is operational. * 1 = PCIE/SDVO are operating simu.

TV-Out Termination/EMI Filter Place close to U15



Note: CRT / TV-out should route to JP30 first then to the JP1 & JP2 on system side.

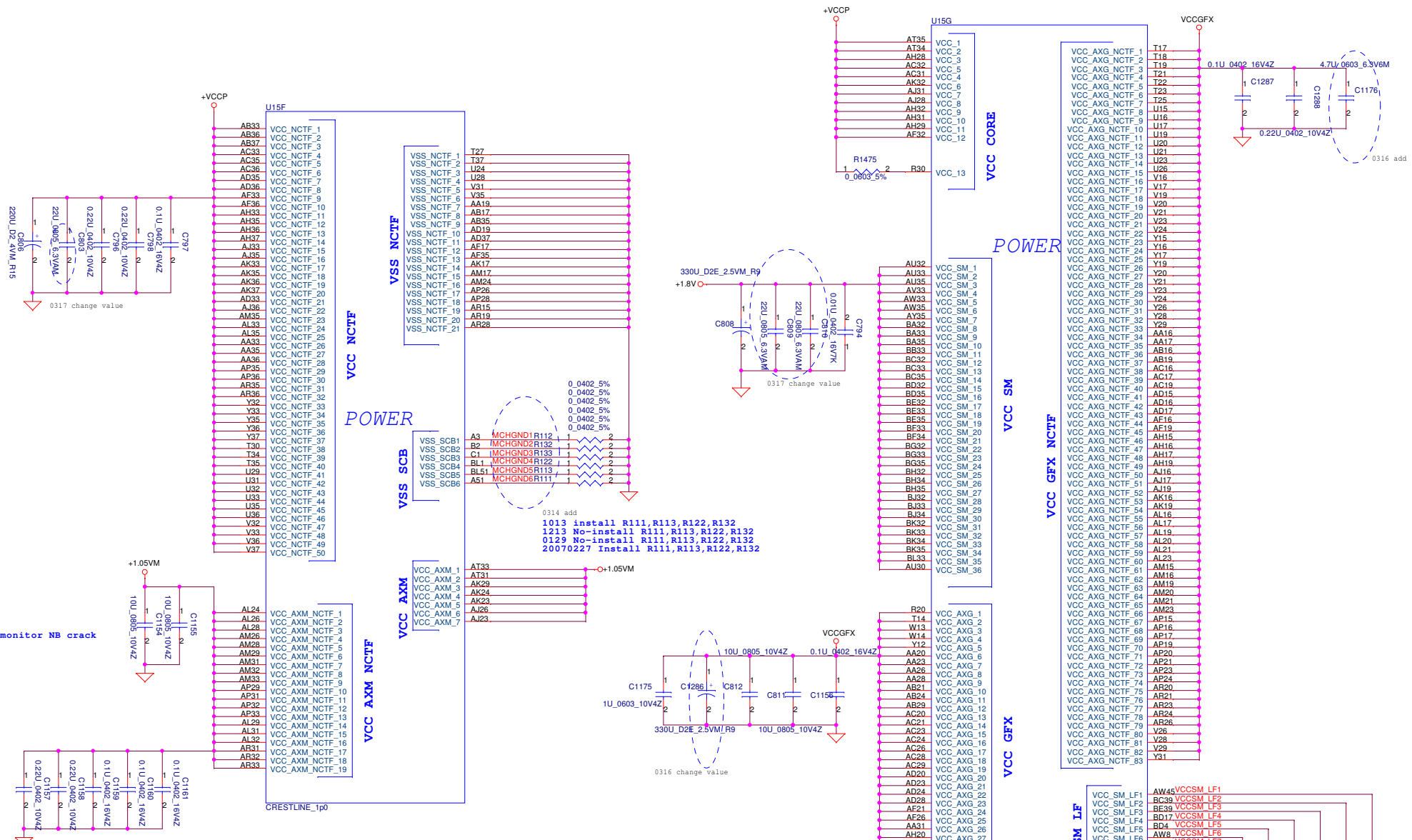
CRT Termination/EMI Filter Place Closed to U15



Security Classification	Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date
		2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		

<b>Compal Electronics, Inc.</b>		
<b>CRESTLINE((3/6)-VGALVDS/TV</b>		
Size	Document Number	Rev
Custom	LA-3261P_UMA	0.4
Date:	Tuesday, March 27, 2007	Sheet 9 of 55

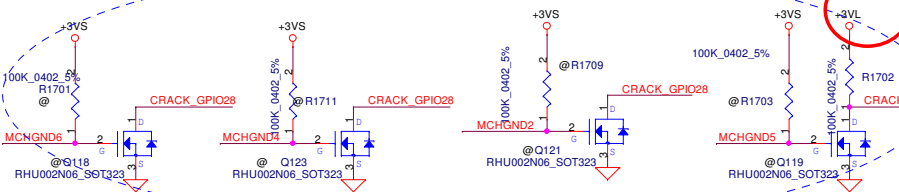




04/10 monitor NB crack

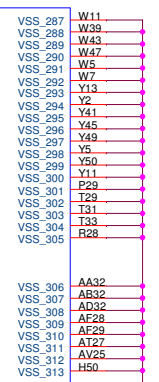
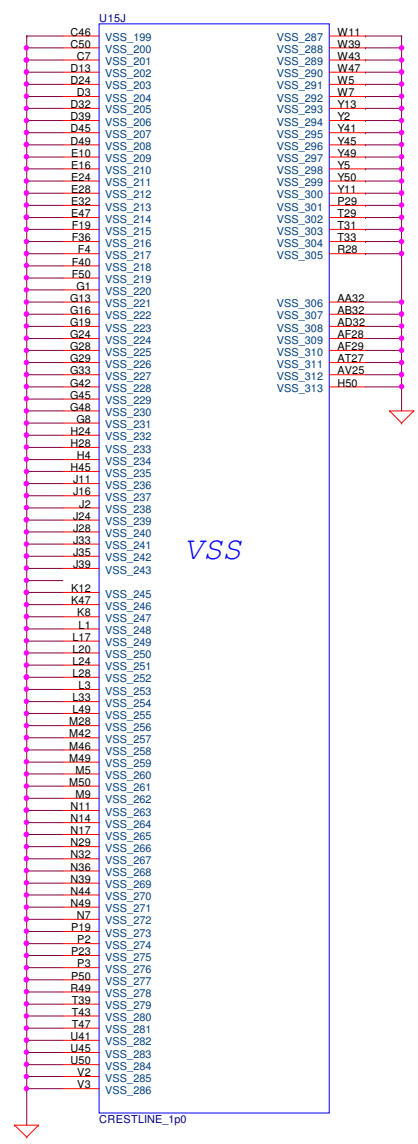
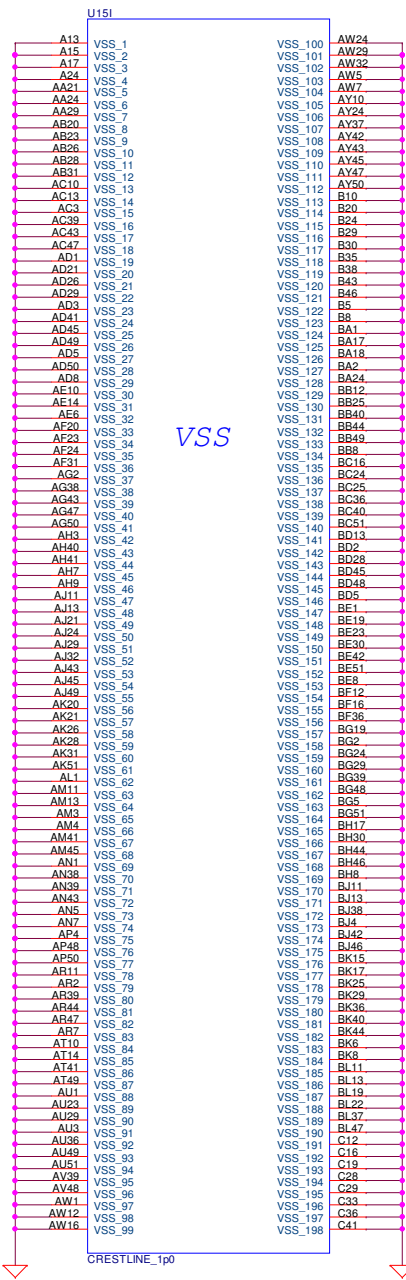
04/10 monitor NB crack  
 1013 no install  
 1213 install  
 0129 install  
 20070227 No install

20070228 Change to +3VL

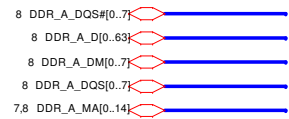


Security Classification		Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date	2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			

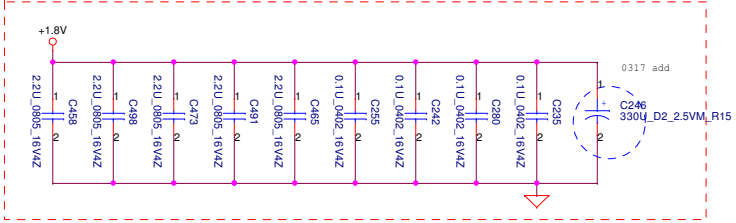
Title		Compal Electronics, Inc.	
CRESTLINE((5/6)-PWR/GND		Size	Document Number
Customer	LA-3261P_UMA	Date	Tuesday, March 27, 2007
Sheet	11	of	55



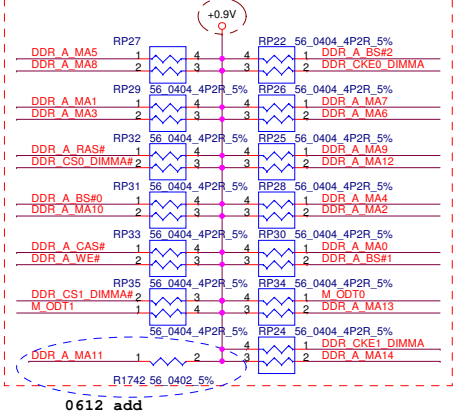
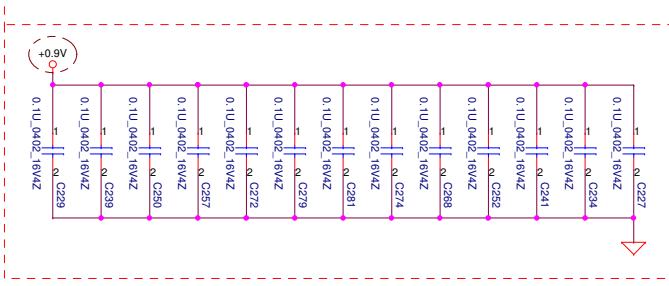
Security Classification		Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	<b>Compal Electronics, Inc.</b> <b>CRESTLINE((6/6)-PWR/GND)</b>	
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>				Size Custom	Document Number <b>LA-3261P UMA</b>
Date:	Tuesday, March 27, 2007	Sheet	12	of	55



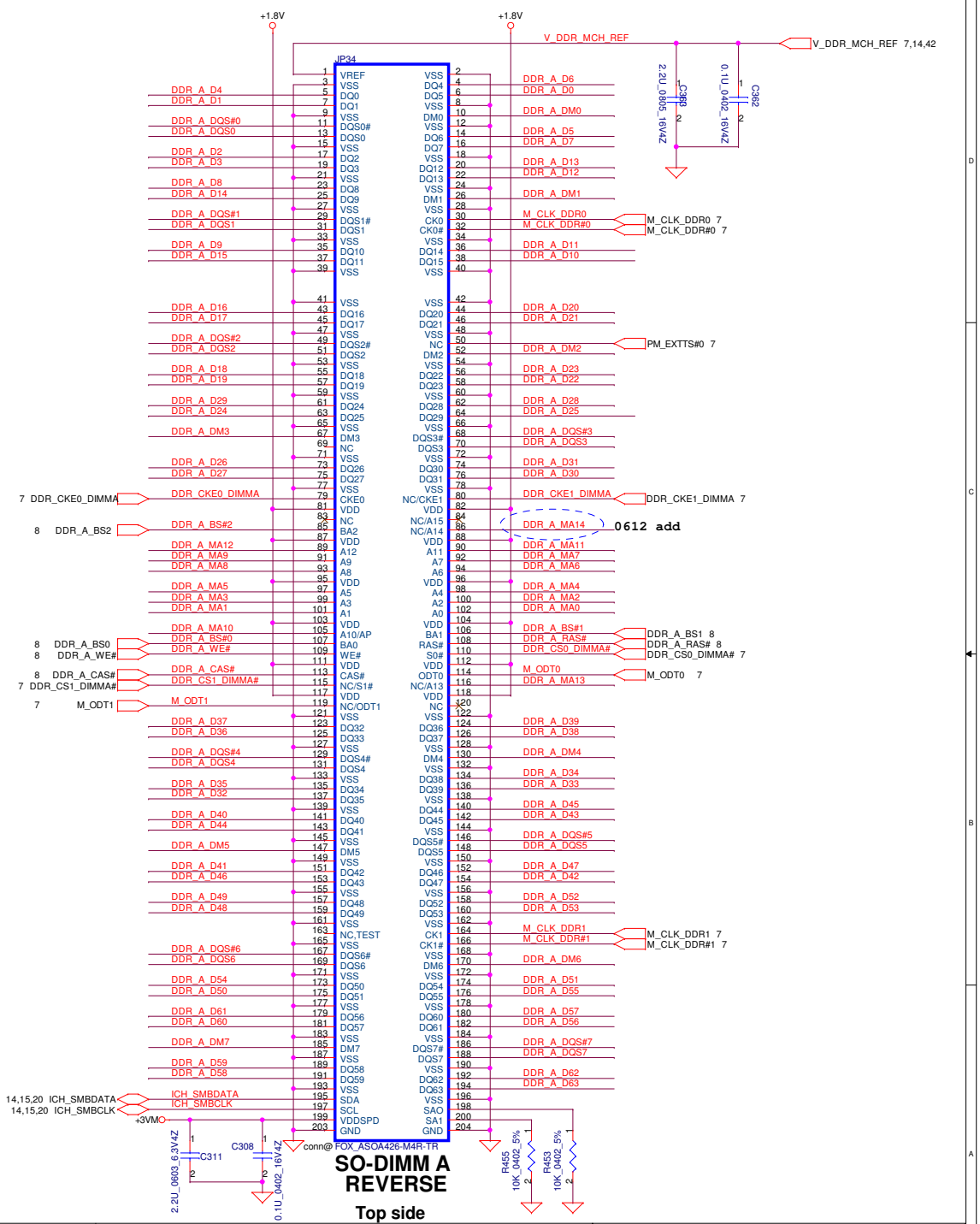
**Layout Note:**  
Place near JP34



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



**Layout Note:**  
Place these resistor closely JP34, all trace length Max=1.5"

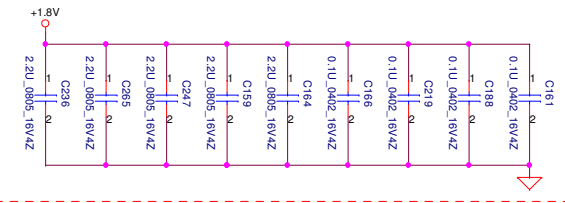


Security Classification	Compal Secret Data		Title	<b>Compal Electronics, Inc.</b>	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	<b>DDRII-SODIMM SLOT1</b>	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Size	Document Number	Rev	Date: Tuesday, March 27, 2007   Sheet 13 of 55		
Custom	LA-3261P UMA	0.4			

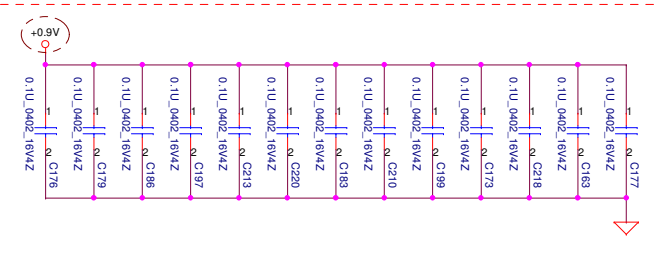


- 8 DDR\_B\_DQS#(0..7)
- 8 DDR\_B\_D[0..63]
- 8 DDR\_B\_DM(0..7)
- 8 DDR\_B\_DOS(0..7)
- 7,8 DDR\_B\_MA(0..14)

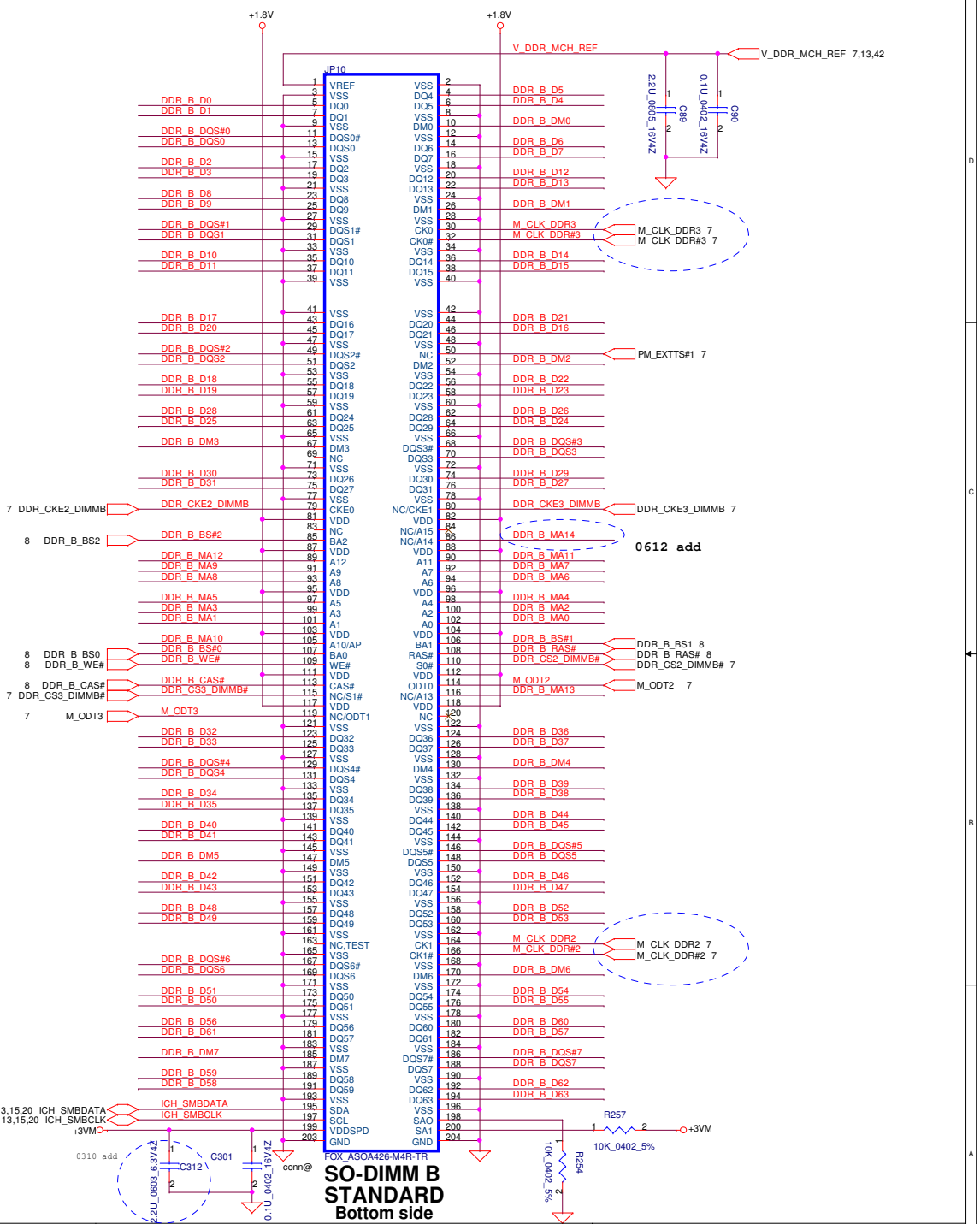
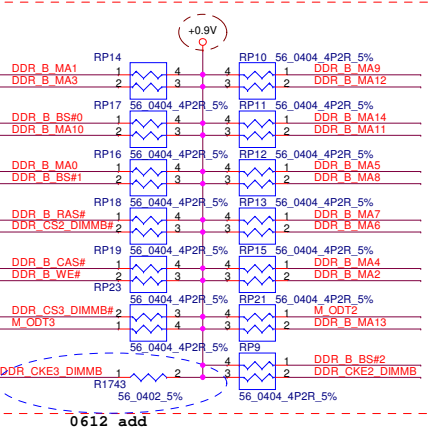
**Layout Note:**  
Place near JP10



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



**Layout Note:**  
Place these resistor closely JP10, all trace length Max=1.5"



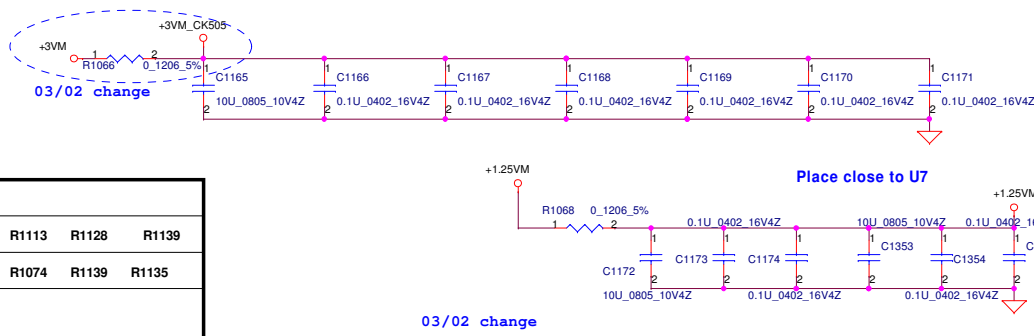
Security Classification	Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	Compal Electronics, Inc.
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				<b>DDRII-SODIMM SLOT2</b> Size: Document Number LA-3261P UMA Rev: 0.4 Date: Tuesday, March 27, 2007



FSLC	FSLB	FSLA	CPU	SRC	PCI
CLKSEL2	CLKSEL1	CLKSEL0	MHz	MHz	MHz
0	1	0	200	100	33.3
0	1	1	166	100	33.3

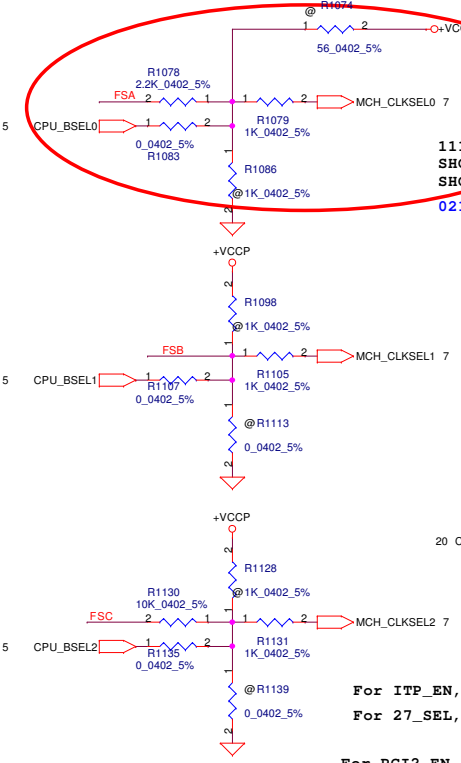
**FSB Frequency Select:**

CPU Driven	Stuff	R1107	R1135	R1083			
*(Default)	No Stuff	R1074	R1086	R1098	R1113	R1128	R1139
	Stuff	R1086	R1139	R1135	R1074	R1139	R1135
667MHz	No Stuff	R1083	R1107	R1128	R1113	R1098	
	Stuff	R1135	R1139				
800MHz	No Stuff	R1083	R1086	R1098	R1128		
	Stuff	R1074	R1107	R1113			

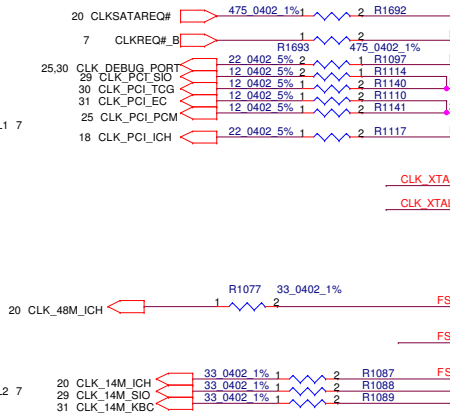


C353	2	1	CLK 48M ICH
C357	2	1	5P_0402_50V8C
C372	2	1	CLK 14M ICH
C373	2	1	4.7P_0402_50V8C
C374	2	1	CLK PCI ICH
C375	2	1	4.7P_0402_50V8C
C376	2	1	CLK PCI TCG
C378	2	1	4.7P_0402_50V8C
C379	2	1	CLK PCI ECM
C380	2	1	4.7P_0402_50V8C
		1	CLK PCI SIO
		1	CLK DEBUG POINT
		1	5P_0402_50V8C

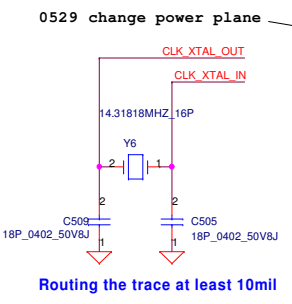
20070301 Add CAP for WWAN issue



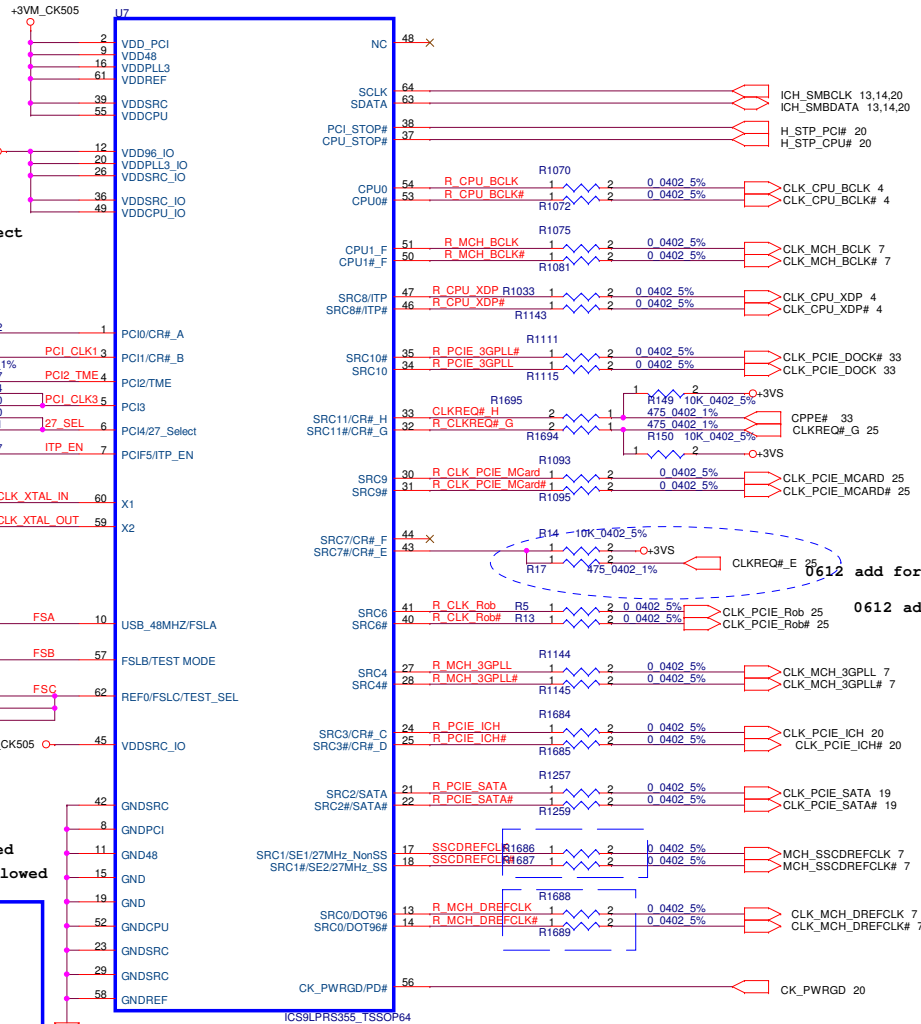
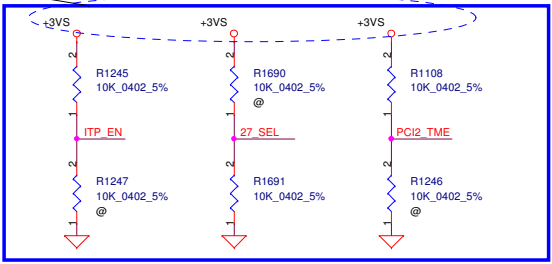
1111 Add CLR4, CLR5 for 667/800 FSB select  
 SHORT CLR4, NO SHORT CLR5 -- FSB 800  
 SHORT CLR4, NO SHORT CLR5 -- FSB 667  
 0216 Delete CLR4, CLR5



For ITP\_EN, 0 = SRC8/SRC8#, 1 = ITP/ITP#  
 For 27\_SEL, 0 = Enable DOT96 & SRC1,  
 1 = Enable SRC0 & 27MHz  
 For PCI2\_EN, 0 = Overclocking of CPU and SRC Allowed  
 1 = Overclocking of CPU and SRC NOT allowed



Routing the trace at least 10mil



0612 add for Robson

0612 add for Robson

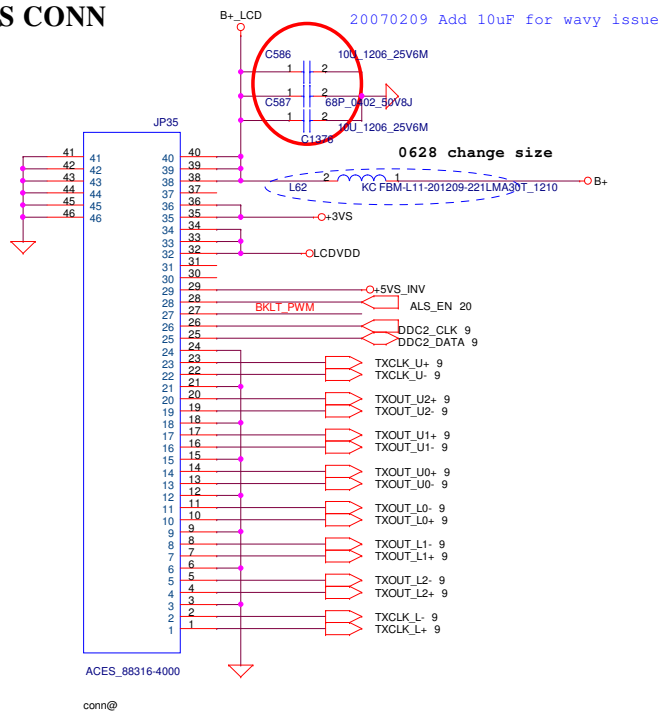
Security Classification	Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date
		2006/03/10

THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.

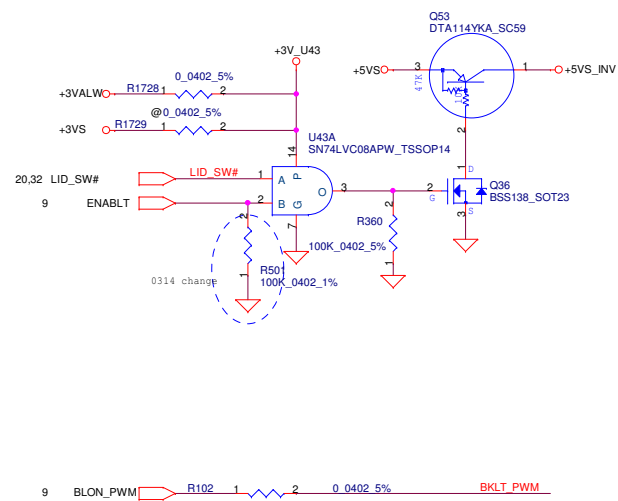
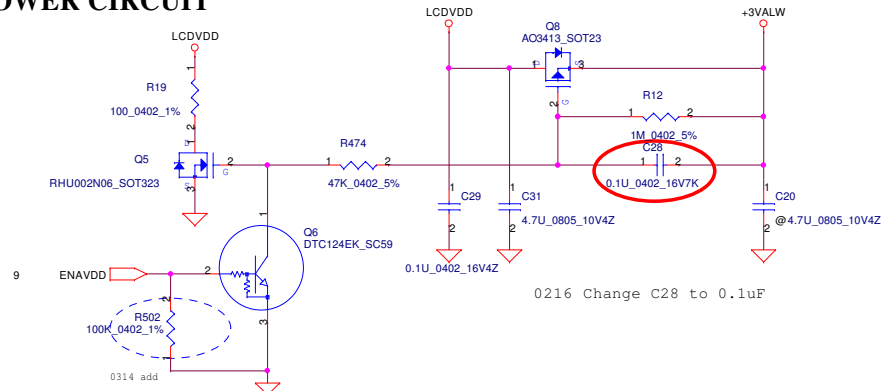
Compal Electronics, Inc.		
Clock generator		
Title	Size	Document Number
		LA-3261P UMA
Date:	Tuesday, March 27, 2007	Rev 0.4
	Sheet 15	of 55



# LVDS CONN

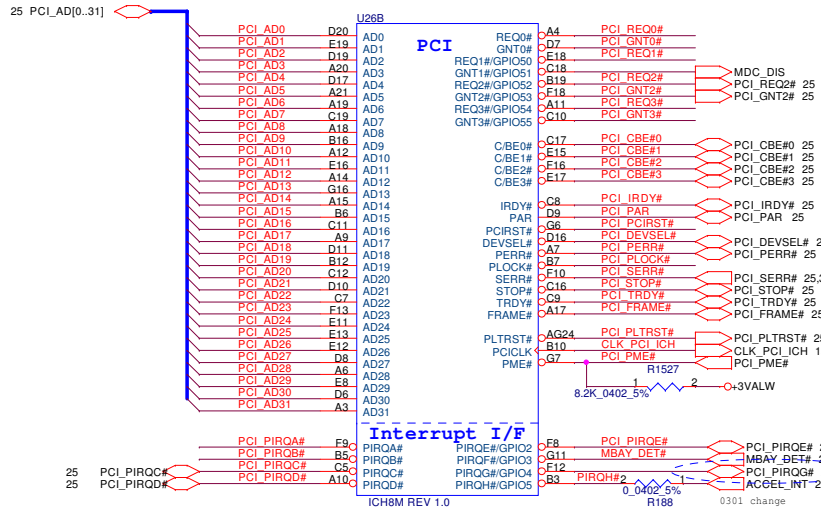
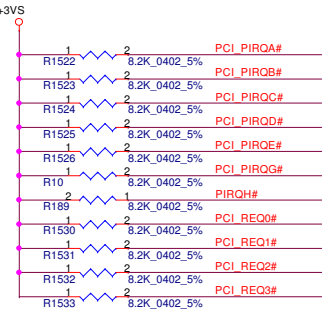
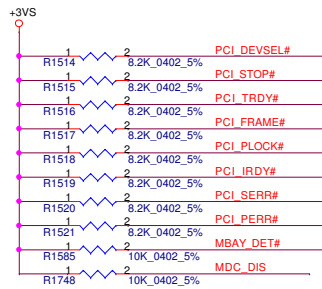


# LCD POWER CIRCUIT

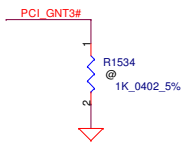


Support 3V inverter

Security Classification	Compal Secret Data			<b>Compal Electronics, Inc.</b> <b>LCD CONN.</b>		
Issued Date	2006/02/13	Deciphered Date	2006/07/26			
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>				Size	Document Number LA-3261P UMA	Rev 0.4
				Date:	Tuesday, March 27, 2007	Sheet 17 of 55

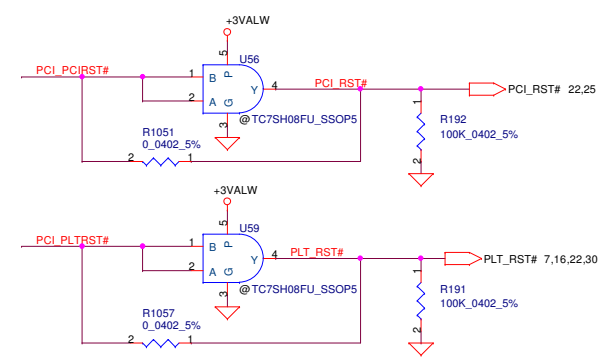
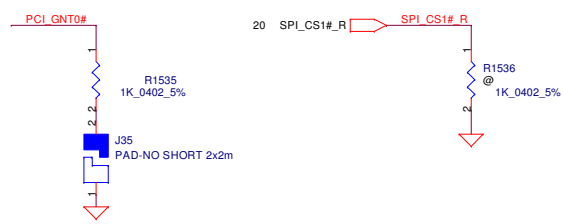
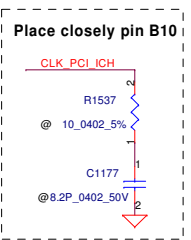


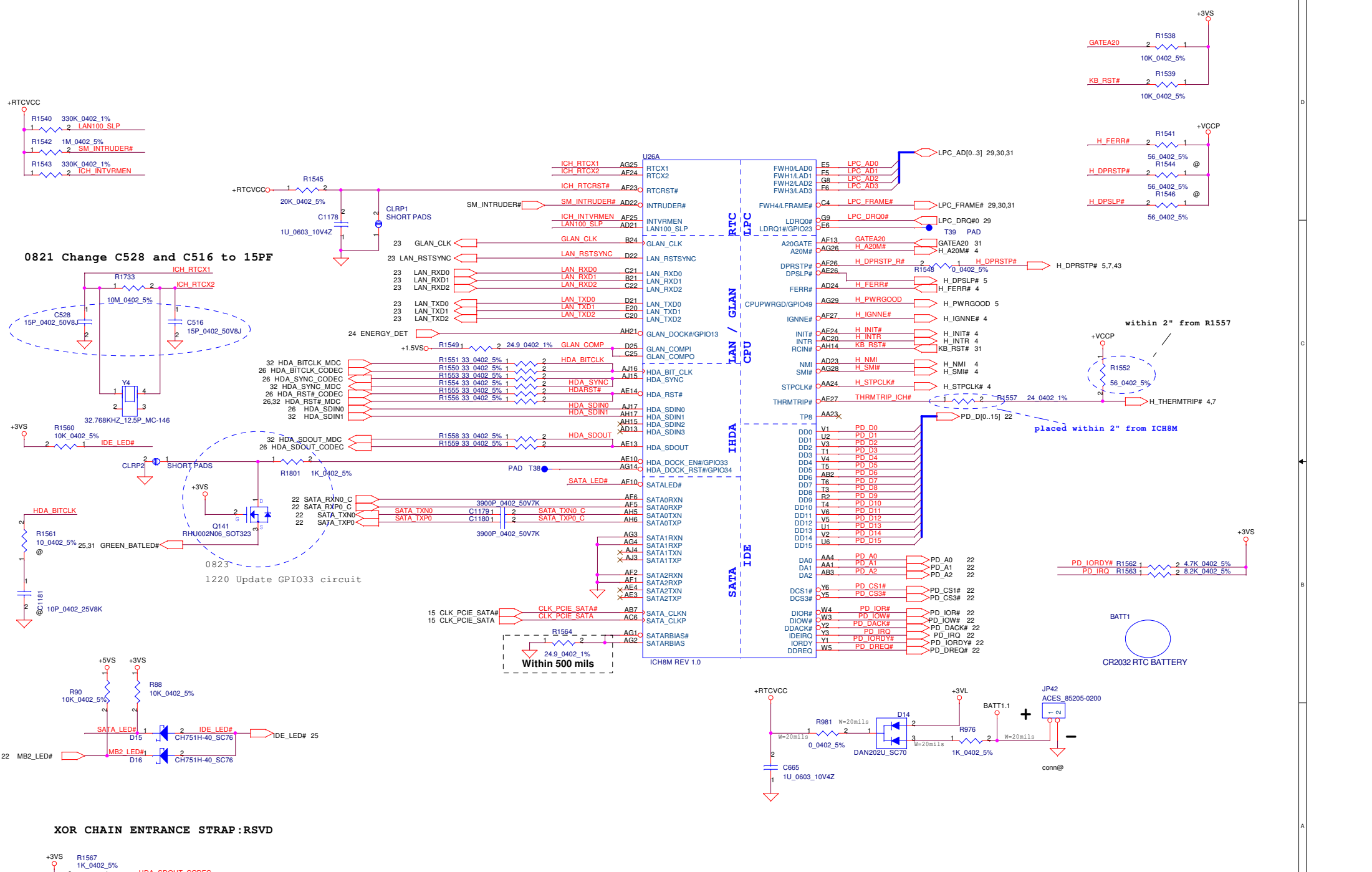
0601 change



A16 swap override Strap	
PCI_GNT3#	Low= A16 swap override Enable High= Default *

Boot BIOS Strap		
PCI_GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI *
1	0	PCI
1	1	LPC



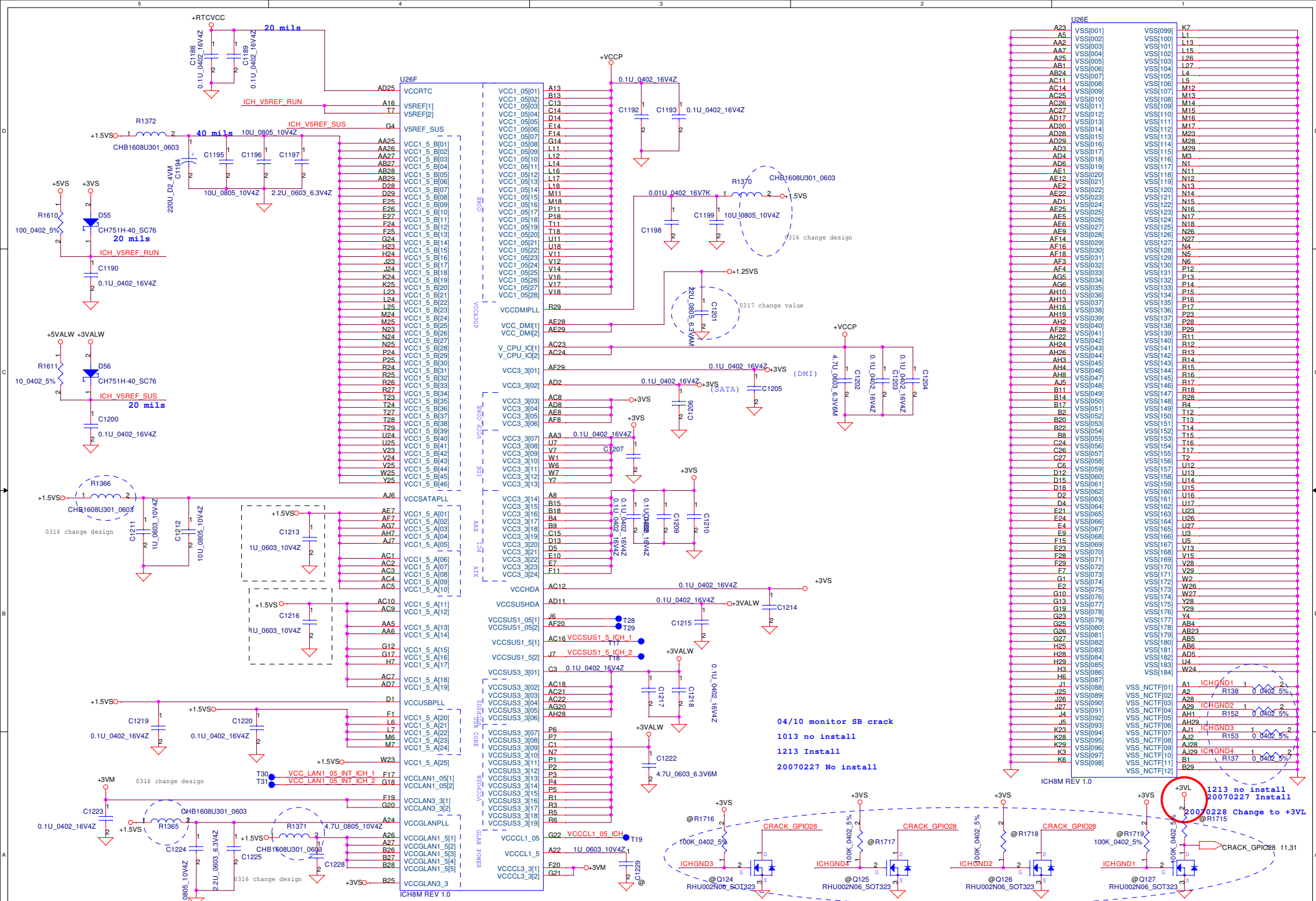


Security Classification	Compal Secret Data		
Issued Date	2006/02/13	Deciphered Date	2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			

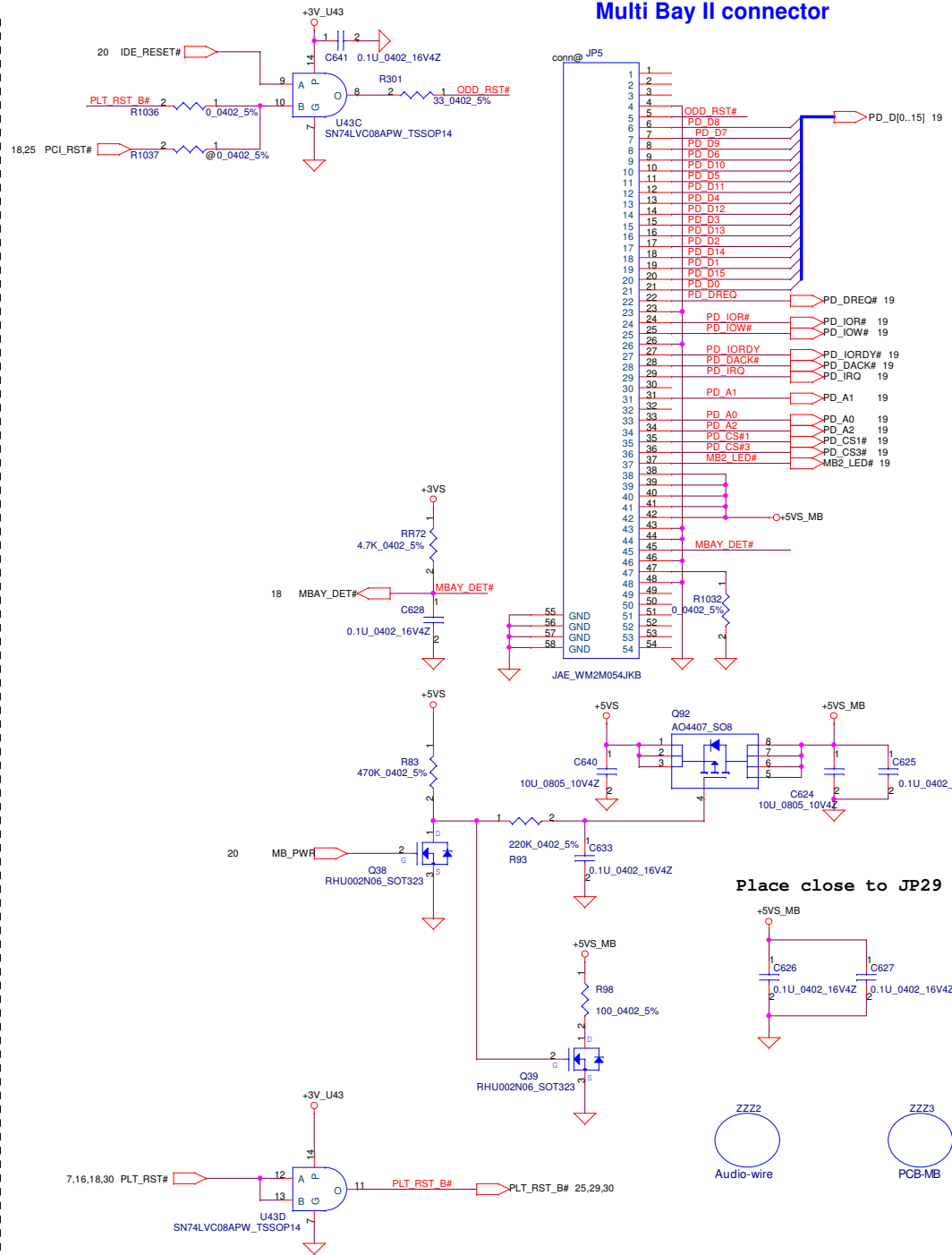
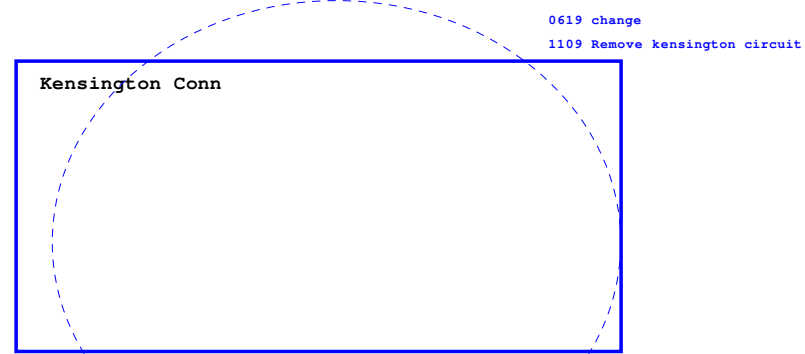
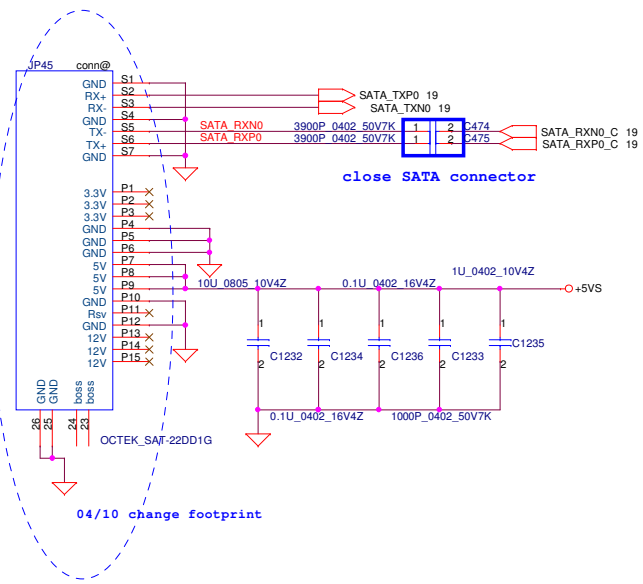
Title			
<b>ICHS(2/4) LAN, HD, IDE, LPC</b>			
Size	Document Number	Rev	
Custom	LA-3261P_UMA	0.4	
Date:	Tuesday, March 27, 2007	Sheet	19 of 55







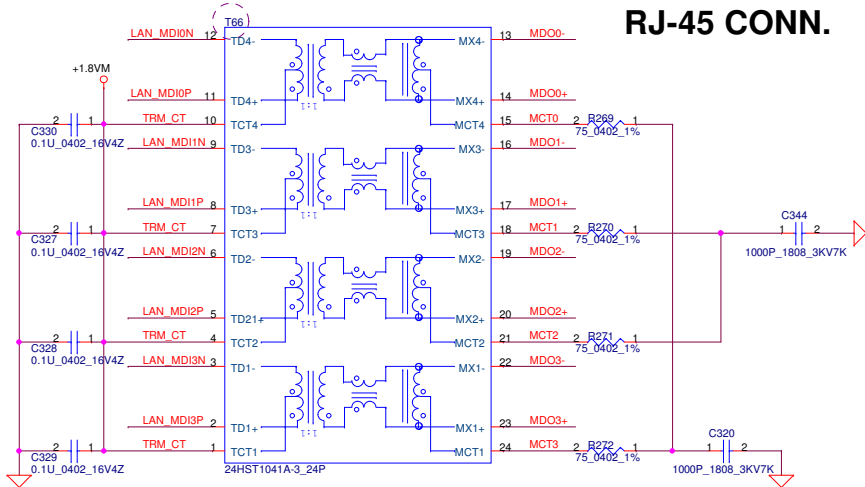
U26F	A23	VSS1001	VSS1099	K7
A5	VSS1002	VSS1100	L1	VSS1099
AA2	VSS1003	VSS1101	L13	VSS1099
AA7	VSS1004	VSS1102	L15	VSS1099
AB1	VSS1005	VSS1103	L26	VSS1099
AB2	VSS1006	VSS1104	L27	VSS1099
AB4	VSS1007	VSS1105	L4	VSS1099
AC11	VSS1008	VSS1106	L5	VSS1099
AC14	VSS1009	VSS1107	L13	VSS1099
AC25	VSS1010	VSS1108	M13	VSS1099
AC26	VSS1011	VSS1109	M14	VSS1099
AC27	VSS1012	VSS1110	M15	VSS1099
AD17	VSS1013	VSS1111	M16	VSS1099
AD20	VSS1014	VSS1112	M17	VSS1099
AD28	VSS1015	VSS1113	M23	VSS1099
AD29	VSS1016	VSS1114	M28	VSS1099
AD3	VSS1017	VSS1115	M29	VSS1099
AD4	VSS1018	VSS1116	M3	VSS1099
AD6	VSS1019	VSS1117	N1	VSS1099
AE1	VSS1020	VSS1118	N11	VSS1099
AE2	VSS1021	VSS1119	N12	VSS1099
AE22	VSS1022	VSS1120	N13	VSS1099
AE25	VSS1023	VSS1121	N14	VSS1099
AD1	VSS1024	VSS1122	N15	VSS1099
AE5	VSS1025	VSS1123	N16	VSS1099
AE6	VSS1026	VSS1124	N17	VSS1099
AE9	VSS1027	VSS1125	N18	VSS1099
AF14	VSS1028	VSS1126	N26	VSS1099
AF16	VSS1029	VSS1127	N27	VSS1099
AF18	VSS1030	VSS1128	N27	VSS1099
AF3	VSS1031	VSS1129	N5	VSS1099
AF4	VSS1032	VSS1130	N6	VSS1099
AG5	VSS1033	VSS1131	P12	VSS1099
AG6	VSS1034	VSS1132	P13	VSS1099
AH10	VSS1035	VSS1133	P14	VSS1099
AH13	VSS1036	VSS1134	P15	VSS1099
AH16	VSS1037	VSS1135	P16	VSS1099
AH19	VSS1038	VSS1136	P17	VSS1099
AH2	VSS1039	VSS1137	P28	VSS1099
AH22	VSS1040	VSS1138	P29	VSS1099
AH24	VSS1041	VSS1139	P11	VSS1099
AH26	VSS1042	VSS1140	R12	VSS1099
AH3	VSS1043	VSS1141	R13	VSS1099
AH4	VSS1044	VSS1142	R14	VSS1099
AH8	VSS1045	VSS1143	R15	VSS1099
AJ5	VSS1046	VSS1144	R14	VSS1099
B1	VSS1047	VSS1145	R17	VSS1099
B14	VSS1048	VSS1146	R18	VSS1099
B2	VSS1049	VSS1147	R28	VSS1099
B22	VSS1050	VSS1148	R4	VSS1099
B8	VSS1051	VSS1149	T12	VSS1099
C24	VSS1052	VSS1150	T15	VSS1099
C26	VSS1053	VSS1151	T16	VSS1099
C27	VSS1054	VSS1152	T17	VSS1099
C6	VSS1055	VSS1153	T2	VSS1099
D12	VSS1056	VSS1154	T12	VSS1099
D15	VSS1057	VSS1155	T13	VSS1099
D18	VSS1058	VSS1156	T14	VSS1099
D2	VSS1059	VSS1157	T15	VSS1099
D4	VSS1060	VSS1158	T16	VSS1099
E21	VSS1061	VSS1159	T17	VSS1099
E24	VSS1062	VSS1160	T2	VSS1099
E4	VSS1063	VSS1161	T12	VSS1099
E9	VSS1064	VSS1162	T13	VSS1099
F15	VSS1065	VSS1163	T14	VSS1099
F23	VSS1066	VSS1164	T15	VSS1099
F28	VSS1067	VSS1165	T16	VSS1099
F7	VSS1068	VSS1166	T17	VSS1099
G10	VSS1069	VSS1167	U12	VSS1099
G12	VSS1070	VSS1168	U13	VSS1099
G13	VSS1071	VSS1169	U14	VSS1099
G19	VSS1072	VSS1170	U15	VSS1099
G23	VSS1073	VSS1171	U16	VSS1099
G25	VSS1074	VSS1172	U17	VSS1099
G26	VSS1075	VSS1173	U23	VSS1099
G27	VSS1076	VSS1174	U26	VSS1099
H25	VSS1077	VSS1175	U27	VSS1099
H28	VSS1078	VSS1176	U28	VSS1099
H3	VSS1079	VSS1177	Y4	VSS1099
H6	VSS1080	VSS1178	Y29	VSS1099
J1	VSS1081	VSS1179	Y4	VSS1099
J25	VSS1082	VSS1180	AB23	VSS1099
J26	VSS1083	VSS1181	AB5	VSS1099
J27	VSS1084	VSS1182	AB6	VSS1099
J4	VSS1085	VSS1183	AD5	VSS1099
J5	VSS1086	VSS1184	AD5	VSS1099
K23	VSS1087	VSS1185	W24	VSS1099
K28	VSS1088	VSS1186		
K29	VSS1089	VSS1187		
K3	VSS1090	VSS1188		
K6	VSS1091	VSS1189		
	VSS1092	VSS1190		
	VSS1093	VSS1191		
	VSS1094	VSS1192		
	VSS1095	VSS1193		
	VSS1096	VSS1194		
	VSS1097	VSS1195		
	VSS1098	VSS1196		
	VSS1099	VSS1197		
	VSS1100	VSS1198		
	VSS1101	VSS1199		
	VSS1102	VSS1200		
	VSS1103	VSS1201		
	VSS1104	VSS1202		
	VSS1105	VSS1203		
	VSS1106	VSS1204		
	VSS1107	VSS1205		
	VSS1108	VSS1206		
	VSS1109	VSS1207		
	VSS1110	VSS1208		
	VSS1111	VSS1209		
	VSS1112	VSS1210		
	VSS1113	VSS1211		
	VSS1114	VSS1212		
	VSS1115	VSS1213		
	VSS1116	VSS1214		
	VSS1117	VSS1215		
	VSS1118	VSS1216		
	VSS1119	VSS1217		
	VSS1120	VSS1218		
	VSS1121	VSS1219		
	VSS1122	VSS1220		
	VSS1123	VSS1221		
	VSS1124	VSS1222		
	VSS1125	VSS1223		
	VSS1126	VSS1224		
	VSS1127	VSS1225		
	VSS1128	VSS1226		
	VSS1129	VSS1227		
	VSS1130	VSS1228		
	VSS1131	VSS1229		
	VSS1132	VSS1230		
	VSS1133	VSS1231		
	VSS1134	VSS1232		
	VSS1135	VSS1233		
	VSS1136	VSS1234		
	VSS1137	VSS1235		
	VSS1138	VSS1236		
	VSS1139	VSS1237		
	VSS1140	VSS1238		
	VSS1141	VSS1239		
	VSS1142	VSS1240		
	VSS1143	VSS1241		
	VSS1144	VSS1242		
	VSS1145	VSS1243		
	VSS1146	VSS1244		
	VSS1147	VSS1245		
	VSS1148	VSS1246		
	VSS1149	VSS1247		
	VSS1150	VSS1248		
	VSS1151	VSS1249		
	VSS1152	VSS1250		
	VSS1153	VSS1251		
	VSS1154	VSS1252		
	VSS1155	VSS1253		
	VSS1156	VSS1254		
	VSS1157	VSS1255		
	VSS1158	VSS1256		
	VSS1159	VSS1257		
	VSS1160	VSS1258		
	VSS1161	VSS1259		
	VSS1162	VSS1260		
	VSS1163	VSS1261		
	VSS1164	VSS1262		
	VSS1165	VSS1263		
	VSS1166	VSS1264		
	VSS1167	VSS1265		
	VSS1168	VSS1266		
	VSS1169	VSS1267		
	VSS1170	VSS1268		
	VSS1171	VSS1269		
	VSS1172	VSS1270		
	VSS1173	VSS1271		
	VSS1174	VSS1272		
	VSS1175	VSS1273		
	VSS1176	VSS1274		
	VSS1177	VSS1275		
	VSS1178	VSS1276		
	VSS1179	VSS1277		
	VSS1180	VSS1278		
	VSS1181	VSS1279		
	VSS1182	VSS1280		
	VSS1183	VSS1281		
	VSS1184	VSS1282		
	VSS1185	VSS1283		
	VSS1186	VSS1284		
	VSS1187	VSS1285		
	VSS1188	VSS1286		
	VSS1189	VSS1287		
	VSS1190	VSS1288		
	VSS1191	VSS1289		
	VSS1192	VSS1290		
	VSS1193	VSS1291		
	VSS1194	VSS1292		
	VSS1195	VSS1293		
	VSS1196	VSS1294		
	VSS1197	VSS1295		
	VSS1198	VSS1296		
	VSS1199	VSS1297		
	VSS1200	VSS1298		
	VSS1201	VSS1299		
	VSS1202	VSS1300		
	VSS1203	VSS1301		
	VSS1204	VSS1302		
	VSS1205	VSS1303		
	VSS1206	VSS1304		
	VSS1207	VSS1305		
	VSS1208	VSS1306		
	VSS1209	VSS1307		
	VSS1210	VSS1308		
	VSS1211	VSS1309		
	VSS1212	VSS1310		
	VSS1213	VSS1311		
	VSS1214	VSS1312		
	VSS1215	VSS1313		
	VSS1216	VSS1314		
	VSS1217	VSS1315		
	VSS1218	VSS1316		
	VSS1219	VSS1317		
	VSS1220	VSS1318		
	VSS1221	VSS1319		
	VSS1222	VSS1320		
	VSS1223	VSS1321		
	VSS1224	VSS1322		
	VSS1225	VSS1323		
	VSS1226	VSS1324		
	VSS1227	VSS1325		
	VSS1228	VSS1326		
	VSS1229	VSS1327		
	VSS1230	VSS1328		
	VSS1231	VSS1329		
	VSS1232	VSS1330		
	VSS1233			



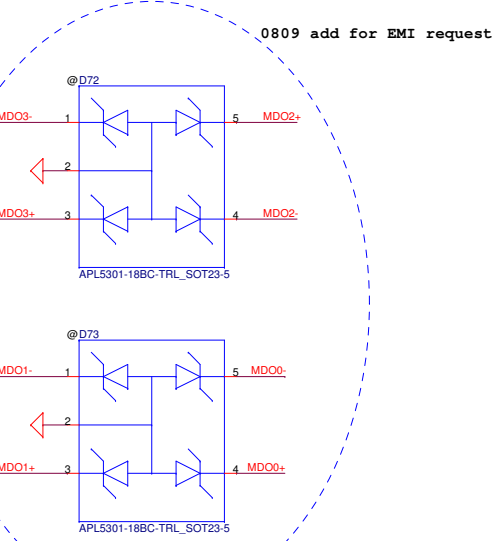
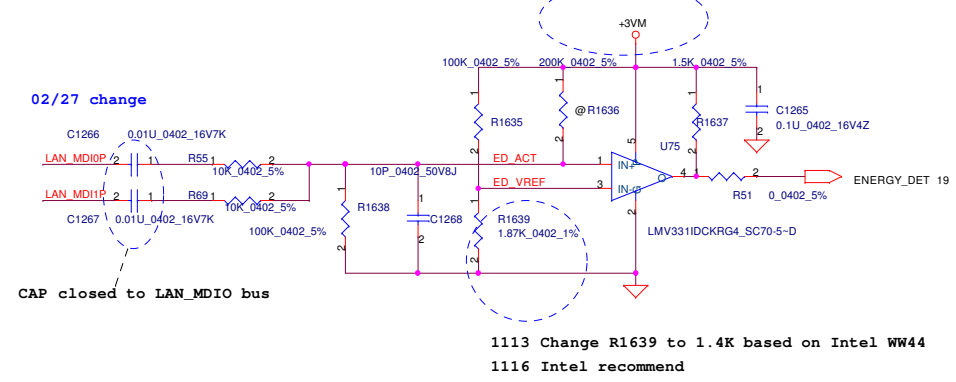
Security Classification	Compal Secret Data		Title	<b>Compal Electronics, Inc.</b>	
Issued Date	2006/02/13	Deciphered Date	2006/03/10	HDD & CDROM	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			Size	Document Number	Rev
			Custom	LA-3261P_UMA	0.4
			Date	Tuesday, March 27, 2007	Sheet 22 of 55



# RJ-45 CONN.

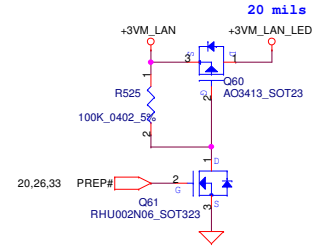
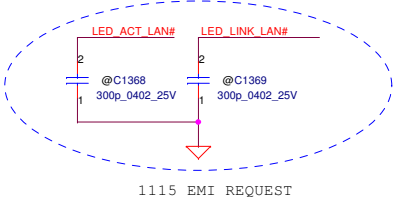
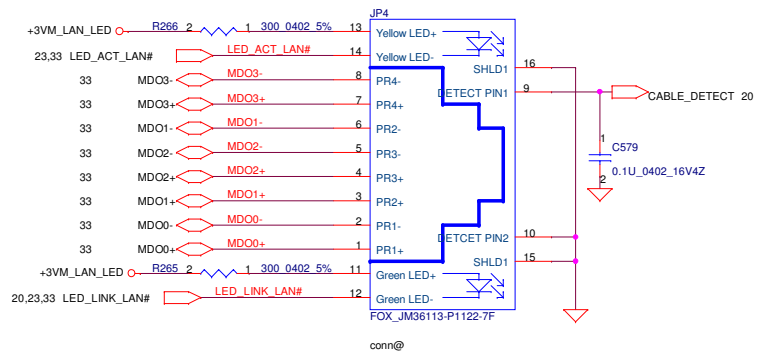


# LAN ENERGY DET



**Layout Notice : Place termination as close as Intel 82566 as possible**

**Note: MDO[3..0] +/- signals should route to JP4 first then to JP30.**



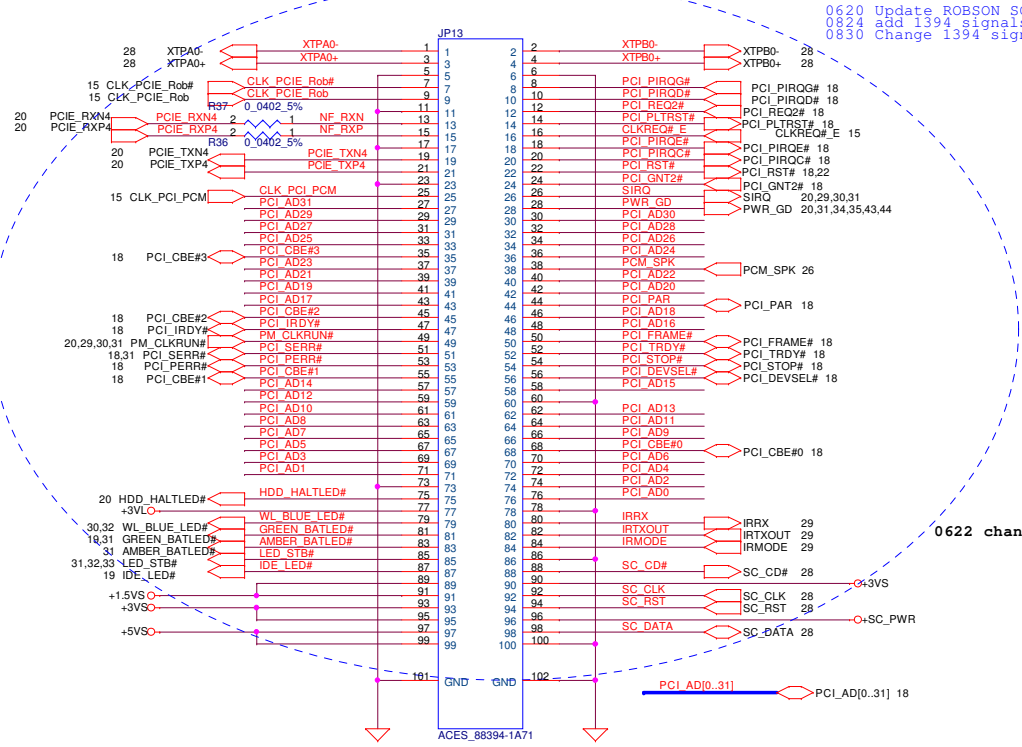
Security Classification	Compal Secret Data			Title		
Issued Date	2006/02/13	Deciphered Date	2006/07/26	Compal Electronics, Inc.		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Magnetic & RJ45/RJ11		
Size	Document Number	Rev		0.4		
Date:	Tuesday, March 27, 2007	Sheet	24	of 55		

# B/B connector with PCI / LED / FIR / SC interface

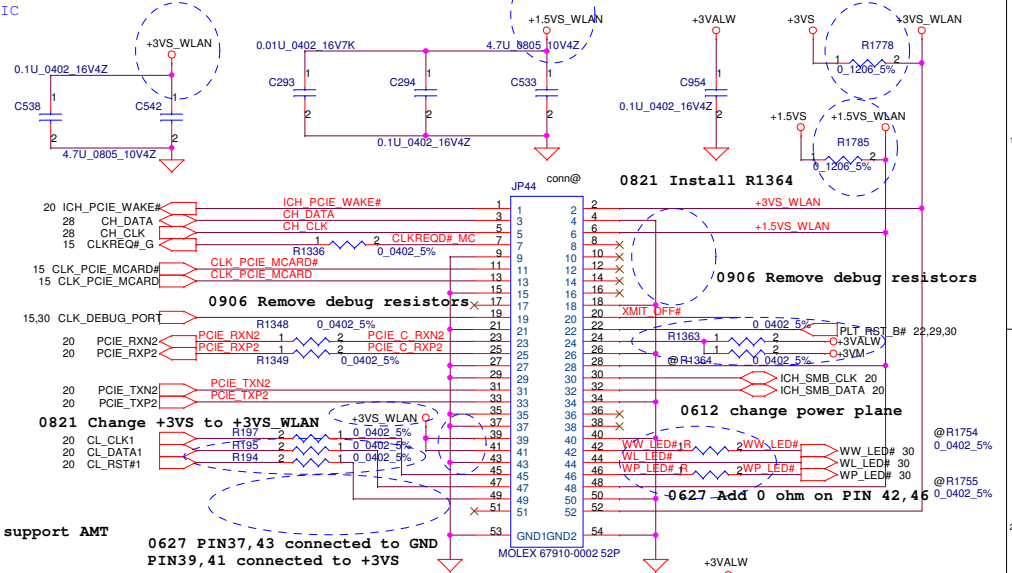
# Mini-Express Card---WLAN

0824 Add +1.5VS\_WLAN  
0811 Isolate SLOT power from SYSTEM power.

0620 Update ROBSON SCHEMATIC  
0824 add 1394 signals  
0830 Change 1394 signals

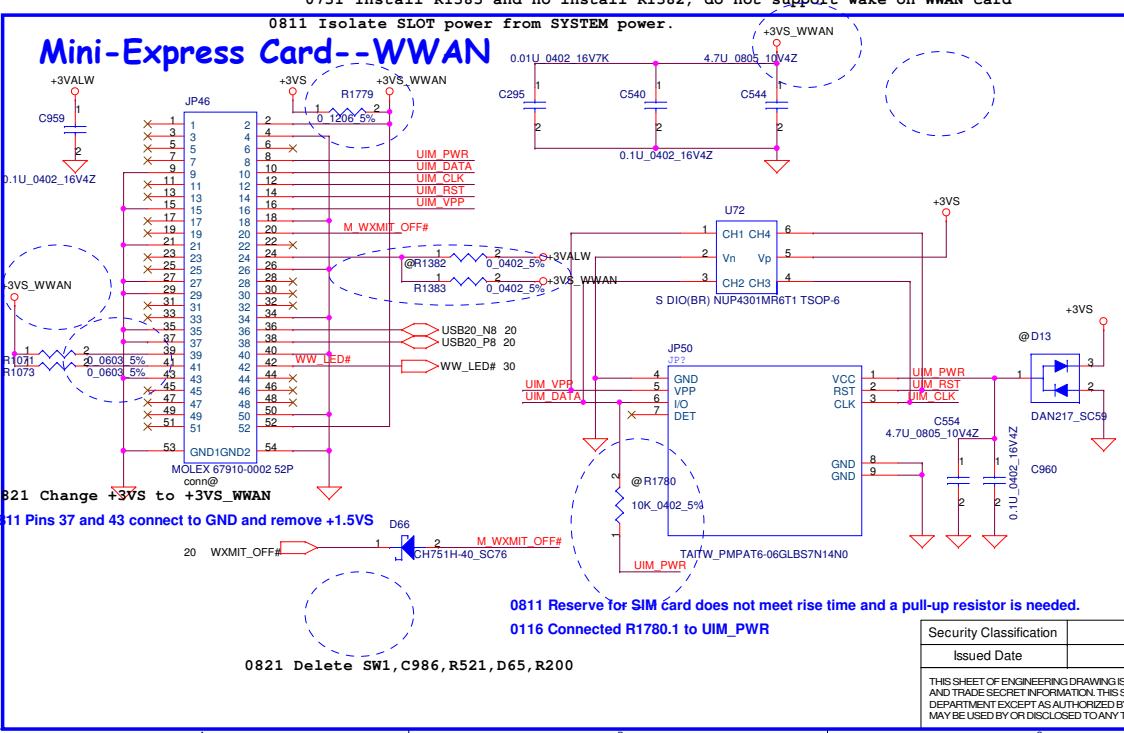
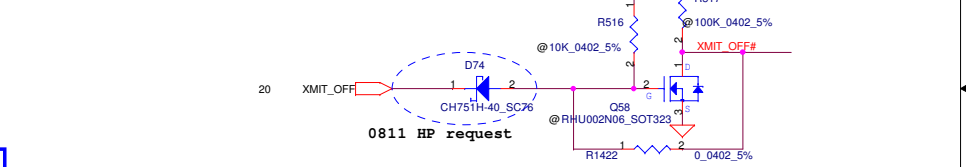


0622 change to support AMT



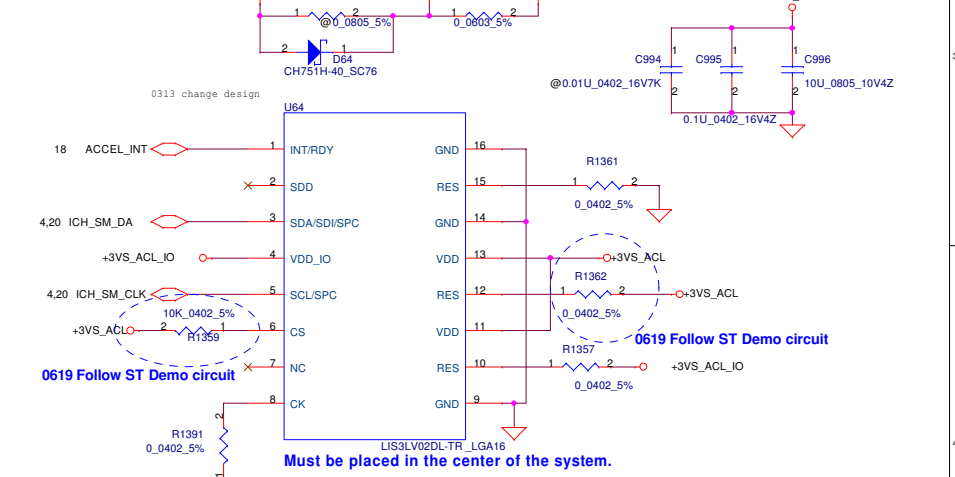
0811 No install R1418, R1358, R1359, R1360

0906 Remove debug resistors



0821 Delete SW1, C986, R521, D65, R200

## ACCELEROMETER



Must be placed in the center of the system.

Security Classification	Compal Secret Data	
Issued Date	2005/05/26	Deciphered Date
		2006/07/26

THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.

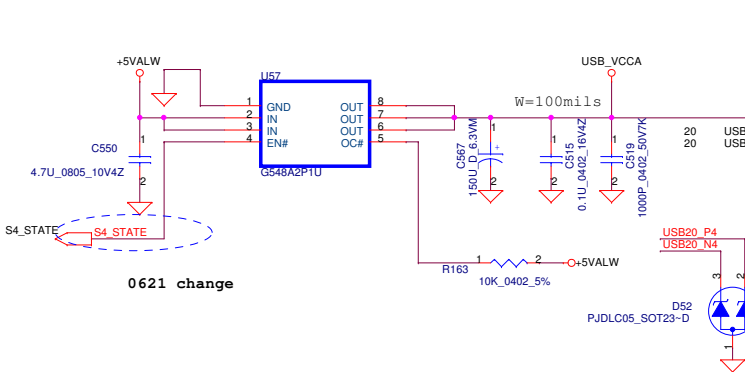
Compal Electronics, Inc.		
Title		
Mini-Card/Mini-PCI/Accelerometer		
Size	Document Number	Rev
	LA-3261P UMA	0.4
Date	Tuesday, March 27, 2007	Sheet 25 of 55



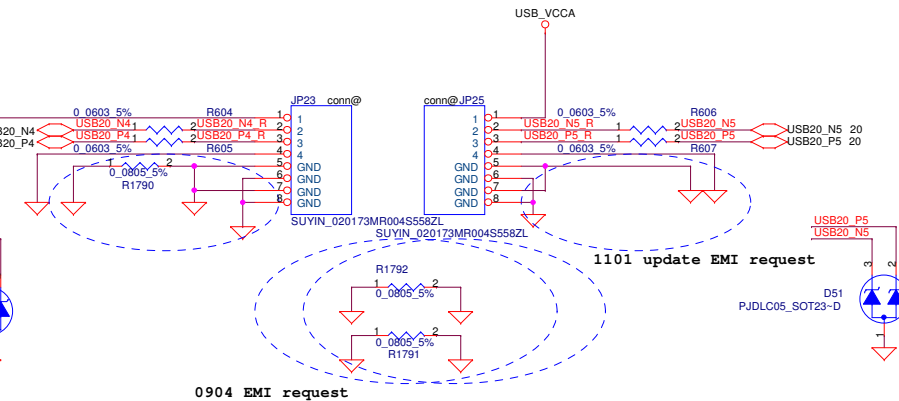




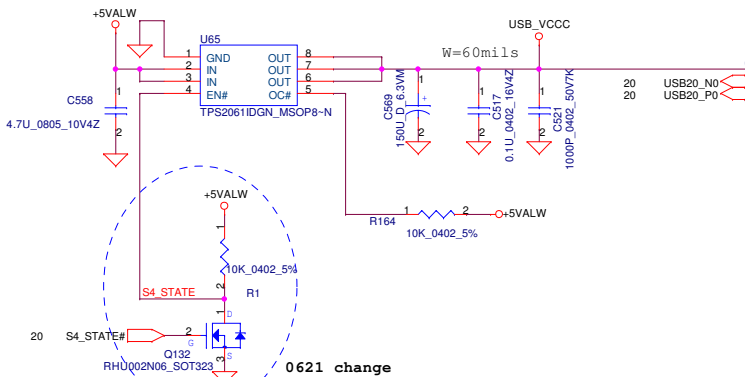
### Left side USB CONNECTOR 0



### Left side USB CONNECTOR 1

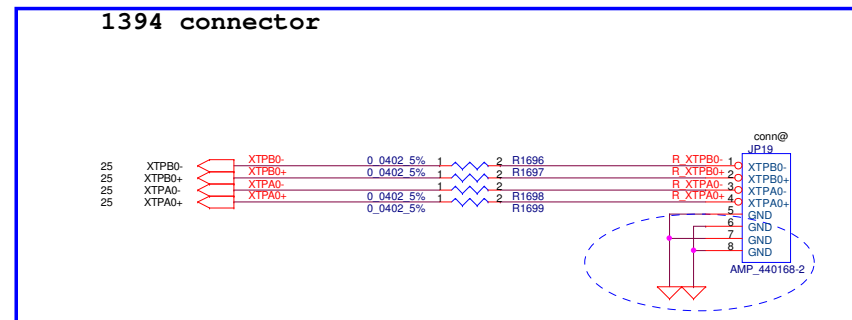


### Right side USB CONNECTOR 0

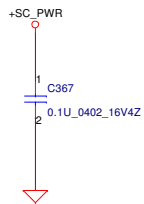
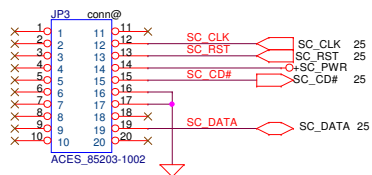


0904 EMI request

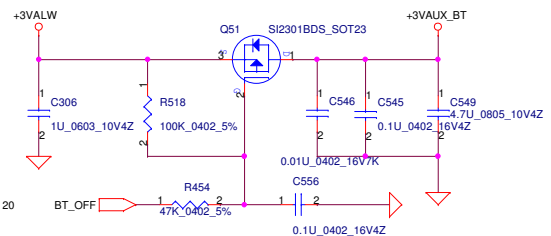
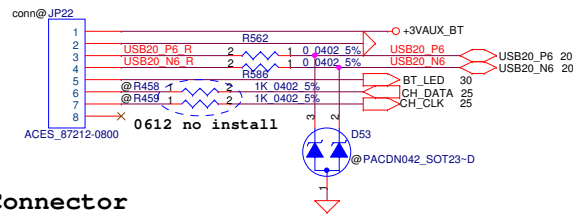
### 1394 connector



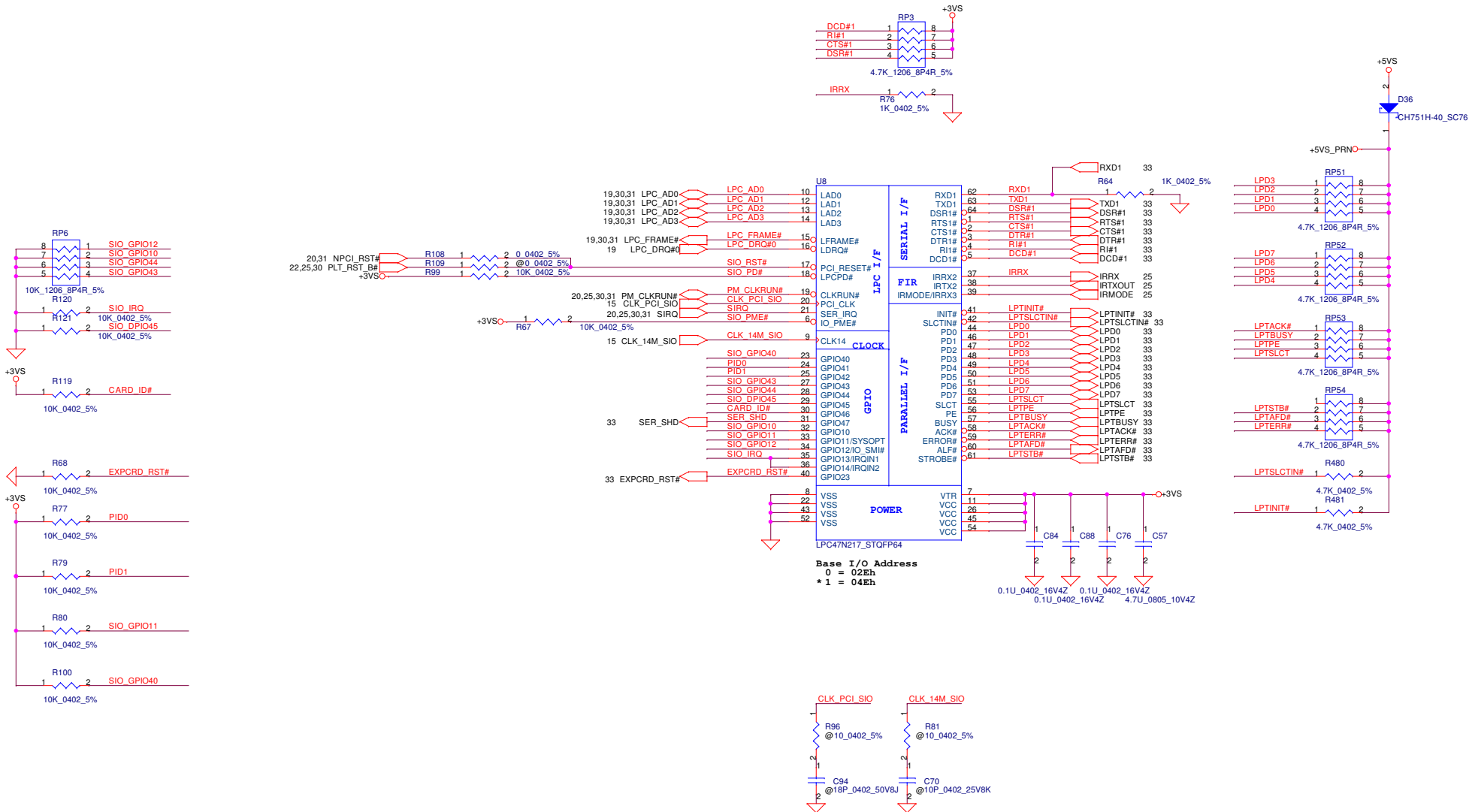
### SMART Card connector



### BT Connector

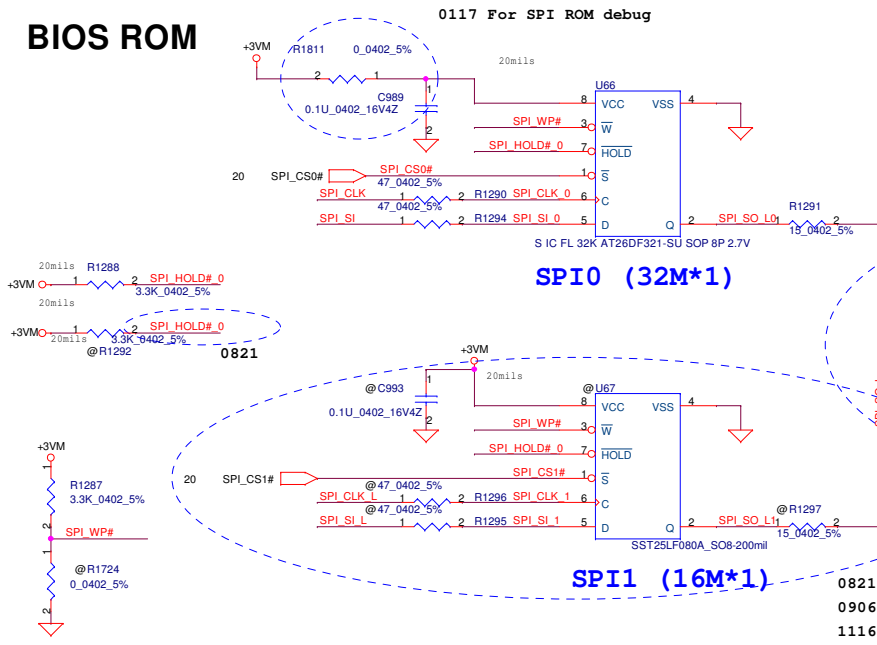


Security Classification	Compal Secret Data		Title	<b>Compal Electronics, Inc.</b>	
Issued Date	2006/02/13	Deciphered Date	2006/07/26	USB & BT Connector	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				LA-3261P UMA	
				Rev	0.4
Date: Tuesday, March 27, 2007				Sheet	28 of 55

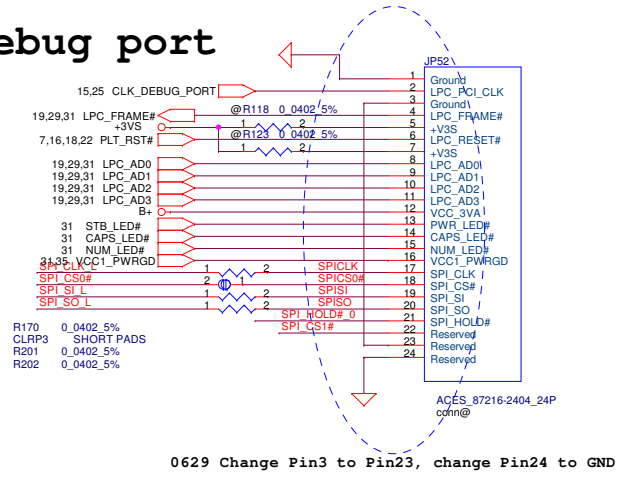


Security Classification	Compal Secret Data		Title	
Issued Date	2005/05/26	Deciphered Date	2006/07/26	2006/07/26
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Title <b>Compal Electronics, Inc.</b> <b>SUPER I/O LPC47N217</b> Size   Document Number <b>LA-3261P UMA</b> Date: Tuesday, March 27, 2007   Sheet 29 of 55

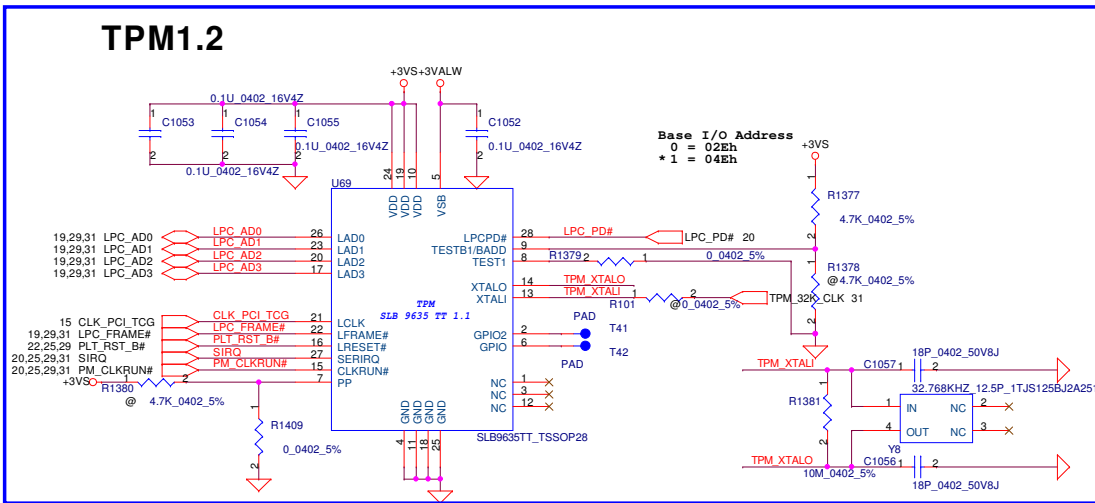
# BIOS ROM



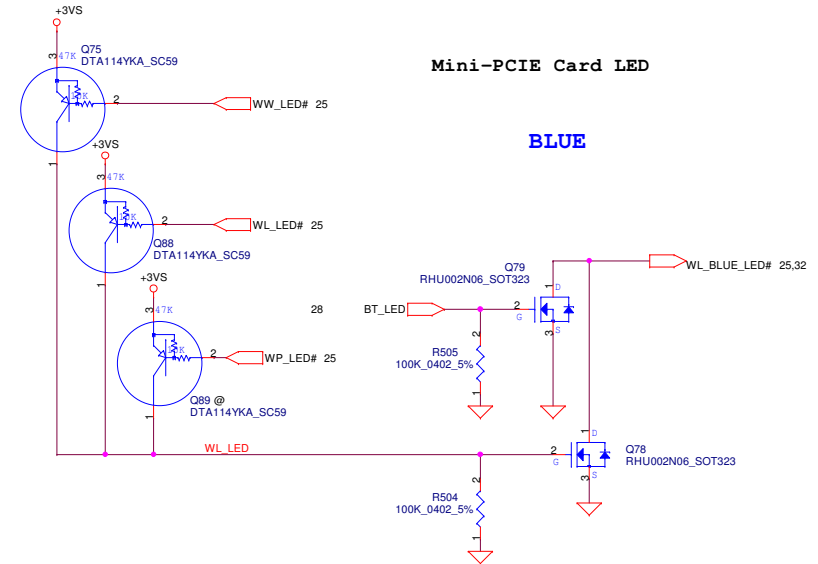
# Debug port



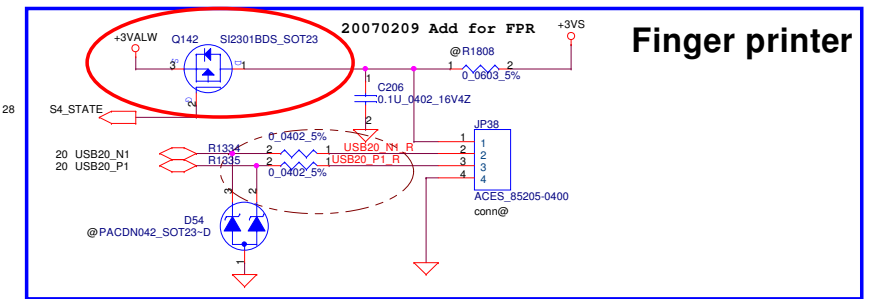
# TPM1.2



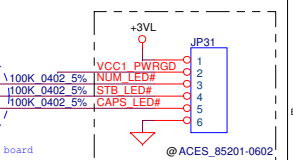
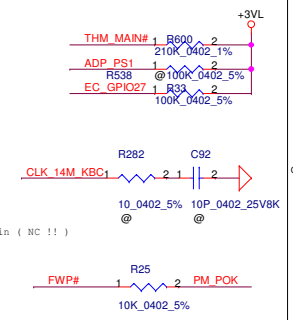
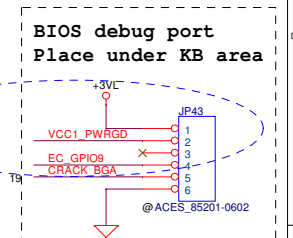
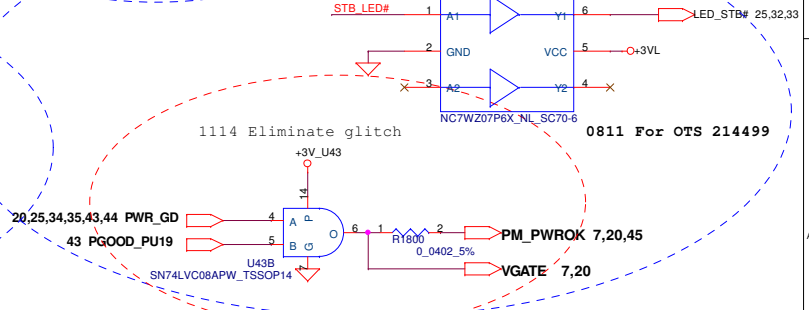
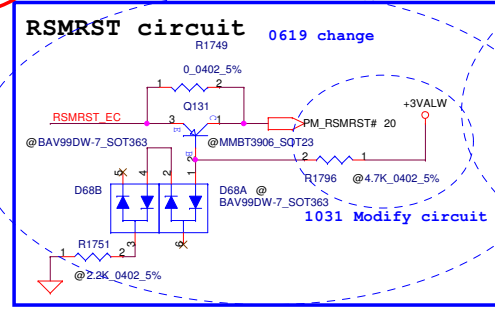
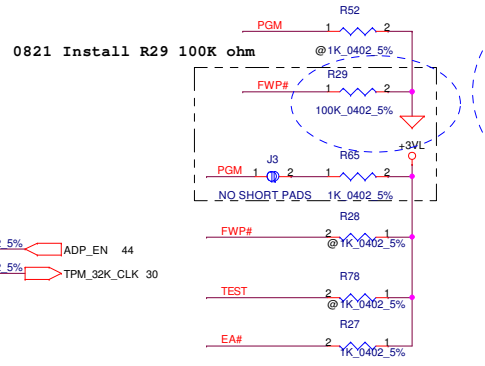
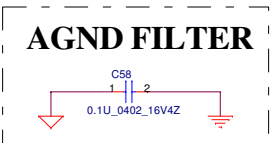
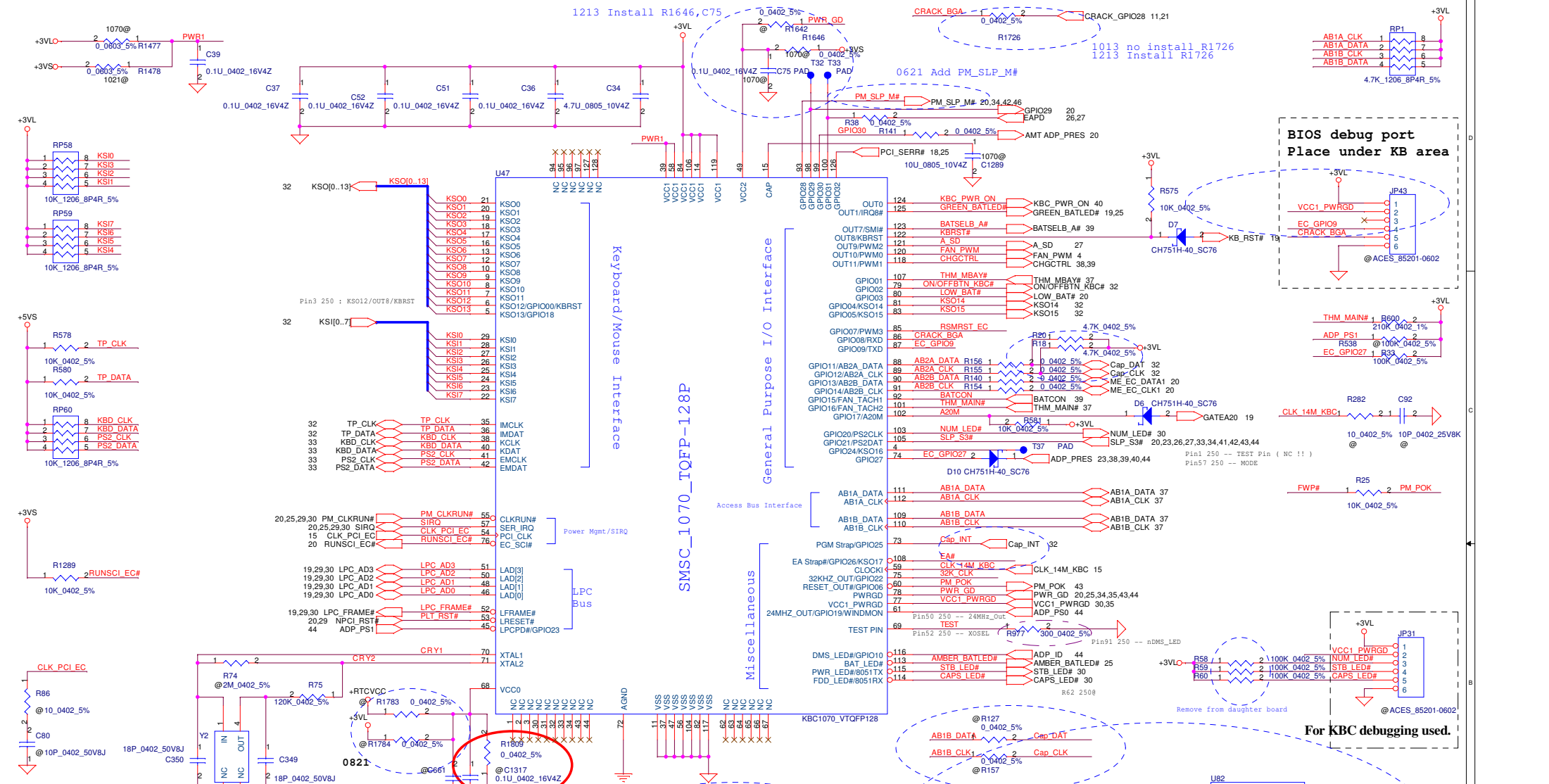
# Mini-PCIE Card LED



# Finger printer



Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2006/02/13	Deciphered Date	2006/07/26	TCG/BIOS ROM/PS2/LED/SW	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Size	Document Number	Rev		0.4	
	LA-3261P UMA				
Date:	Tuesday, March 27, 2007	Sheet	30	of	55

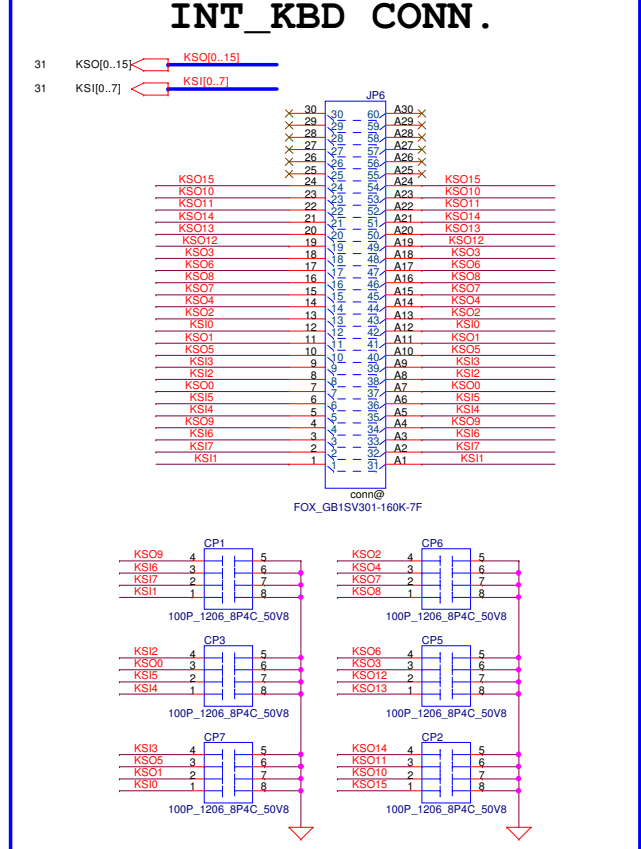
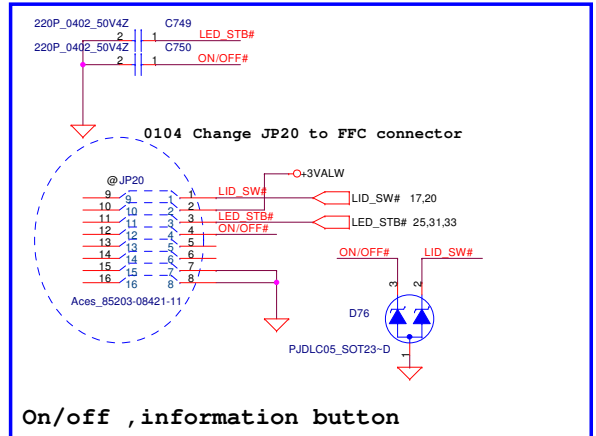
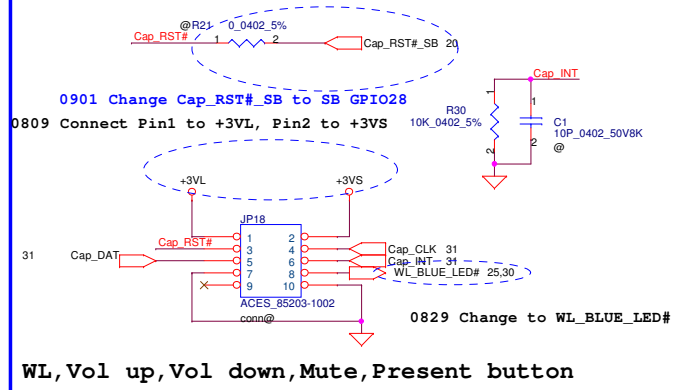


Security Classification	Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date
		2006/07/26

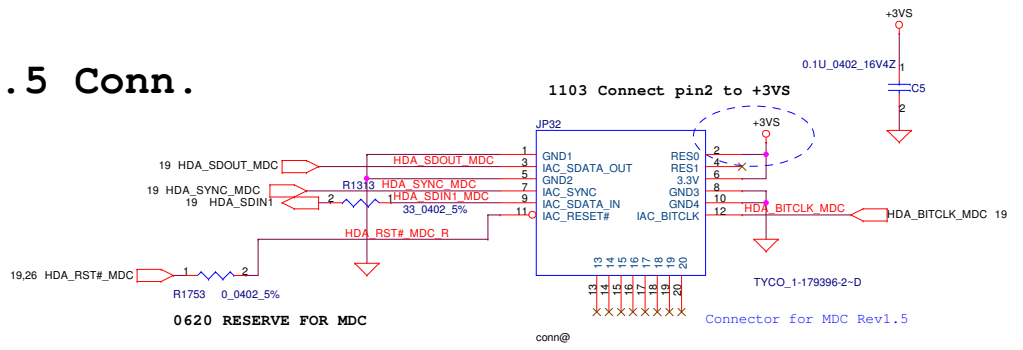
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.

Compal Electronics, Inc.		
<b>LPC47N1021</b>		
Title	Size	Document Number
		LA-3261P UMA
Date:	Tuesday, March 27, 2007	Sheet 31 of 55

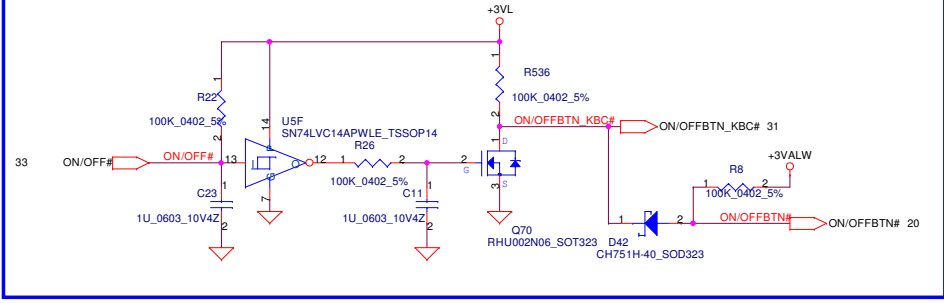
# SWITCH BOARD. 0622 change



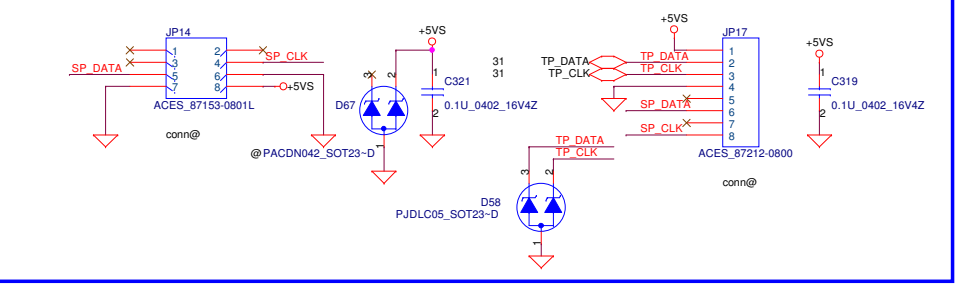
# MDC 1.5 Conn.



# Power button



# TrackPoint CONN.



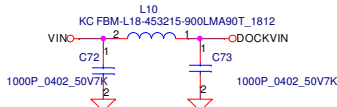
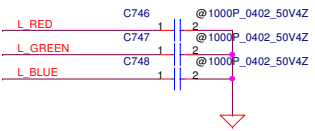
# T/P BOARD.

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2006/02/13	Deciphered Date	2006/07/26	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				MDC/KBD/ON OFF/LID Size Document Number LA-3261P UMA Date: Tuesday, March 27, 2007
				Rev 0.4
				Sheet 32 of 55

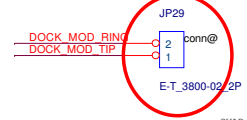
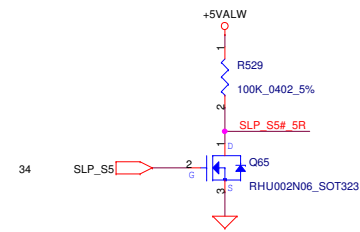
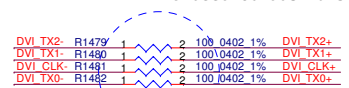


# DOCK CONN. 184PIN

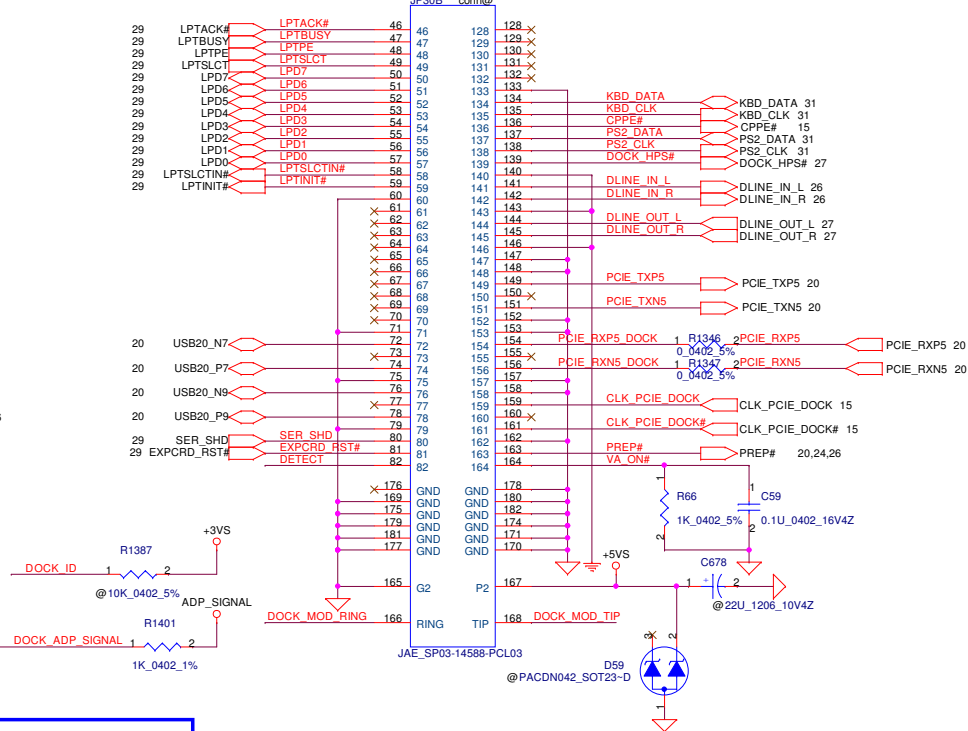
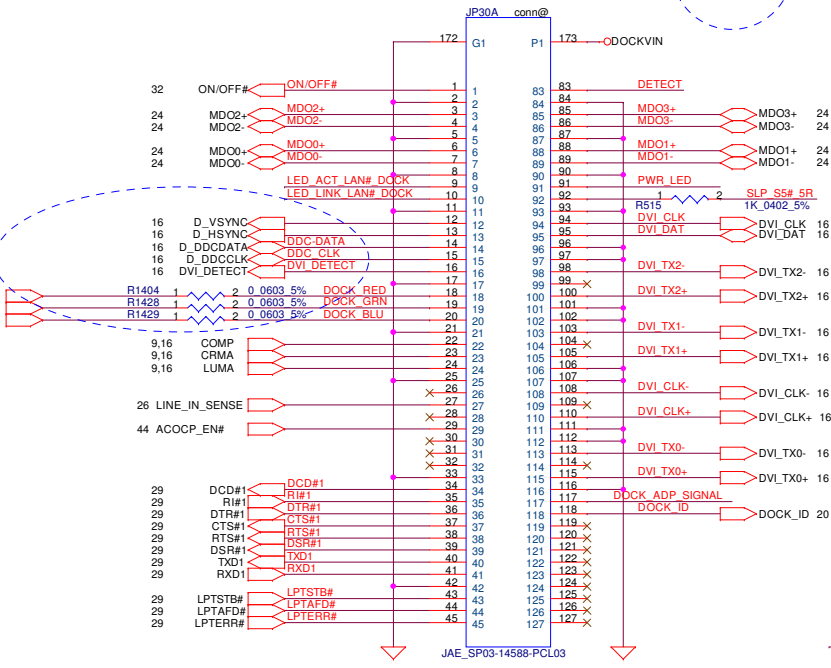
20070226 Change RJ11 connector



Closed to dock JP30

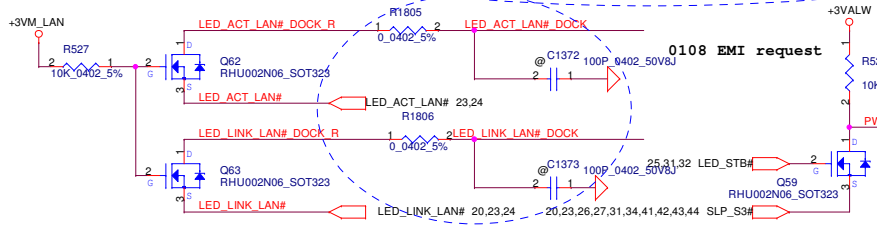
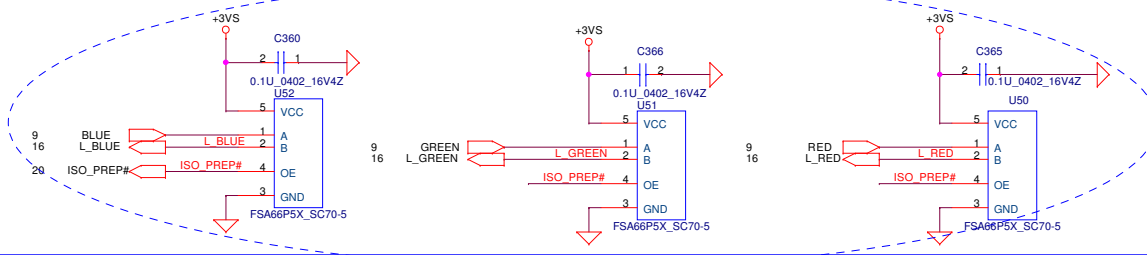


0314 change  
1013 change



1013 Add CRT circuit

Closed to JP30



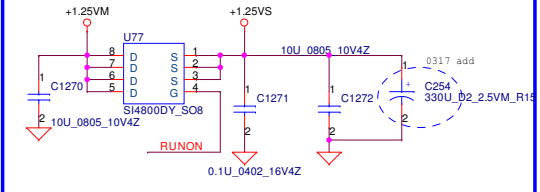
0108 EMI request

Security Classification	Compal Secret Data	
Issued Date	2006/02/13	Deciphered Date
		2006/07/26

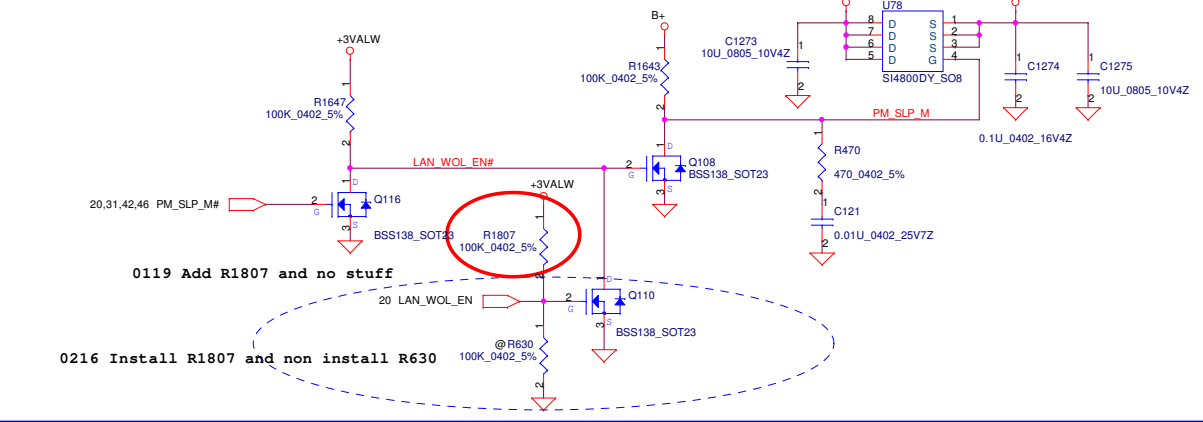
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.

Title			<b>Compal Electronics, Inc.</b>	
			<b>Docking CONN.</b>	
Size	Document Number			Rev
	LA-3261P UMA			0.4
Date:	Tuesday, March 27, 2007	Sheet	33	of 55

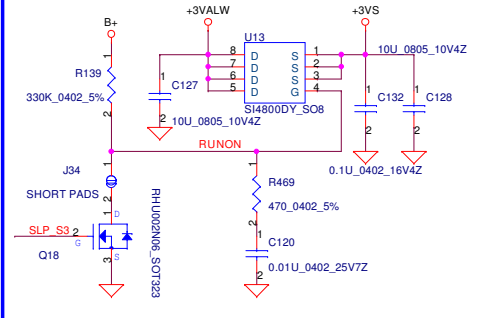
### +1.25VM to +1.25VS Transfer



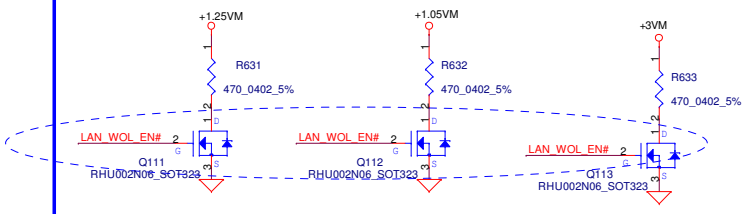
### +3VALW to +3VM Transfer



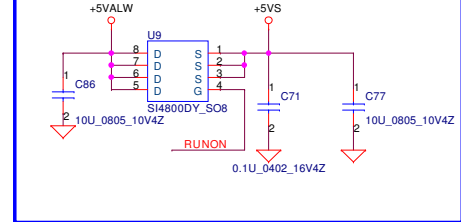
### +3VALW to +3VS Transfer



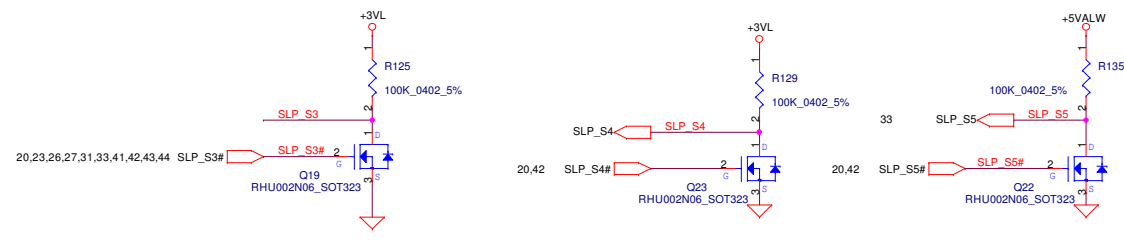
### Discharge circuit-2 for V-M



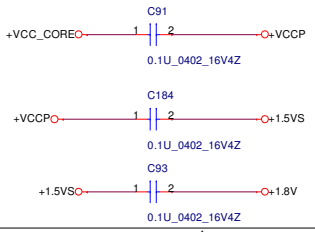
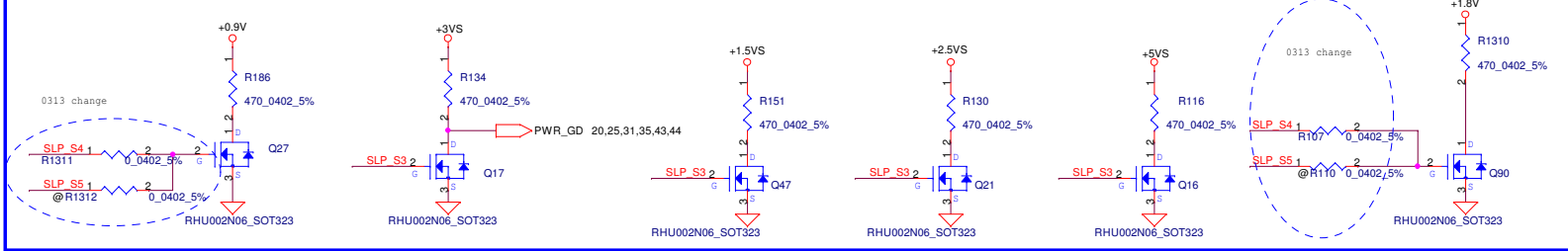
### +5VALW to +5VS Transfer



### 0718 Change net from PM\_SLP\_M# to LAN\_WOL\_EN#

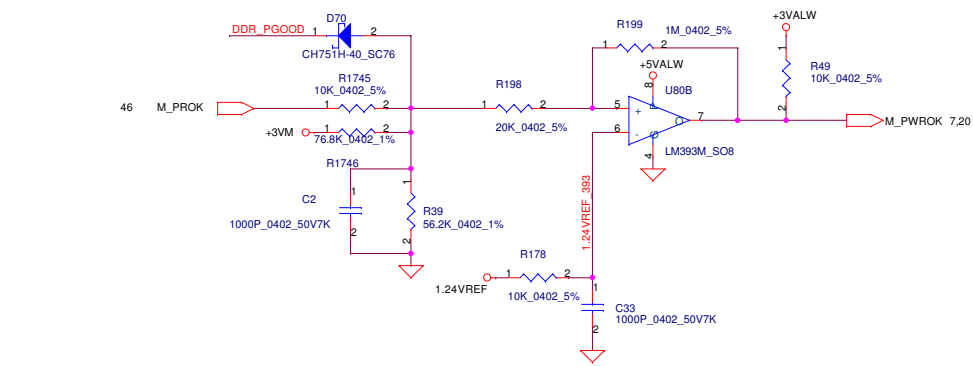
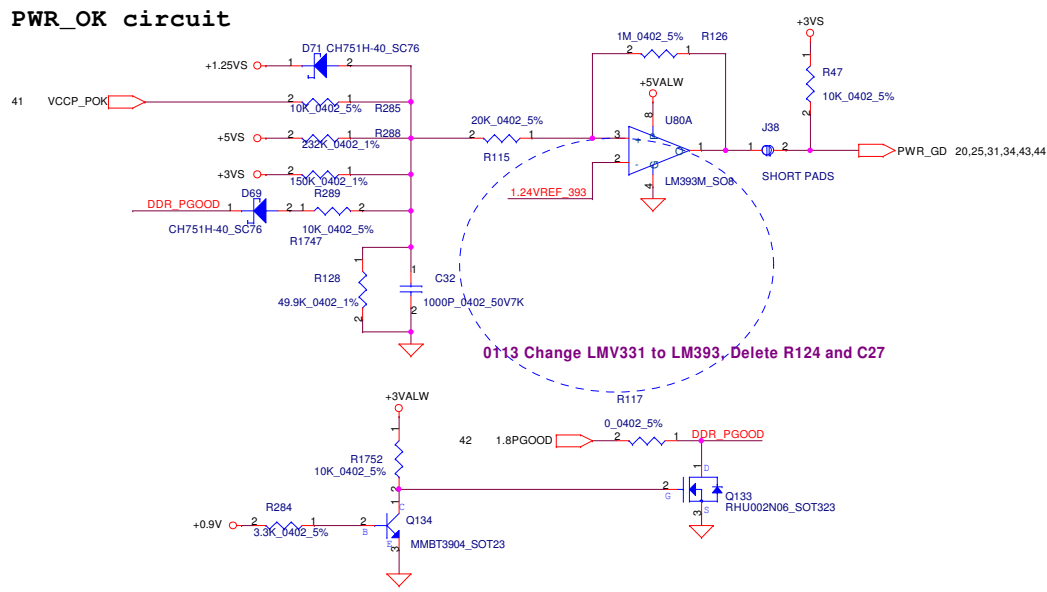


### Discharge circuit-1

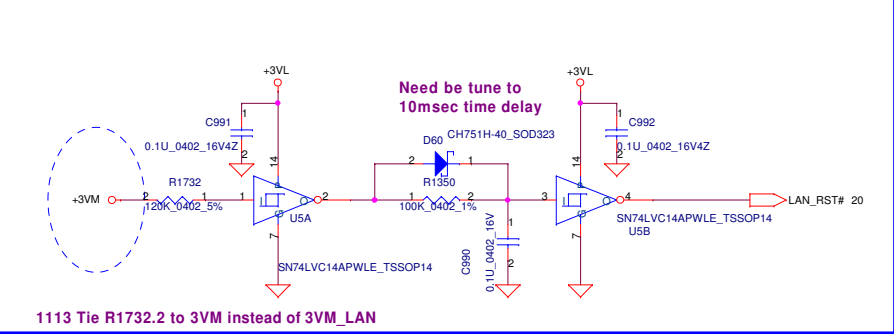


Security Classification		Compal Secret Data		Title	
Issued Date	2006/02/13	Deciphered Date	2006/07/26	DC/DC Circuits	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				LA-3261P UMA	
				Date:	Tuesday, March 27, 2007
				Sheet	34 of 55

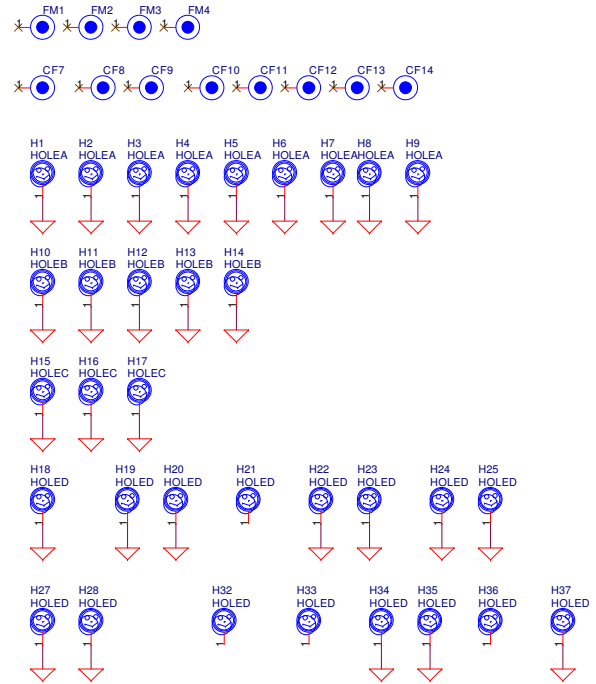
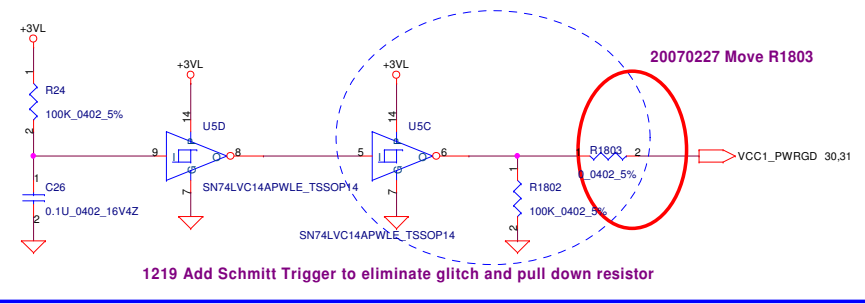
### PWR\_OK circuit



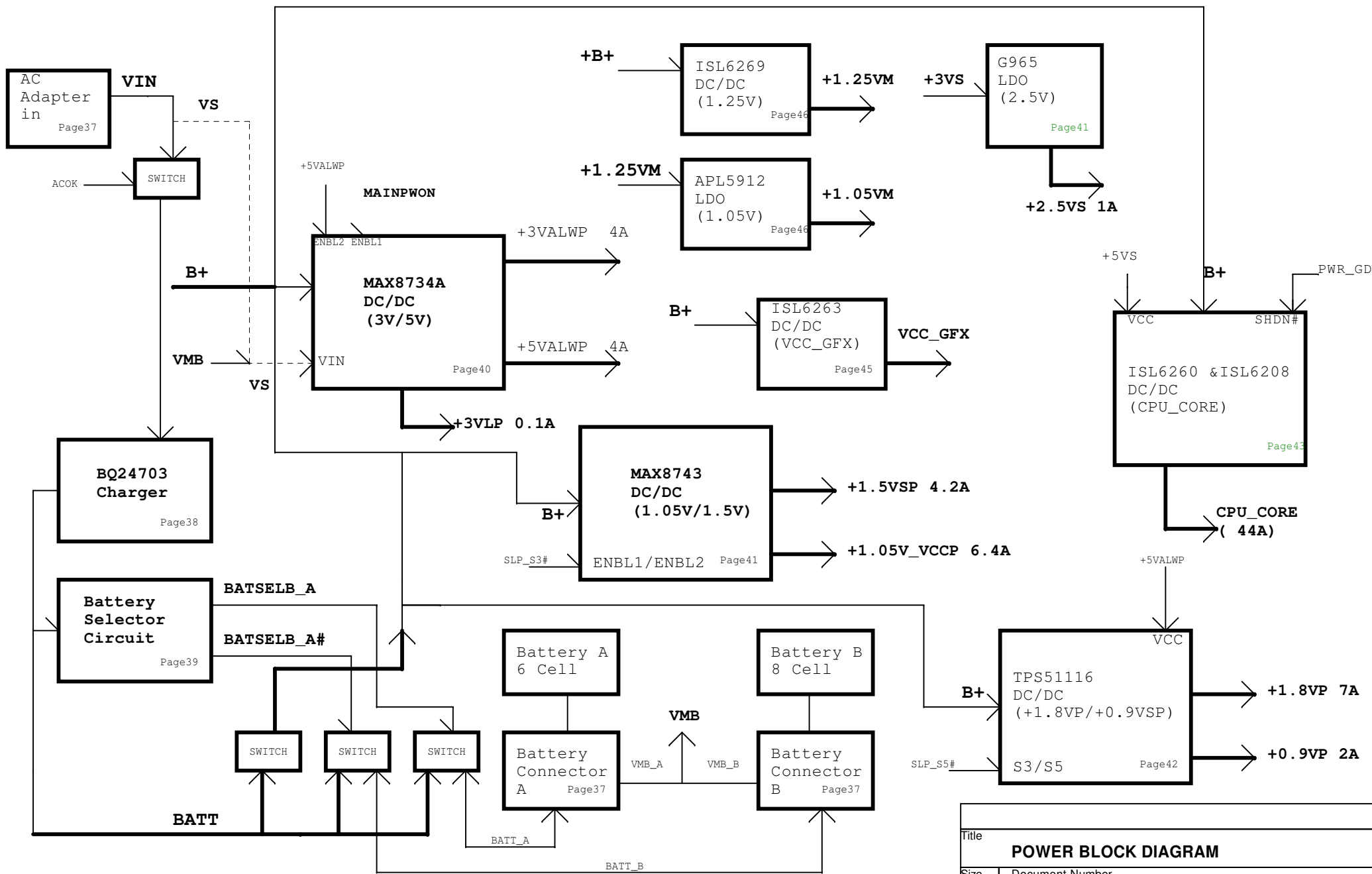
### LAN\_RST circuit



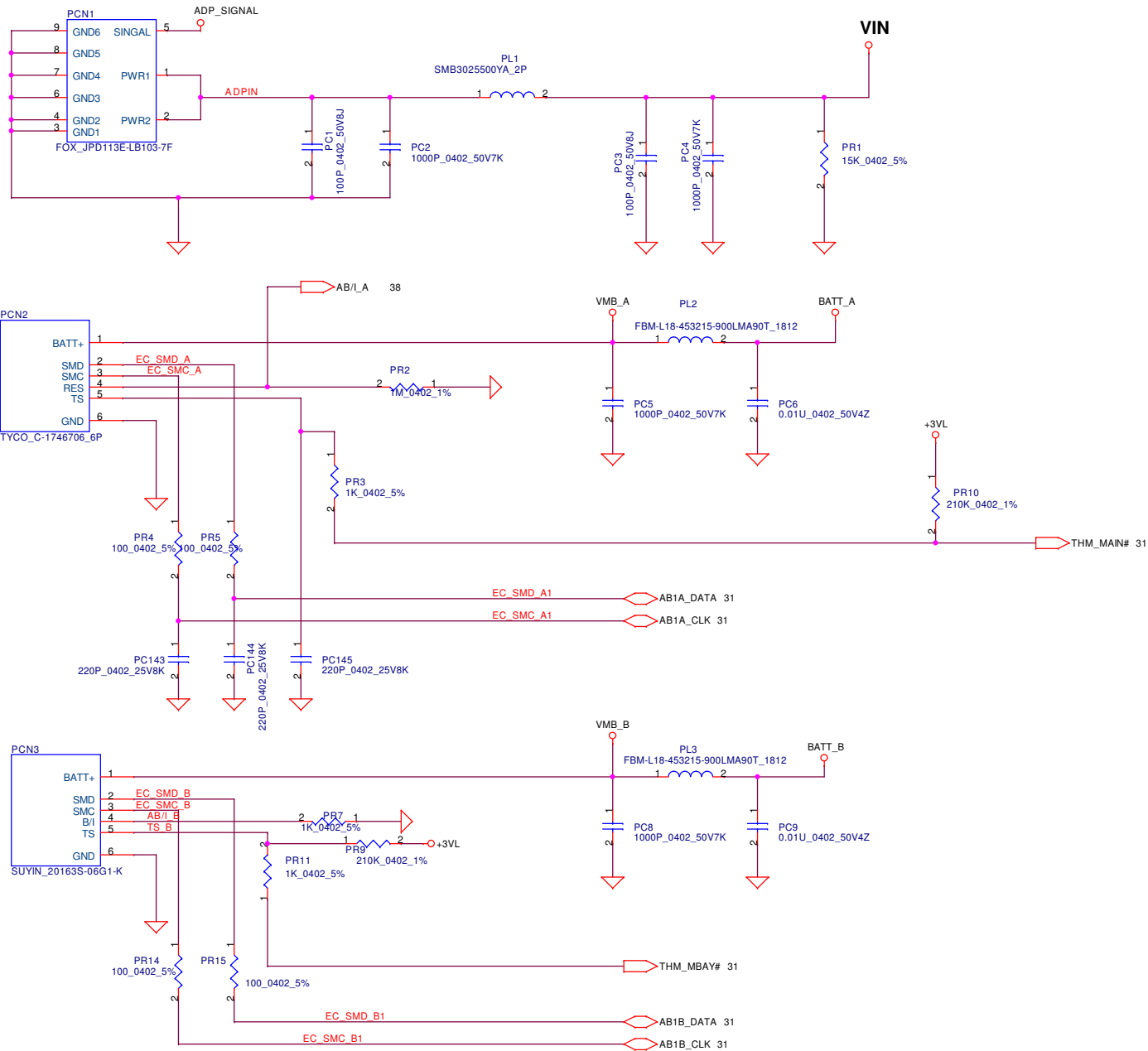
### KBC PWR\_OK circuit



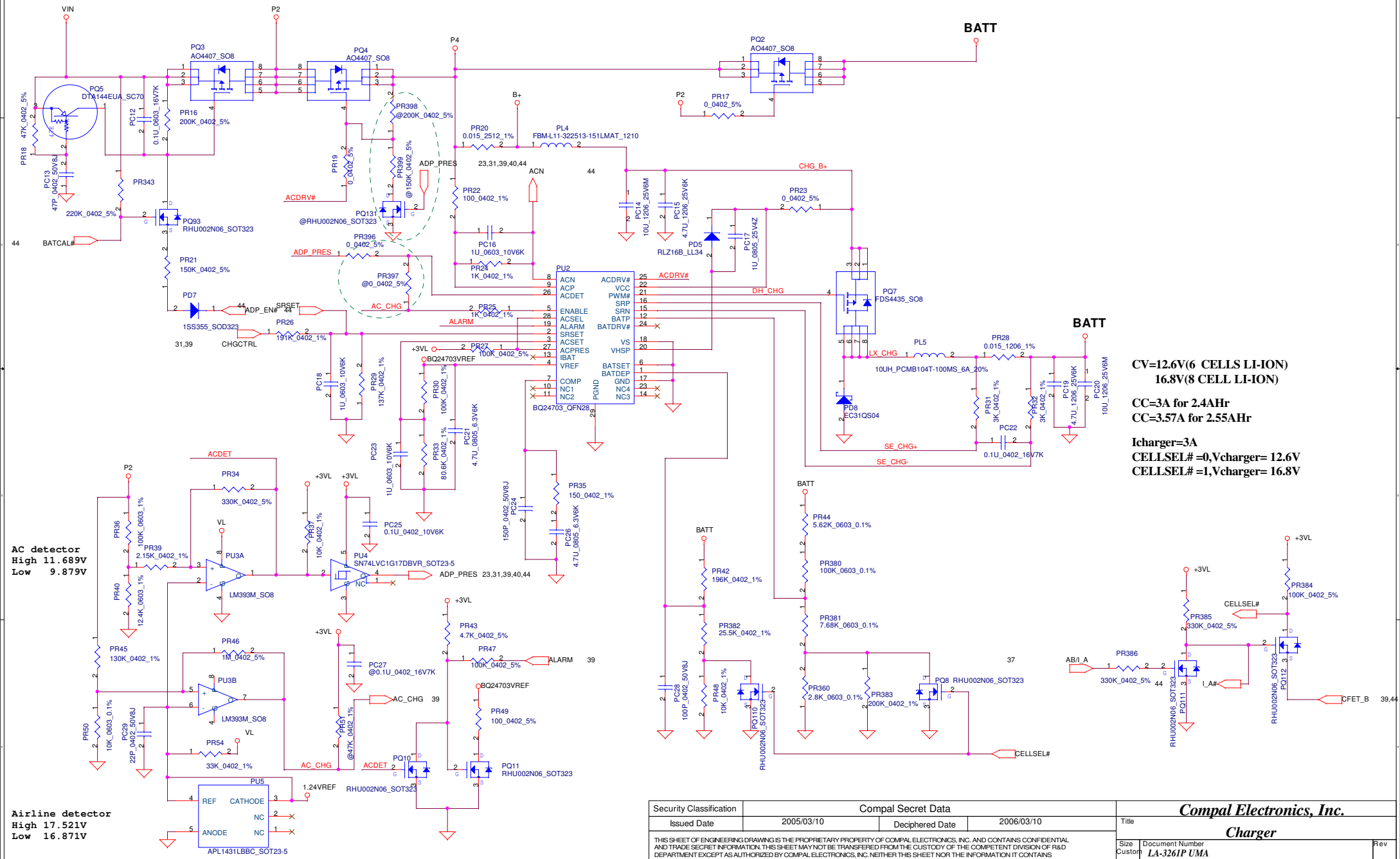
Security Classification	Compal Secret Data		Title	
Issued Date	2005/05/26	Deciphered Date	2006/07/26	Compal Electronics, Inc.
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size
Document Number			Rev	
LA-3261P UMA			0.4	
Date:	Tuesday, March 27, 2007	Sheet	35	of 55



Title		
<b>POWER BLOCK DIAGRAM</b>		
Size	Document Number	Rev
Date:	Tuesday, March 27, 2007	Sheet 36 of 55



Security Classification		Compal Secret Data		<b>Compal Electronics, Inc.</b> <b>BATTERY CONN</b>	
Issued Date	2005/03/10	Deciphered Date	2006/03/10		
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>				Size	Rev
				Customer	LA-3261P UMA
				Date:	Tuesday, March 27, 2007
				Sheet	37 of 55



**CV=12.6V(6 CELLS LI-ION)**  
**16.8V(8 CELL LI-ION)**  
**CC=3A for 2.4Hr**  
**CC=3.57A for 2.55Ahr**  
**Icharger=3A**  
**CELLSEL#=0,Vcharger=12.6V**  
**CELLSEL#=1,Vcharger=16.8V**

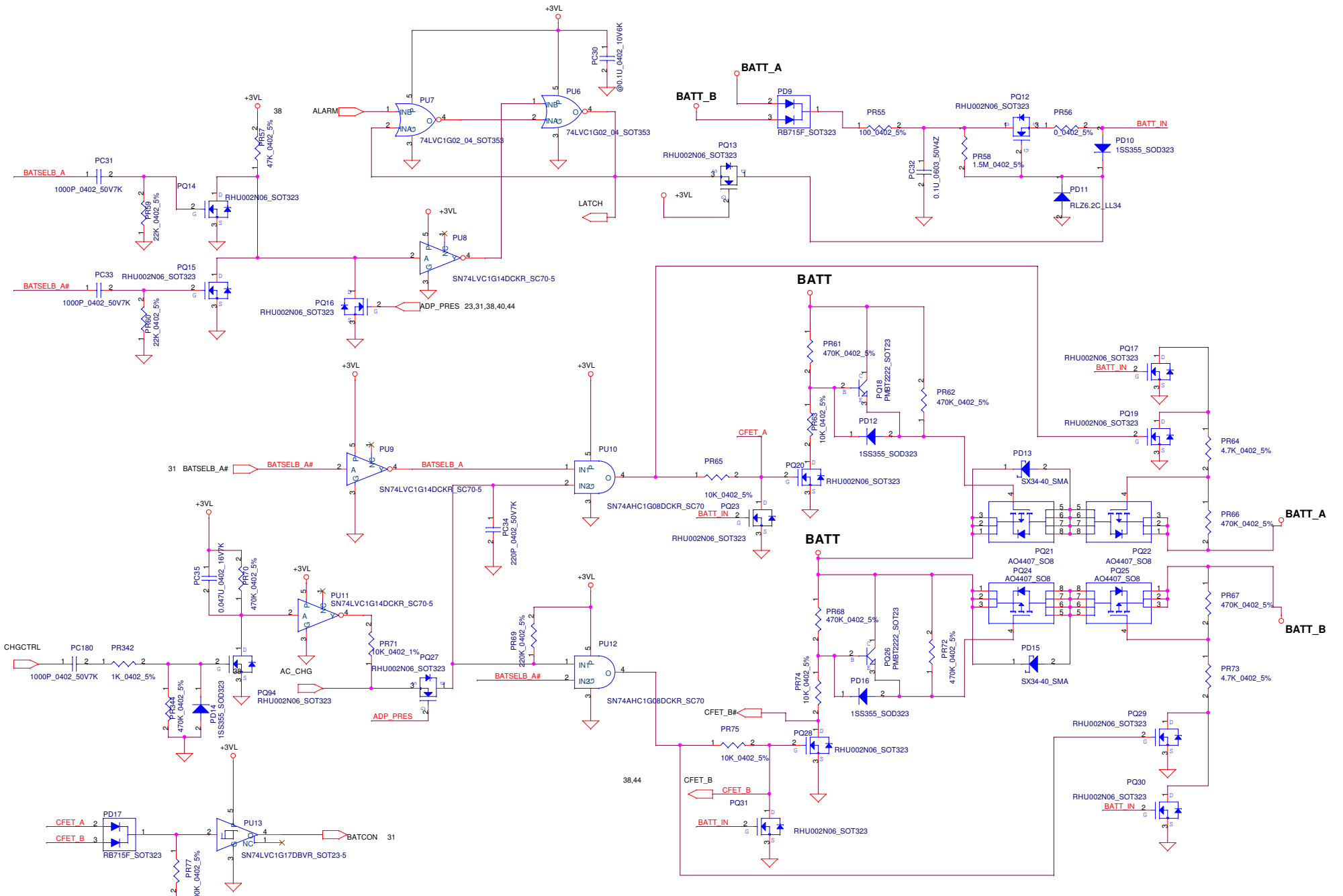
**AC detector**  
**High 11.689V**  
**Low 9.879V**

**Airline detector**  
**High 17.521V**  
**Low 16.871V**

Security Classification	Compal Secret Data	
Issued Date	2005/03/10	Deciphered Date
		2006/03/10
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>		

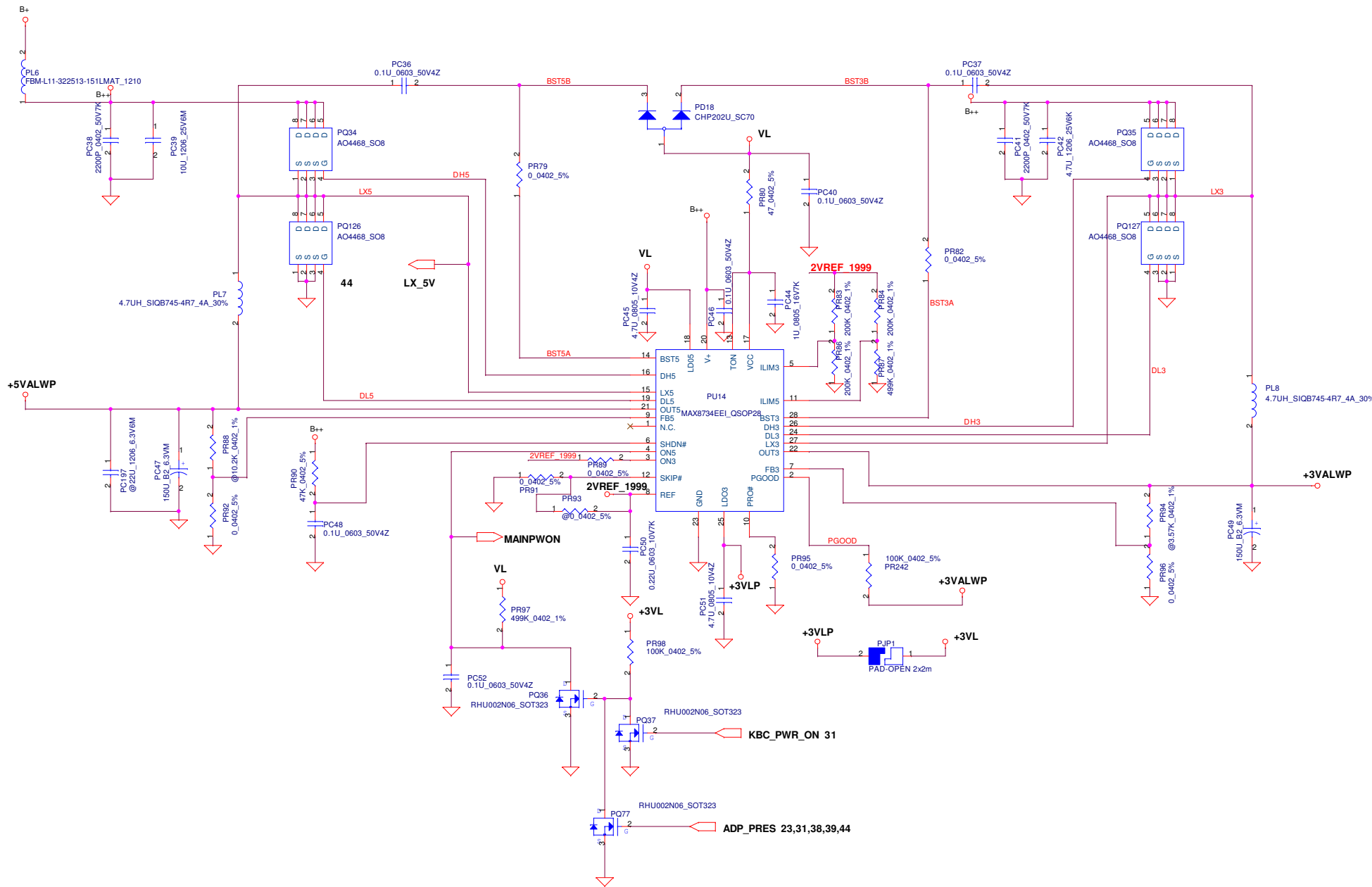
<b>Compal Electronics, Inc.</b>		
<b>Charger</b>		
Size	Document Number	Rev
Custom	LA-3261P UMA	
Date:	Tuesday, March 27, 2007	Sheet 38 of 55



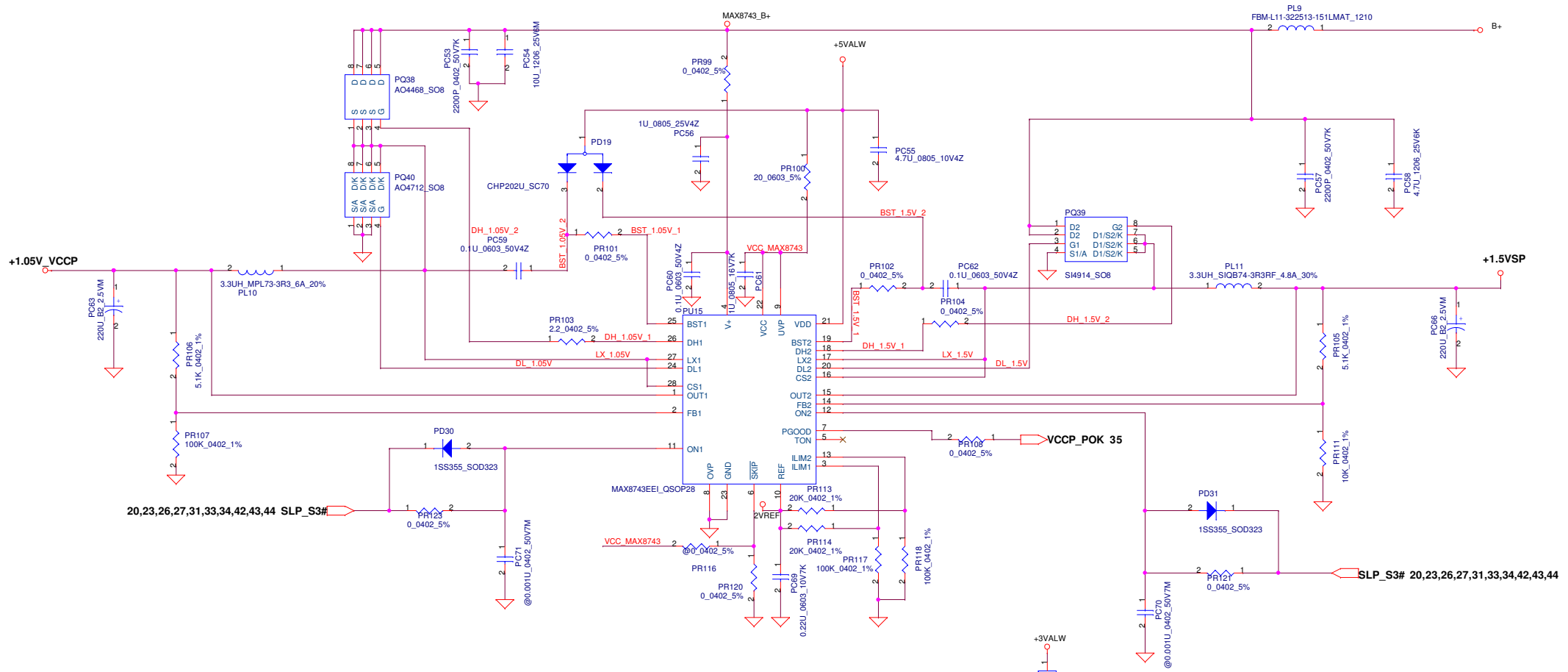


Security Classification	Compal Secret Data	
Issued Date	2005/03/10	Deciphered Date
		2006/03/10
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>		

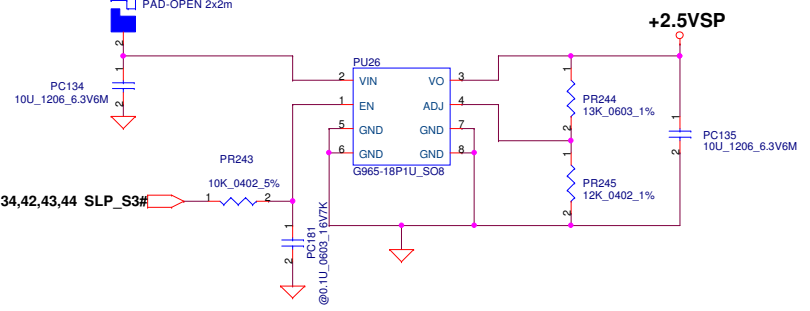
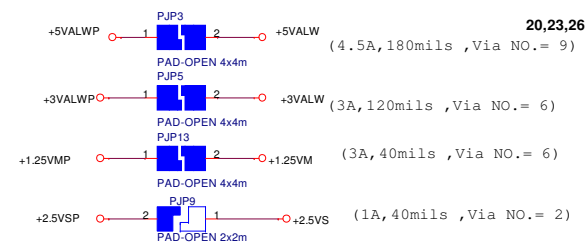
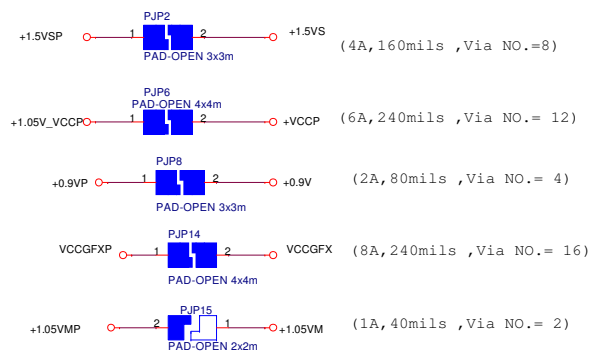
<b>Compal Electronics, Inc.</b>		
<b>Battery selector</b>		
Size	Document Number	Rev
Custom	LA-3261P UMA	
Date:	Tuesday, March 27, 2007	Sheet 39 of 55



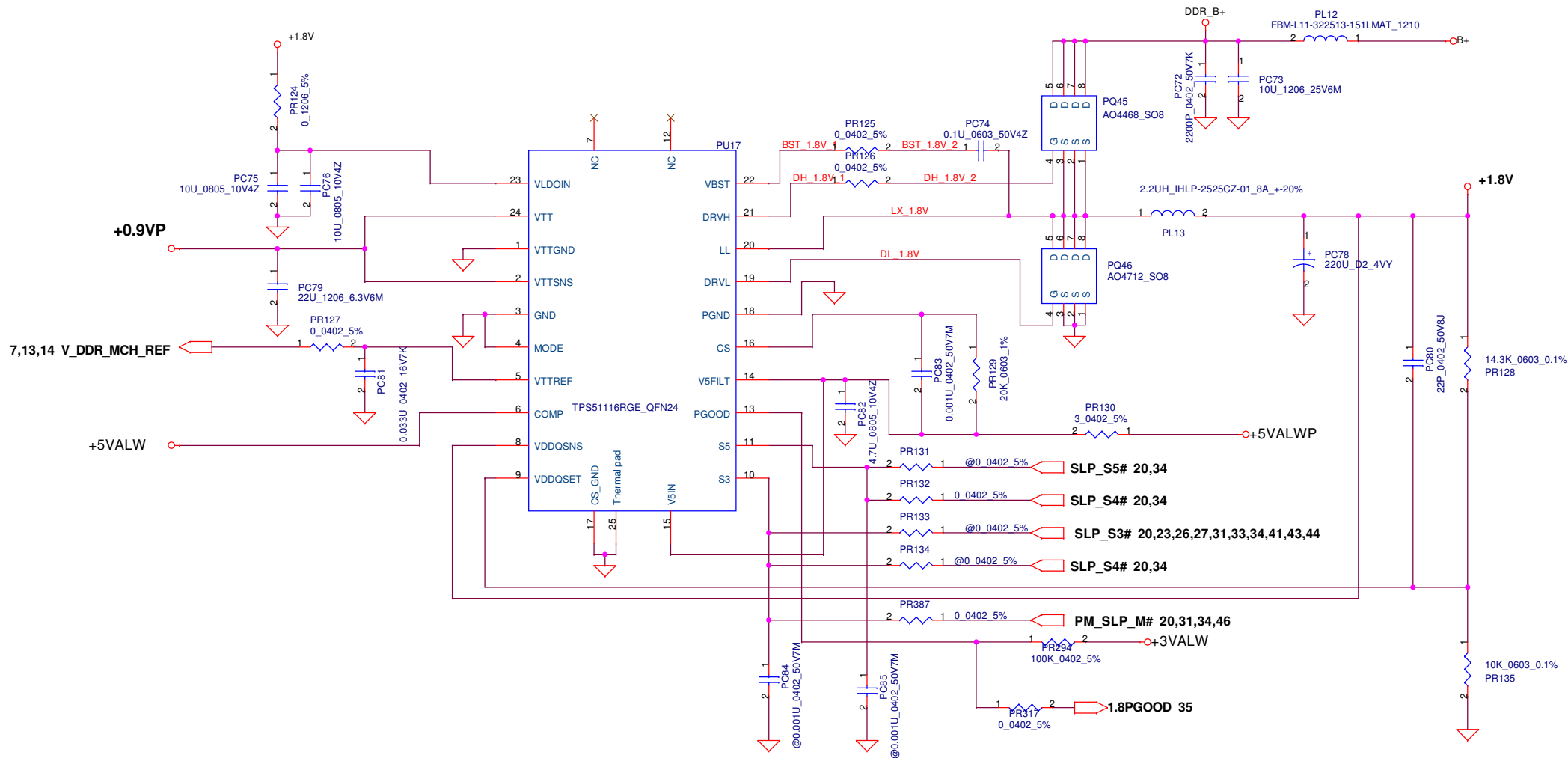
Security Classification	Compal Secret Data			Title	3.3V / 5V	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Size	Document Number	Rev
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				LA-3261P UMA		0.1
				Date:	Tuesday, March 27, 2007	Sheet



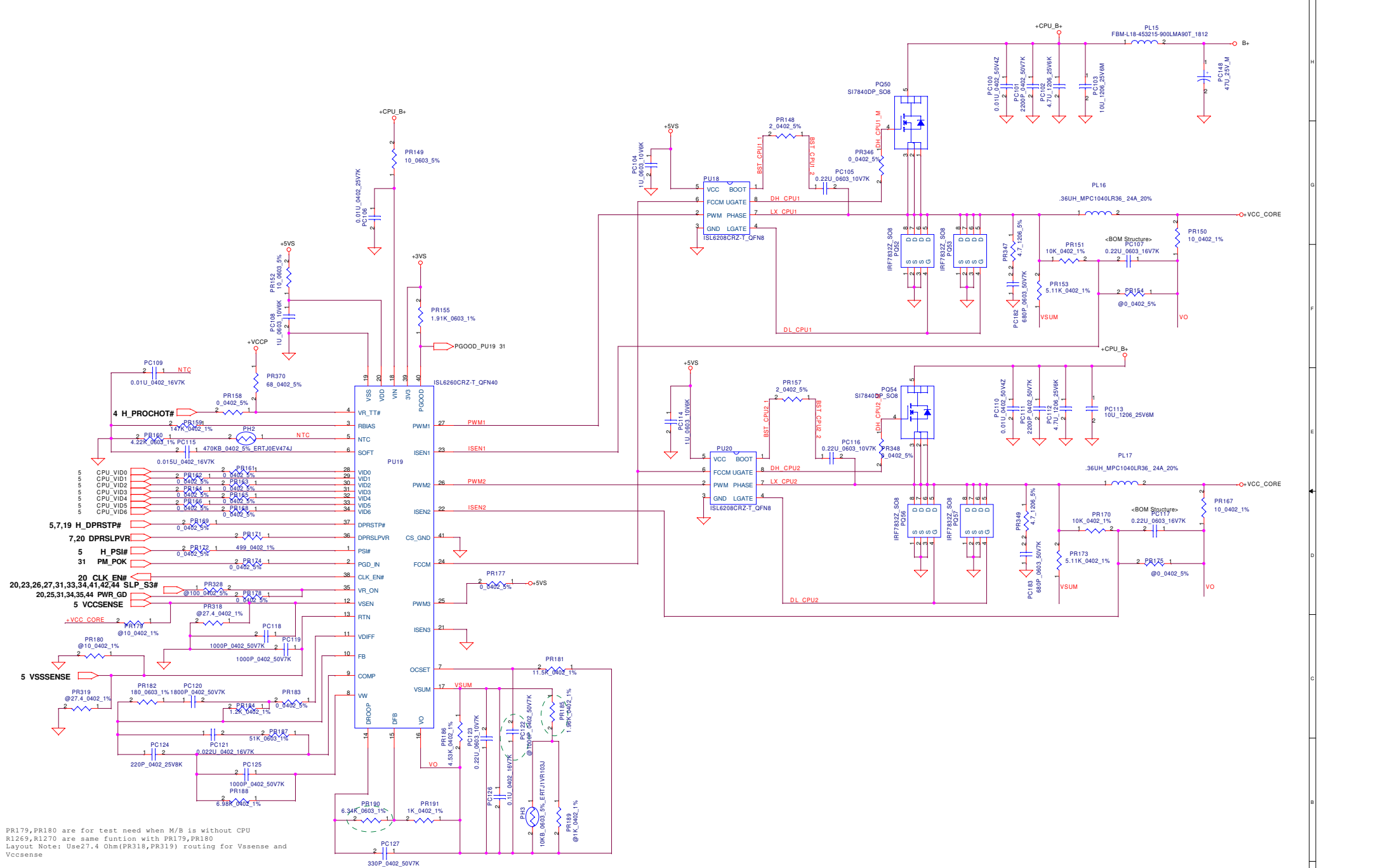
**1.5VSP/+1.05V\_VCCP/+2.5V**



Security Classification	Compal Secret Data		Title	
Issued Date	2005/03/10	Deciphered Date	2006/03/10	2.5VALW/1.5VS/1.05VCCP
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Rev
Size	Document Number	Customer	Date	
LA-3261P	UMA	LA-3261P	Tuesday, March 27, 2007	Sheet 41 of 55



Security Classification	Compal Secret Data			<b>Compal Electronics, Inc.</b> <b>1.8V/0.9VS</b>			
Issued Date	2005/03/10	Deciphered Date	2006/03/10			Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					Size	Document Number	Rev
					Date:	Tuesday, March 27, 2007	Sheet

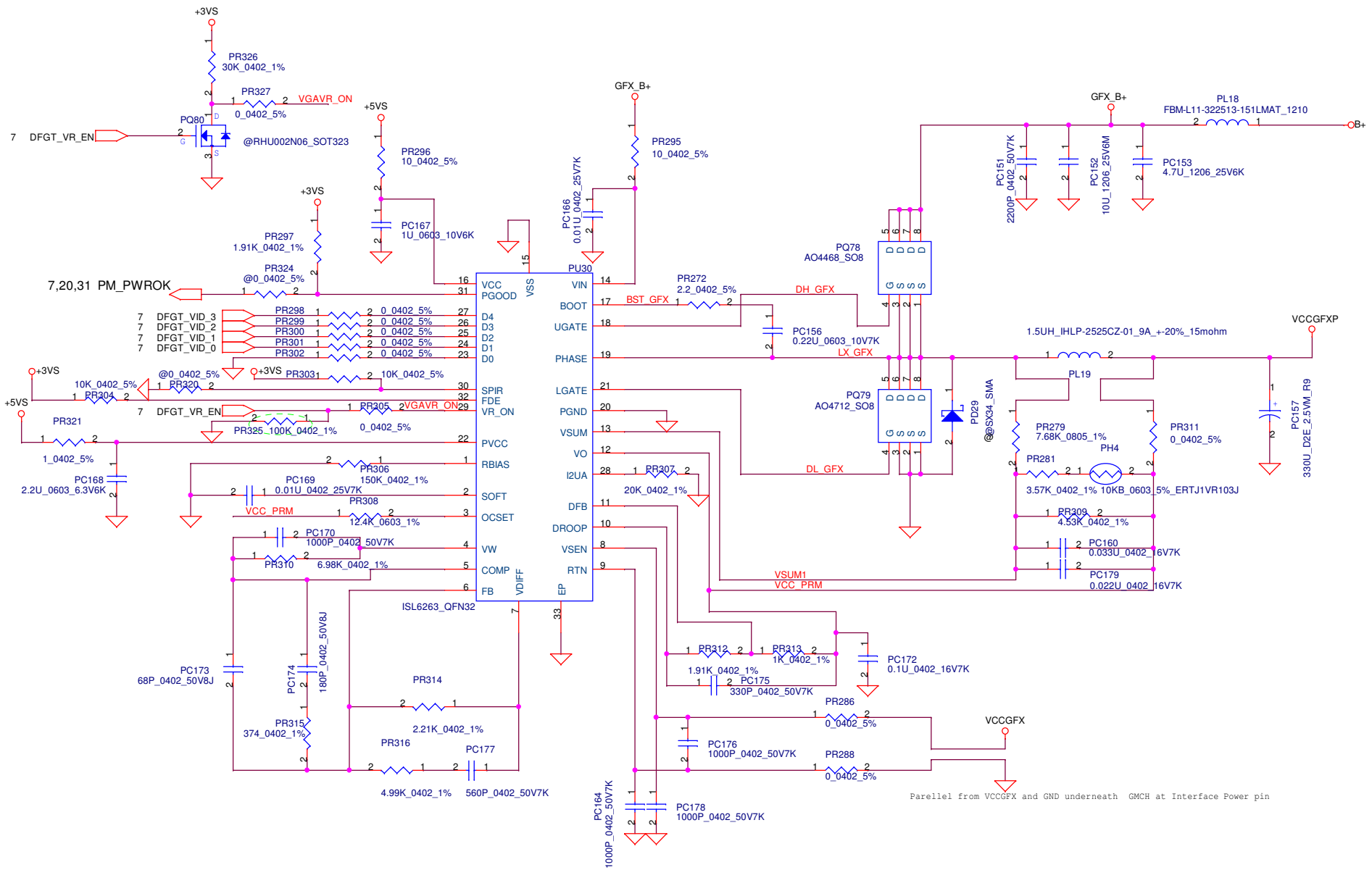


PR179, PR180 are for test need when M/B is without CPU  
 R1269, R1270 are same function with PR179, PR180  
 Layout Note: Use 27.4 Ohm (PR318, PR319) routing for Vssense and Vccsense

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/10	Deciphered Date	2006/03/10	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number
				LA-3261P_UMA
				Rev
				1
Date:	Tuesday, March 27, 2007	Sheet:	43	of 55







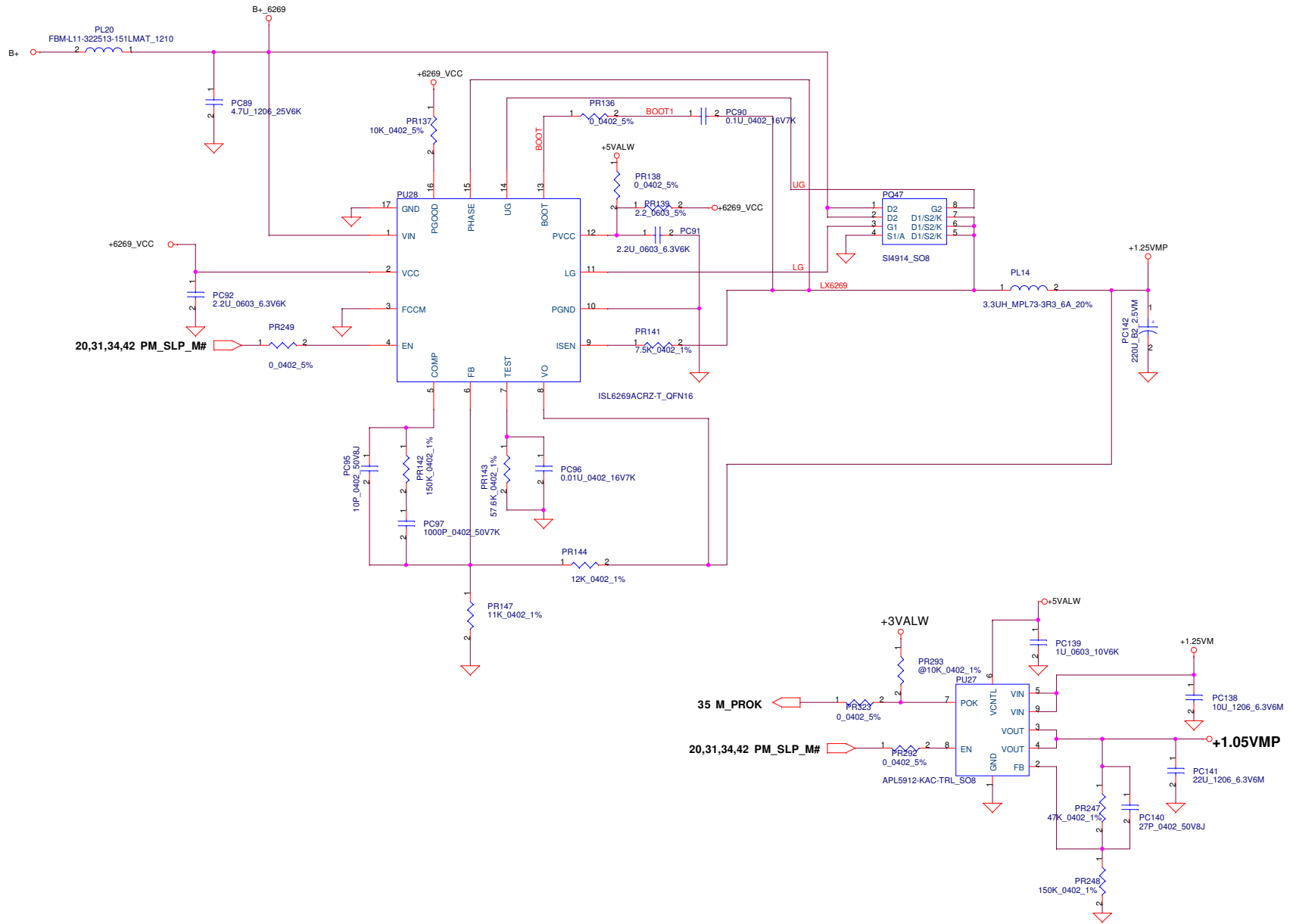
Security Classification	Compal Secret Data		Title <b>VCCGFX</b>		
Issued Date	2005/03/10	Deciphered Date			2006/03/10
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number <b>LA-326IP UMA</b>
Date: Tuesday, March 27, 2007				Sheet	45 of 55

**Compal Electronics, Inc.**

**VCCGFX**

Size B Document Number **LA-326IP UMA** Rev

Date: Tuesday, March 27, 2007 Sheet 45 of 55



Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/10	Deciphered Date	2006/03/10	+1.25VMP/+1.05VMP	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FR&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	LA-3261P_UMA
				Date:	Tuesday, March 27, 2007
				Sheet	46 of 55

# Version Change List ( P. I. R, List ) for Power Circuit (1)

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	Page42	1.8V/0.9V	3/9/2006	HP RL	Power Sequence	No install PR131 and install PR132 Change SLP_S5# at PR134.1 to SLP_S4# No install PR133 and install PR134 Add a 0 ohm resistor PR317 (no stuff) on M_PWROK	DB
2	Page45	VCCGFX	3/9/2006	Compal	MAX8776 VID table can't meet Intel VID SPEC	Change VCCGFX IC solution from MAX8776 to ISL6263	DB
3	Page43	CPU_CORE	3/10/2006	HP RL		Add 27.4 ohm pull-down (no stuff) on VCCSENSE & VSSSENSE near VR	DB
4	Page46	1.25VM/1.05VM	3/9/2006	HP RL	M_PWROK	Add a 0 ohm resistor PR323 (install) on M_PWROK change PR293 pin1 to +3VL	DB
5	Page46	1.25VM/1.05VM	4/10/2006	Compal	Correct 1.25VM voltage setting	Change PR144 to 12K and PR147 to 11K.	DB1-A
6	Page45	VCCGFX	4/10/2006	Compal	Power Sequence	Add a 0ohm PR324 (no stuff) on PM_PWROK	DB1-A
7	Page45	VCCGFX	4/24/2006	Compal	In S3 state, DFGT_VR_EN will no be actively driven, it is better to have a pull down resistor on DFGT_VR_EN.	Add a 30Kohm PR325	DB1-A
8	Page42	1.8V/0.9V	5/15/2006	HP MJ	Power Sequence	Change 1.5S to 1.8V in page 42 at pin 23 (VLDOIN)	DB1-B
9	Page46	1.25VM/1.05VM	5/15/2006	HP MJ	Power Good	Add PU34	DB2
10	Page38	Charge	5/15/2006	compal	For reducing charge temperture.	Change PL5 from 8.2uh MPL73-8R2 to 10UH_PCMB104T-100 Change PR28 from 0.015_2512 to 0.015_1206	DB2
11	Page43	CPU_CORE	6/5/2006	HP MJ	Power Sequence	investigate that SLP_S3# connect VR_ON and PM_POK connect PGD_IN	DB2
12	Page41	VCCP&1.5VS	6/5/2006	compal	Swap +1.05V_VCCP and +1.5VS location for improving power plane.	Change PR107 from 100k to 10K, PR111 from 10K to 100K.	DB2
13	Page37, 38, 44		6/22/2006	HP MJ	Chimay support for new battery cell chemistries	P38 : Remove PR52, PR38, PR41, PR53, P09 P39 : remove PR262, PR263, PR264, PR76, PQ75, PQ76, PQ32  P37: Add P081~P091 PR329~PR341, PD32~PD36 P38 :Add PD37 P44 :Add PQ92, PD38, PD39	DB2
14	Page41	2.5VALW/1.5VS /1.05VCCP	8/17/2006	HP MJ	For sequence fine tune	Add PC181 but not be installed	SI
15	Page43	CPU_CORE	8/17/2006	HP RL	Add 68ohm pull up to +VCCP at PU19.4 per Intel DG1.0 sec. 4.4.1.3 Figure 50	Add PR345 as 68ohm between +VCCP and PU19.4	SI
16	Page44	ADP_OCP	11/08/2006	HP RL	Identify 65W adapter as full adapter	Change PR223 from 180K to 182K, PR258 from 29.4K to 22.6K	SI2
17	Page43	CPU_CORE	11/08/2006	compal	For EMI concern, add snabber	Add PR349 and PR347 as 4.7ohm, Add PC183 and PC182 as 680pF Change boost resistor (PR148 and PR157) from 0 to 2 ohm	SI2
18	Page38	Charge	11/08/2006	compal	Base on "Energy STAR" spec, reduce S5 and S3 power consumption (AC mode)	Uninstall PQ11	SI2
19	Page42	1.8V/0.9V	11/13/2006	HP	Add PM_SLP_M# sequence	Add PR387	SI2

Security Classification	Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	PWR PIR Sheet (1)
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom
				Rev
Date: Tuesday, March 27, 2007			Sheet	47 of 55

# Version Change List ( P. I. R, List ) for Power Circuit (2)

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
20	Page43	CPU_CORE	2/28/2007	Compal	Fine tune CPU CORE solution	No install PC122 Change PR185 from 3K to 1.96K Change PR190 from 6.19K to 6.34K	MV
21	Page44	ADP_OCP	2/28/2007	HP	System identity	Change PR223 from 182K to 137K Change PR258 from 22.6K to 29.4K	MV
22	Page38	Charger	3/1/2007	Compal	Reserve circuit for testing Energy STAR	Reserve PR397, PR398, PR399 and PQ131 Add PR396 as 0 ohm.	MV

Security Classification	Compal Secret Data			Title	PWR PIR Sheet (1)	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Size	Document Number	Rev
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&amp;D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>				Date:	Tuesday, March 27, 2007	Sheet 48 of 55

For DBI-B

<2006.03.29>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Reserve resistors on Debug ports	30	Add R170, R201, R202 and CLR3 jopen	0.2
2	SATA footprint is wrong	SATA connector's PCB footprint is wrong	22	change to OCTEK_SAT-22DD1G_22P	0.2

<2006.04.10>

1		follow Intel suggestion for XDP_DBRESET#	4, 20	R243 no install and R1589 install (XDP_DBRESET#)	0.2
2		Change component' s footprint for supply and layout easy	07	R1443 change from 0603 size to 0402	0.2
3		+VCC_PEG should be 1.05V instead of 1.25V for Creatline	10	R1465 install and R1467 no install	0.2
4		Monitor NB cracked pins	11	Add Q118, Q119, Q120, Q121, Q122, Q123, R1700, R1701, R1702 R1703, R1704, R1705, R1706, R1707, R1708, R1709, R1710, R1711	0.2
5		Monitor SB cracked pins	21	Add Q124, Q125, Q126, Q127, R1716, R1712, R1713, R1717 R1718, R1714, R1719, R1715	0.2
6	SPI BIOS can not flash.	For SPI BIOS flash issue	23	Delete Q102, R178 and Q115 Q102 pin1 short to pin3-->+3VM connect to +3VM_LAN PLT_RST# connect to PM_LAN_EN	0.2

<2006.04.21>

1		For LAN link status	18	change PCI_PIRQG to LED_LINK_LAN# and add R1727 0 ohm	0.2
2		For LAN active status	23	Add LED_ACT_LAN# this net	0.2
3		For ADP_PRES new design	20	add D68 and disconnect LED_LINK_LAN#	0.2
4		For LAN net name	19	change net name from LAN_RST to LAN_RSTSYNC change net name from LANLINK_STATUS# to LED_LINK_LAN#	0.2
5		For Compal Fan design	4	change Fan connector pin 1 and pin4	0.2

<2006.04.24>

1		For NIC RST	20 35	change net name from PM_LAN_EN to LAN_RST# Add a Resister R1722( 0 ohm), R1732, R1731(no install) change net name from PGD_IN to LAN_RST# Install C991, C990, C992, D60, R1350 Adjust C990 and R1350 value to 0.1uF and 100K ohm.	0.2
---	--	-------------	----------	---	-----

For DBI-C

<2006.05.15>

1	System can not power on	For RTC CLK	19	add R1733	0.3
2	LAN can not work	For LAN function	23	modify LAN relative schematics	0.3
3		For PWR OK	35	Change R124 pin2's voltage from 0.9v to 1.24VREF Change R1732 pin2's voltage from 3VM to 3VM_LAN	0.3

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-3261P UMA
				Date	Tuesday, March 27, 2007
				Sheet	49 of 55

For DB2  
<2006.05.29>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Add new feature (Kill switch)	22	Add R1736, jp53, R1737 and Q129	0.4
2		modify CRACK_GPIO28 circuits	11 21	delete R1700, R1707, R1705-->NB delete R1712, R1713, R1714-->SB	0.4
3		Change pull up for CK505 strapping	15	on R1108, R1690, R1245 from +3.3VM_CK505 to +3VS	0.4
4		for LAN IVRI thermal protect and limit current.	23	add R1	0.4
5		Add resisters for GPI pins floating	20	addR3, R6, R9, R11, R15	0.4
6		Change KBC RST pin	31	change from PLT_RST# to NCPI_RST#	0.4
7		Change to USB port assignments	28	Move Dock1 from USB8 to USB7 and move WWAN from USB3 to USB8	0.4
<2006.06.12> 1		New PCIE assignments	20	Updated Changes: PCIE - port1 = Free PCIE - port2 = WLAN PCIE - port3 = Free PCIE - port4 = Robson PCIE - port5 = Docking PCIE - port6 = Intel LOM is fixed at this location	
2		Change SW design to Capsense SW.	32	Change SW Connector JP18 type and relative circuits	
3		Add new feature (Robson)	15	Add R5, R13 on SRC6 and R14, R17 on CLKREQ_E#	
4		Change GPIO pins	18 20	change GPIO4(SB) from LED_LINK_LAN# to PCI_PIRQG# change GPIO1(SB) from CB_PE# to LANLINK_STATUS#(i)	
5		Change HP debug port power source	30	Add R1740, R1741 and connect to +3vs	
6		Change KBC 1070 GPIO pins	31	CRACK_GPIO28 from GPIO28(KBC) to GPIO8(KBC) add R155, R156, R18, R20 and their signals connect to JP18 Add Cap_INT on GPIO25(KBC)	
7		change WALN power source	25	change from +3valw to +3vM	
8		Change U75 power source for LAN function	23	U75 should be powered by V3.3M instead of 1.8VM	
9		Change USB power switch control pin	28	From S5 to S4_STATE# to control USB power	
10		For support 2GB DIMMs	7 13, 14	BJ29 pin and BE24 pin (NB)connect to DDR DIMMA, B(A14 pin)	
11		For Crestline sightings requires	7	add a 0ohm R1759 on pin N20(NB).	
<2006.06.14> 1		Modify PWROK circuits for All power source check	35	Change R1732 pin2's voltage from 3VM to 3VM_LAN	

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-3261P UMA
				Date	Rev
				Tuesday, March 27, 2007	0.4
				Sheet	50 of 55



For DB2

<2006.06.19>

<2006.06.20>

<2006.06.21>

<2006.06.22>

<2006.06.23>

<2006.07.18>

<2006.07.31>

<2006.08.09>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Add Intel RSMRST circuit	31	Add R1749, R1750, R1751 and Q131, D68	0.4
2		Change resister value meet G-vendor suggestion	25	change R1359, R1362 VALUE	0.4
3		Kill switch design change	22	change R1736 pin2 contact to +RTCVCC	0.4
1		Change PWR_OK circuit	35	delete R157 and PGD_IN net	0.4
2		Reserve resister on HDA_RST#_MDC	32	Reserve R1753 0 ohm	0.4
3		delete two components on Debug part 21	30	delete R1740, R1741	0.4
4		Control Audio volume when boot	28	add EAPD link to KBC GPIO31	0.4
5		Add new feature -->Robson	25	Add and change JP13 pin assignment for Robson	
6		Fix LAN power circuit to IVRD	23	Delete R1 (0.68ohm), R1624, and install R1734	
7		improve LAN Power ripple	23	Add C1364, C1363 on +3V_LAN and +1.8VM_LAN	
8		improve DVI issue	16	Add SDVO_CLK/Data net name to NB SDVO_CLK/ Data pins	
1		Change USB control signal	28	Change control signal name to S4_STATE and add Q132	
2		Isolate power noise for NB	10	change R1453, R1456 from Resister to bead	
1		Hold RESET to modem	32	Install R1753	
2		Enable WLAN for AMT	25	Install R194, R195 and R197	
3		Improve TV-out signals and fix TV garbage issue	10	change R175, R176, R177 from150 ohm to 75 ohm	
4		follow Intel Demo circuit for XDP	28	Change pull up R1589 value for XDP_DBRESET# from 10K to 1K	
1		Chnage Fan Connector pins' count	4	Chnage JP8 from 4pins to 3 pins.	
2		delete MDC disable reserve part	32	delete U43B	
3		Implement STB_LED# driver	31	add U43B	
4		Modify power OK circuit	35	add Q134, Q133, R39, C2 Delete R286, R127, C30, R117, R35, R34, R118, U79	
5		For Non-link part (INV_PWM from KBC to LCD)	17	delete R131	
6		Delete Repeated function circuit	11	Delete D21,R520	
1		For C-status	20	Install R179	0.5
2		For discharge issue	34	Change discharge circuit net from PM_SLP_M# to LAN_WOL_EN#	0.5
3		HP request	31	Install R155,R156 and un-install R127,R157	0.5
1		Do not support wake on WWAN card	25	Install R1383 and no install R1382	0.5
1		Add anti-pop circuit	26	Add anti-pop circuit	0.5
2		Eliminate glitch	20	Add R1767, no install R434, C1365, R1757	0.5

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	LA-3261P UMA
				Date:	Tuesday, March 27, 2007
				Sheet	51 of 55
				Rev	0.4

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
3		HP request	32	Connect JP18 pin1 to +3VL, pin2 to +3VS	0.5
4		EMI request	24	Add D72 and D73 for EMI request	0.5
5		Add MAX9511	9, 16, 33	Add MAX9511	0.5
<2006.08.11> 1		For OTS 214499	31	Add U82	0.5
2		HP request	25	No install R1418, R1358, R1359, R1360	0.5
3		HP request	25	JP44 PIN37, 43 connected to GND JP44 PIN39, 41 connected to +3VS	0.5
4		HP request	25	Isolate SLOT power from SYSTEM power.	0.5
5		HP request	25	Remove 1.5V from WWAN slot	0.5
6		HP request	25	Install schottkey diode D74	0.5
7		SIM I/O pull-up footprint is requested.	25	Add R1780 and no install	0.5
<2006.08.21> 1		HP request	25	change +3VS to +3VS_WLAN ,Change +3VS on R1383.2 to +3VS_WWAN Change +3VS on R1071.1 and R1703.1 to +3VS_WWAN	0.5
2		HP request	9	Changes for MAX9511	0.5
3		HP request	25	Remove SW1, C986, R521, D65, R200	0.5
4		HP request	30	Need to connect SPI_HOLD#_0 and SPI_HOLD#_1 together.	0.5
5		HP request	31	Item 191, 192, 193	0.5
6		HP request	25	Install R1363 and NO INSTALL R1364	0.5
<2006.08.23> 1		HP request	19	Move D75 to SB and delete R1782	0.5
2		HP request	25	Add 1394 signals on M/B	0.5
<2006.08.25> 1		HP request	25	Add a 0 ohm 0805 on 1.5VS to WLAN mini card connector	0.5
2			20	Swap GPIO01 and GPIO11 connections.	0.5
<2006.08.29> 1		OTS issue	32	Change JP18 pin8 to WL_BLUE_LED#	0.5
<2006.08.30> 1			16	Change R142, R144 to 3.9K ohm	0.5

Security Classification	Compal Secret Data			Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA3261P_UMA
				Date:	Tuesday, March 27, 2007
				Sheet	52 of 55
				Rev	0.1

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
3		Intel update	7	Add R1786,R1787,R1788,R1789	0.5
<2006.09.01> 1		HP request	32	Remove R23 and NPCI_RST# connection Remove PLT_RST# connection to R21.2 and connect GPIO28 from ICH8	0.5
<2006.09.04> 1		EMI request	28	Add R1790,R1791,R1792	0.5
<2006.09.06> 1		HP request	23	Change C1257 and C1359 to 10uF 0805	0.5
2		HP request	25	Remove R1412,1413,1414,1415,1416,1417	0.5
3		HP request	25	Remove R1418,1358,1353,1360	0.5
4		HP request	30	Add 0 ohm for SPI, R1793,1794,1795	0.5
<2006.10.13> 1		HP request (MAX9511 issue)	9,16,33	Remove MAX9511 from CRT circuit	0.6
2			11,21,31	No install BGA crack circuit	0.6
3			32	Change KB connector	0.6
<2006.10.31> 1			31	Change RSMRST circuit, add R1796	0.6
<2006.11.01> 1		Auto power on issue	20	Auto power on issue(add Q140, R1797)	0.6
2		1394 issue	28	Modify EMI request	0.6
<2006.11.03> 1		HP request	32	Connect JP32 pin2 to +3VS	0.6
<2006.11.07> 1		HP request	31	Install R1784, no install R1783	0.6
2		Intel document	10	Change R1471 to 100 ohm	0.6
<2006.11.09> 1		Layout space	22	Remove kensinton circuit	0.6
<2006.11.11> 1		HP request	15	Add CLRP4 and CLRP5 for FSB 667/800 select	0.6
<2006.11.13> 1		HP request	35	Tie R1732.2 to 3VM instead of 3VM_LAN	0.6
2		HP request	24	Change R1639 to 1.4K based on Intel WW44	0.6
3		HP request	4	Add resistors in series with the diode signals going to ADM1032.	0.6
4		HP request	31	Eliminate glitch circuit, install R1483 and no install R1484	0.6

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	LA3261P_UMA
				Date:	Tuesday, March 27, 2007
				Sheet	53 of 55
				Rev	0.1

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
<2006.11.16> 1		HP request	10	Change R1468, R1472, R1473 to bead	0.6
2		HP request	24	Change R1639 to 1.87K ohm	0.6
3		HP request	27	Change R261 and R253 to 56.2 ohms 1%.	0.6
<2006.11.28> 1		HP request	23	Install Q102,R1730, no install R1612,Q104,Q105.	0.6
2		HP request	7	Install R1739	0.6
<2006.12.19> 1		HP request	35	Add Schmitt Trigger to eliminate glitch	0.7
2		HP request	31	Install R1646,C75	0.7
3		HP request	19	Update GPIO33 circuit	0.7
<2006.12.26> 1		HP request	7	Add C and no install	0.7
2		Chrontel request	16	Add C for DVI I2C	0.7
<2007.01.02> 1		ME request	25	Change JP50 for rewrok	0.7
<2007.01.04> 1		Intel request	23	Add R1804	0.7
2		ME request	32	Change JP20 to FFC connector	0.7
<2007.01.08> 1		EMI request	33	Add R1805,R1806 0 ohm, reserve C1372, C1373	0.7
<2007.01.10> 1		HP request	31	R1783 connected to +3VL	0.7
<2007.01.13> 1		Compal request	35	Change LMV331 to LM393, delete R124 and C27	0.7
<2007.01.15> 1		HP request	26	R370, R369 - change from 4.7k to 6.04k R374, R375 - change from 4.7k to 2.00k	0.7
<2007.01.16> 1		HP request	25	Connected R1780.2 to UIM_PWR	0.7
<2007.01.17> 1		HP request	30	Add pad for BIOS debug	0.7
<2007.01.19> 1		HP request	34	Add R1807 and no stuff	0.7
2		CRT wavy issue	10	Add C1374 for CRT wavy issue	0.7
<2007.02.09> 1		CRT wavy issue	17	Add 10uFX2 for CRT wavy issue (C586, C1376)	0.9

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA3261P_UMA
				Date:	Tuesday, March 27, 2007
				Sheet	54 of 55
				Rev	0.1

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
<2007.02.09> 2		HP request	30	Add Q142 for FPR	0.9
<2007.02.16> 1		+3VM_LAN leakage	20	Add U83 for auto boot and leakage issue	0.9
2		Compal request	15	Delete CLPR4, CLRP5	0.9
3		HP request	34	Install R1807 and non install R630	0.9
4		LVDS sequence issue	17	Change C28 to 0.1uF	0.9
5		HP request	31	Add R1809 to GND	0.9
<2007.02.26> 1		Safety request	33	Change RJ11 connector	0.9
<2007.02.27> 1		HP request	27	Change R261 and R253 to 60.4 ohm	0.9
2		HP request	35	Move R1803	0.9
<2007.02.28> 1		HP request	11,21	Change to +3VL	0.9
<2007.03.01> 1		HP request	10	CRT wavy issue -- add C1374	0.9
2		HP request	15	Add CAP for WWAN issue	0.9

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA3261P_UMA
				Date:	Tuesday, March 27, 2007
				Sheet	55 of 55
				Rev	0.1