ZZZ1
PCB

PJP1
14W_DCIN
14W_45@

PJP1
15W_DCIN
15W_45@

12/21 Add PJP1 for DCIN Cable on 45 Level
One for 14W DCIN , PN: DC301001Y00
Another for 15W DCIN , PN: DC301001V00

Compal Confidential

IFTxx Schematics Document

Intel Merom Processor with Crestline + DDRII + ICH8M

(With nVIDIA MXM/B)

2006-1-31

REV: 0.3

Compal Electronics, Inc.

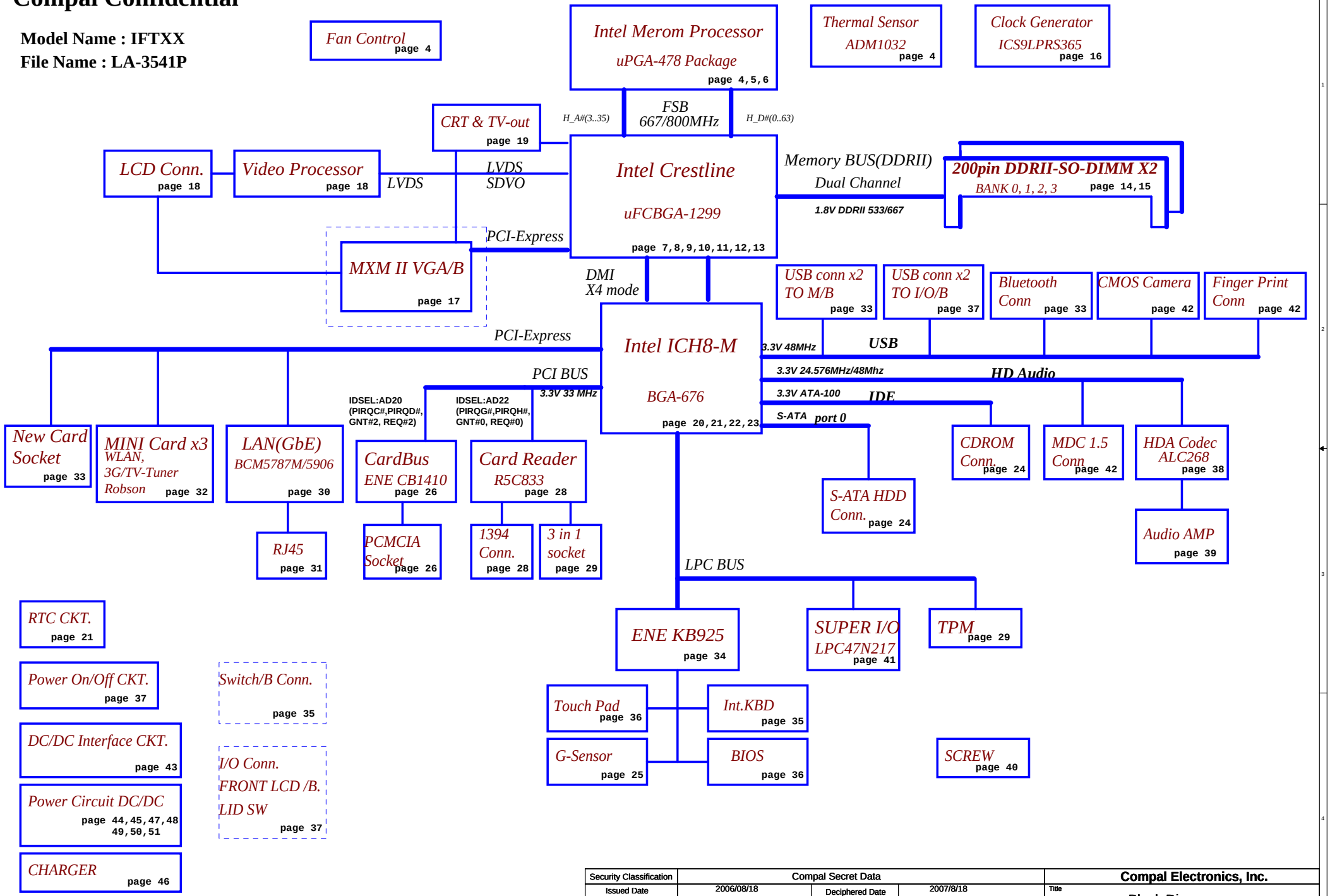
Title: Cover Page

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0.3

Date: Friday, February 09, 2007 | Sheet 1 of 53

Compal Confidential

Model Name : IFTXX
File Name : LA-3541P



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Block Diagrams

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0.2

Date: Thursday, February 08, 2007 Sheet 2 of 53

Voltage Rails

Power Plane	Description	S1	S3	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
+0.9VS (Actual +0.9V)	0.9V switched power rail for DDR terminator	ON	ON	OFF
+1.05VS	1.05V switched power rail	ON	OFF	OFF
+1.25VS	1.25V switched power rail	ON	OFF	OFF
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8V	1.8V power rail for DDR	ON	ON	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+2.5VS	2.5V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+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
+VSB	VSB 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 #	PIRQ
CARD BUS CB1410	AD20	2	C,D
1394+Cardreader	AD22	0	G,H

EC SM Bus1 address

Device	Address
Smart Battery	0001 011X b
EEPROM(24C16/02)	1010 000X b

EC SM Bus2 address

Device	Address
ADI ADM1032	1001 100X b
NVIDIA NB8X	

ICH8M SM Bus address

Device	Address
Clock Generator (ICS9LPRS325AKLFT_MLF72)	1101 001Xb
DDR DIMM0	1010 000Xb
DDR DIMM1	1010 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

PROJECT ID Table

	ID1	ID0
IFT00 (00@)	R284	R283
IFT01 (01@)	R284	R281
IFL90 (10@)	R694	R283
IFT91 (11@)	R694	R281

BOARD ID Table

R	Structure
Ra (R743)	15W@
Rb (R740)	14W@

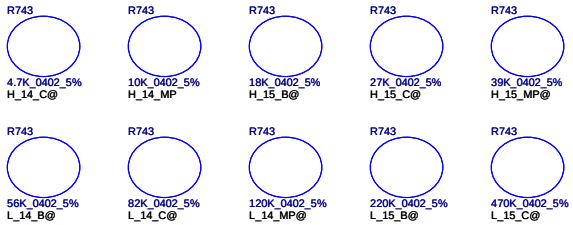
MIC ID Table

R	Structure
R785 Single MIC	INT@
R786 Array MIC	DUAL@

SKU ID Table

Vcc	3.3V +/- 5%
Rb	47K +/- 5%

Rb~ R740
Ra~ R743



Board ID	Rb	Ra	V_{AD_BID} min	V_{AD_BID} typ	V_{AD_BID} max	Ra BOM Structure
1	NA	4.7K +/- 5%	0 V	0 V	0 V	H_14_B@
2	47K(RB@)	4.7K +/- 5%	0.274 V	0.300 V	0.328 V	H_14_C@ ✓
3	47K(RB@)	10K +/- 5%	0.553V	0.578 V	0.628 V	H_14_MP@
4	47K(RB@)	18K +/- 5%	0.849V	0.913V	0.981 V	H_15_B@
5	47K(RB@)	27K +/- 5%	1.129 V	1.204 V	1.282 V	H_15_C@ ✓
6	47K(RB@)	39K +/- 5%	1.415 V	1.496 V	1.579 V	H_15_MP@
7	47K(RB@)	56K +/- 5%	1.712 V	1.794 V	1.876 V	L_14_B@
8	47K(RB@)	82K +/- 5%	2.020V	2.097 V	2.173 V	L_14_C@ ✓
9	47K(RB@)	120K +/- 5%	2.303 V	2.371 V	2.437 V	L_14_MP@
10	47K(RB@)	220K +/- 5%	2.670 V	2.719 V	2.765 V	L_15_B@
11	47K(RB@)	470K +/- 5%	2.972 V	3.000 V	3.026 V	L_15_C@ ✓
12	47K(RB@)	NA	3.135 V	3.300 V	3.465 V	NA for L_15_MP

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

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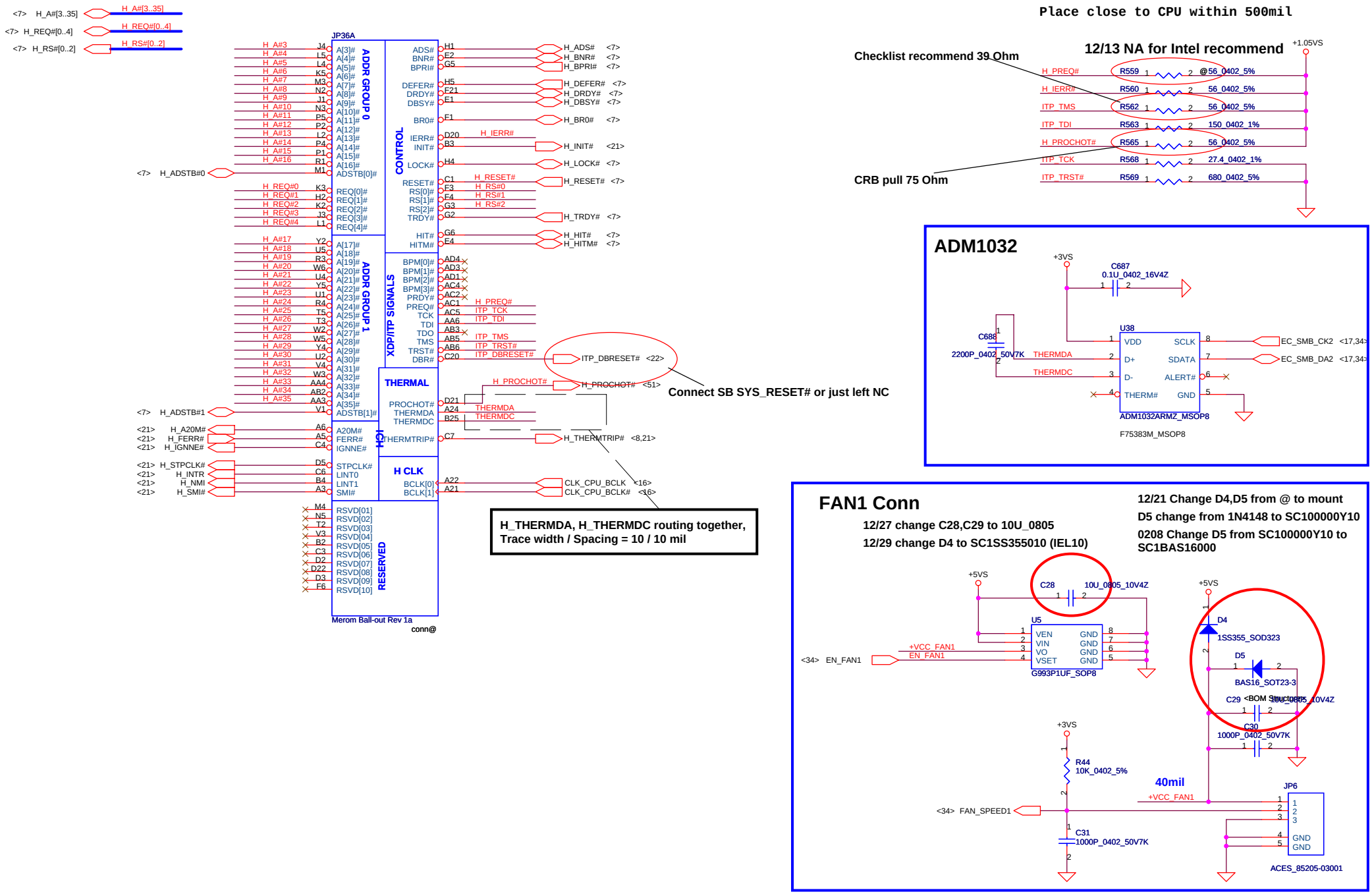
Title: Notes List

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0.2

Date: Thursday, February 15, 2007 | Sheet 3 of 53



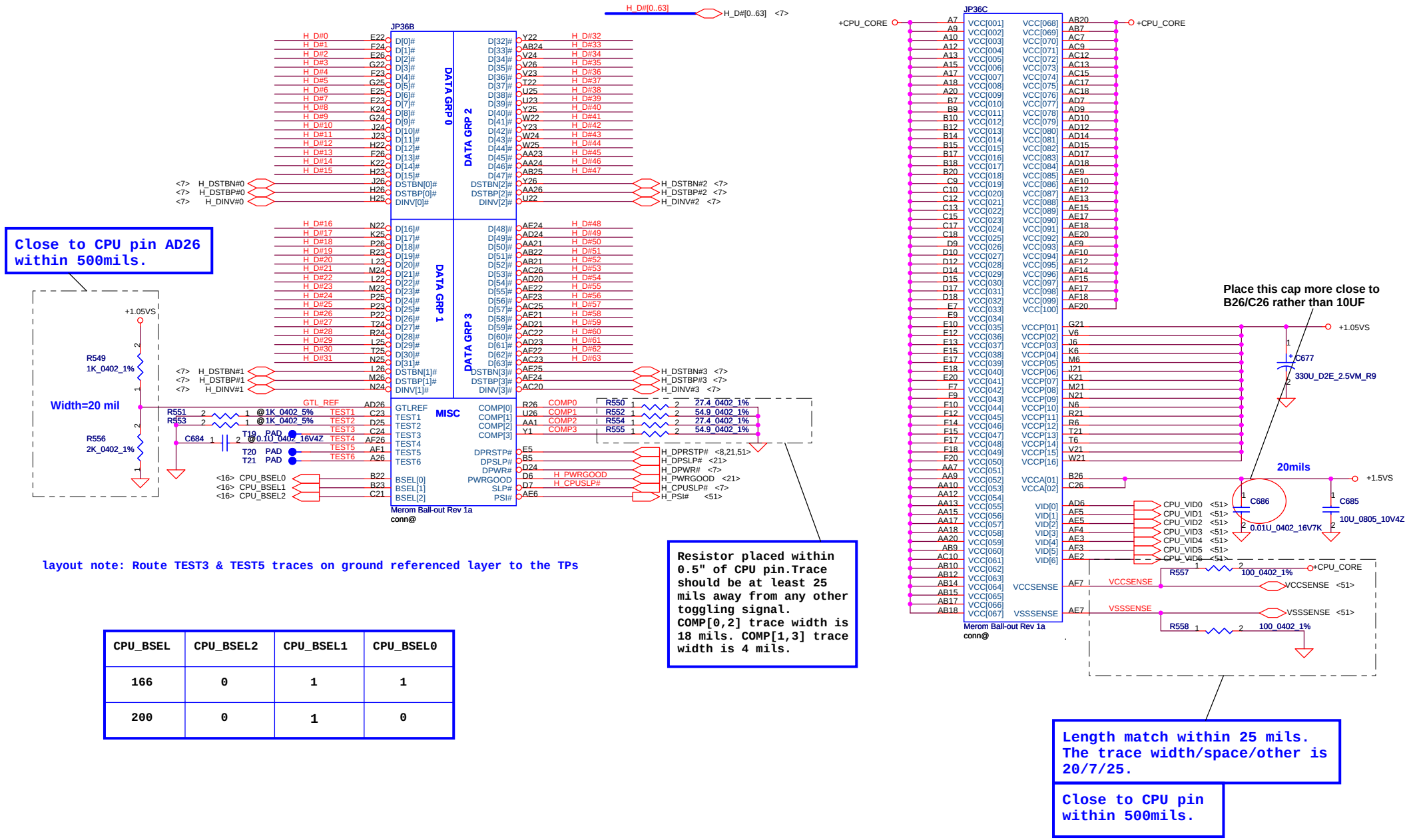
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Merom (1/3)

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 15, 2007 | Sheet 4 of 53



CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
166	0	1	1
200	0	1	0

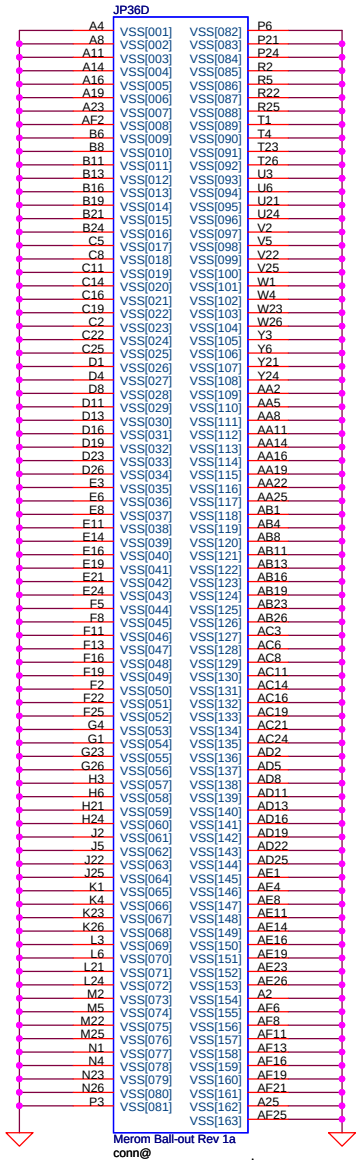
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

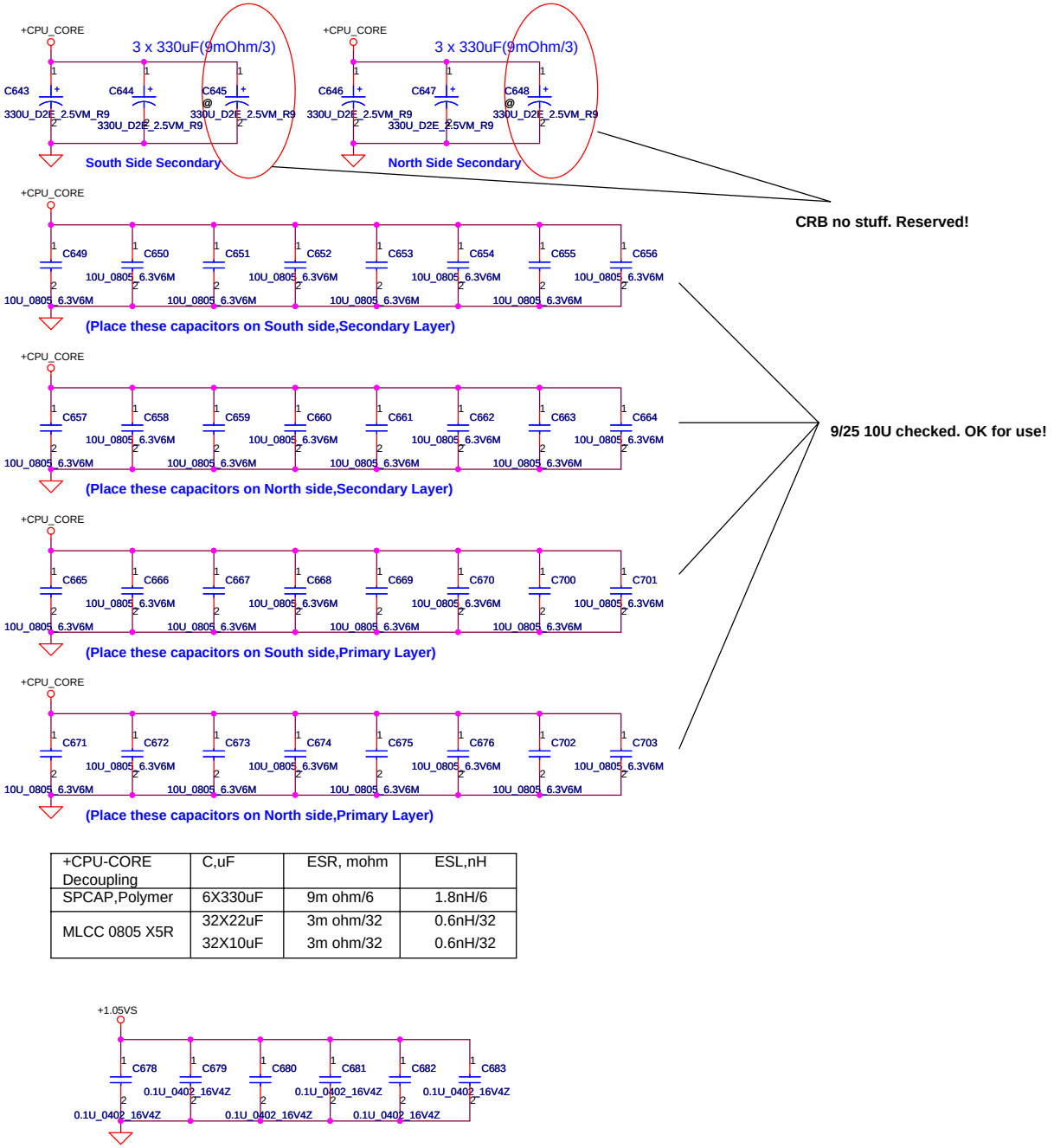
Compal Electronics, Inc.

Title: Merom (2/3)

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Friday, February 09, 2007 Sheet 5 of 53





+CPU-CORE Decoupling	C,uF	ESR, mohm	ESL,nH
SPCAP,Polymer	6X330uF	9m ohm/6	1.8nH/6
MLCC 0805 X5R	32X22uF 32X10uF	3m ohm/32 3m ohm/32	0.6nH/32 0.6nH/32

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

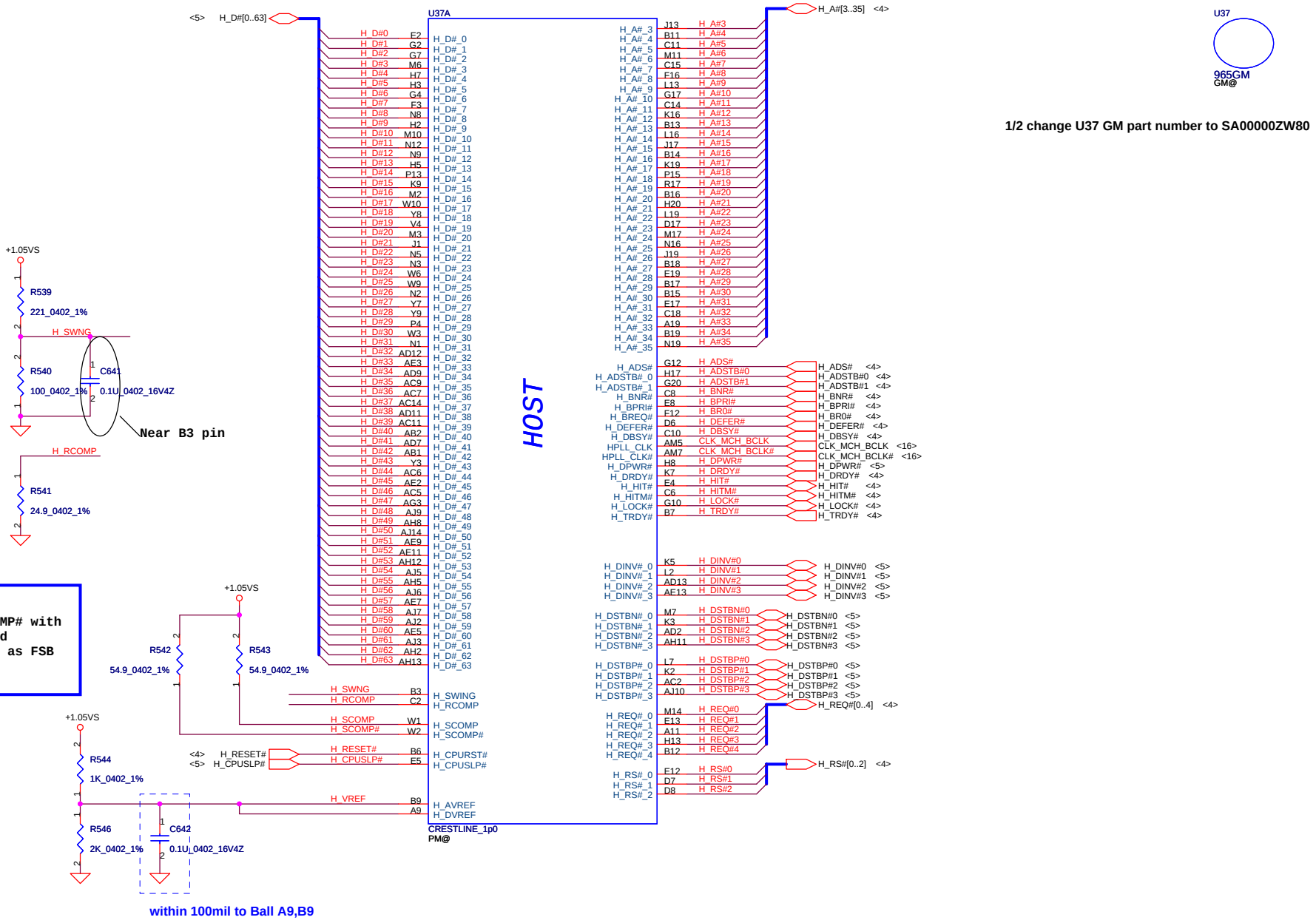
Compal Electronics, Inc.

Title: Merom (3/3)

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 08, 2007 | Sheet 6 of 53

1/2 change U37 PM part number to SA00001DJ90



U37
965GM
GM@

1/2 change U37 GM part number to SA00000ZW80

layout note:
Route H_SCOMP and H_SCOMP# with trace width, spacing and impedance (55 ohm) same as FSB data traces

within 100mil to Ball A9,B9

Layout Note:
H_RCOMP / H_VREF / H_SWNG
trace width and spacing is 10/20

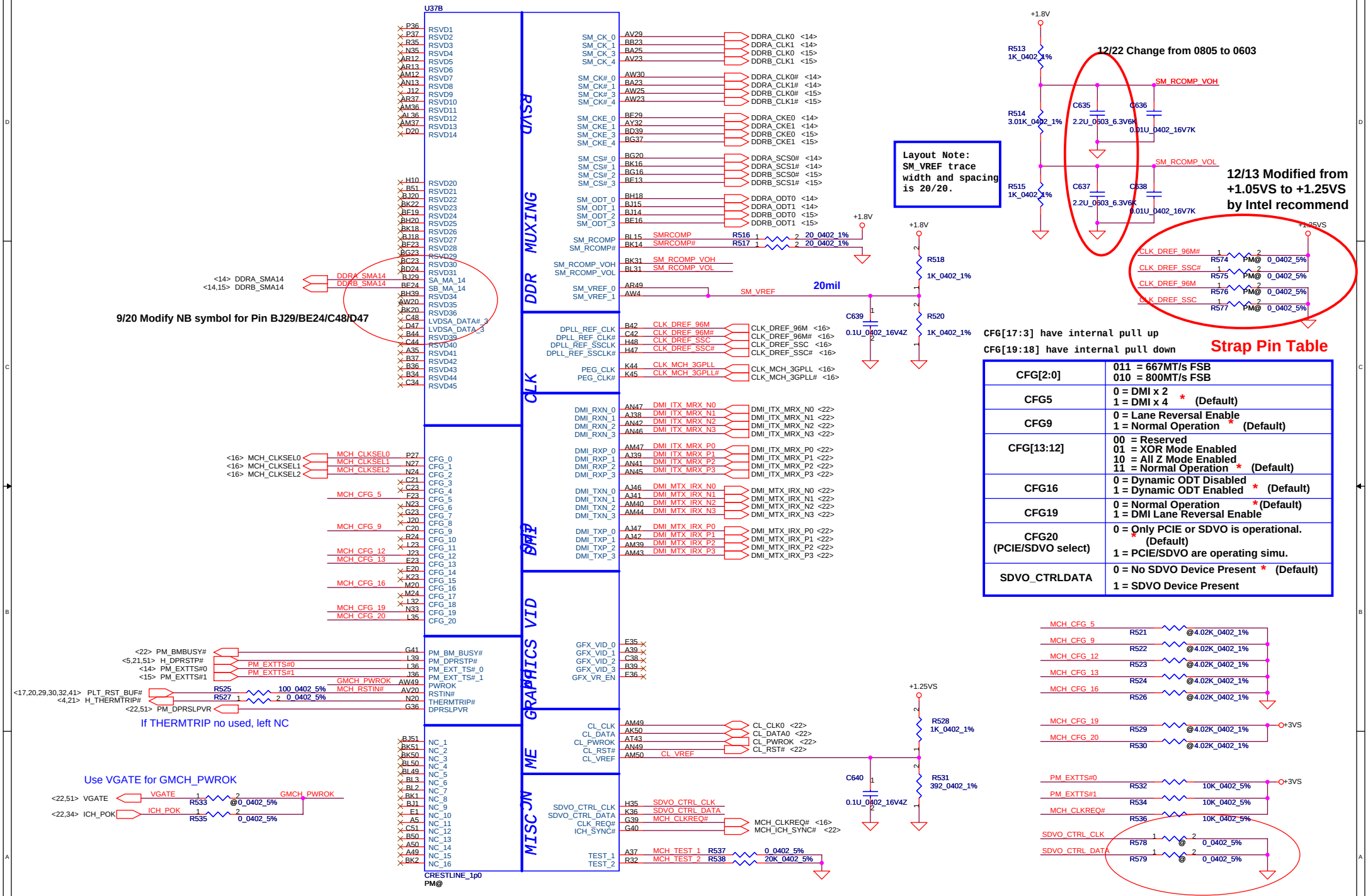
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (1/7)-GTL

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Friday, February 09, 2007 | Sheet 7 of 53



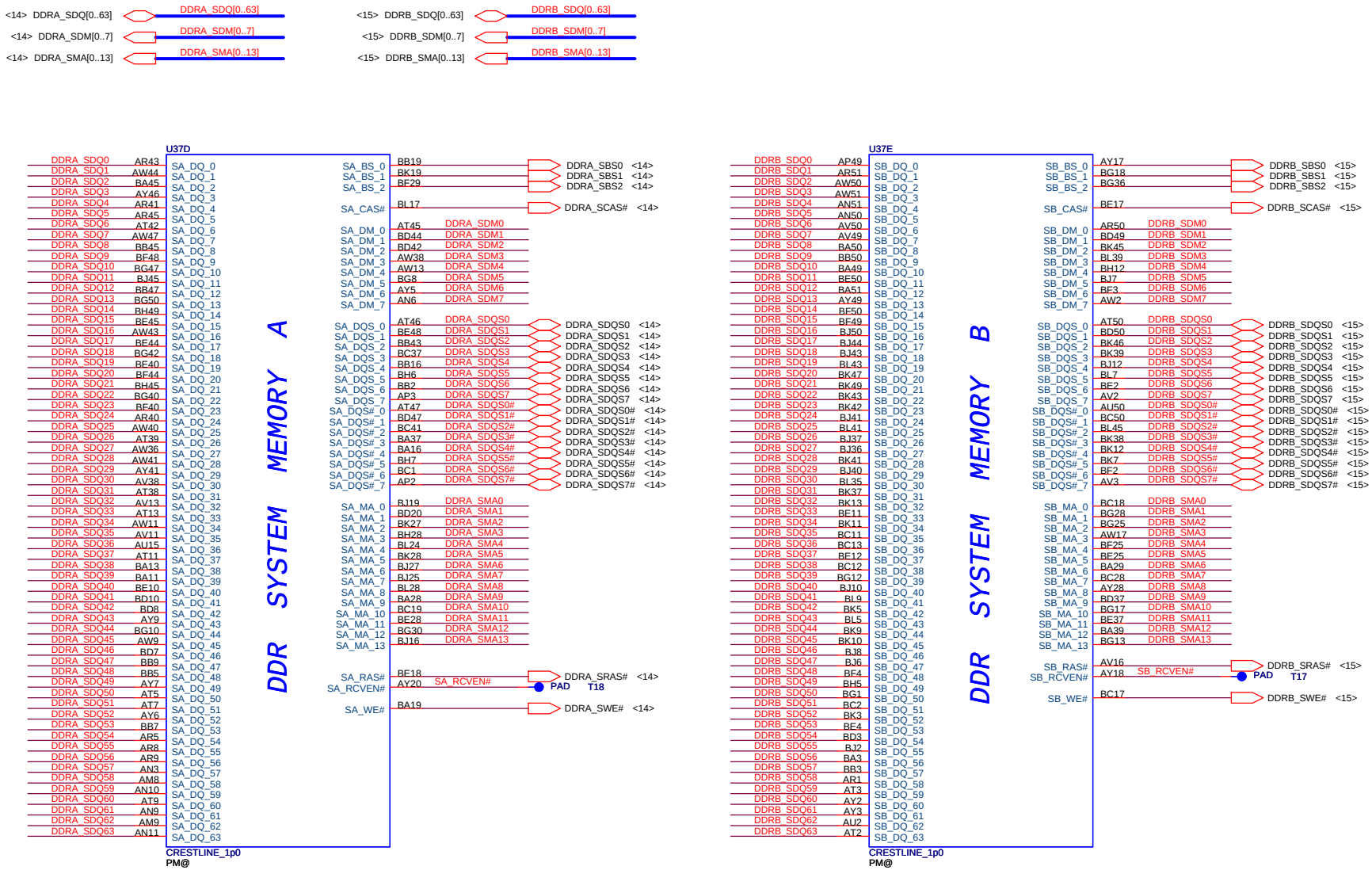
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (2/7)-DMI/DDR

Size: Custom | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Friday, February 09, 2007 | Sheet 8 of 53



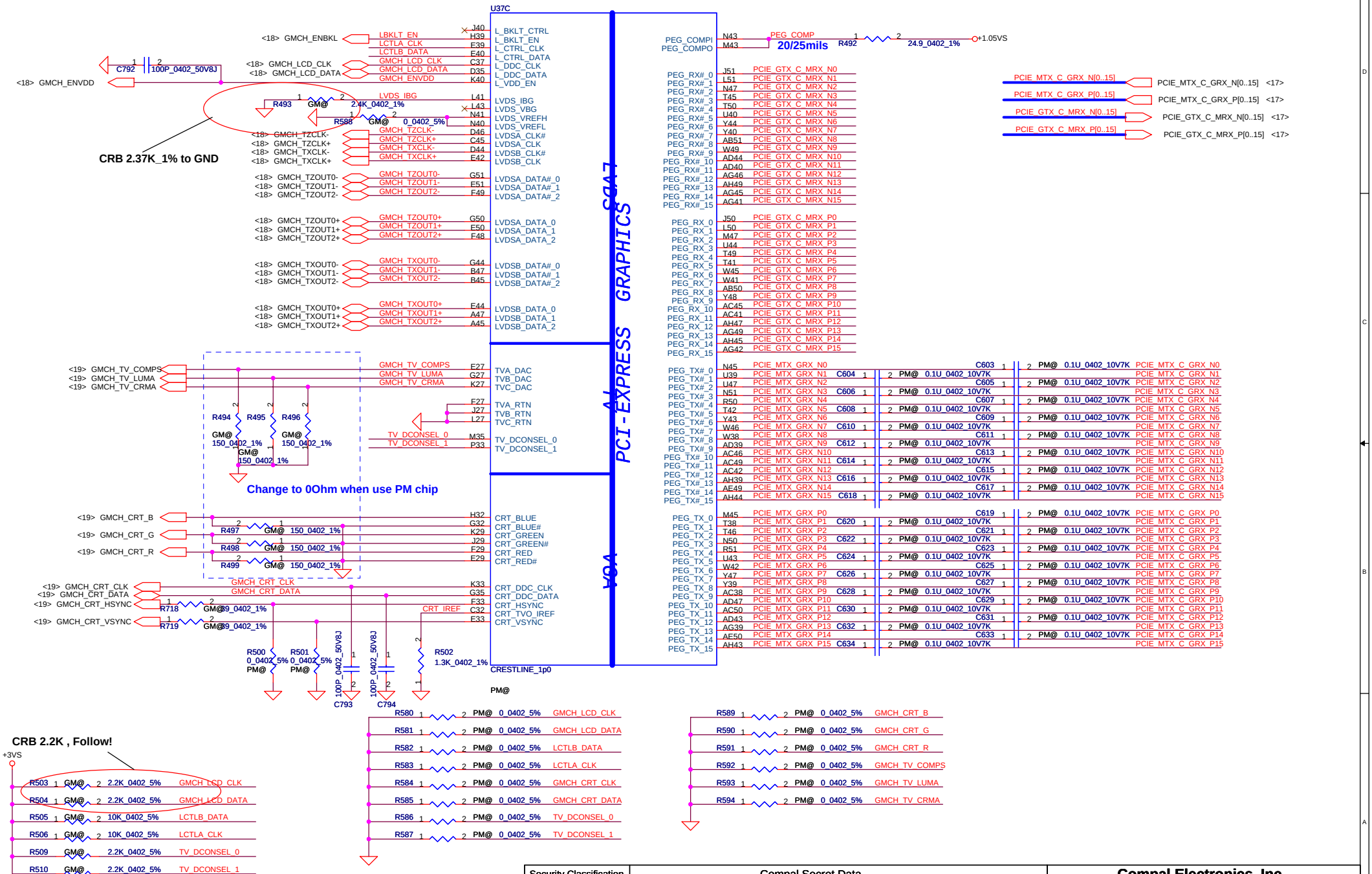
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (3/7)-DDRII

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 08, 2007 | Sheet 9 of 53



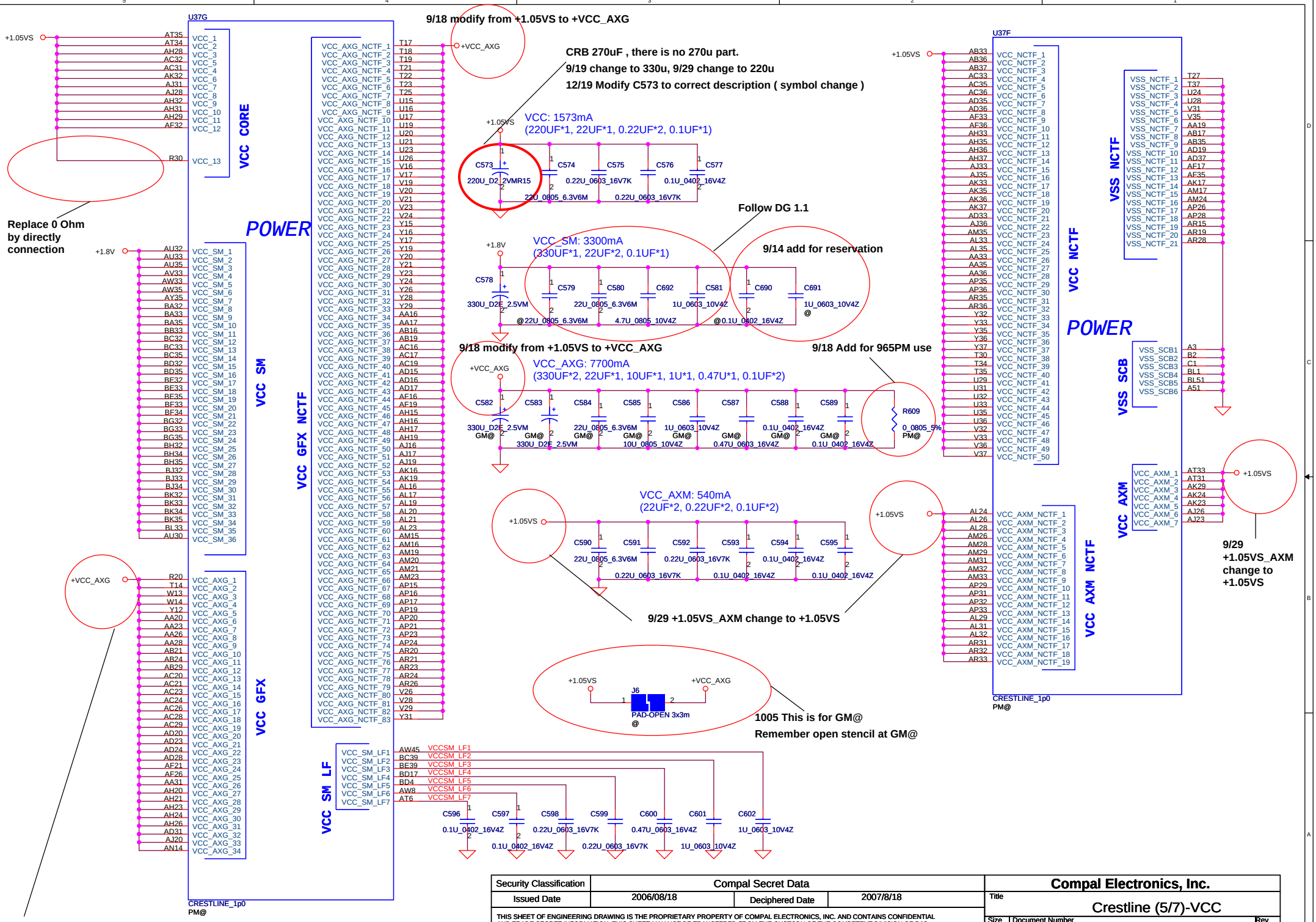
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (4/7)-VGA/LVDS/TV

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Friday, February 09, 2007 Sheet 10 of 53



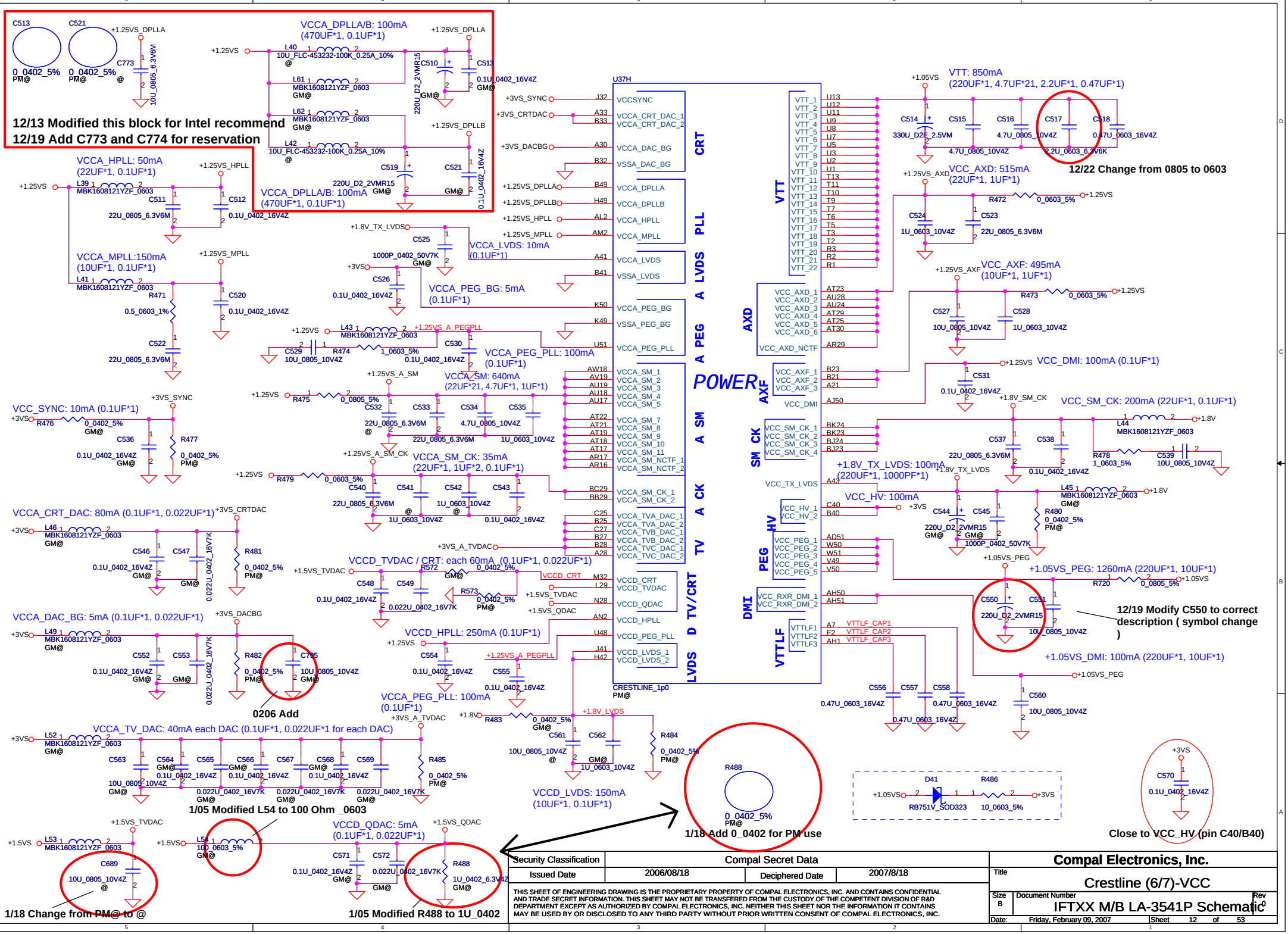
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (5/7)-VCC

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 08, 2007 | Sheet 11 of 53


12/13 Modified this block for Intel recommend
12/19 Add C773 and C774 for reservation
VCCA_DPLLA/B: 100mA (470UF*1, 0.1UF*1)
VCCA_HPLL: 50mA (22UF*1, 0.1UF*1)
VCCA_MPLL:150mA (10UF*1, 0.1UF*1)
VCCA_LVDS: 10mA (0.1UF*1)
VCCA_PEG_BG: 5mA (0.1UF*1)
VCCA_PEG_PLL: 100mA (0.1UF*1)
VCCA_SM: 640mA (22UF*21, 4.7UF*1, 1UF*1)
VCCA_SM_CK: 35mA (22UF*1, 1UF*2, 0.1UF*1)
VCC_SYNC: 10mA (0.1UF*1)
VCCA_CRT_DAC: 80mA (0.1UF*1, 0.022UF*1)
VCCD_TVDAC / CRT: each 60mA (0.1UF*1, 0.022UF*1)
VCCA_DAC_BG: 5mA (0.1UF*1, 0.022UF*1)
VCCD_HPLL: 250mA (0.1UF*1)
VCCA_PEG_PLL: 100mA (0.1UF*1)
VCCA_TV_DAC: 40mA each DAC (0.1UF*1, 0.022UF*1 for each DAC)
VCCD_LVDS: 150mA (10UF*1, 0.1UF*1)
VCCD_QDAC: 5mA (0.1UF*1, 0.022UF*1)
0206 Add
1/05 Modified L54 to 100 Ohm _0603
1/18 Change from PM@ to @
1/05 Modified R488 to 1U_0402
1/18 Add 0_0402 for PM use
U37H
CRESTLINE_1p0
PM@
POWER
CRT
PLL
LVDS
PEG
SM
CK
TV
DAC
CRT
LVDS
PLL
VTT
AXD
AXF
SM CK
PEG
HV
DMI
VTTLF
VTT: 850mA (220UF*1, 4.7UF*21, 2.2UF*1, 0.47UF*1)
12/22 Change from 0805 to 0603
VCC_AXD: 515mA (22UF*1, 1UF*1)
VCC_AXF: 495mA (10UF*1, 1UF*1)
VCC_DMI: 100mA (0.1UF*1)
VCC_SM_CK: 200mA (22UF*1, 0.1UF*1)
+1.8V_TX_LVDS: 100mA (220UF*1, 1000PF*1)
VCC_HV: 100mA
+1.05VS_PEG: 1260mA (220UF*1, 10UF*1)
12/19 Modify C550 to correct description (symbol change)
+1.05VS_DMI: 100mA (220UF*1, 10UF*1)
Close to VCC_HV (pin C40/B40)
D41 RB751V_SOD323
Security Classification
Compal Secret Data
Issued Date
2006/08/18
Deciphered Date
2007/8/18
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Title
Crestline (6/7)-VCC
Size B
Document Number
IFTXX M/B LA-3541P Schematic
Rev 0
Date: Friday, February 09, 2007
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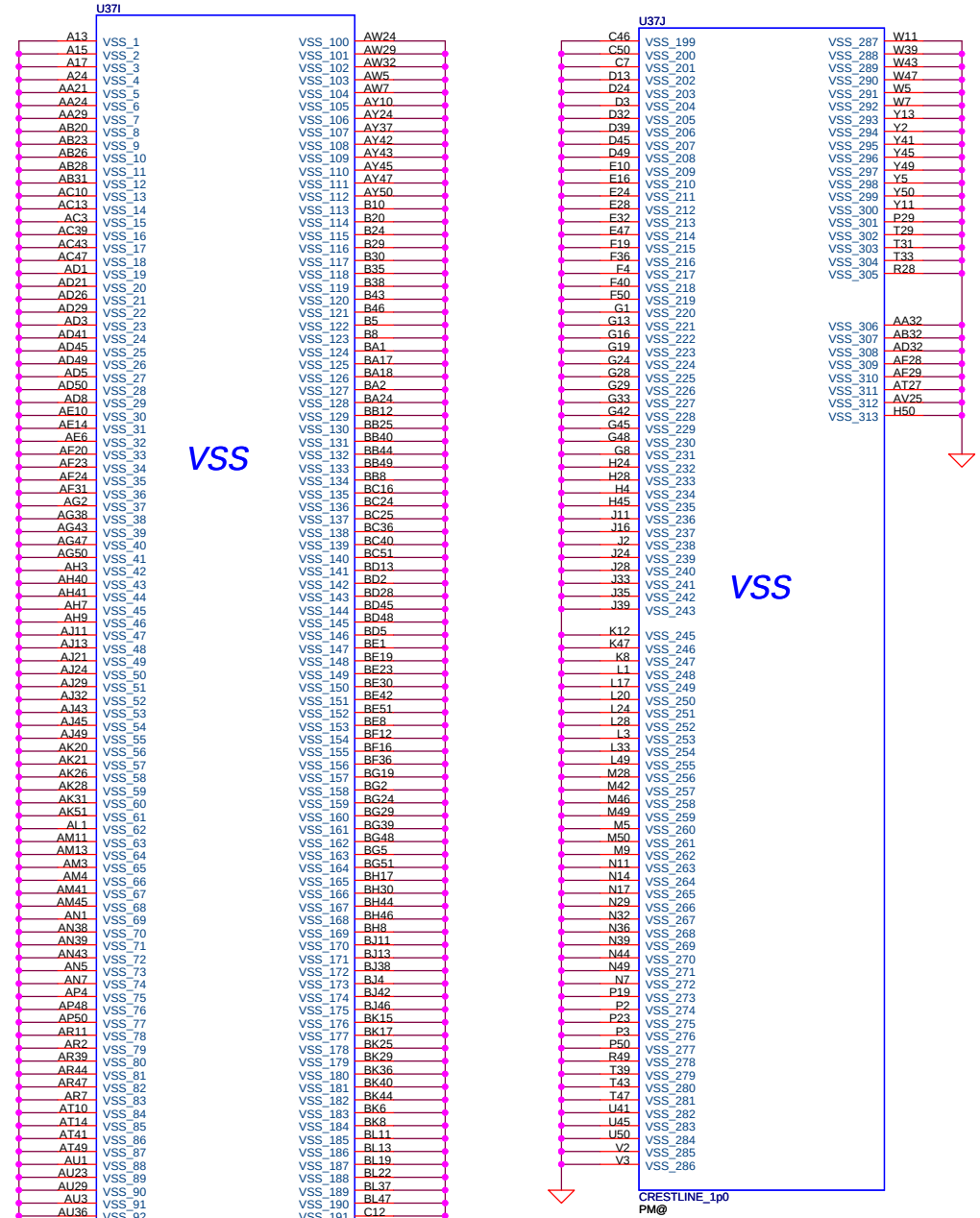

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: Crestline (7/7)-GND

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

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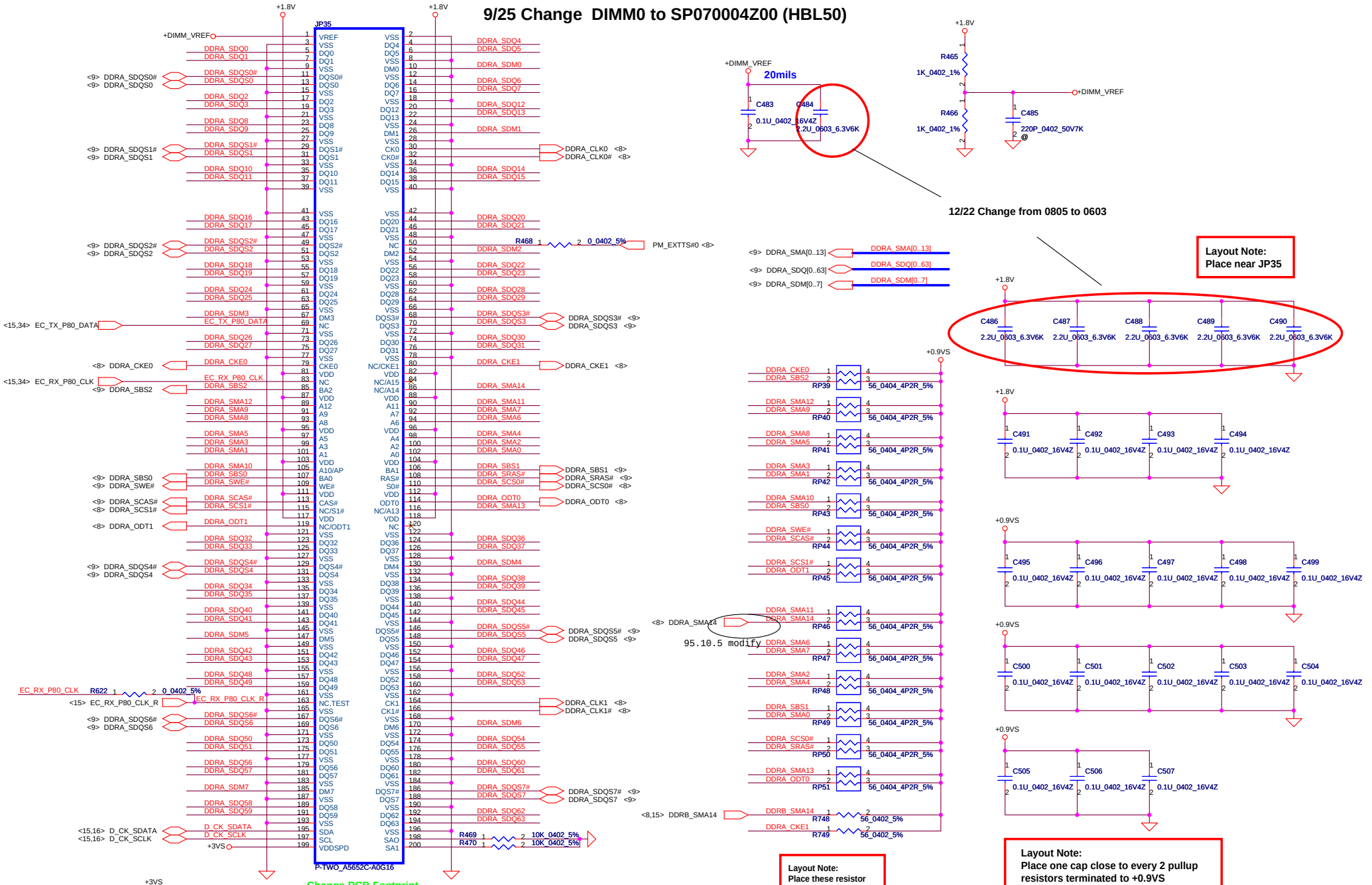
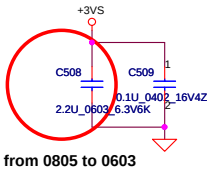
9/25 Change DIMM0 to SP070004Z00 (HBL50)





12/22 Change from 0805 to 0603

12/22 Change from 0805 to 0603

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

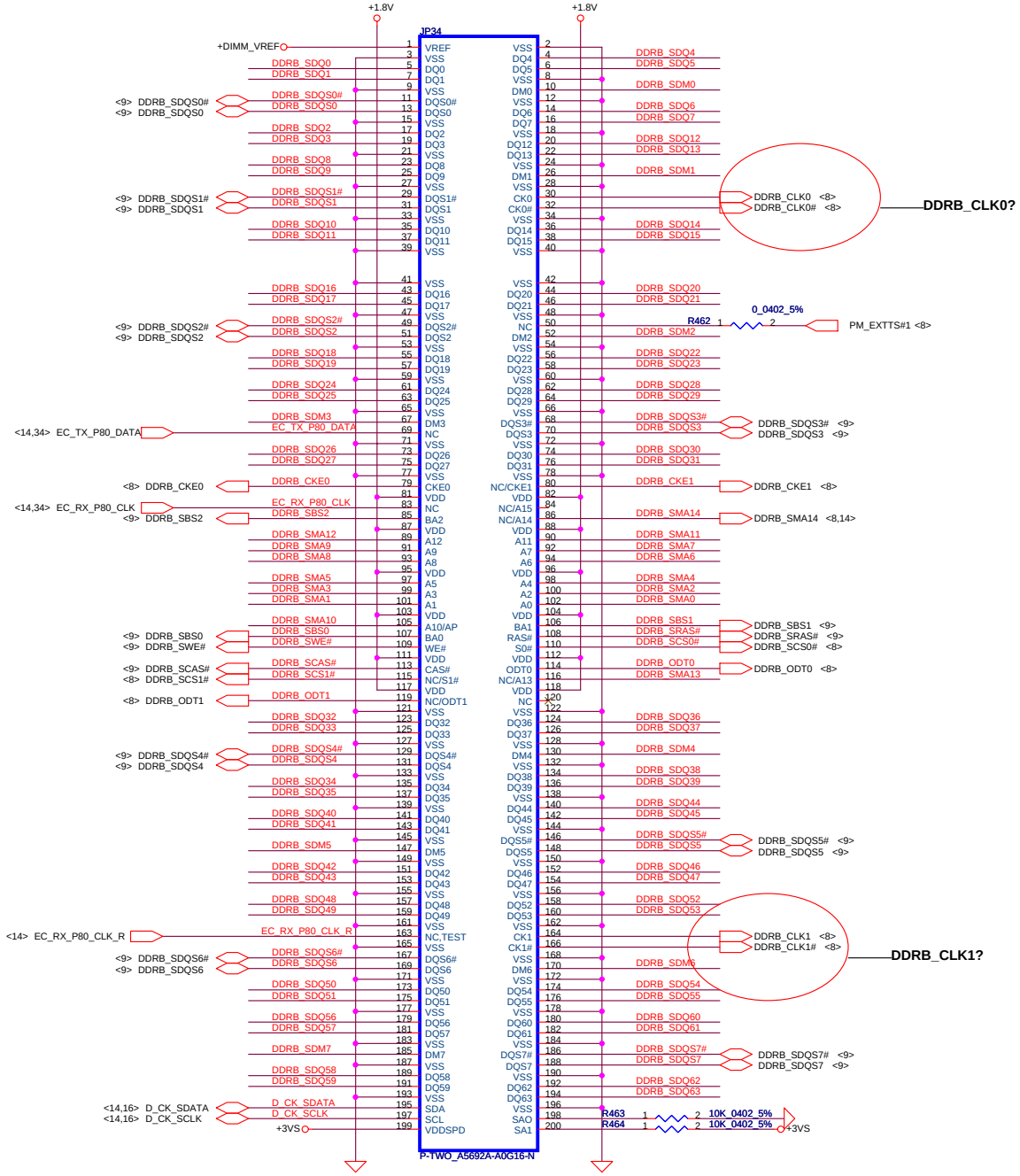
Compal Electronics, Inc.

Title: DDRII-SODIMM0

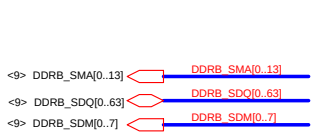
Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

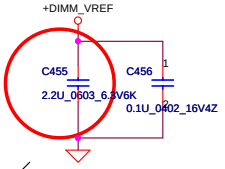
Date: Friday, February 09, 2007 | Sheet 14 of 53

9/25 Change DIMM1 to SP070006F00



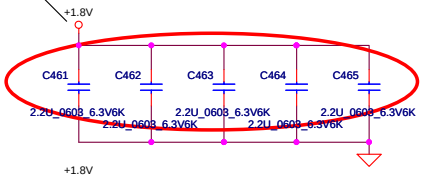
DIMM1 STD H:9.2mm (BOT)

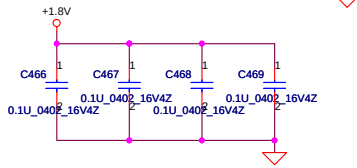


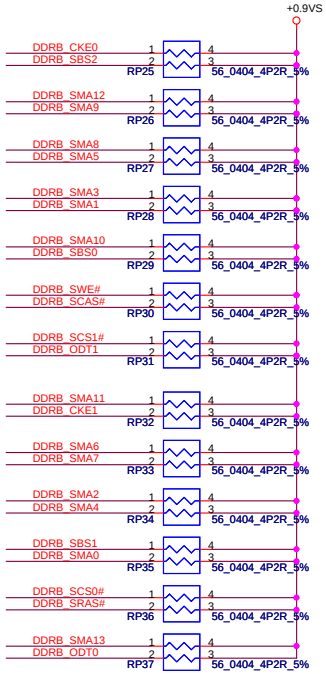


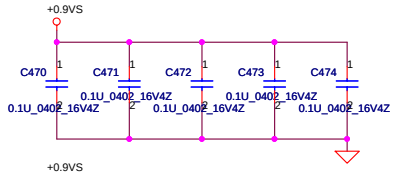
12/22 Change from 0805 to 0603

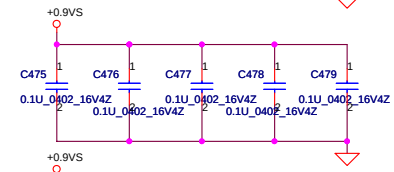
Layout Note:
Place near JP34

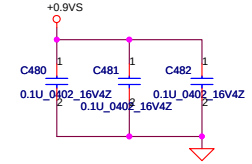












Layout Note:
Place these resistor closely JP35,all trace length Max=1.5"

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

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: DDRII-SODIMM1

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

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

FSB Frequency Selet:

CPU Driven	Stuff						
*(Default)	No Stuff	R401	R408	R417	R430	R438	R447
667MHz	Stuff	R401	R417	R447			
	No Stuff	R408	R430	R438			
800MHz	Stuff	R408	R417	R447			
	No Stuff	R401	R430	R438			

12/4 Modified from 0 Ohm to bead (3A rated)

10/17 : Change P/N from SA0001GT00 to SA00001GT10

Need to update Symbol

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

12/1 Modified from 27P to 18P

Routing the trace at least 10mil

Place close to U35

ICS9LPRS365/SA00001GT00

* Internal Pull-Up Resistor
** Internal Pull-Down Resistor

Security Classification	Compal Secret Data		
Issued Date	2006/08/04	Deciphered Date	2006/10/06

Compal Electronics, Inc.

Title: **Clock generator**

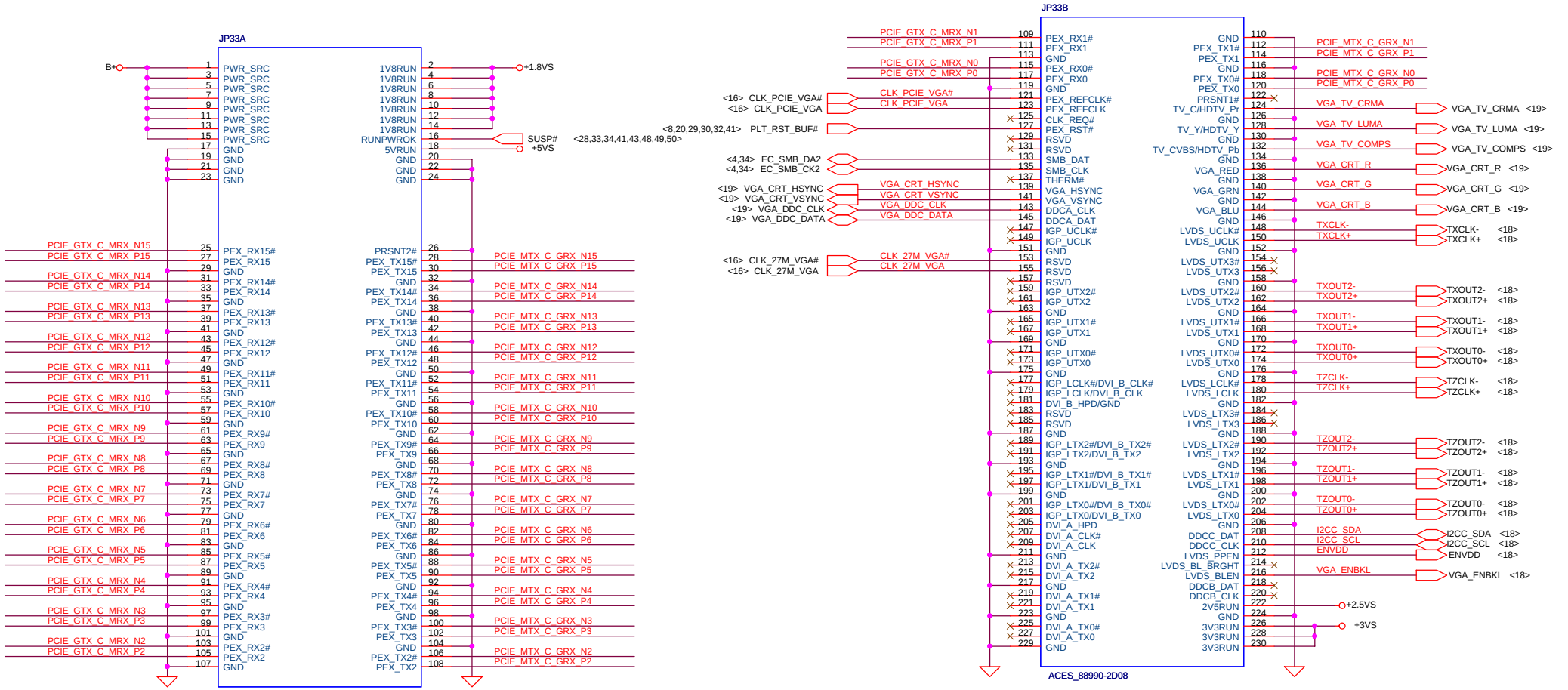
Size	Document Number	Rev
	IXXXX LA-3XXXP	0.1

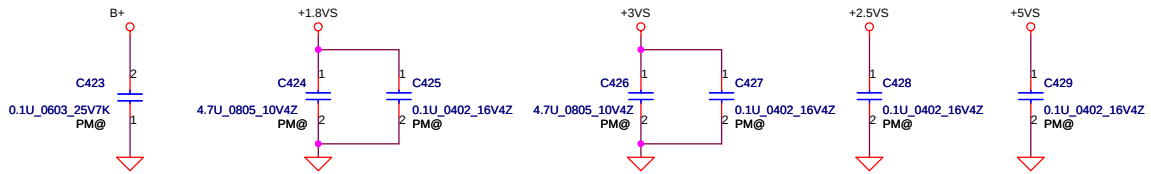
Date: Friday, February 09, 2007 | Sheet 16 of 53

<10> PCIE_MTX_C_GRX_N[0..15] PCIE_MTX_C_GRX_N[0..15]
<10> PCIE_MTX_C_GRX_P[0..15] PCIE_MTX_C_GRX_P[0..15]
<10> PCIE_GTX_C_MRX_N[0..15] PCIE_GTX_C_MRX_N[0..15]
<10> PCIE_GTX_C_MRX_P[0..15] PCIE_GTX_C_MRX_P[0..15]

9/13 modify this footprint from ACES_88990-2D08_230P to ACES_88990-2D28_230P

12/19 modify this footprint from ACES_88990-2D28_230P to QUASA_CA0330-230N20_230P
0208 : Modify this footprint from QUASA_CA0330-230N20_230P to QUASA_CA0330-230N20_230P-S





Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

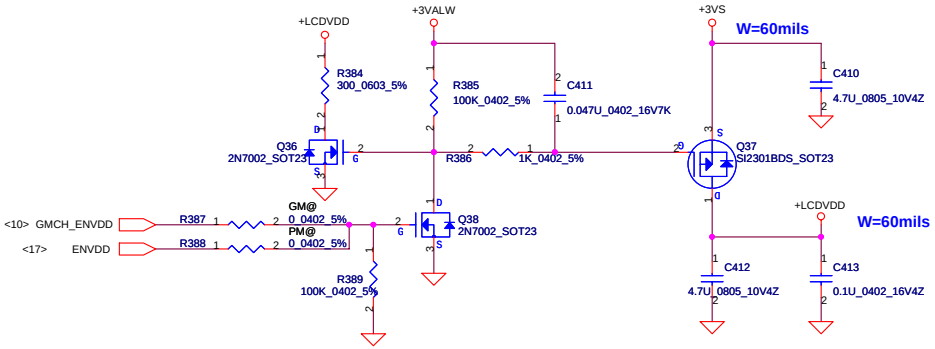
Compal Electronics, Inc.

Title: MXM Connector

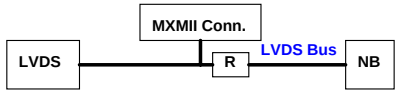
Size: Custom | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Friday, February 09, 2007 | Sheet 17 of 53

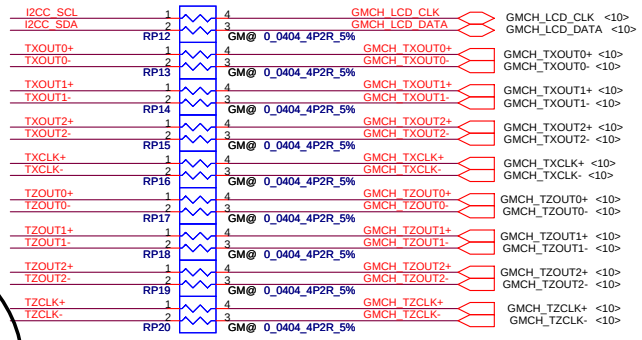
LCD POWER CIRCUIT



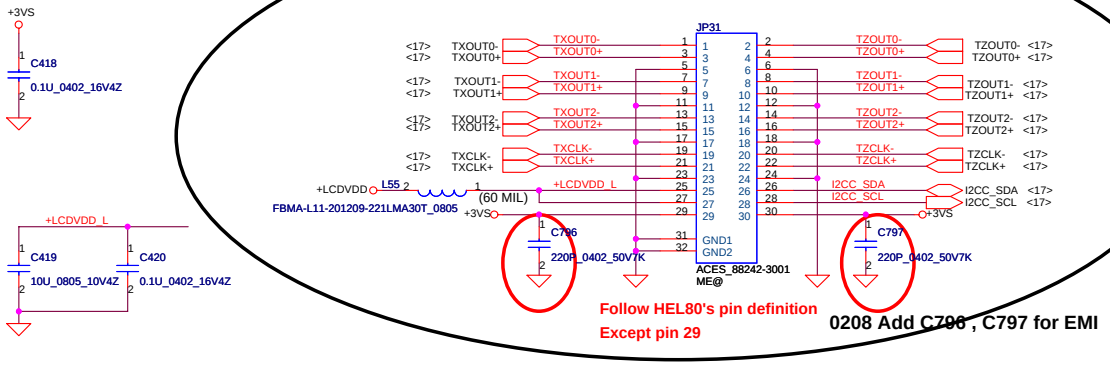
Routing Diagram



Use Daisy chain to route



LCD/PANEL BD. Conn.

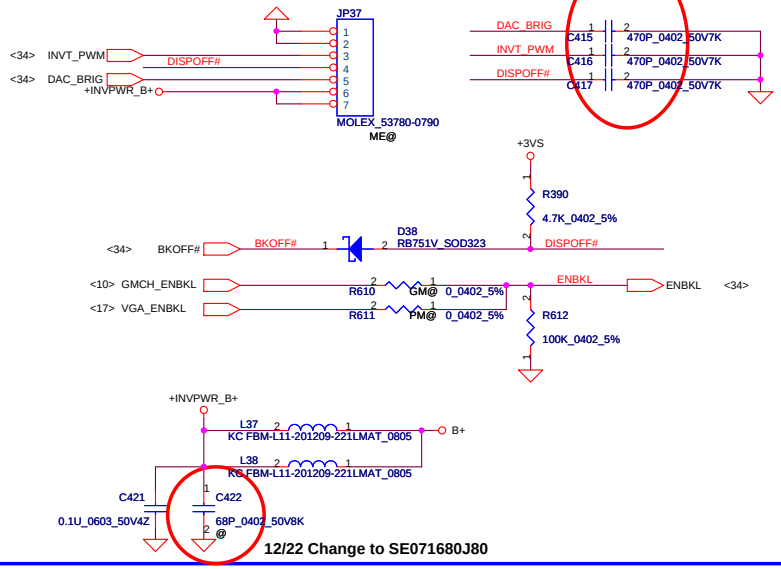


Follow HEL80's pin definition
Except pin 29

0208 Add C796 , C797 for EMI

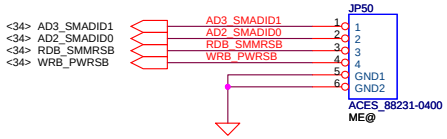
INVERTER Conn.

12/18 modified from
220p @ to 470p mount
by EMI request



12/22 Change to SE071680J80

JEPICO Conn.



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: LVDS & DVI Connector

Size	Document Number	Rev
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Date: Friday, February 09, 2007 | Sheet 18 of 53

CRT Connector

0208 Add L64 for EMI

Place closed to chipset

12/15 Modified. Note L26~L30 are 0 Ohm resisters

12/22 Change to SE071680J80

TV-OUT Conn.

Place closed to chipset

0214 Modified from 4.7K to 2.2K

12/13 Modified from 4.7K to 2.2K by Intel recommend

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: CRT & TV-OUT Connector

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

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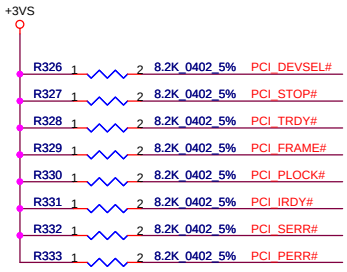
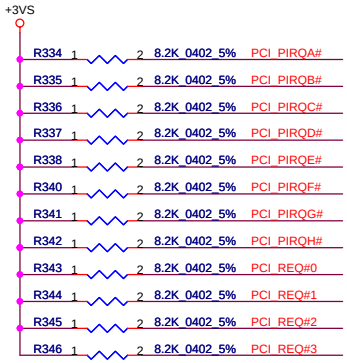
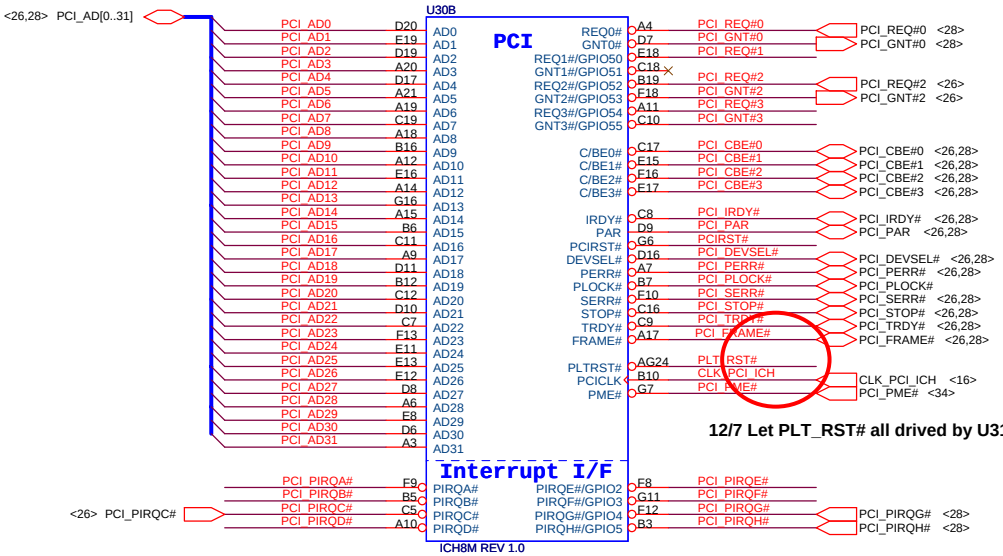
10/17 : Change P/N from SA000010G00 to SA00001JU10

10/17 : FootPrint : SA000010G00
BOM : SA00001JU10

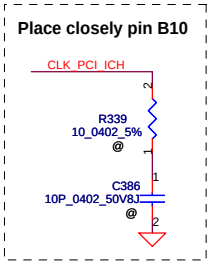
1/2 : Change U37 GM part number to SA00001JU80

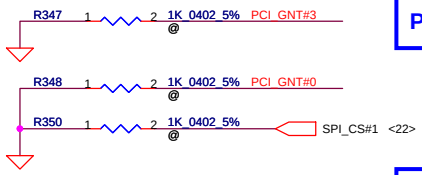






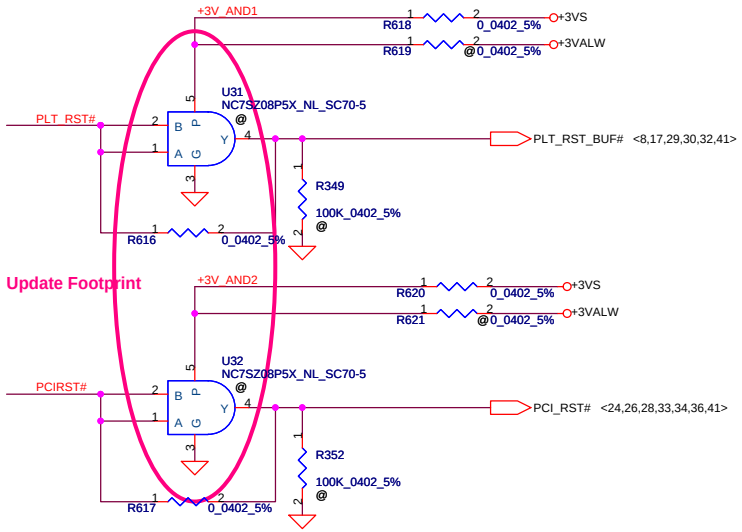
12/7 Let PLT_RST# all drived by U31





A16 Swap Override Strap	
PCI_GNT#3	Low= A16 swap override Enable High= Default*

Boot BIOS Strap		
PCI_GNT#0	SPI_CS#1	Boot BIOS Loaction
0	1	SPI
1	0	PCI
1	1	LPC*



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: ICH8M(1/4)-PCI

Size | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Friday, February 09, 2007 | Sheet 20 of 53

12/1 Modified C381 from 18P to 15P

12/7 Modified X4 to SJ100001U00 10ppm

High = Internal VR Enable

Internal PU 15K, Can be reserved.
SB EDS-1 21762,2.0v1

close to RAM door

10/11 Circuit reserved for EMI

close ICH8

10mils width less than 500mils

SATA_RXn/p need tie to ground when SATA port no used

XOR Chain Entrance Strap		
ICH_TP3	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal Operation
1	1	Set PCIE port config bit 1

RTC Battery

Change BATT1 P/N : SP093PA0200 (Panasonic)
SP093MX0000 (MAXELL)

9/29 modified to follow ISKAA

9/29 Checked. Same as HEL80's

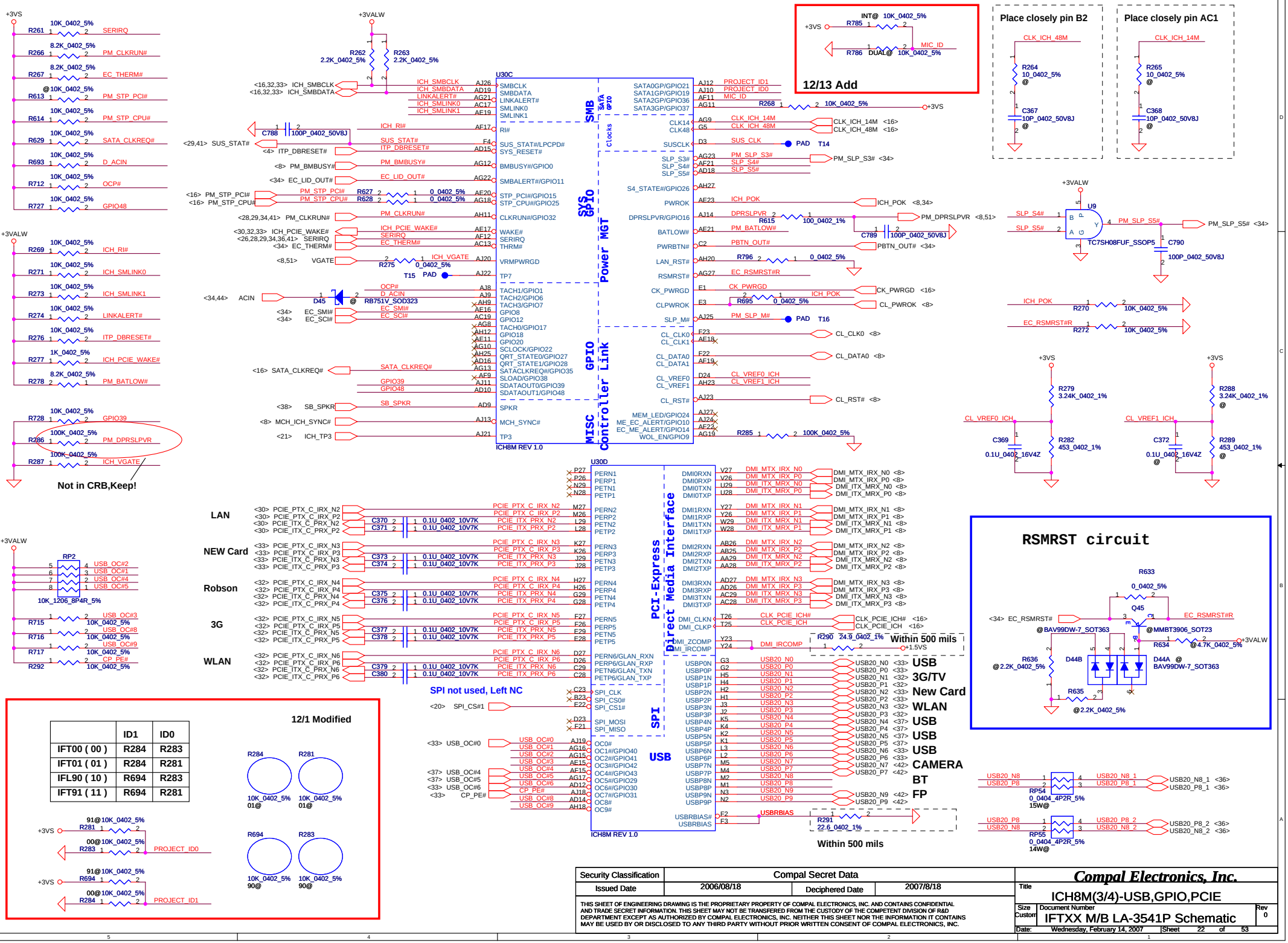
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: ICH8M(2/4)-LAN,IDELPC,RTC

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Wednesday, February 14, 2007 | Sheet 21 of 53



	ID1	ID0
IFT00 (00)	R284	R283
IFT01 (01)	R284	R281
IFL90 (10)	R694	R283
IFT91 (11)	R694	R281

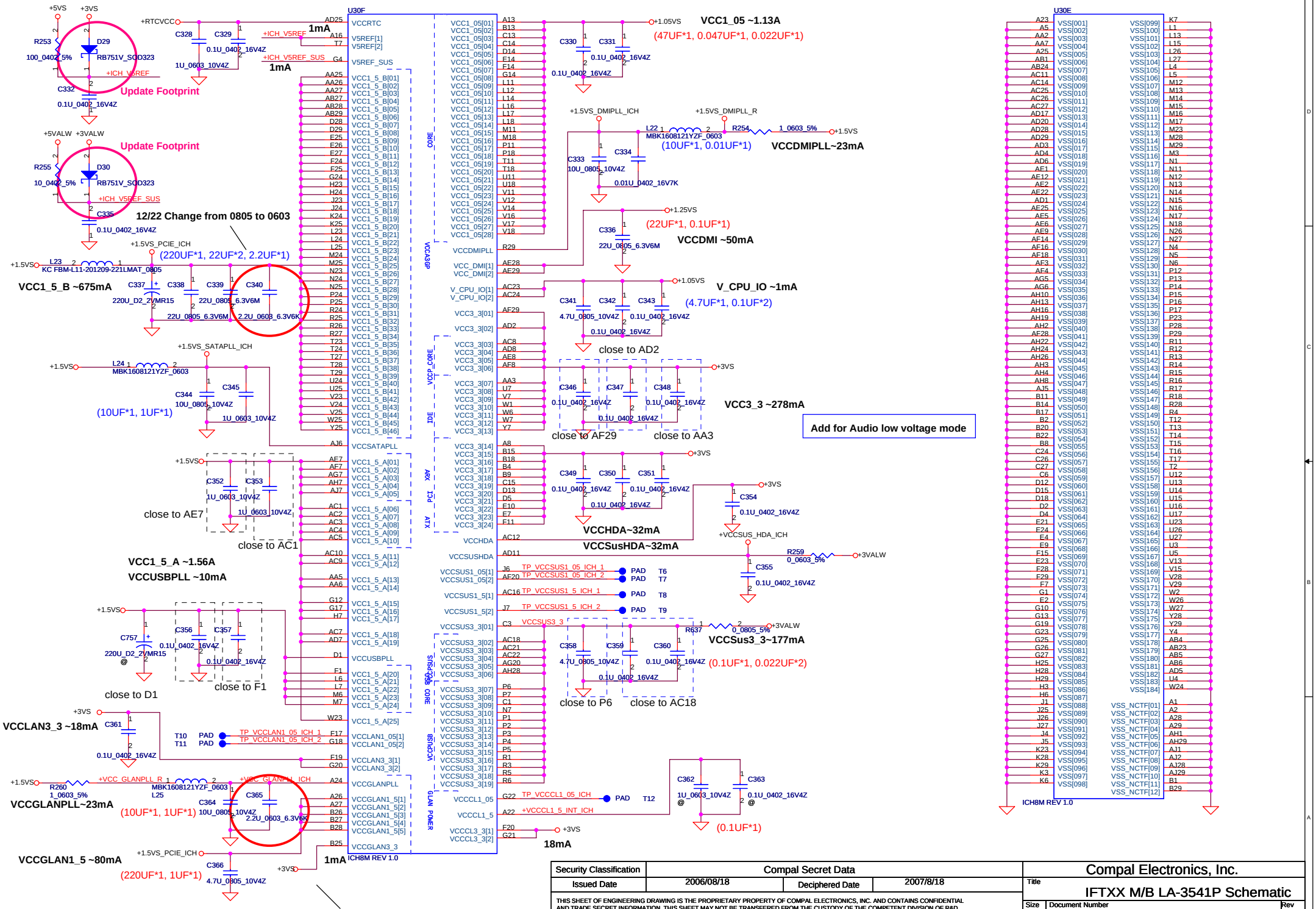
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: ICH8M(3/4)-USB,GPIO,PCIE

Size: Custom | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Wednesday, February 14, 2007 | Sheet 22 of 53



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

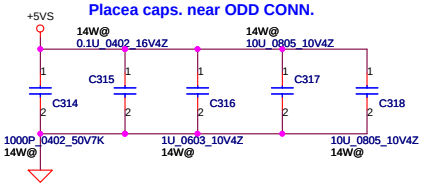
Title: IFTXX M/B LA-3541P Schematic

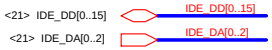
Size	Document Number	Rev
Custom	ICL50/ICK70 M/B LA-3551P Schematic	

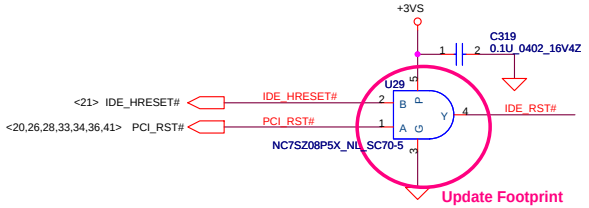
Date: Thursday, February 08, 2007 | Sheet 23 of 53

14W ODD Conn.

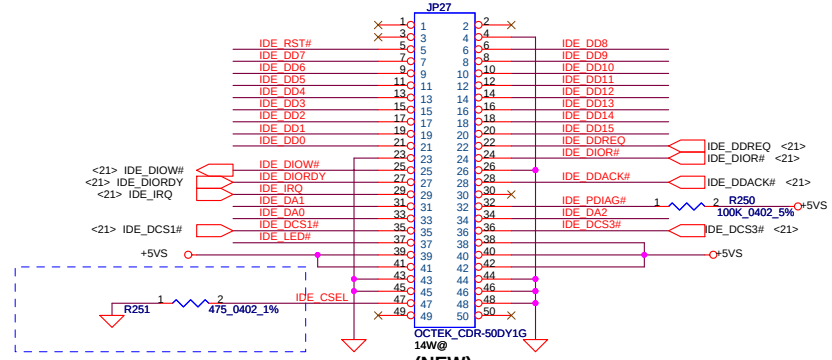
Placea caps. near ODD CONN.





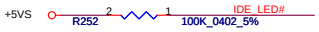


Update Footprint

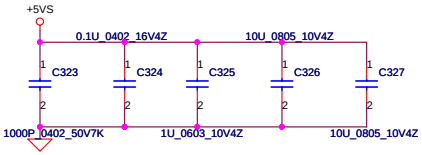


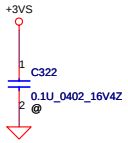
(NEW)

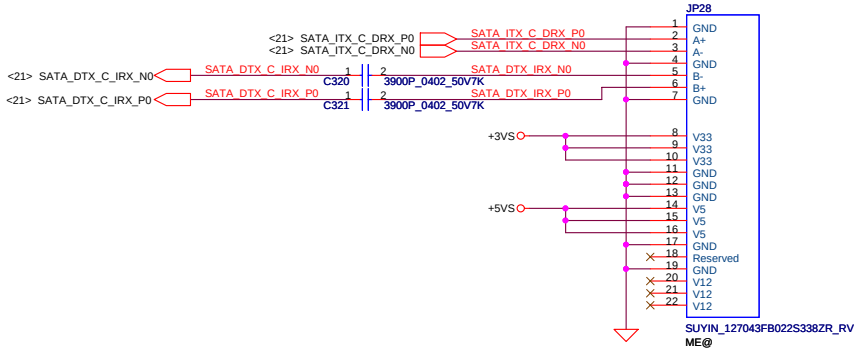
IDE_CSEL
Grounding for Master (When use SATA HDD)
Open or High for Slaver (Normal)



SATA HDD Conn.

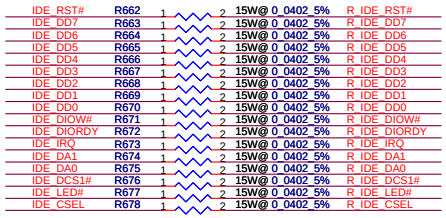


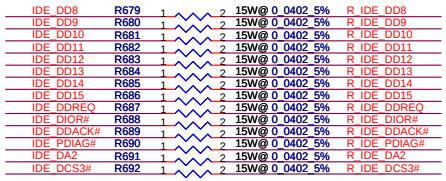


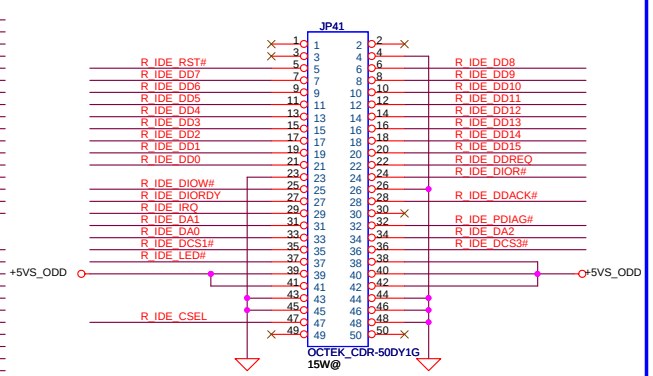


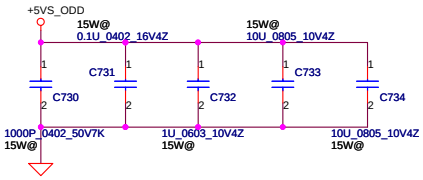
(NEW)
Change Library

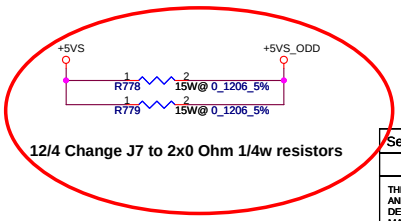
15W ODD Conn.











12/4 Change J7 to 2x0 Ohm 1/4w resistors

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: HDD & ODD Connector

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

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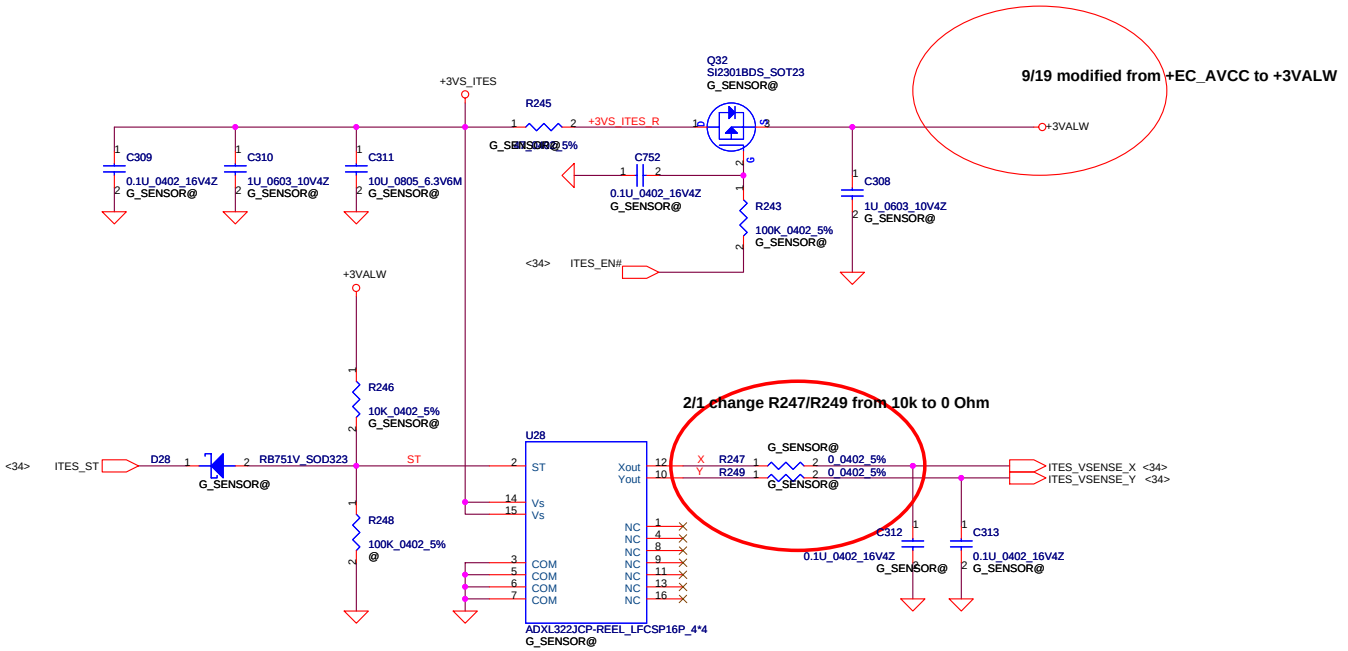
0206 => Note : Change BOM structure from HS@ to G-SENSOR@



Security Classification	Compal Secret Data		
Issued Date	2006/08/05	Deciphered Date	2007/08/05

Compal Electronics, Inc.

Title: CH7315A&HDMI Connector

Size	Document Number	Rev
B	LA-3541P	0.1

Date: Tuesday, February 13, 2007 | Sheet 25 of 53

IDSEL:AD20
(PIRQC#/D#,
GNT#2,
REQ#2)

PCMCIA Power Control

U43 CP2211FD3_SSOP16 PCMCIA@

W=40mil

C706 10U_0805_10V4Z PCMCIA@
C707 0.1U_0402_16V4Z PCMCIA@
C708 10U_0805_10V4Z PCMCIA@
C709 0.1U_0402_16V4Z PCMCIA@
C705 0.1U_0402_16V4Z PCMCIA@
R640 10K_0402_5% PCMCIA@
R638 PCMCIA@ 10K_0402_5%
R639 PCMCIA@ 10K_0402_5%

PCMCIA Socket

JP40 FOX_WZ21131-G2-8F_LT PCMCIA@

12/27 change JP40 footprint to FOX_1CA4A501-A2-4F_68P_LT-S

U44 CB1410BFB0 LFBGA 144P PCMCIA@

PCI Interface

CARDBUS

SD/MMC/MS/SM

NEED CHECK

10/17 : FootPrint : SA007140B10
BOM : SA014100310

CB1410 P/N: SA014100310

Security Classification	Compal Secret Data		
Issued Date	2006/08/04	Deciphered Date	2006/10/06

Compal Electronics, Inc.

Title: PCMCIA_ENE CB1410

Size	Document Number	Rev
Custom	IFTXX LA-3541P	0.1

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Title	<Title>
Size A	Document Number <Doc>
Rev	<RevCode>
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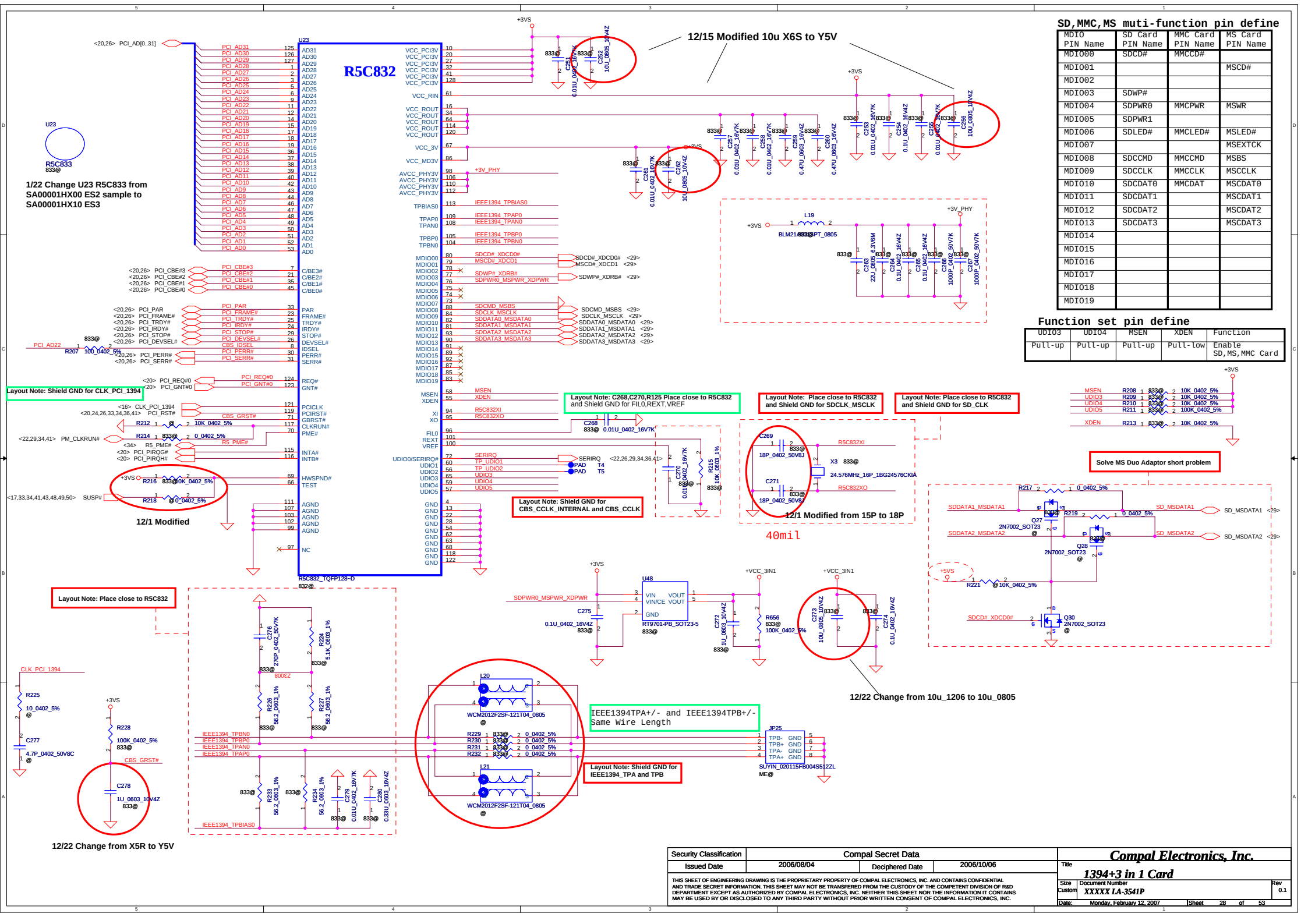
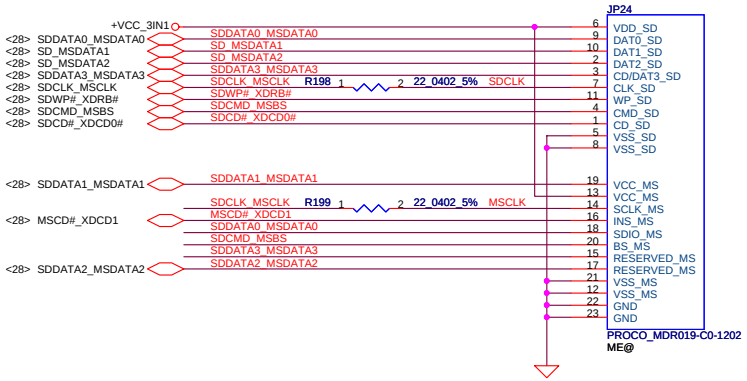

R5C832
U23
R5C833
1/22 Change U23 R5C833 from SA00001HX00 ES2 sample to SA00001HX10 ES3
12/15 Modified 10u X6S to Y5V
SD,MMC,MS muti-function pin define
MDIO PIN Name | SD Card PIN Name | MMC Card PIN Name | MS Card PIN Name
MDIO00 | SDCD# | MMCCD# |
MDIO01 | | | MSCD#
MDIO02 | | |
MDIO03 | SDWP# | |
MDIO04 | SDPWR0 | MMCPWR | MSWR
MDIO05 | SDPWR1 | |
MDIO06 | SDLED# | MMCLED# | MSLED#
MDIO07 | | | MSEXTCK
MDIO08 | SDCCMD | MMCCMD | MSBS
MDIO09 | SDCCLK | MMCCLK | MSCCLK
MDIO10 | SDCDAT0 | MMCDAT | MSCDAT0
MDIO11 | SDCDAT1 | | MSCDAT1
MDIO12 | SDCDAT2 | | MSCDAT2
MDIO13 | SDCDAT3 | | MSCDAT3
MDIO14
MDIO15
MDIO16
MDIO17
MDIO18
MDIO19
Function set pin define
UDIO3 | UDIO4 | MSEN | XDEN | Function
Pull-up | Pull-up | Pull-up | Pull-low | Enable SD,MS,MMC Card
Layout Note: Shield GND for CLK_PCI_1394
Layout Note: C268,C270,R125 Place close to R5C832 and Shield GND for FIL0,REXT,VREF
Layout Note: Place close to R5C832 and Shield GND for SDCLK_MSCLK
Layout Note: Place close to R5C832 and Shield GND for SD_CLK
Solve MS Duo Adaptor short problem
12/1 Modified
Layout Note: Shield GND for CBS_CCLK_INTERNAL and CBS_CCLK
12/1 Modified from 15P to 18P
40mil
Layout Note: Place close to R5C832
12/22 Change from 10u_1206 to 10u_0805
12/22 Change from X5R to Y5V
IEEE1394TPA+/- and IEEE1394TPB+/- Same Wire Length
Layout Note: Shield GND for IEEE1394_TPA and TPB
Security Classification | Compal Secret Data
Issued Date | 2006/08/04 | Deciphered Date | 2006/10/06
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 TRANSFERED 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: 1394+3 in 1 Card
Size: Custom | Document Number: XXXXX LA-3541P | Rev: 0.1
Date: Monday, February 12, 2007 | Sheet 28 of 53

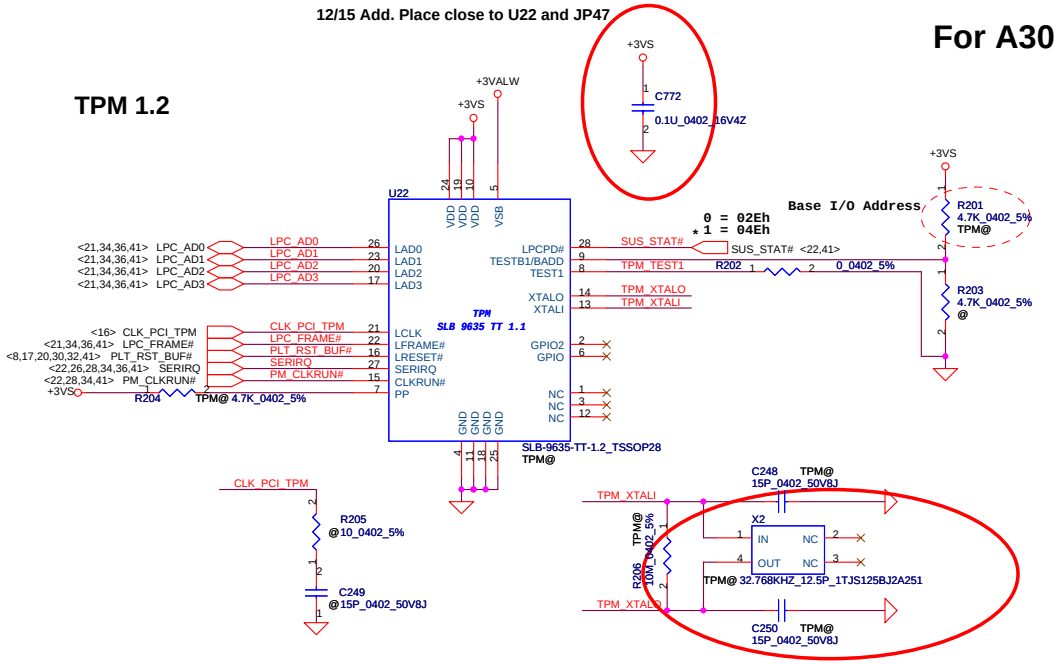
3 in 1 Card Reader



12/15 Add. Place close to U22 and JP47

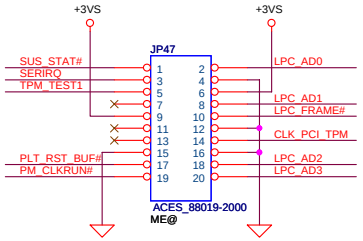
For A30

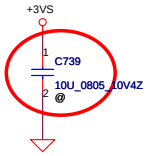
TPM 1.2



12/1 Modified C248 and C250 from 18P to 15P

TPM Conn. For C38





Place this cap close to pin 6 and pin 9

12/15 Modified C739 to @

Security Classification	Compal Secret Data		
Issued Date	2006/08/04	Deciphered Date	2006/10/06

Compal Electronics, Inc.

Title: **INDICATE LED**

Size	Document Number	Rev
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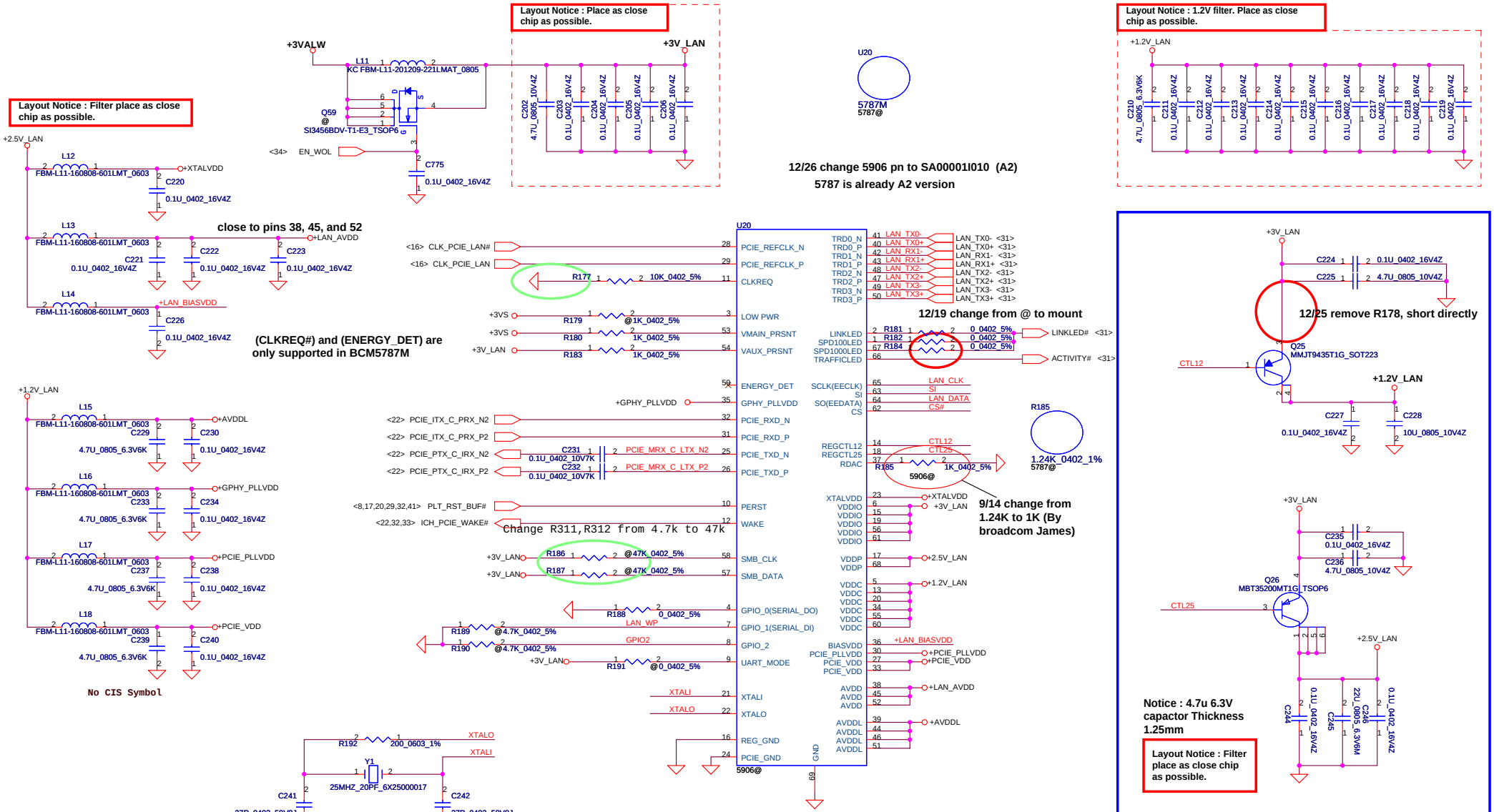
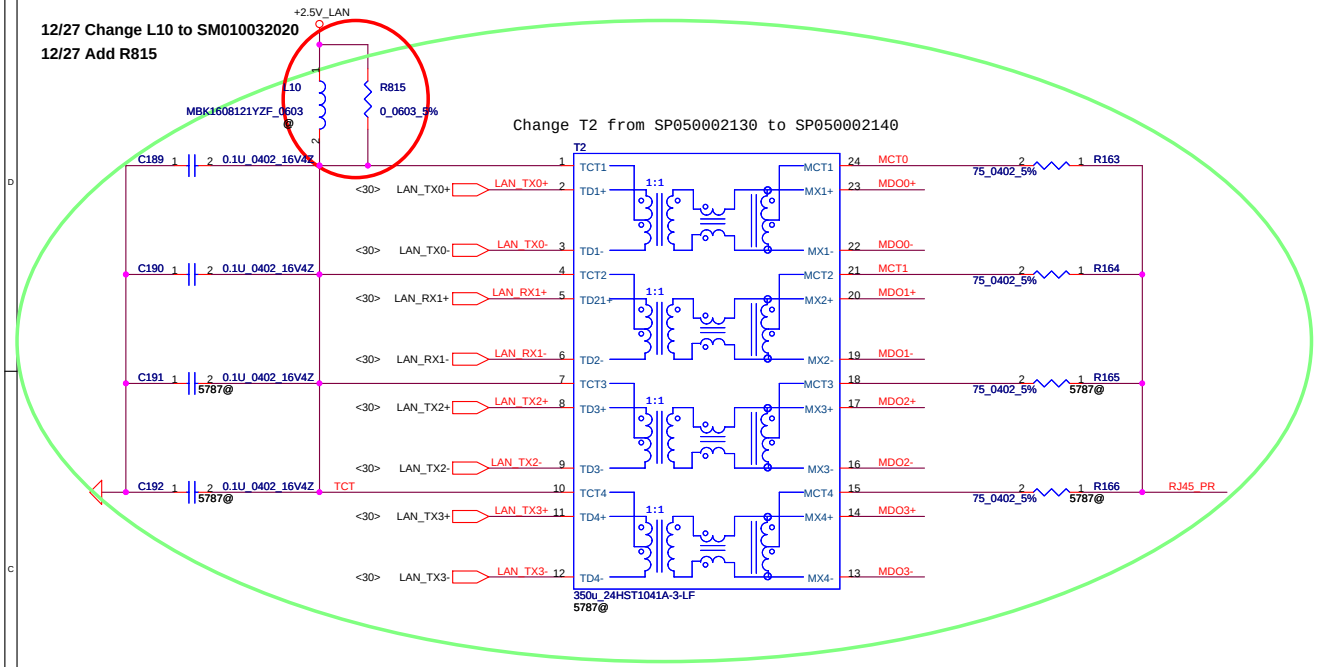
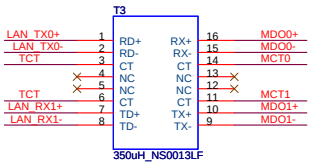


Security Classification	Compal Secret Data		
Issued Date	2006/08/04	Deciphered Date	2006/10/06

Title	BCM5787MKML		
Size: Custom	Document Number: XXXXX LA-3541P		Rev: 0.1
Date: Thursday, February 15, 2007	Sheet 30 of 53		

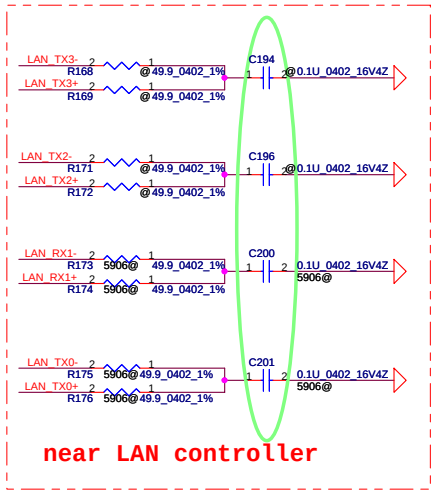
12/27 Change L10 to SM010032020
12/27 Add R815



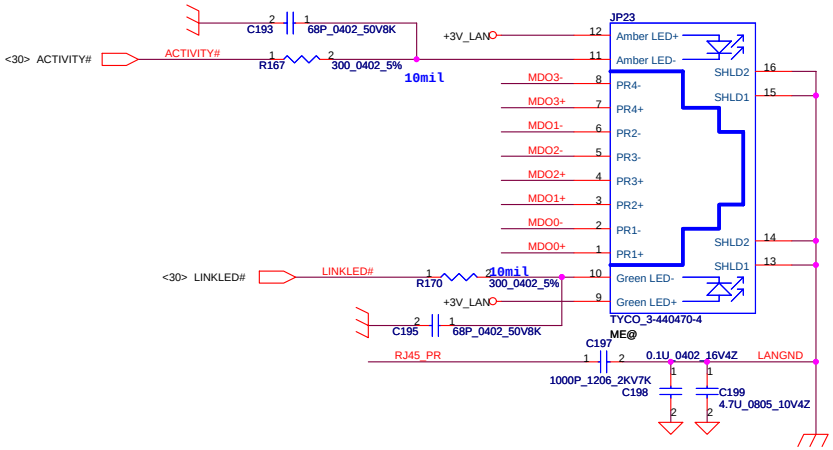


Change T1 from SP050001210 to SP050001210

Change C468,C470,C473,C474,C475,C476 from 0.01uF to 0.1uF



Lan Conn.



Security Classification	Compal Secret Data		
Issued Date	2006/08/04	Deciphered Date	2006/10/06

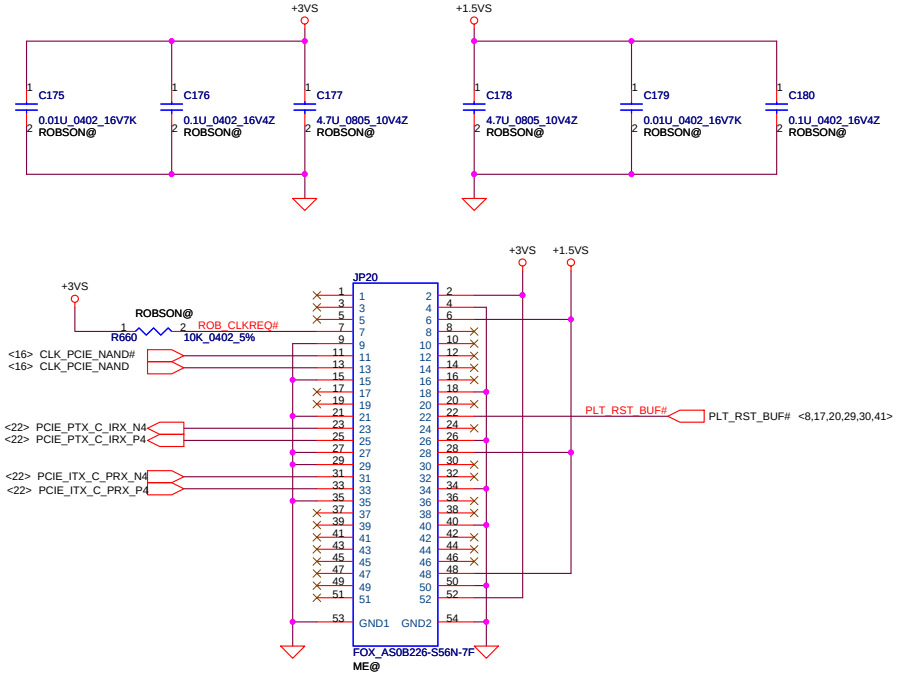
Compal Electronics, Inc.

Title: LAN CONTROLLER

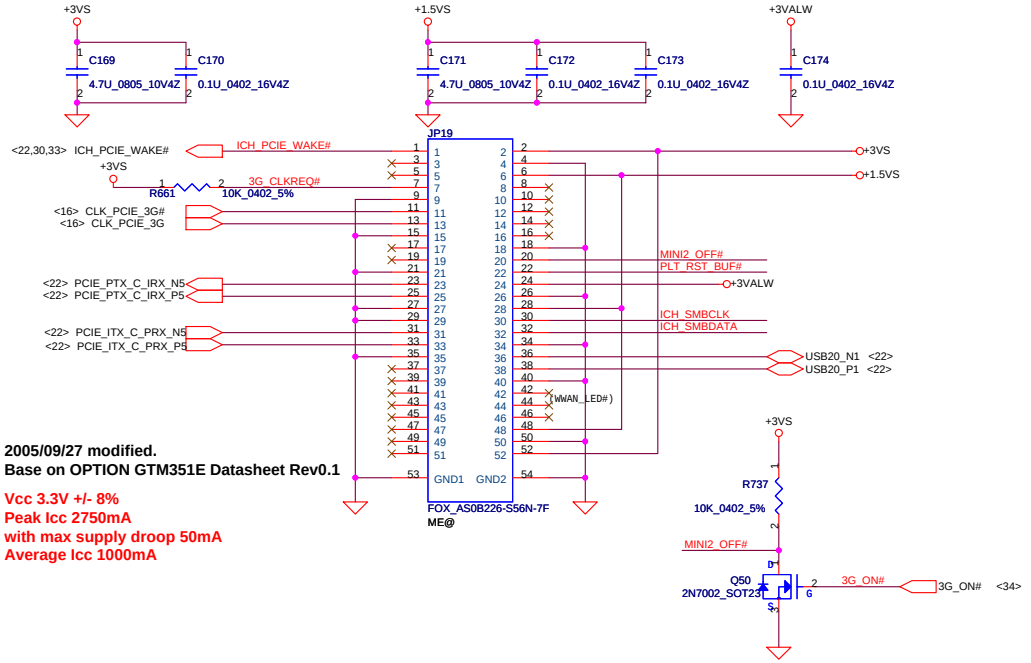
Size	Document Number	Rev
Custom	XXXXX LA-3541P	0.1

Date: Thursday, February 08, 2007 | Sheet 31 of 53

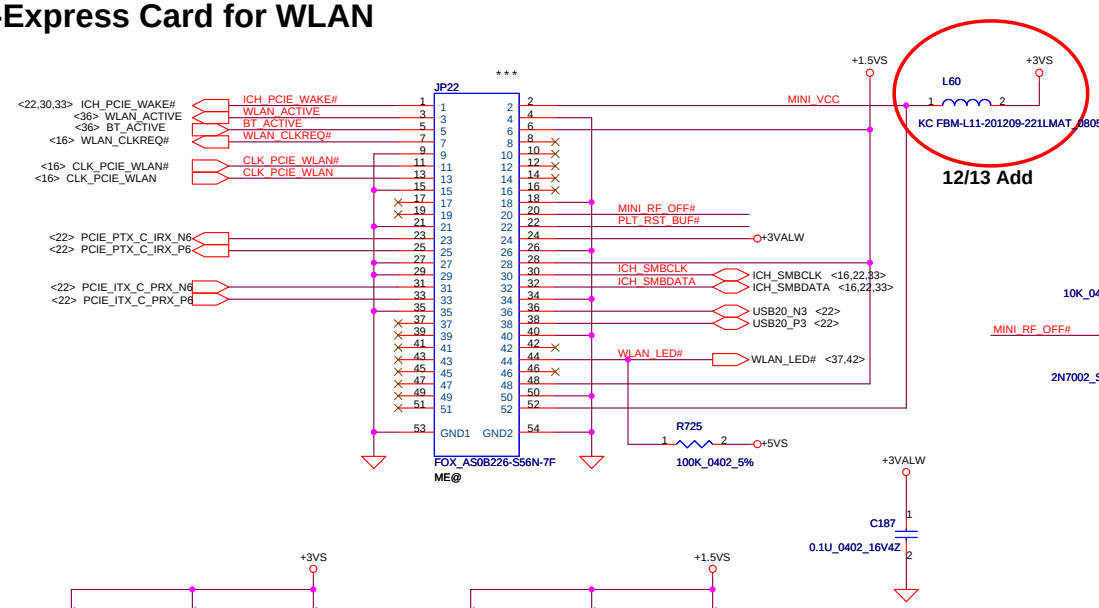
NAND mini Card(Robson support)



Mini-Express Card for 3G Or TV Tuner

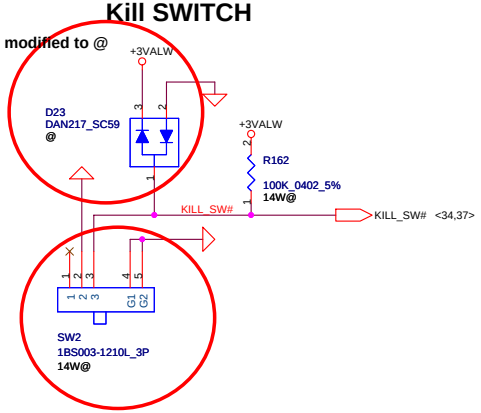


Mini-Express Card for WLAN



Kill SWITCH

12/28 modified to @

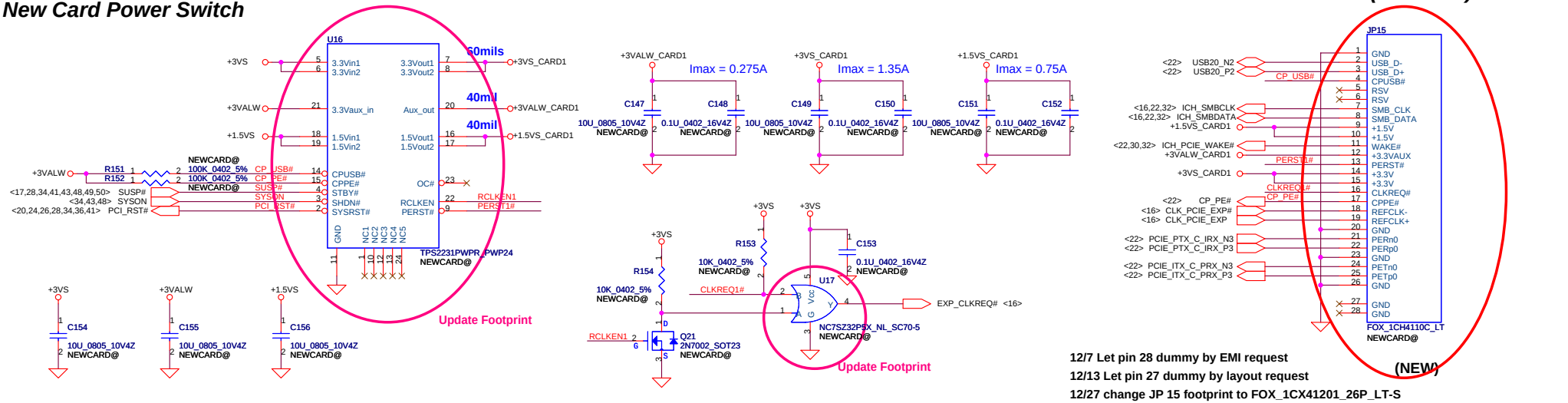


12/19 Change SW2 to correct symbol (by EMI)

Security Classification	Compal Secret Data		
Issued Date	2006/08/05	Deciphered Date	2007/08/05

Compal Electronics, Inc.			
Title: Mini-Card/3G/FeliCa/FP			
Size	Document Number: LA-3541P		Rev: 0.1
Date: Friday, February 09, 2007	Sheet 32 of 53		

New Card Power Switch

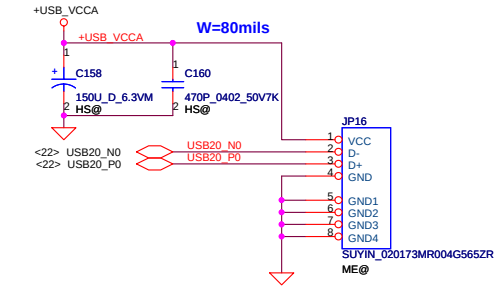


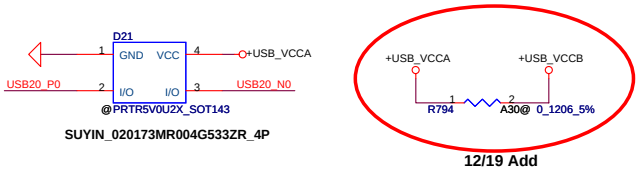
New Card Socket (Left/TOP)

12/7 Let pin 28 dummy by EMI request
12/13 Let pin 27 dummy by layout request
12/27 change JP 15 footprint to FOX_1CX41201_26P_LT-S

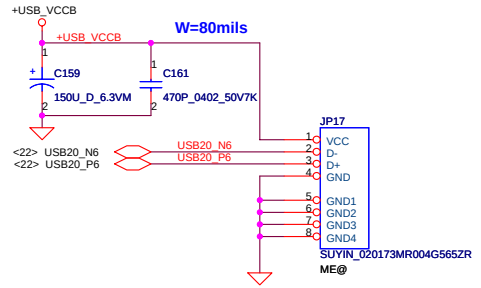
(NEW)

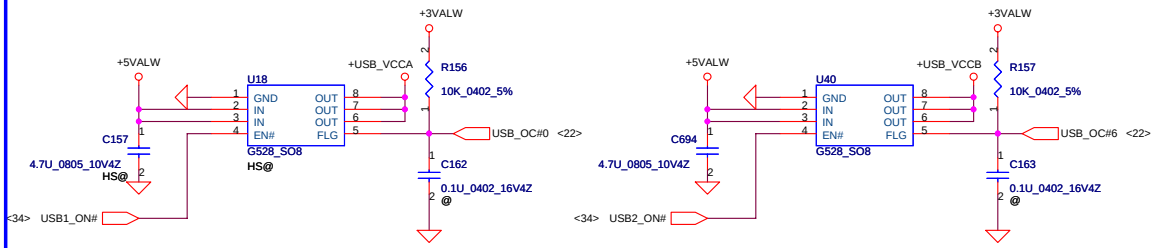
USB CONN. 1





USB CONN. 2





9/17 modified this block

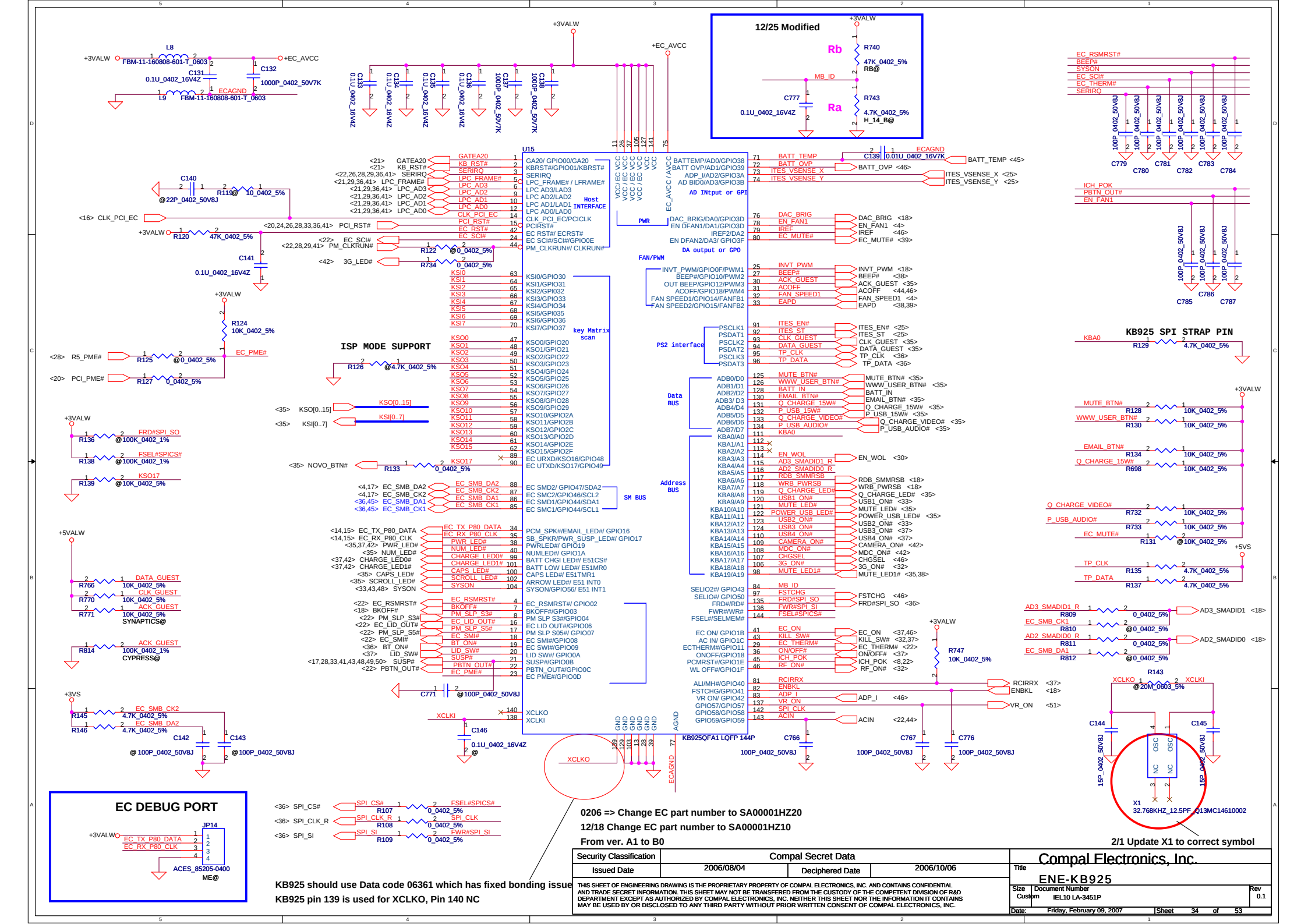
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: NEW CARD & USB Connector

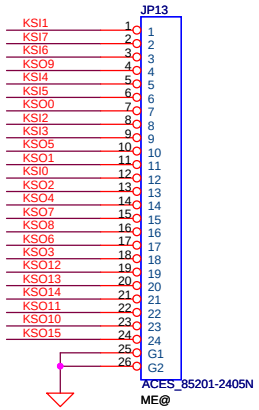
Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Friday, February 09, 2007 | Sheet 33 of 53

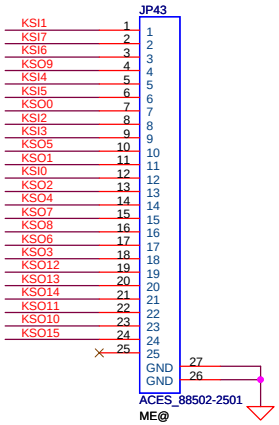

12/25 Modified
Rb
Ra
ISP MODE SUPPORT
EC DEBUG PORT
KB925 SPI STRAP PIN
U15
KB925QFA1 LQFP 144P
Host INTERFACE
PWR
FAN/PWM
key Matrix scan
PS2 interface
Data BUS
Address BUS
SM BUS
AD INtput or GPI
DA output or GPO
SYNAPTICS@
CYPRESS@
0206 => Change EC part number to SA00001HZ20
12/18 Change EC part number to SA00001HZ10
From ver. A1 to B0
KB925 should use Data code 06361 which has fixed bonding issue
KB925 pin 139 is used for XCLKO, Pin 140 NC
2/1 Update X1 to correct symbol
Compal Electronics, Inc.
ENE-KB925
Compal Secret Data
2006/08/04
2006/10/06
IEL10 LA-3451P
Friday, February 09, 2007
34 of 53

INT_KBD Conn.

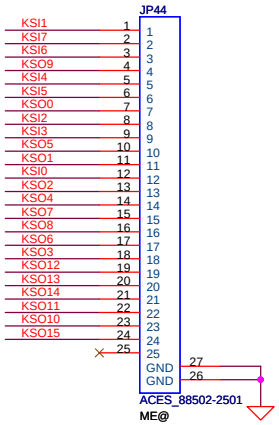
For IFT10

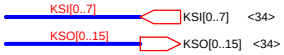


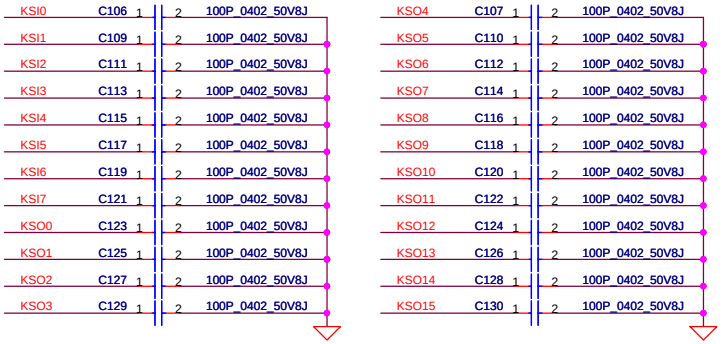
For IFL90



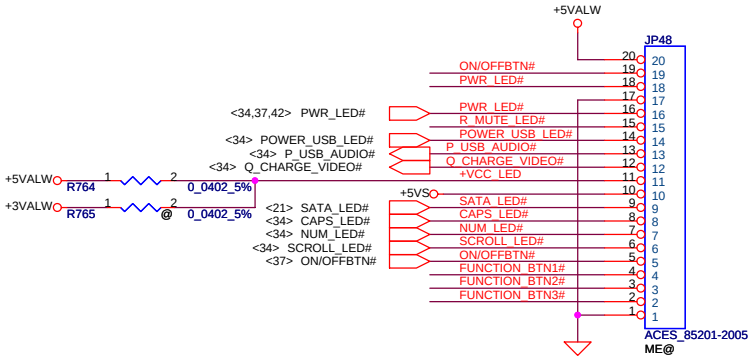
For IFT00

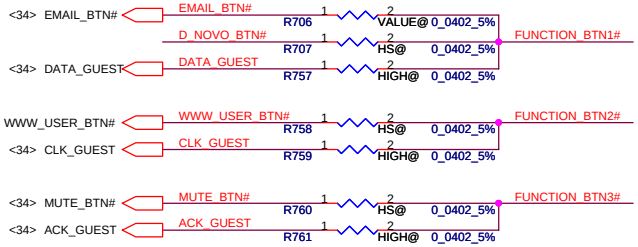


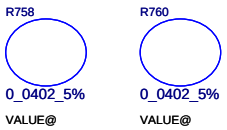


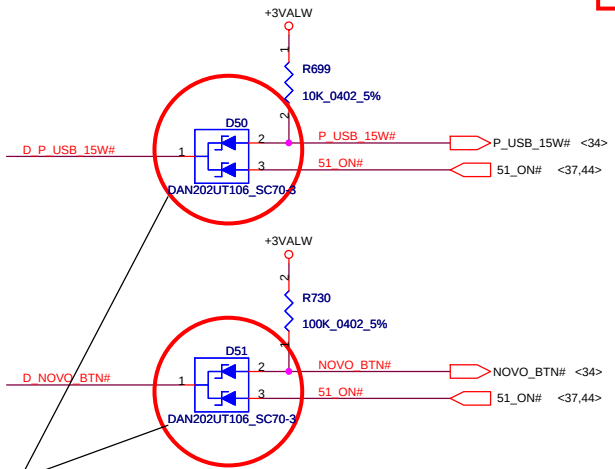


Switch Board Conn.

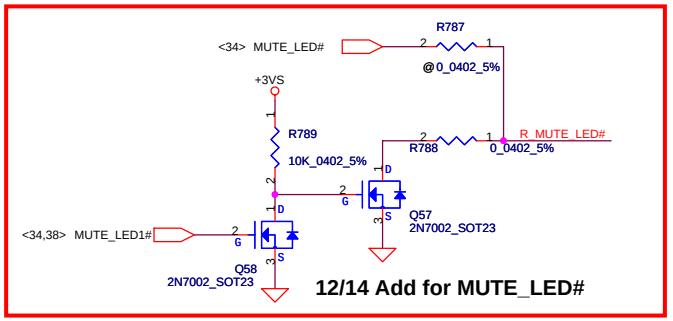






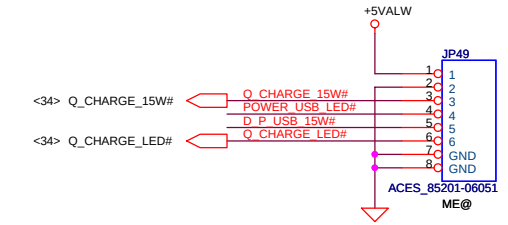


12/4 Change D50/D51 to correct symbols



12/14 Add for MUTE_LED#

Video Switch Board Conn.



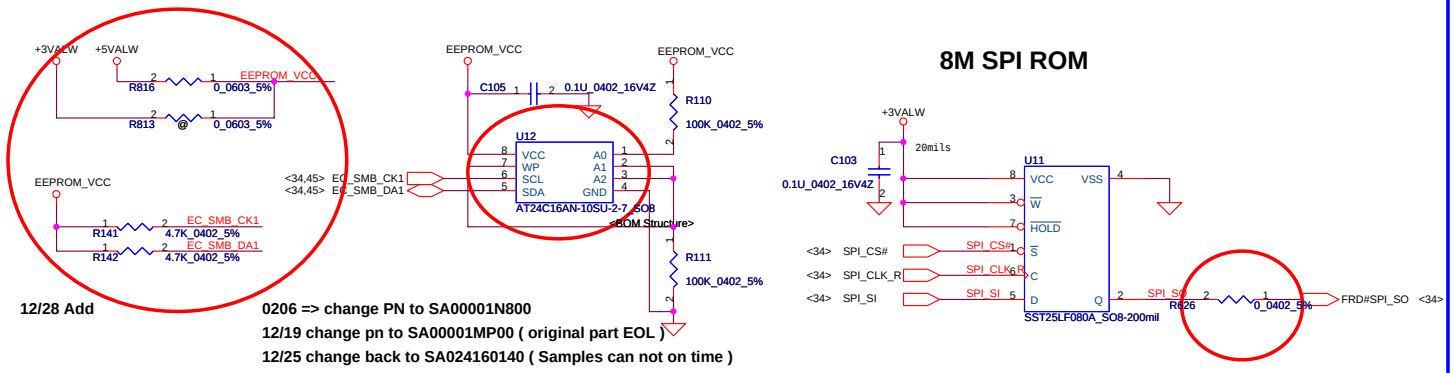
Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: EC ENE KB910L(Reserved)

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Friday, February 09, 2007 Sheet 35 of 53



12/28 Add

0206 => change PN to SA00001N800

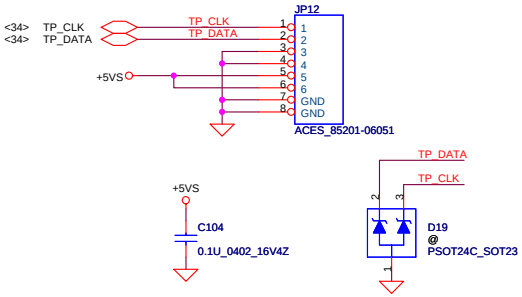
12/19 change pn to SA00001MP00 (original part EOL)

12/25 change back to SA024160140 (Samples can not on time)

8M SPI ROM

12/15 change from 15 to 0 ohm'

To TP/B Conn.



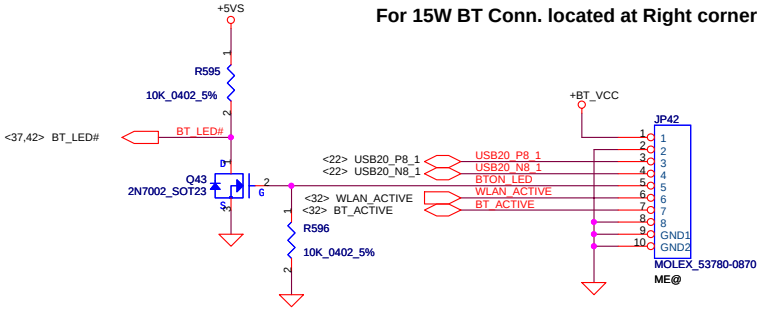
Update Footprint

Bluetooth Conn.

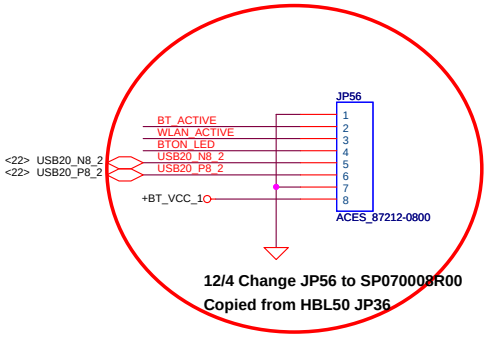
Need to check BT pin definition again!

9/20 modified this block

For 15W BT Conn. located at Right corner

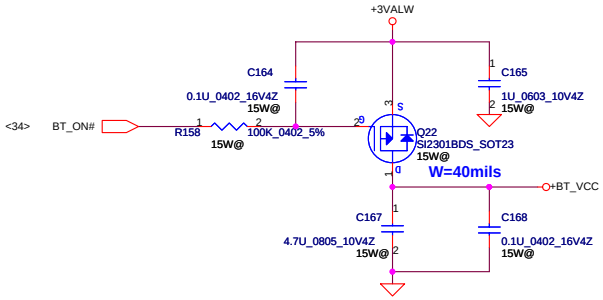


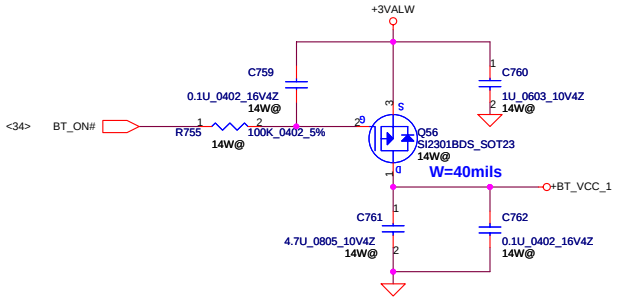
For 14W BT Conn. located at Left corner



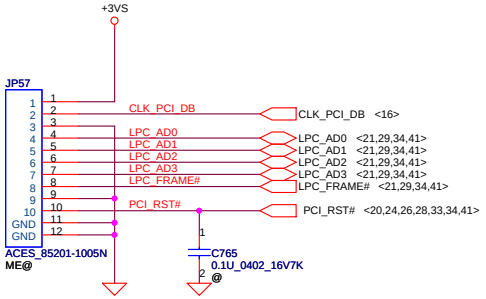
12/4 Change JP56 to SP070008R00

Copied from HBL50 JP36

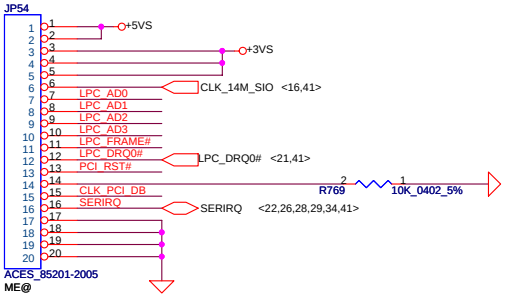




FOR LPC DEBUG PORT



FOR LPC SIO DEBUG PORT



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: BIOS, I/O Port & K/B Connector

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Friday, February 09, 2007 | Sheet 36 of 53

ON/OFF switch

TOP Side

J3 @JOPEN

J4 @JOPEN

Bottom Side

12/4 Change D14 to correct symbols

+3VALW

R99 100K_0402_5%

<35> ON/OFFBTN# — ON/OFFBTN# — D14 DAN202UT106_SC70-3 — ON/OFF# — ON/OFF# <34>

51_ON# <35,44>

Power Button

C97 1000P_0402_50V7K

D16 RLZ20A_LL34

<BOM Structure>

<34,46> EC_ON — EC_ON — Q18 2N7002_SOT23

R100 10K_0402_5%

Front LED Board

+3VALW +5VS +5VALW

JP51 ACES_87213-1600G ME@

<34,35,42> PWR_LED# — PWR_LED#

<34,42> CHARGE_LED0# — CHARGE_LED0#

<34,42> CHARGE_LED1# — CHARGE_LED1#

<36,42> BT_LED# — BT_LED#

<32,42> WLAN_LED#

<32,34> KILL_SW# — KILL_SW#

LID_SW#

<34> RCIRRX — RCIRRX

Lid Switch

+3VALW — R654 0_0402_5% 14W@ — +VCC_LID — R655 100K_0402_5% 14W@

U45 A3212ELHLT-T_SOT23W-3 14W@ (VDD, OUTPUT, GND)

C728 0.1U_0402_16V4Z 14W@

C729 10P_0402_50V8J 14W@

LID_SW# <34>

Layout Notice: A30 IO Conn. — C38 IO Conn. — USB20_P4 / USB20_N4 pair

0208 Add 220P for EMI

DCD# C798 220P_0402_50V7K

DSR# C799 220P_0402_50V7K

RXD C800 220P_0402_50V7K

RTS# C801 220P_0402_50V7K

TXD C802 220P_0402_50V7K

CTS# C803 220P_0402_50V7K

DTR# C804 220P_0402_50V7K

RI# C805 220P_0402_50V7K

<BOM Structure>

0207 Add JP59 0209 Change Symbol for GND PAD

For 15W IO Conn.

+USB_VCCD +USB_VCCD

JP59 ACES_85201-1205_12P ME@

USB20_N4 USB20_P4 USB20_N5 USB20_P5

For 14W IO Conn.

+USB_VCCD +USB_VCCD

JP52 E&T_3703-E12N-03R ME@

<22> USB20_N4 <22> USB20_P4 <22> USB20_N5 <22> USB20_P5

For C38 IO Conn.

+USB_VCCD

JP53 ACES_87213-1600G ME@

USB20_N4 USB20_P4

<41> DCD# <41> DSR# <41> RXD <41> RTS# <41> TXD <41> CTS# <41> DTR# <41> RI#

To USB CONN. 3

+USB_VCCD +USB_VCCD W=80mils

C740 150U_D_6.3VM C742 470P_0402_50V7K

To USB CONN. 4

+USB_VCCD +USB_VCCD W=80mils

C741 150U_D_6.3VM C743 470P_0402_50V7K

+USB_VCCD +USB_VCCD

R795 A30@ 0_1206_5%

12/19 Add

12/27 modified to A30@

+5VALW +USB_VCCD

U46 G528_SO8

C744 4.7U_0805_10V4Z

C746 0.1U_0402_16V4Z @

<34> USB3_ON# — USB_OC#4 <22>

+5VALW +USB_VCCD

U47 G528_SO8 @

C745 4.7U_0805_10V4Z @

C747 0.1U_0402_16V4Z @

<34> USB4_ON# — USB_OC#5 <22>

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

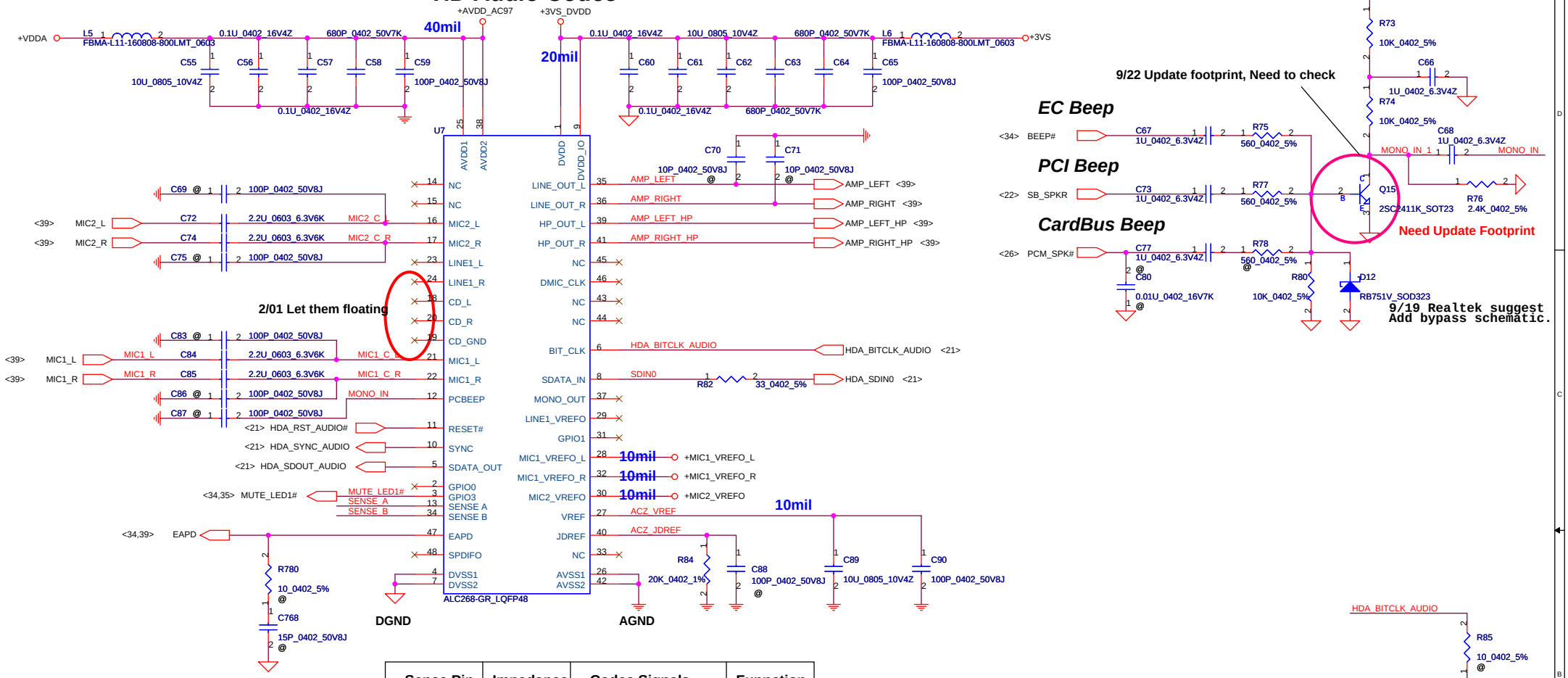
Compal Electronics, Inc.

Title: Power OK, Reset and RTC Circuit, TP

Size: B | Document Number: IFTXX M/B LA-3541P Schematic | Rev: 0

Date: Friday, February 09, 2007 | Sheet 37 of 53

HD Audio Codec



9/22 Update footprint, Need to check

EC Beep

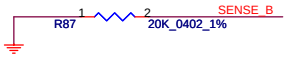
PCI Beep

CardBus Beep

Sense Pin	Impedance	Codec Signals	Funnction
SENSE A / B	39.2K	PORT-A (PIN 39, 41)	HP
	20K	PORT-B (PIN 21, 22)	MIC
	10K	PORT-C (PIN 23, 24)	LINE IN
	5.1K	PORT-D (PIN 35, 36)	LINE Out
SENSE B	39.2K	PORT-E (PIN 14, 15)	HP
	20K	PORT-F (PIN 16, 17)	MIC
	10K	PORT-G (PIN 43, 44)	LINE IN
	5.1K	PORT-H (PIN 45, 46)	LINE Out

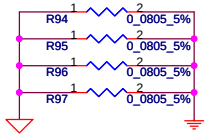
SENSE FOR Ext. Mic.

SENSE FOR Solo Int. Mic.

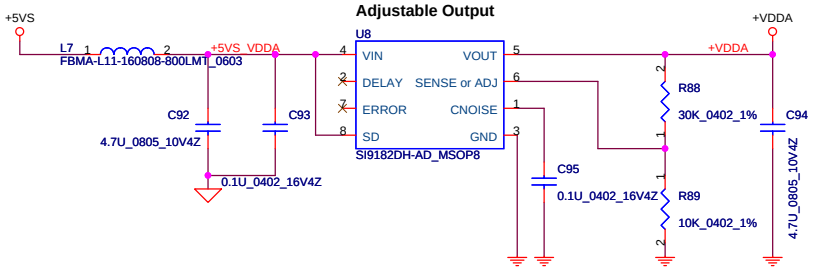


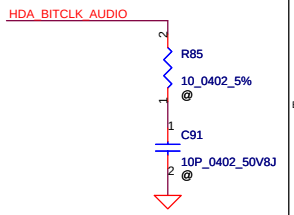
SENSE FOR HP

Moat Bridge



Regulator for CODEC





Security Classification	Compal Secret Data		
Issued Date	2006/08/05	Deciphered Date	2007/08/05

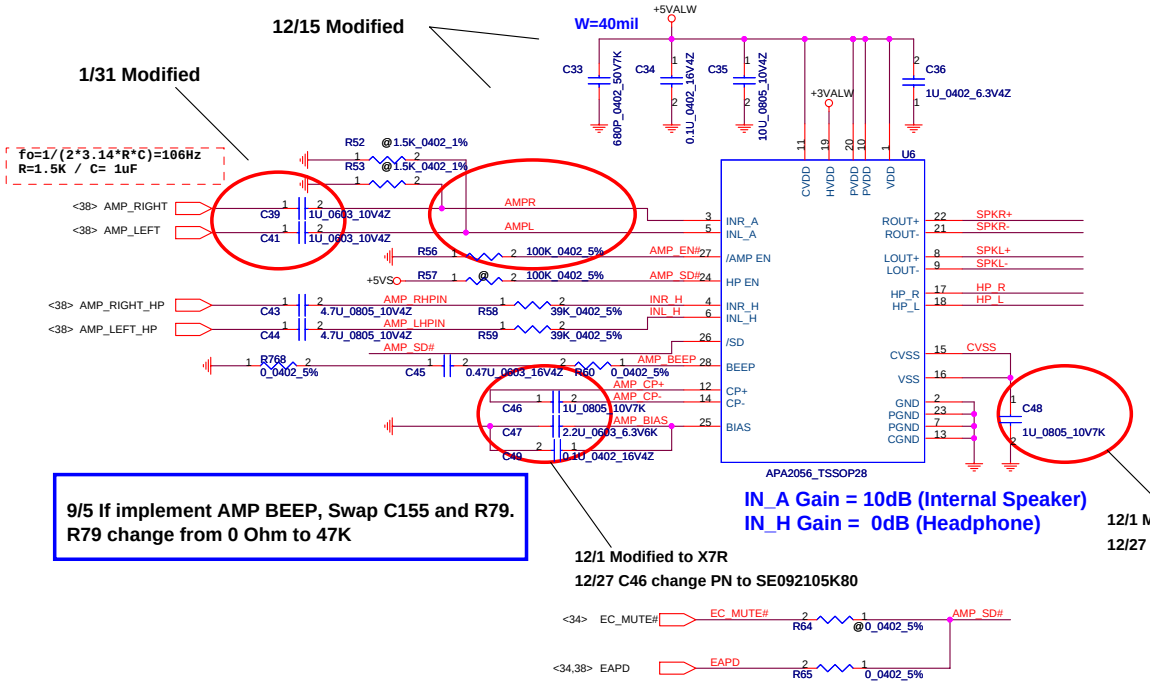
Compal Electronics, Inc.

Title: <Title> HD Audio Codec ALC268

Size: Custom | Document Number: LA-3541P | Rev: 0.1

Date: Friday, February 09, 2007 | Sheet 38 of 53

APA2056 SPK/HP Amplifier

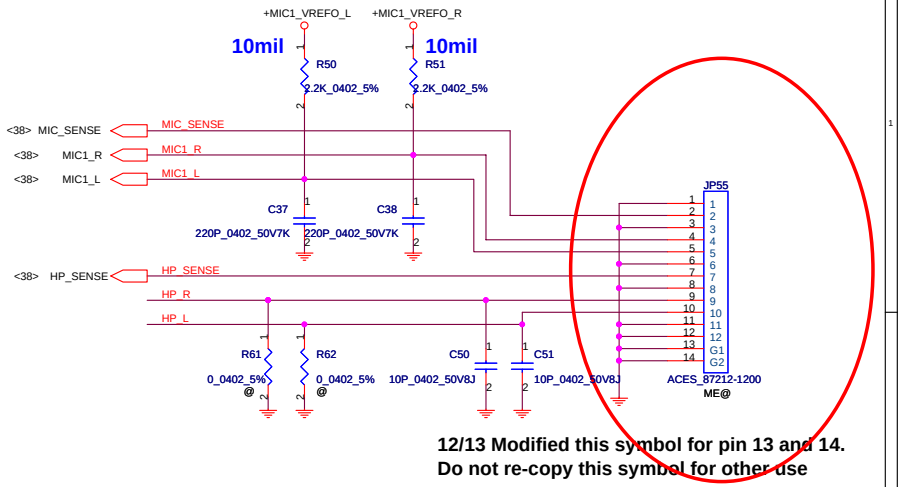


9/5 If implement AMP BEEP, Swap C155 and R79.
R79 change from 0 Ohm to 47K

IN_A Gain = 10dB (Internal Speaker)
IN_H Gain = 0dB (Headphone)

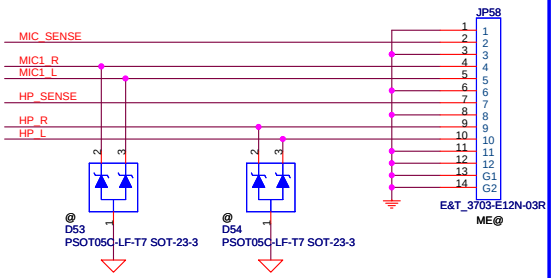
12/1 Modified to X7R
12/27 C46 change PN to SE092105K80

12/1 Modified to X7R
12/27 C48 change PN to SE092105K80



12/13 Modified this symbol for pin 13 and 14.
Do not re-copy this symbol for other use

12/7 Added for 15w" use

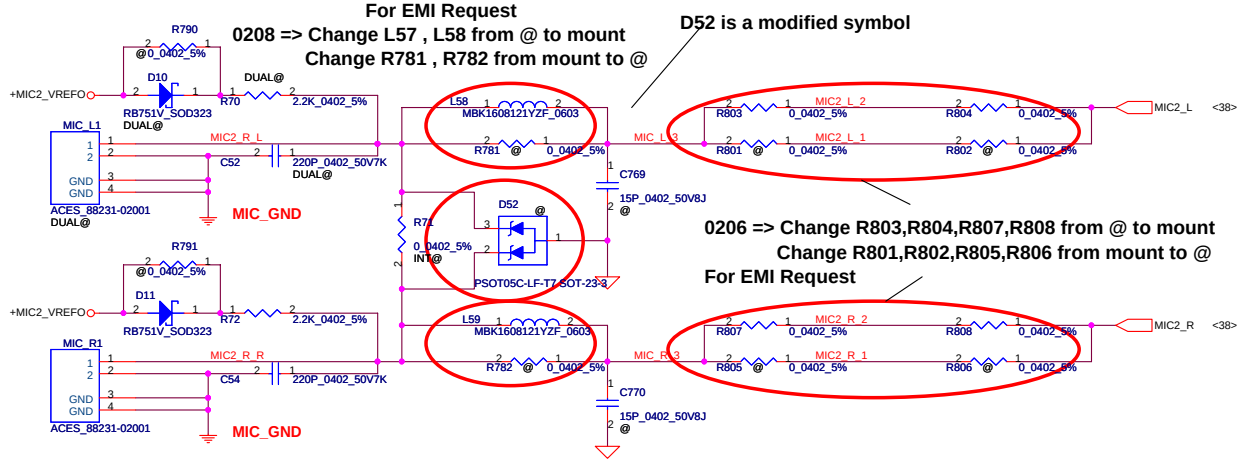


SINGLE INT MIC/DUAL INT MIC

2/01 Add D52 for INT MIC use(PN:SCD0T05CA20)

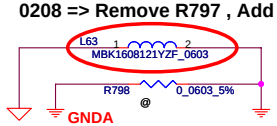
D52 is a modified symbol

For EMI Request
0208 => Change L57 , L58 from @ to mount
Change R781 , R782 from mount to @



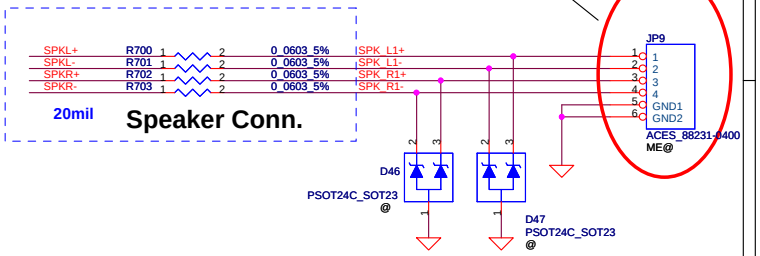
0206 => Change R803,R804,R807,R808 from @ to mount
Change R801,R802,R805,R806 from mount to @
For EMI Request

0208 => Remove R797 , Add L63 For EMI Request



12/21 Place these parts close to CODEC (U7)

1/31 change JP9 following JP50



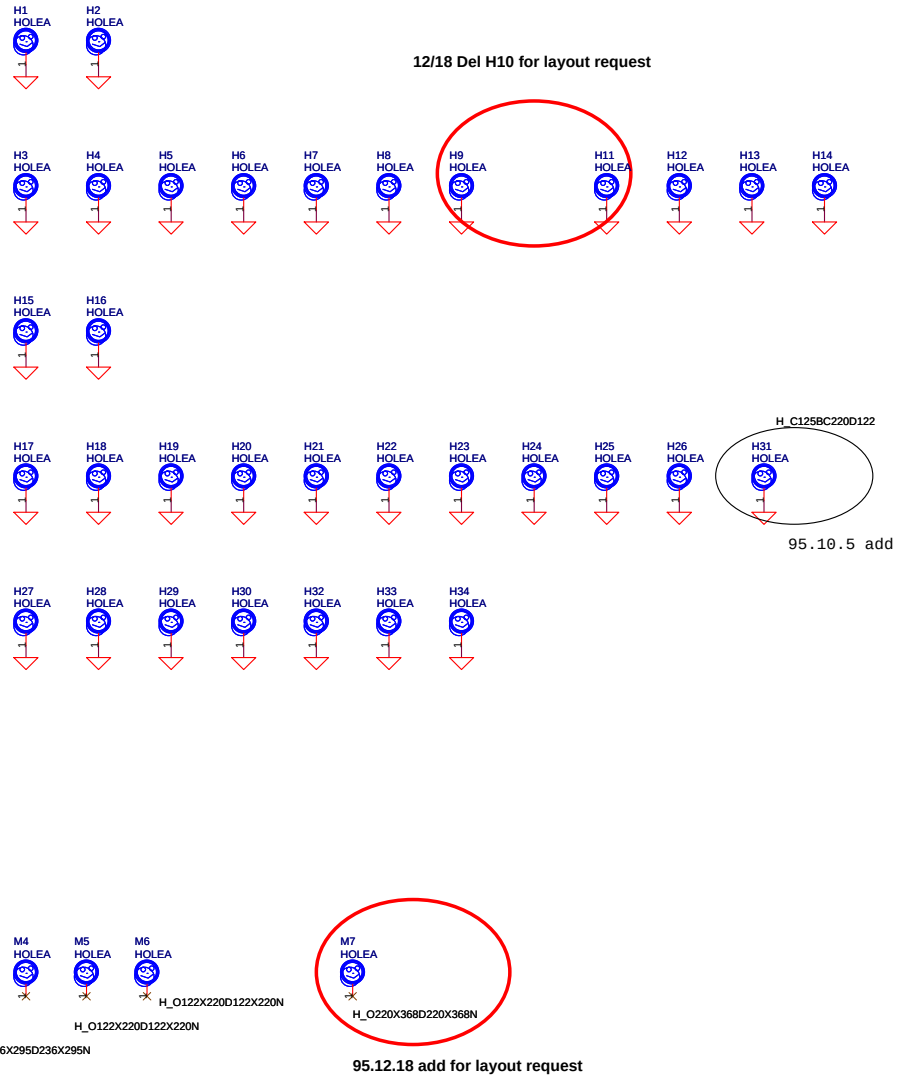
Security Classification	Compal Secret Data		
Issued Date	2006/08/05	Deciphered Date	2007/08/05

Compal Electronics, Inc.

Title: AMP/VR/Audio Jack/MIC

Size	Document Number	Rev
Custom	LA-3541P	0.1

Date: Thursday, February 15, 2007 | Sheet 39 of 53



Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

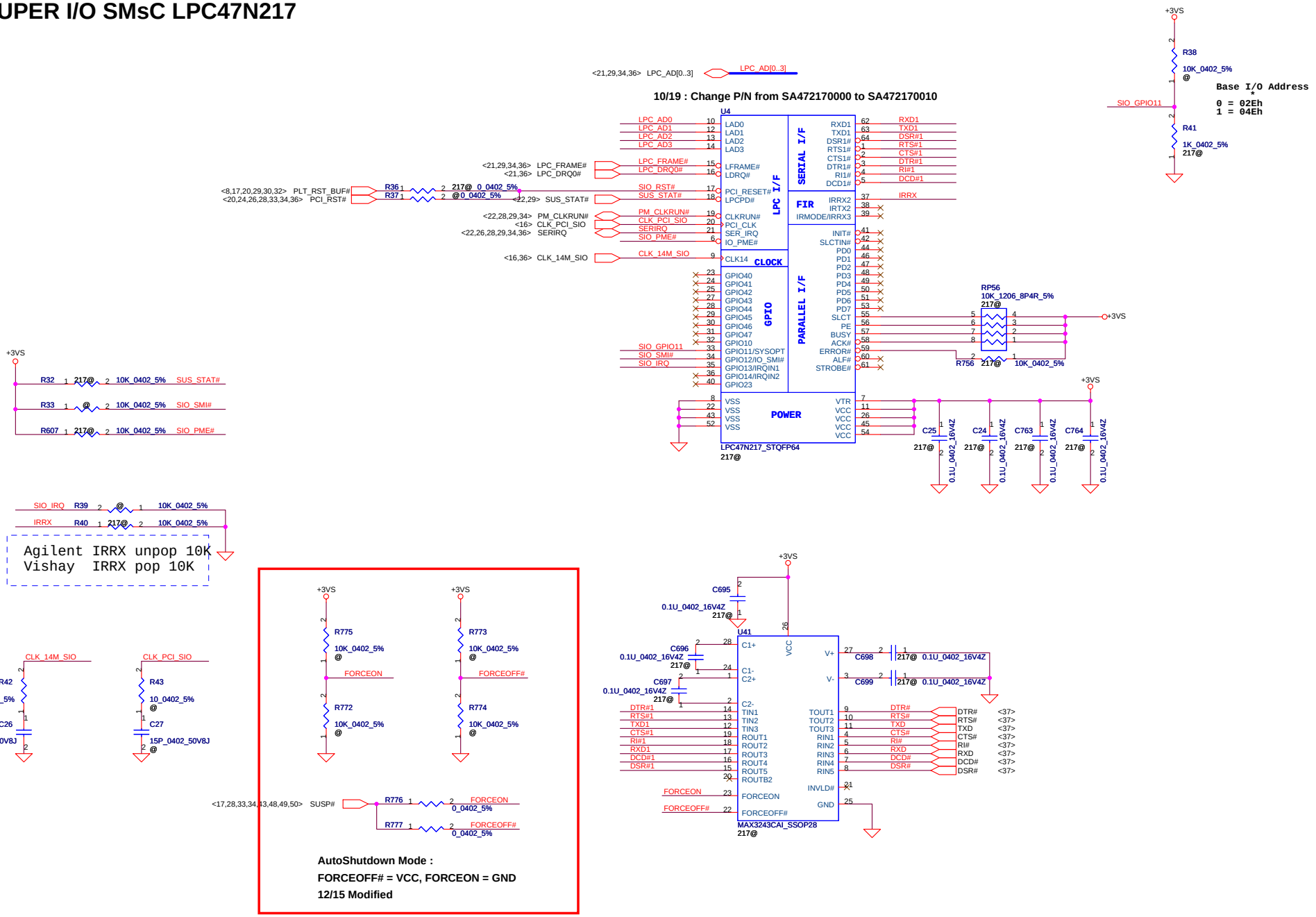
Compal Electronics, Inc.

Title: FAN & Screw Hole

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 08, 2007 Sheet 40 of 53

SUPER I/O SMsC LPC47N217



9/18 modify this page following IGT1x

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

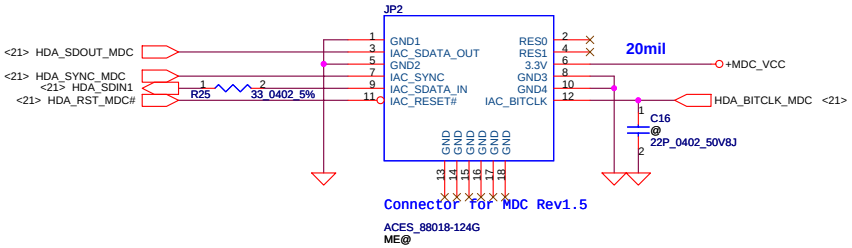
Compal Electronics, Inc.

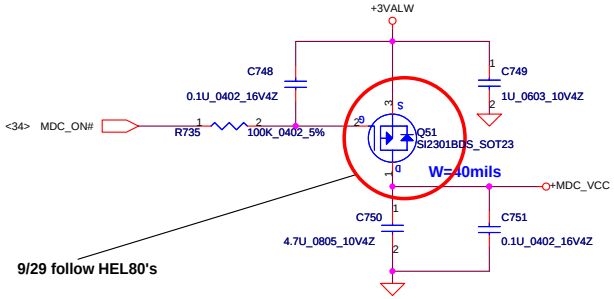
Title: **SUPER I/O LPC47N217**

Size	Document Number	Rev
	LA-3541P UMA	0.2

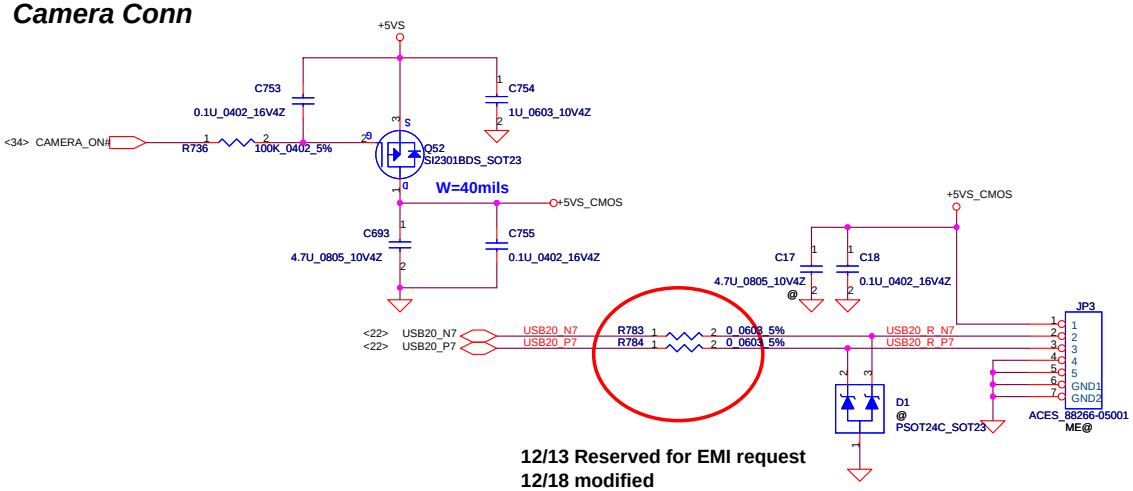
Date: Friday, February 09, 2007 | Sheet 41 of 53

MDC Conn.



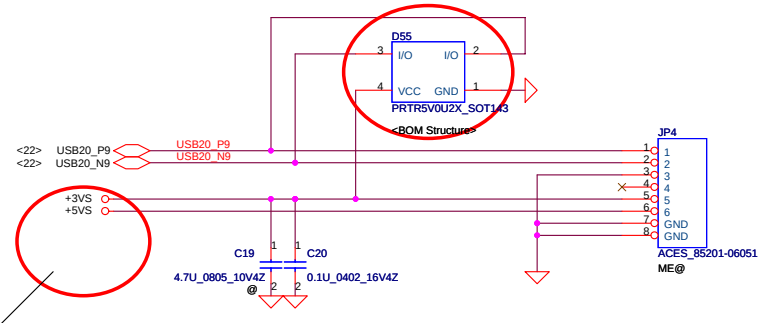


Camera Conn

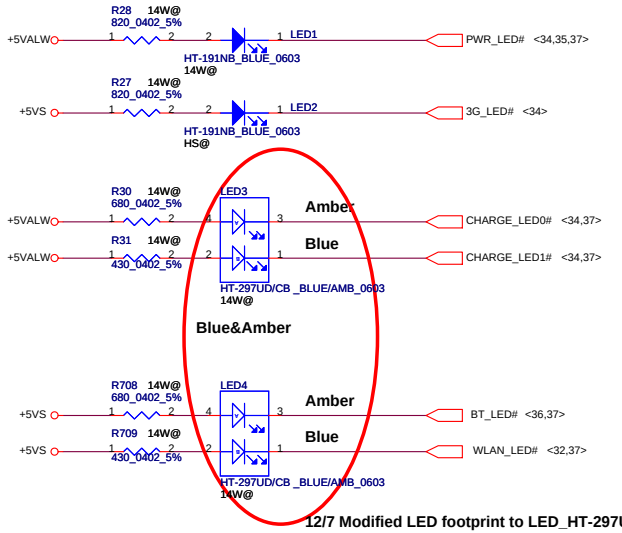


Finger Print board

1/05 Modified D3 to SCA00000A00 For EMI
0208 Remove D3 , Add D55 (SC300000G00)



LED



12/7 Modified LED footprint to LED_HT-297UD-CB_4P
12/15 Modified to correct LED symbol!

Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

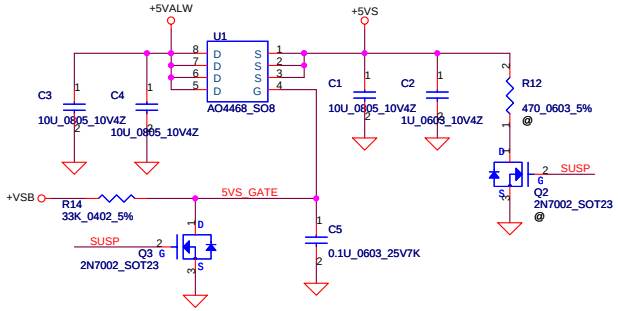
Title: MDC/CIR & LED

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

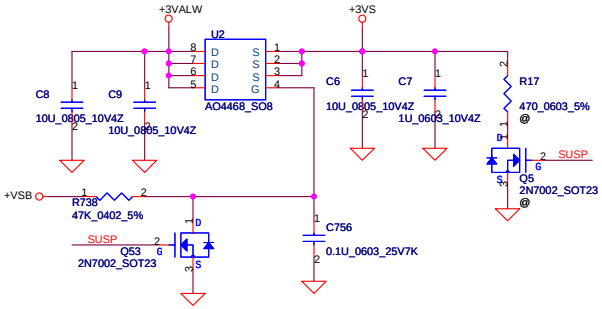
Date: Thursday, February 15, 2007 | Sheet 42 of 53

1/18 Change U3 PN from
SB000009580 to SB000005D80

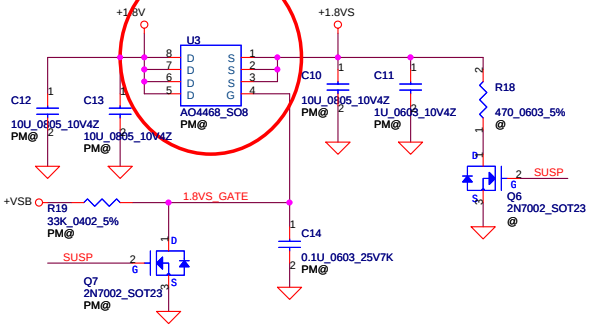
+5VALW TO +5VS

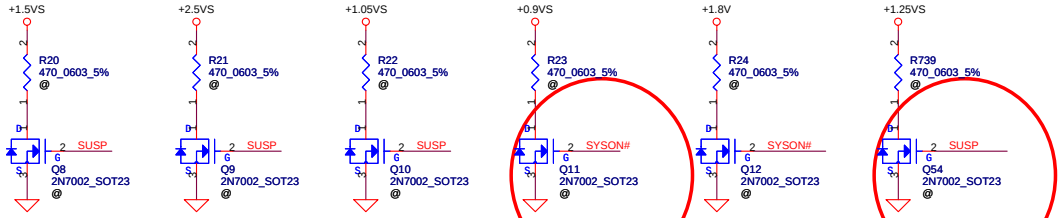


+3VALW TO +3VS

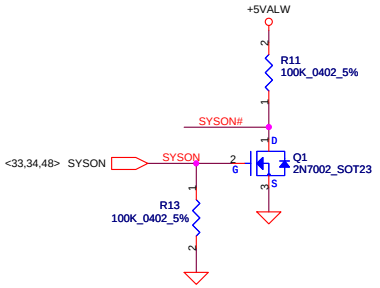


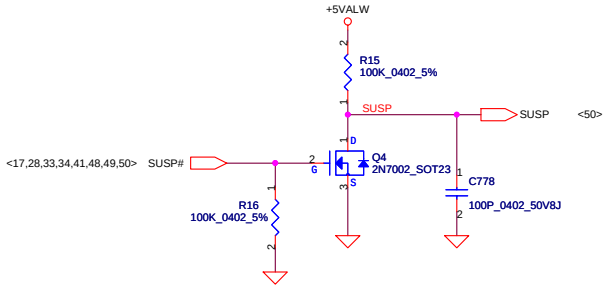
+1.8V to +1.8VS





12/7 Modified





Security Classification	Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18

Compal Electronics, Inc.

Title: DC Interface

Size	Document Number	Rev
B	IFTXX M/B LA-3541P Schematic	0

Date: Thursday, February 08, 2007 | Sheet 43 of 53

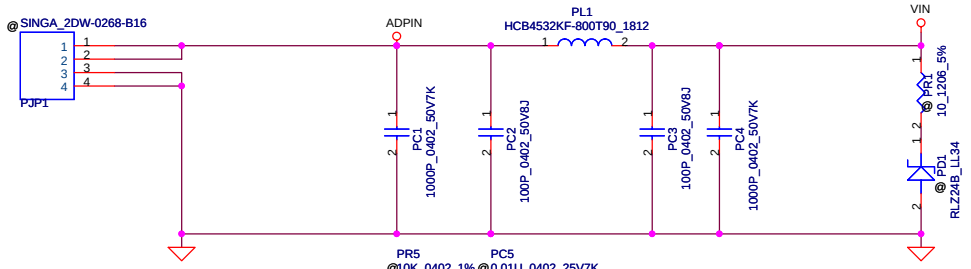
DC301001Y00

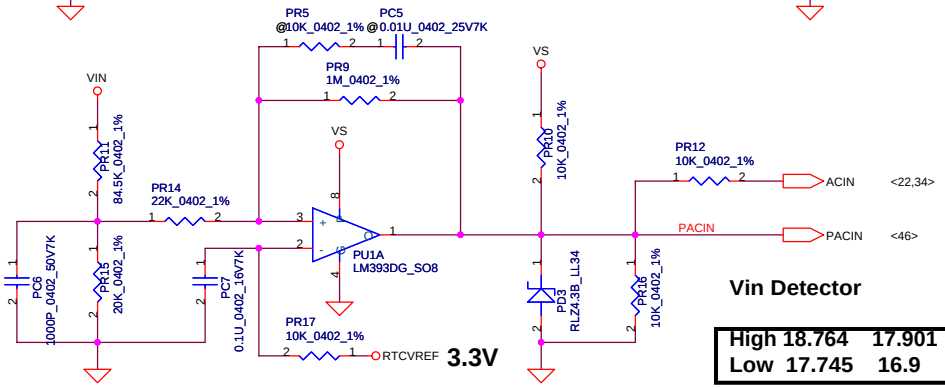
ACIN

Precharge detector	Min.	typ.	Max.
H-->L	14.589V	14.84V	15.243V
L-->H	15.562V	15.97V	16.388V

BATT ONLY

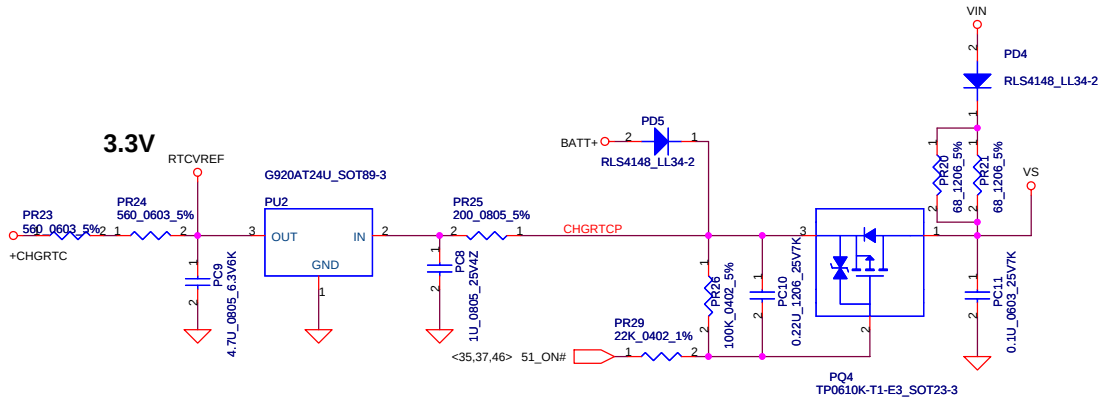
Precharge detector	Min.	typ.	Max.
H-->L	6.138V	6.214V	6.359V
L-->H	7.196V	7.349V	7.505V

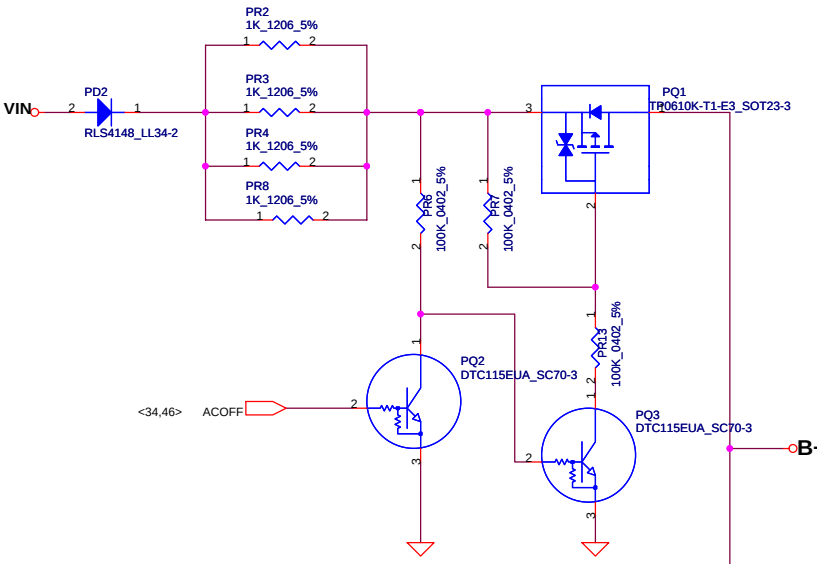


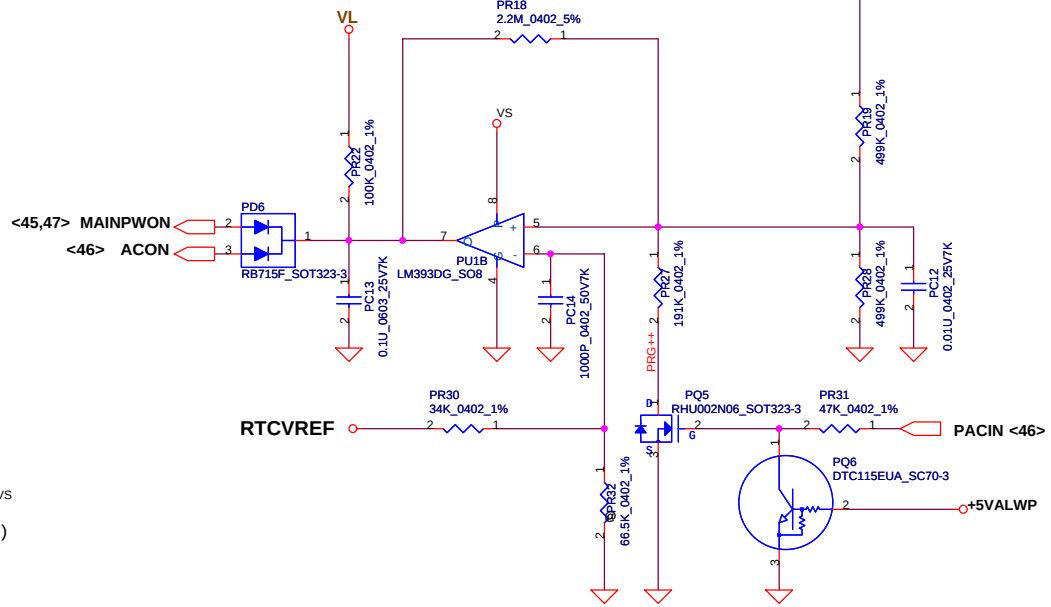


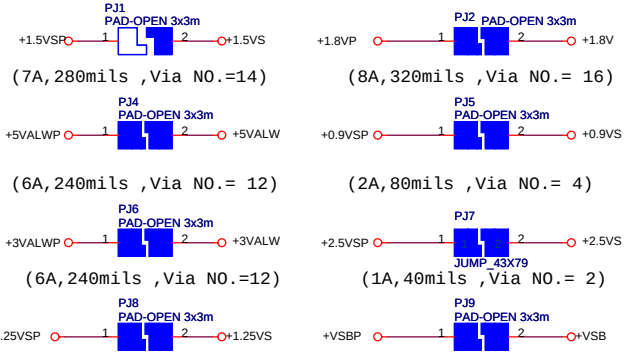
Vin Detector

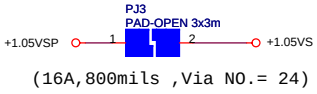
High	18.764	17.901	17.063
Low	17.745	16.9	16.03











Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: **DCIN/DECTOR**

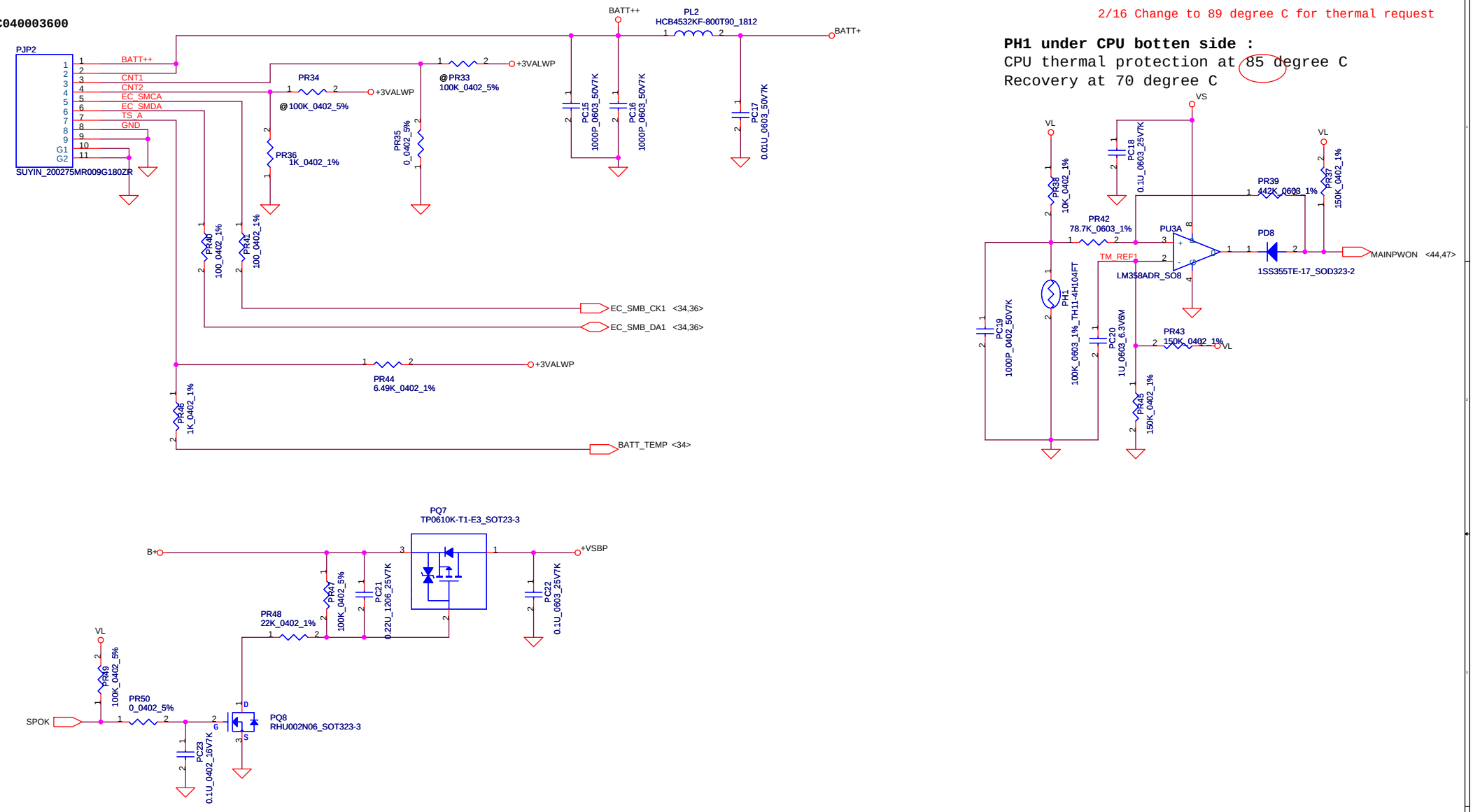
Size	Document Number	Rev
B		0.2

Date: Friday, February 16, 2007 | Sheet 44 of 52

DC040003600

2/16 Change to 89 degree C for thermal request

PH1 under CPU botten side :
CPU thermal protection at 85 degree C
Recovery at 70 degree C



Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

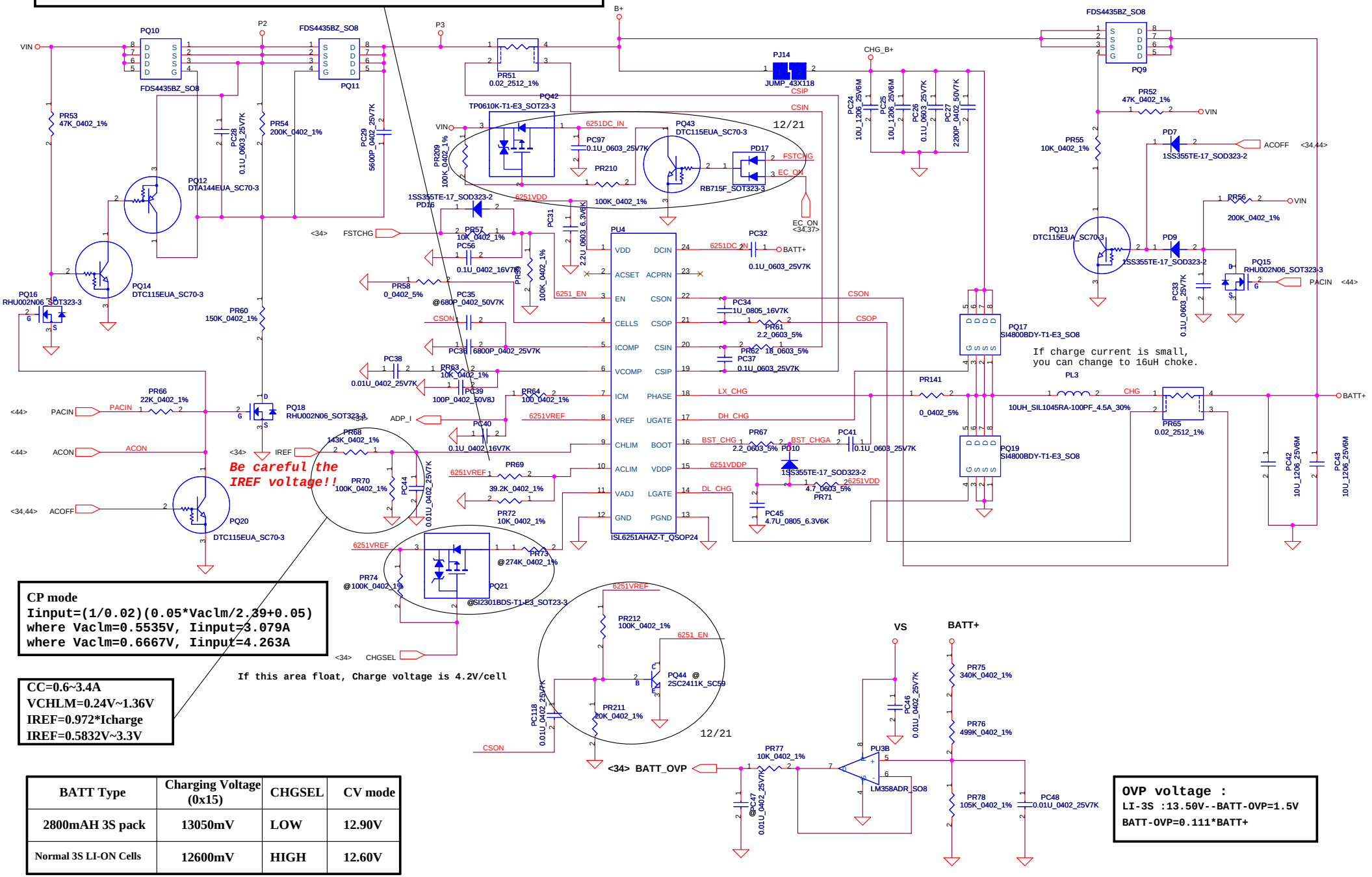
Title: **BATTERY CONN. / OTP**

Size	Document Number	Rev
B		0.1

Date: Friday, February 16, 2007 | Sheet 45 of 52

65W, Iadapter=0~3.42A, Current sense=0.02ohm, PR69=39.2K, CP=3.079A
90W, Iadapter=0~4.74A, Current Sense=0.015ohm, PR69=28.7K, CP=4.263A

ADP_I = 19.9*Iadapter*Rsense



CP mode
Iinput=(1/0.02)(0.05*Vaclm/2.39+0.05)
where Vaclm=0.5535V, Iinput=3.079A
where Vaclm=0.6667V, Iinput=4.263A

CC=0.6~3.4A
VCHLM=0.24V~1.36V
IREF=0.972*Icharge
IREF=0.5832V~3.3V

BATT Type	Charging Voltage (0x15)	CHGSEL	CV mode
2800mAH 3S pack	13050mV	LOW	12.90V
Normal 3S LI-ON Cells	12600mV	HIGH	12.60V

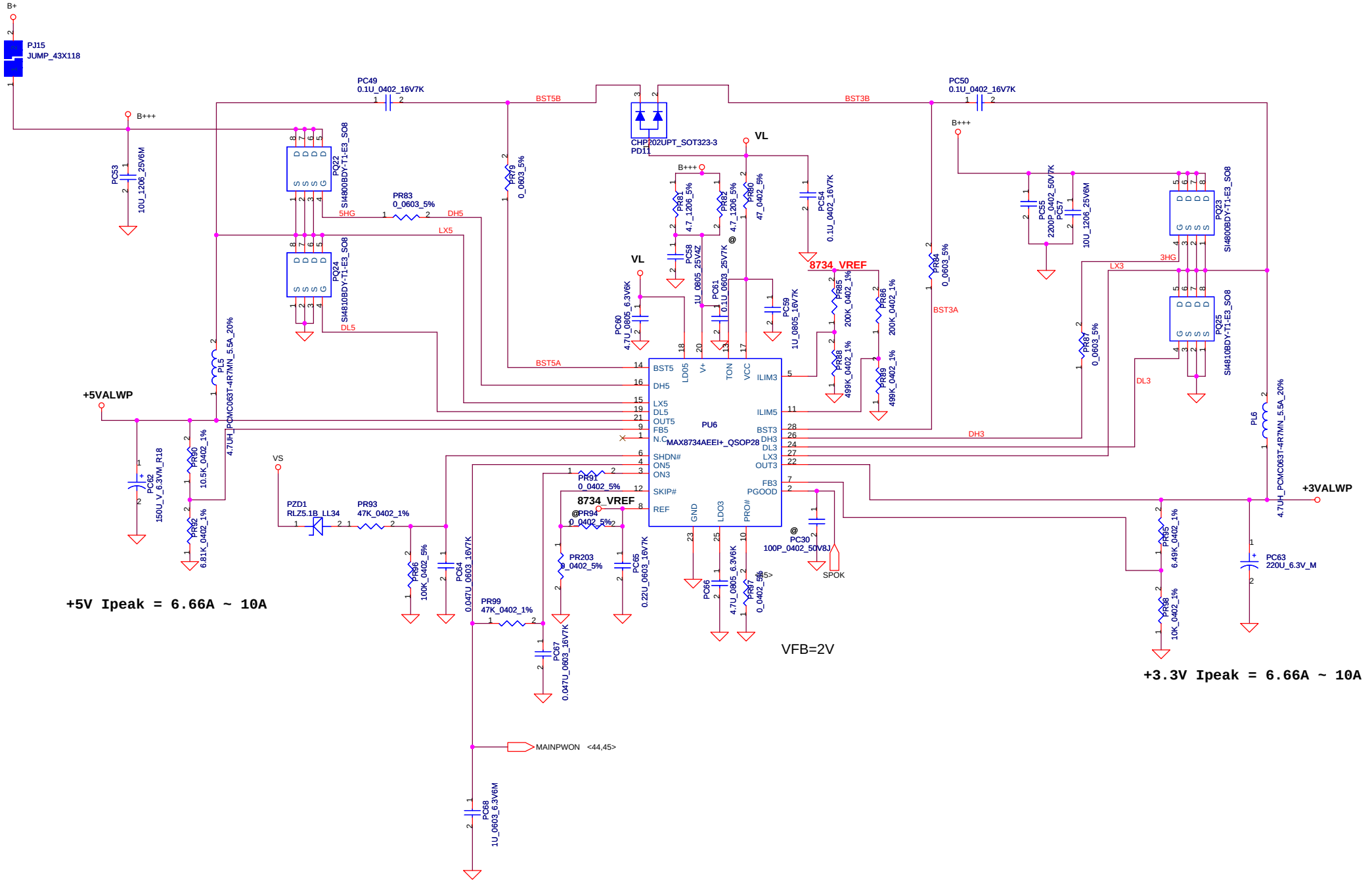
OVP voltage :
LI-3S :13.50V--BATT-OVP=1.5V
BATT-OVP=0.111*BATT+

Compal Electronics, Inc.

Title: CHARGER

Size | Document Number: CHARGER | Rev: 1.0

Date: Friday, February 16, 2007 | Sheet 46 of 52



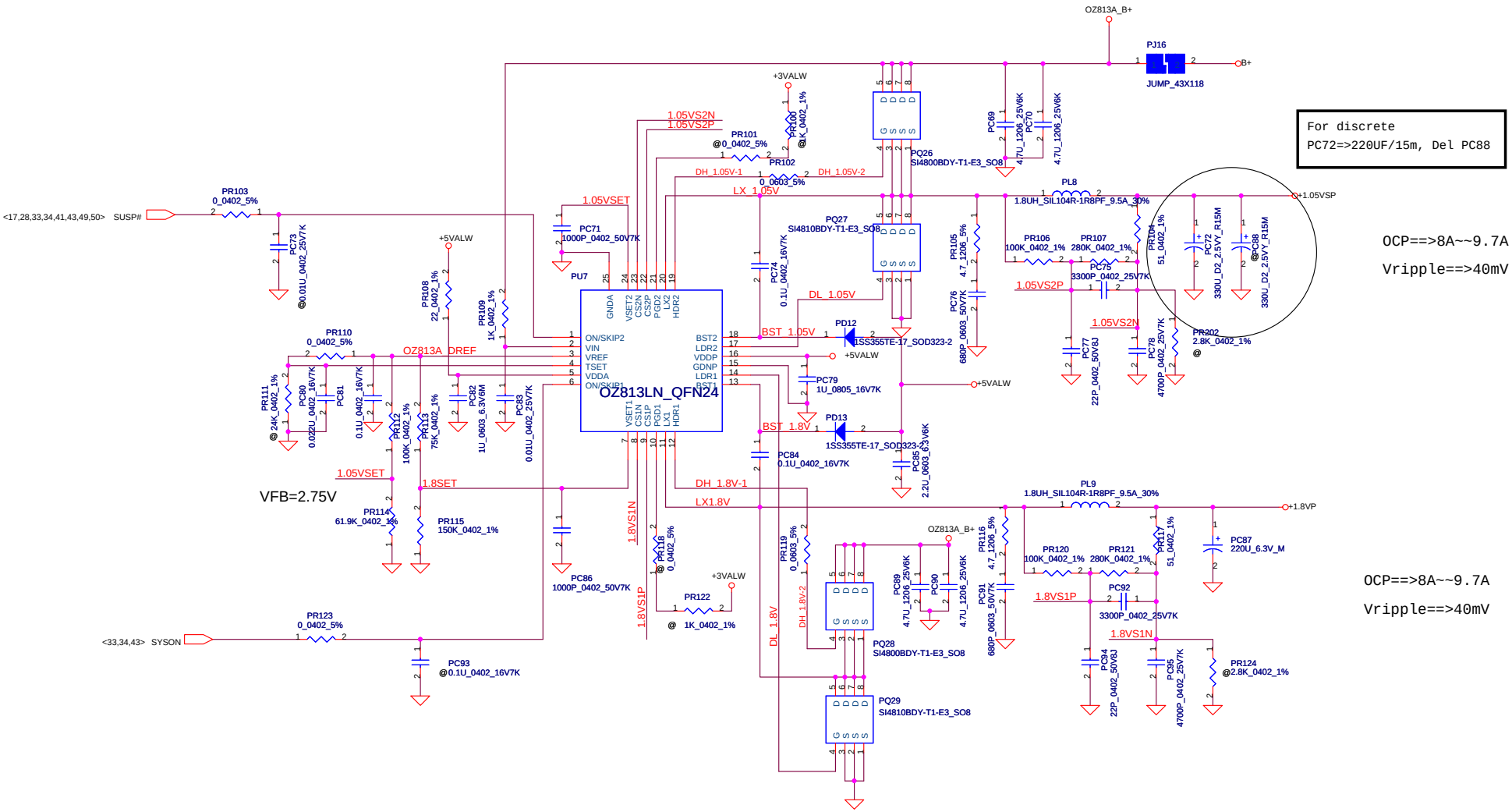
Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: **+5VALWP/+3VALWP**

Size	Document Number	Rev
Custom		0.1

Date: Friday, February 16, 2007 | Sheet 47 of 52



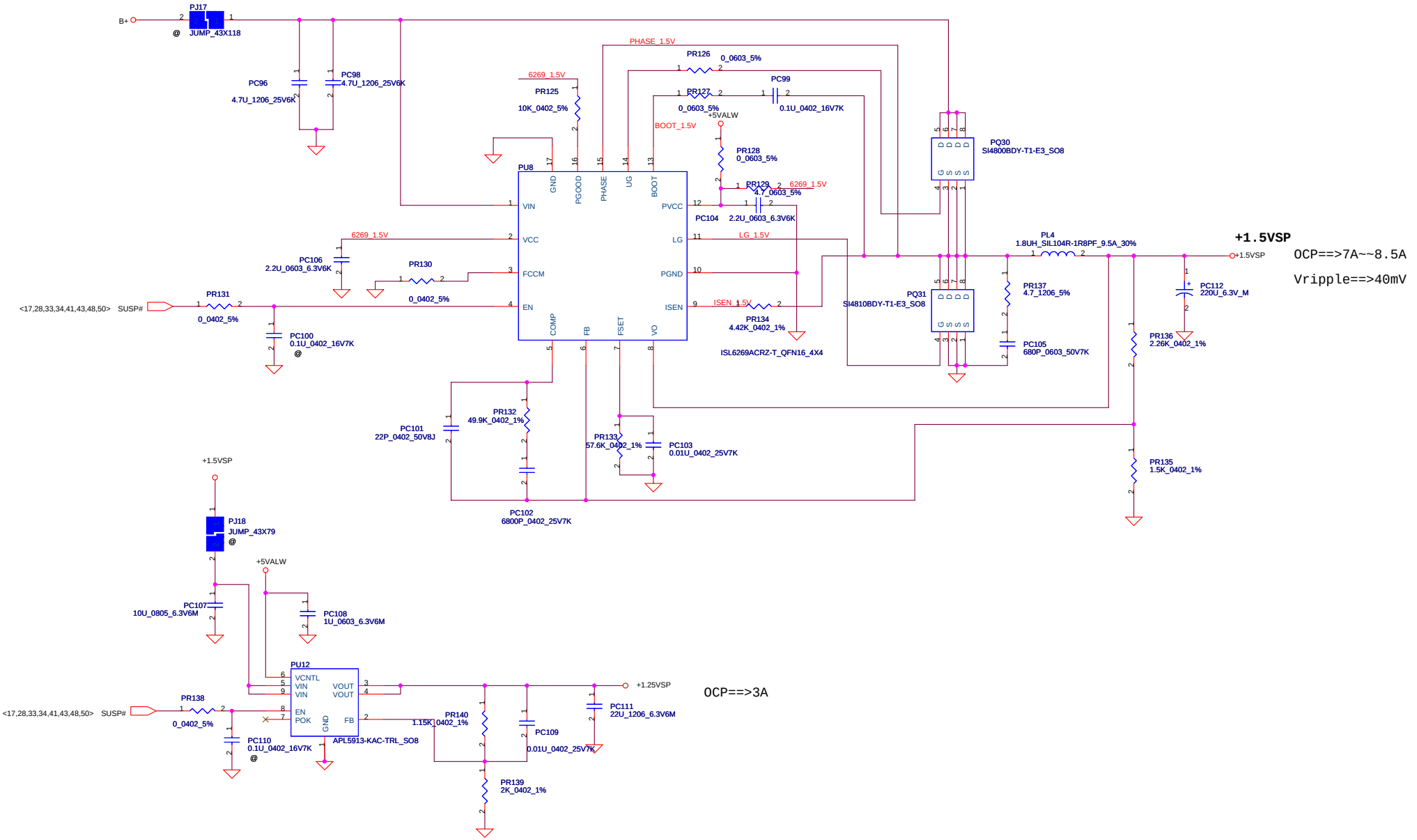
Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: **1.05VSP/1.8VP**

Size	Document Number	Rev
Custom		0.1

Date: Friday, February 16, 2007 | Sheet 48 of 52



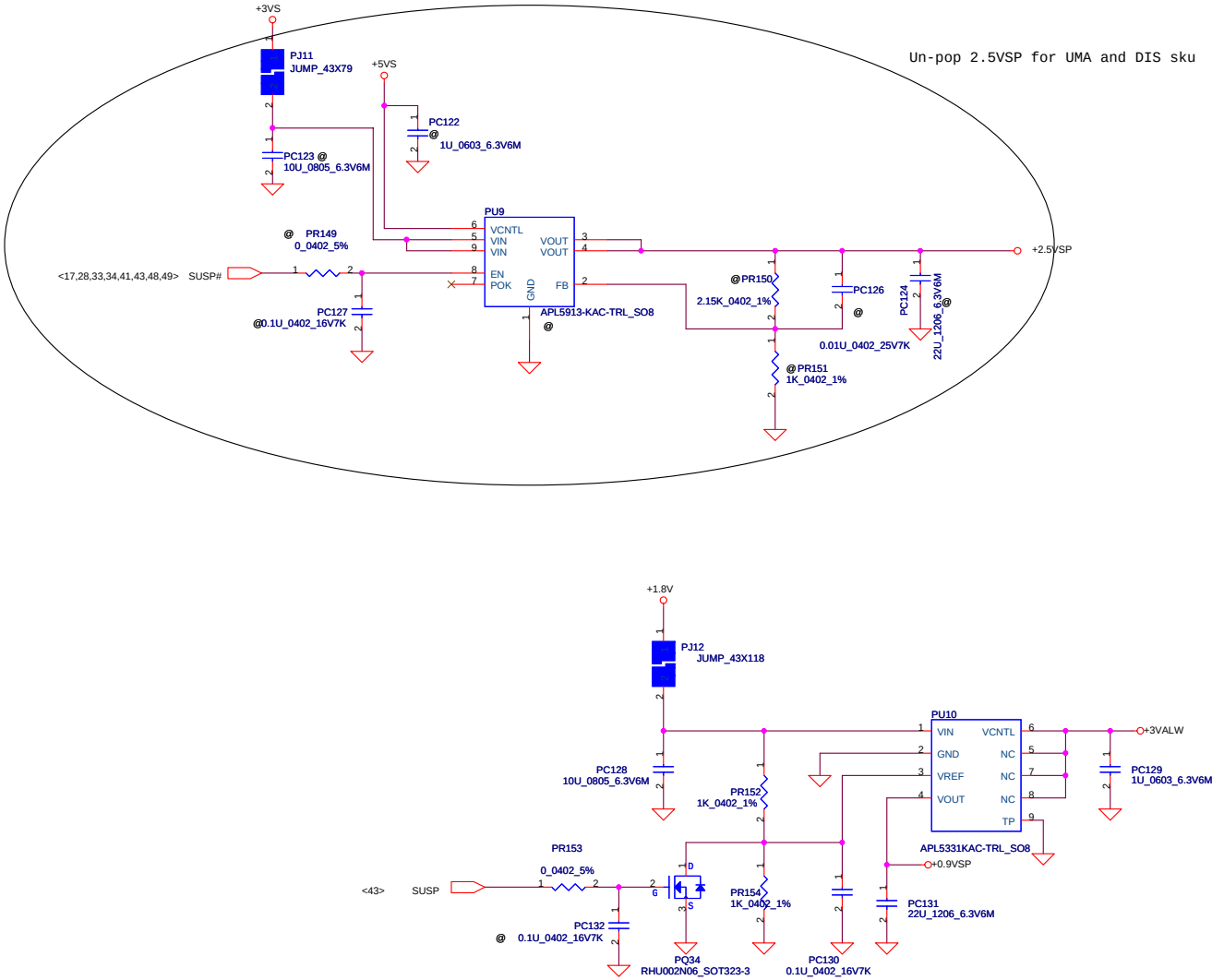
Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: 1.5VSP/1.25VP

Size	Document Number	Rev
Custom		0.1

Date: Friday, February 16, 2007 | Sheet 49 of 52



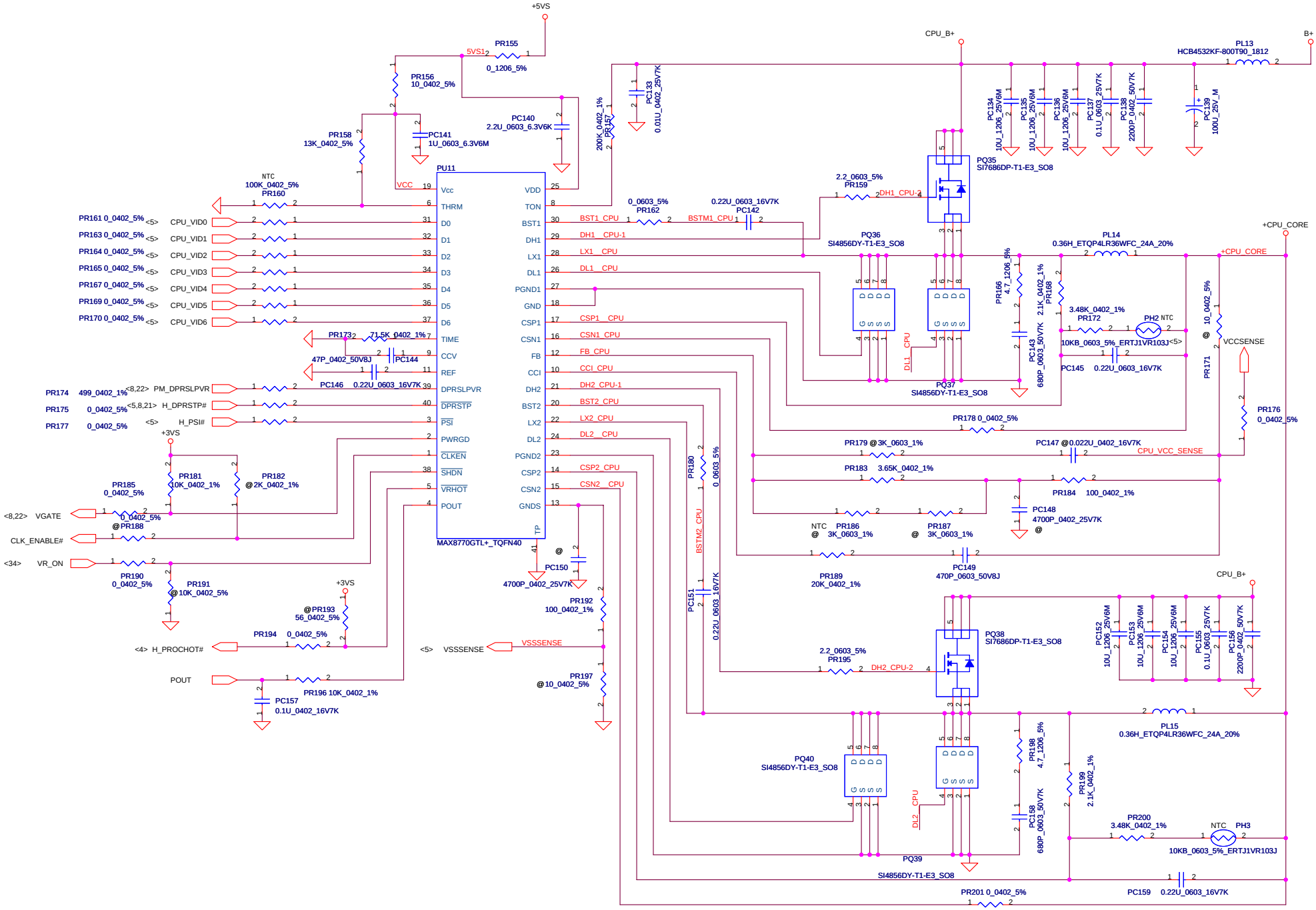
Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: **+2.5VSP/0.9VSP**

Size	Document Number	Rev
Custom		0.1

Date: Friday, February 16, 2007 | Sheet 50 of 52



Security Classification	Compal Secret Data		
Issued Date	2005/10/17	Deciphered Date	2006/10/17

Compal Electronics, Inc.

Title: **+CPU_CORE**

Size	Document Number	Rev
Custom		0.1

Date: Friday, February 16, 2007 | Sheet 51 of 52

	page	Reason for change	Modify list
Pre EVT	P50	For H/W 0.9V sequence deamd	Delete PQ34
		Modify Bead to Jump for costdown	PL1,PL2,PL4,PL7,PL10
		Modify 10UH/X6S to 10UH/X5R for common source	PC53,PC57,PC96,PC116,PC134,PC135,PC136,PC152,PC153,PC154
		Modify CH751H to RB751V for common source	PD10
DVT			
	95/12/28	Keep Batt_OVP to 1.5V	Change PR78 form 150K to 105K
		Take out PC148 & PC150 form VTT tool test	Delete PC148 &PC150
		Adjust PR183 to 39.2K for loadline	PR183
		Modify CPU_High side form SI7840 to SI7686 for vender shortage	PQ35,PQ38
		Modify PosCAP to Alu CAP for cost	PC63,PC87,PC99
		DFX footprint issue, Modify RLS4148_LLDS2 to LL34	PD2,PD4
		Add skip mode function form skip pin of 3/5V IC	PR203
		ADD Battery in function in page 45	PR204,PR205,PR206,PR207,PR208,PC51,PC52,PQ41
		Defence charger IC leakage current in page 46	PR57,PR209,PR210,PR211,PR212,PC118,PC97,PC56,PD16,PD17,PQ42,PQ43,PQ44
		ADD Battery in and DC-IN Bead	PL1,PL2
		ADD 100PF in SPOK PIN for noise but unpop	PC30
		ADD CPU high side gate resister 2.2 OHM for EMI demand	PR159,PR195
		Change PR137 to L/F	PR137
		Change PR95 form 6.81K to 6.49K for power loss	PR95
	96/01/03	Disable battery in function, EC control	PR204,PR205,PR206,PR207,PR208,PC51,PC52,PQ41
		Modify 0.01U_0402 to 1000P_0402	PC1,PC4
		Remove PR1 & PD1 for cost	PR1,PD1
		Modify AO4407 to FDS4435 for UMA cost	PQ10,PQ11,PQ9
		Modify RB751V to 1SS355 for cost	PD12,PD13,PD14,PD15,PD10
		Remove 2.5VSP function for UMA	PR149,PR150,PR151,PC122,PC123,PC124,PC126,PC127,PU9
		Change 1.05VSP High/Low side MOS for cost	PQ26,PQ27
		Change 0.9UH to 1.8uH for 1.05vsp cost	PL8
		Change PC72 330U/R9 to 330U/R15. and del PC88	PC72,PC88
		Add PR207 280K_0402 and delete PR202	PR207,PR202
		Modify PC139 for 100uH at 3000hurs	PC139
		Modify charge Low side gate to SI4800BDY	PQ19

Compal Electronics, Inc.		
Title: Power PIR		
Size: Custom	Document Number	Rev: 0.1
Date: Friday, February 16, 2007	Sheet 52 of 52	

page	Reason for change	Modify list
96/01/03	Disable battery in function, EC control	PR204,PR205,PR206,PR207,PR208,PC51,PC52,PQ41
DVT	Modify 0.01U_0402 to 1000P_0402 for common design	PC1,PC4
	Remove PR1 & PD1 for common design	PR1,PD1
	Modify AO4407 to FDS4435 for UMA	PQ10,PQ11,PQ9
	Modify RB751V to 1SS355 for common design	PD12,PD13,PD14,PD15,PD10
	Remove 2.5VSP function for UMA sku	PR149,PR150,PR151,PC122,PC123,PC124,PC126,PU9
	Change 1.05VSP High/Low side MOS for rating	PQ26(SI4800),PQ27(Si4810)
	Change 0.9UH to 1.8uH for 1.05vsp rating	PL8
	Change PC72 form 330U/R9 to 330U/R15. and del PC88 for rating	PC72,PC88
	Add PR107 280K_0402 and delete PR202 for 1.05VSP OCP	PR107,PR202
	Modify PC75 form 4700P to 3300P for 1.05VSP OCP	PC75
	Modify PC139 for 100uH at 3000hurs	PC139
	Modify charge Low MOS gate to SI4800BDY	PQ19
96/01/19	Disable CC-CV overshoot function , need verify it.	PQ44
DVT-2	0.9V sequence for H/W deamd	Add PQ34
	Change CPU low side mos to SI4856	PQ36,PQ37,PQ39,PQ40
96/01/19	Chage 1.5V/1.25V dual to single and LDO portion	DEL PR141,PR143,PR144,PR145,PR146,PR148,PC110,PC113,PC114,PC115,PC116,PC117,PC120,PC121,PL11,PL12, PQ32,PQ33,PD14,PD15
PVT		ADD PR125,PR126,PR136,PU12,PL4
		Modify PR128,PR129,PR130,PR131,PR132,PR133,PR134,PR135,PR136,PR137,PR138,PR139,PR140
		PC96,PC98,PC99,PC101,PC102,PC103,PC104,PC105,PC106,PC107,PC108,PC109,PC111,PC112
		PU8
	Combine PU5 LM358 and PU3 LM393	Del PU5,ADD PD8
	Change PD5 form RB751 to RLS4148 for cost	PD5
	Change 0.1U_0603 to 0.1U_0402 for cost	PC49,PC50,PC74,PC84,PC81
	Remove PC147 for cost	PC147
	Change PC128 form 10U_1206 to 10U_0805 for cost	PC128
96/02/16		
PVT	Modify CPU OTP 85 degree C to 89 degree C for thermal request	PR42_78.7K, PR38_10K

Compal Electronics, Inc.		
Title: Power PIR		
Size: Custom	Document Number	Rev: 0.1
Date: Friday, February 16, 2007	Sheet 52 of 52	