

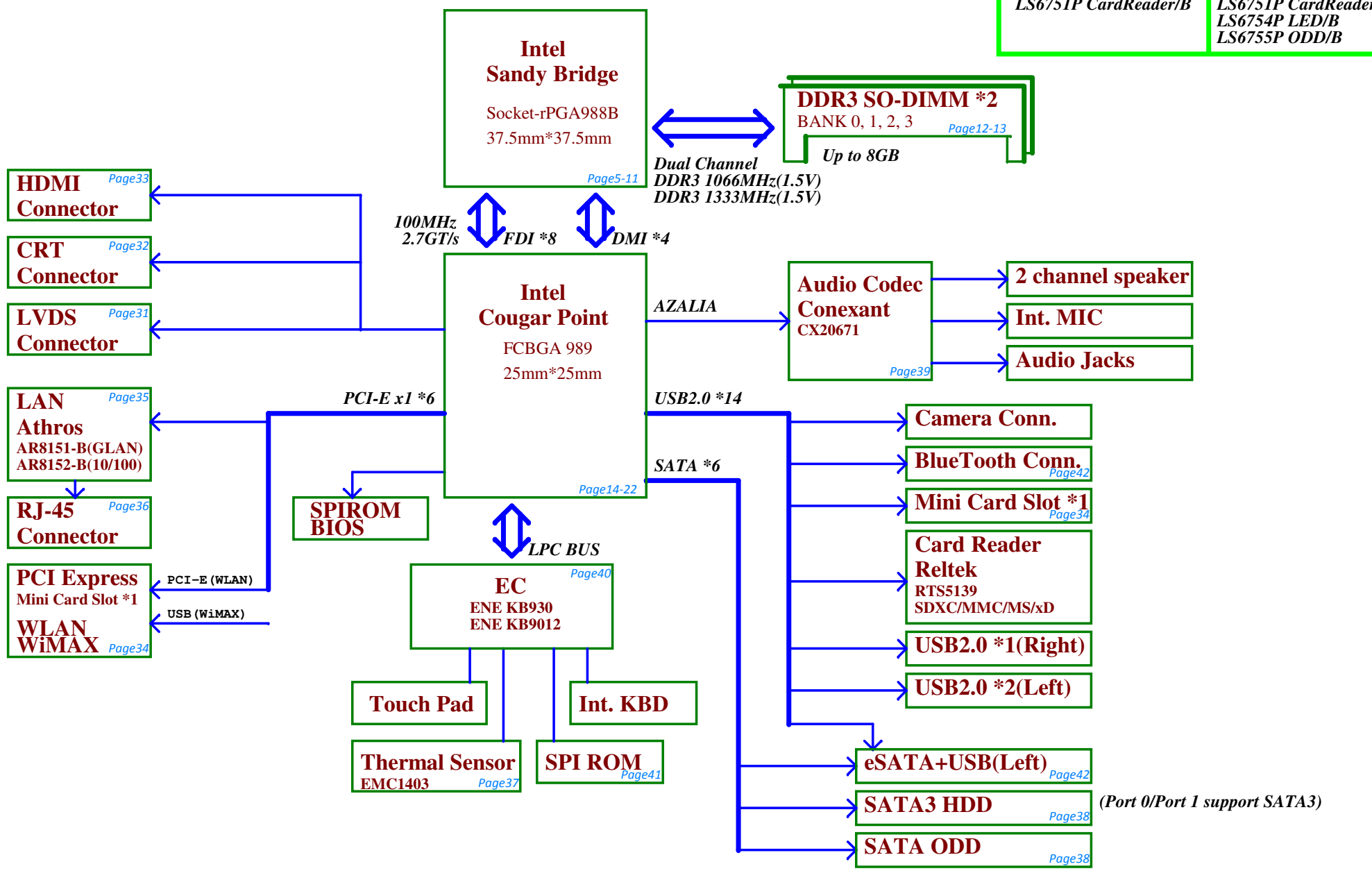
Compal Confidential

G470/G570 UMA M/B Schematics Document

Intel Sandy Bridge Processor with DDRIII + Cougar Point PCH

2010-10-22
LA-6752P / LA-6754P
REV: 0.2

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title		
<small>THIS SHEET OF ENGINEERING DRAWING IS THE 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 WITHOUT THE WRITTEN PERMISSION OF 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>				Cover Page		
				Size	Document Number	Rev
				Custom	LA-6752P	0.2
				Date:	Friday, November 26, 2010	Sheet 1 of 50



Voltage Rails

power plane	State	+B	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VCCP +CPU_CORE +VGA_CORE +GFX_CORE +1.8VS +0.75VS +1.05VS
S0		○	○	○	○
S3		○	○	○	✗
S5 S4/AC		○	○	✗	✗
S5 S4/ Battery only		○	✗	✗	✗
S5 S4/AC & Battery don't exist		✗	✗	✗	✗

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Device	Address
Smart Battery	0001 011X b	Thermal Sensor EMC1403-2	1001_101xb

PCH SM Bus address

Device	Address
DDR DIMM0	1001 000Xb
DDR DIMM2	1001 010Xb

SMBUS Control Table

	SOURCE	VGA	BATT	KE930	SODIMM	WLAN WWAN	Thermal Sensor	PCH
SMB_EC_CK1	KB930	✗	✓	✗	✗	✗	✗	✗
SMB_EC_DA1	+3VALW		+3VALW					
SMB_EC_CK2	KB930	✗	✗	✗	✗	✗	✗	✓
SMB_EC_DA2	+3VALW							+3VS
SMBCLK	PCH	✗	✗	✗	✓	✓	✗	✗
SMBDATA	+3VALW				+3VS	+3VS		
SML0CLK	PCH	✗	✗	✗	✗	✗	✗	✗
SML0DATA	+3VALW							
SML1CLK	PCH	✓	✗	✓	✗	✗	✓	✗
SML1DATA	+3VALW	+3VS		+3VS			+3VS	

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

BOARD ID Table

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

Board ID / SKU ID Table for AD channel

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

USB Port Table

USB 2.0	USB 1.1	Port	3 External USB Port
EHCI1	UHCI0	0	USB/B (Right Side)
		1	USB Port (Left Side)
	UHCI1	2	USB Port (Left Side)
		3	USB Port (Left Side)
	UHCI2	4	
		5	Camera
	UHCI3	6	
EHCI2		7	
		8	Mini Card(WLAN)
	UHCI4	9	
		10	
	UHCI5	11	Card Reader
		12	
	UHCI6	13	Blue Tooth

BOM Structure Table

BTO Item	BOM Structure
CAMERA DEVICE	CMOS@
Blue Tooth	BT@
eSATA	ESATA@
COMMON HDMI	HDMI@
Connector	ME@
45 LEVEL	45@
10/100 LAN	8152@
GIGA LAN	GIGA@
Unpop	@

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Notes List		
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. FOR THIS SHEET. NO PART OF THIS SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number LA-6752P	Rev 0.2
				Date:	Friday, November 26, 2010	Sheet 3 of 50

www.vinallix.vn

Power-Up/Down Sequence

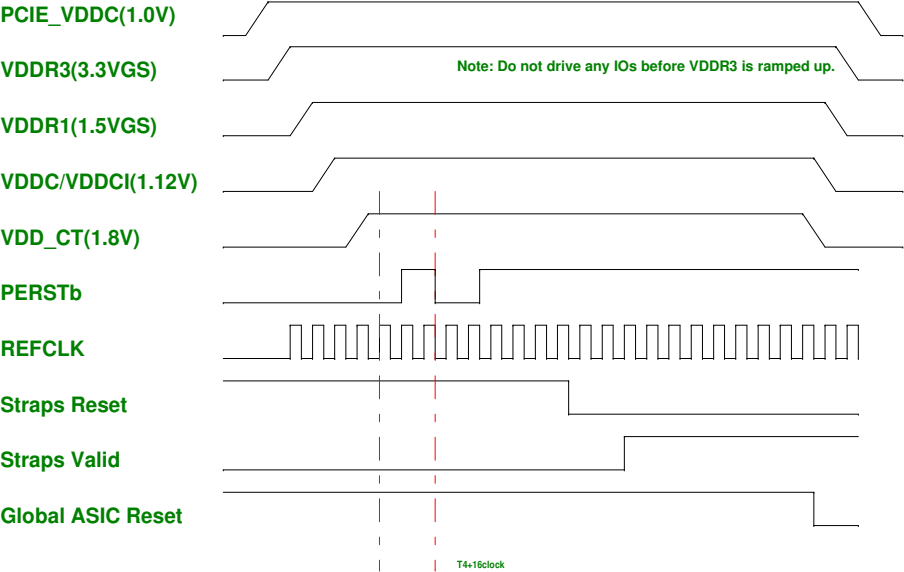
All the ASIC supplies must fully reach their respective nominal voltages within 20 ms of the start of the ramp-up sequence, though a shorter ramp-up duration is preferred.

VDDR3 should ramp-up before or simultaneously with VDDC.

For LVDS, DPx_VDD10 should ramp-up before DPx_VDD18 and the PCIe Reference clock should begin before DPx_VDD18. For power-down, DPx_VDD18 should ramp-down before DPx_VDD10.

The external pull-ups on the DDC/AUX signals (if applicable) should ramp-up before or after both VDDC and VDD_CT have ramped up.

VDDC and VDD_CT should not ramp-up simultaneously. (e.g., VDDC should reach 90% before VDD_CT starts to ramp-up (or vice versa).)



Without BACO option :

PE_GPIO0 : Low -> Reset dGPU ; High -> Normal operation

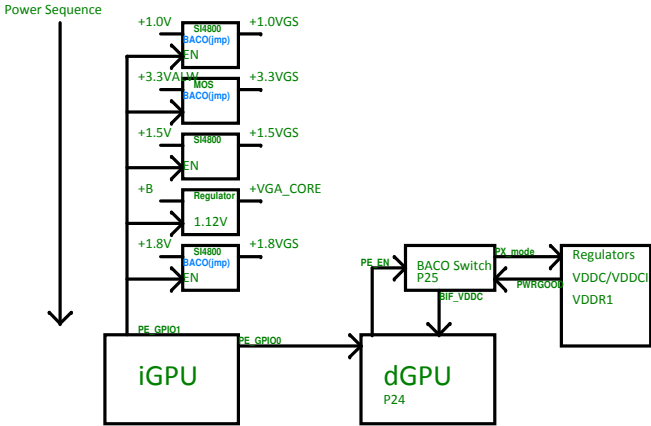
PE_GPIO1 : Low -> dGPU Power OFF ; High -> dGPU Power ON

BACO option :

PE_GPIO0 : High -> Normal operation (dGPU is not reseton BACO mode)

PE_GPIO1 : Low -> dGPU Power OFF ; High -> dGPU Power ON (always High)

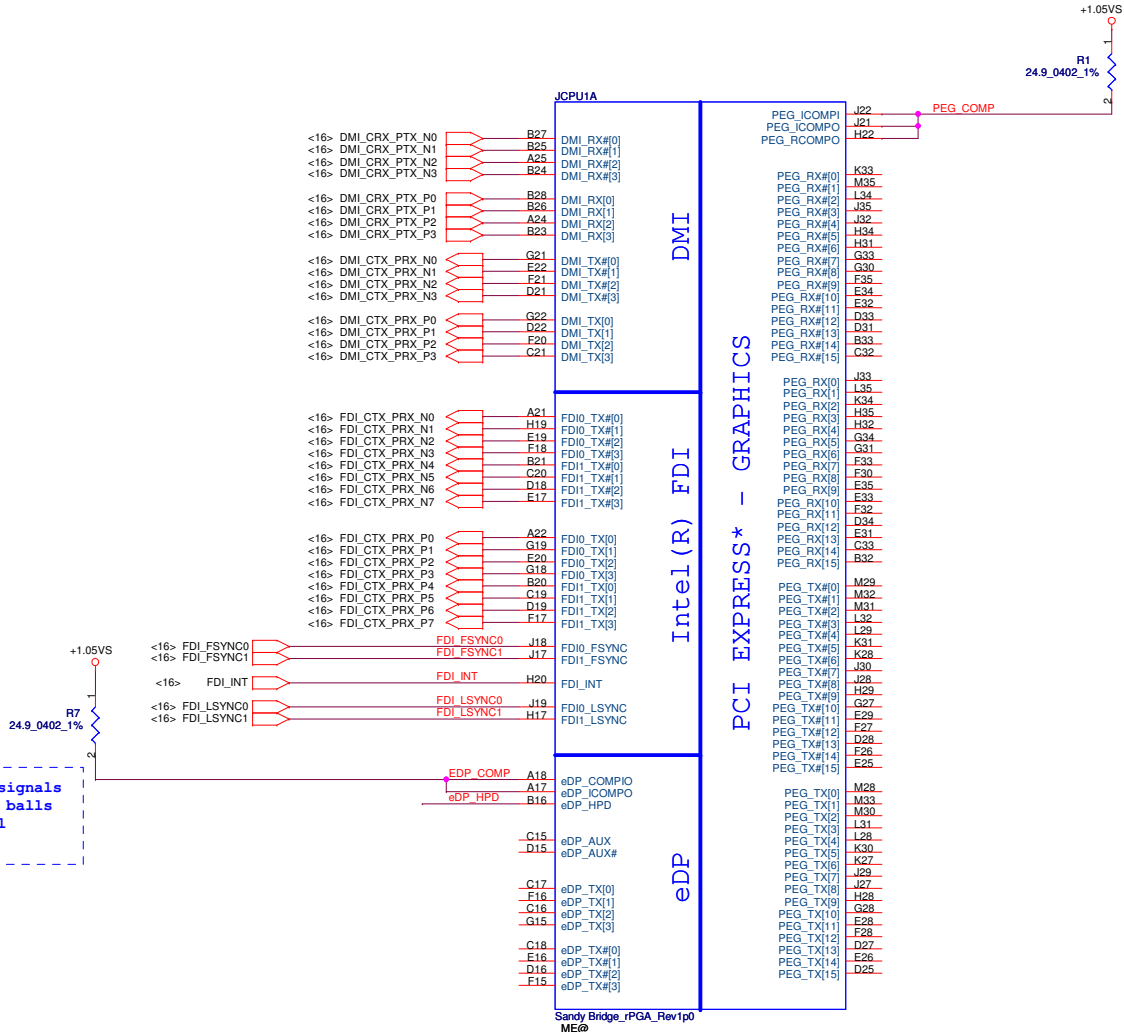
dGPU Power Pins	Voltage	PX 3.0	BACO Mode	Max current
PCIe_PVDD, PCIe_VDDR, TSVDD, VDDR4, VDD_CT, DPE_PVDD, DP[F:E]_VDD18, DP[D:A]_PVDD, DP[D:A]_VDD18, AVDD, VDD1DI, A2VDDQ, VDD2DI, DPLL_PVDD, MPV18, and SPV18	1.8V	OFF	ON	1679mA
DP[F:E]_VDD10, DP[D:A]_VDD10, DPLL_VDDC, and SPV10	1.0V	OFF	ON	575mA
PCIe_VDDC	1.0V	OFF	ON	2A
VDDR3 , and A2VDD	3.3V	OFF	ON	190mA
BIF_VDDC (current consumption = 55mA@1.0V, in BACO mode)	Same as VDDC	OFF	ON Same as PCIe_VDDC	70mA
VDDR1	1.5V	OFF	OFF	2.8A
VDDC/VDDCI	1.12V	OFF	OFF	12.9A



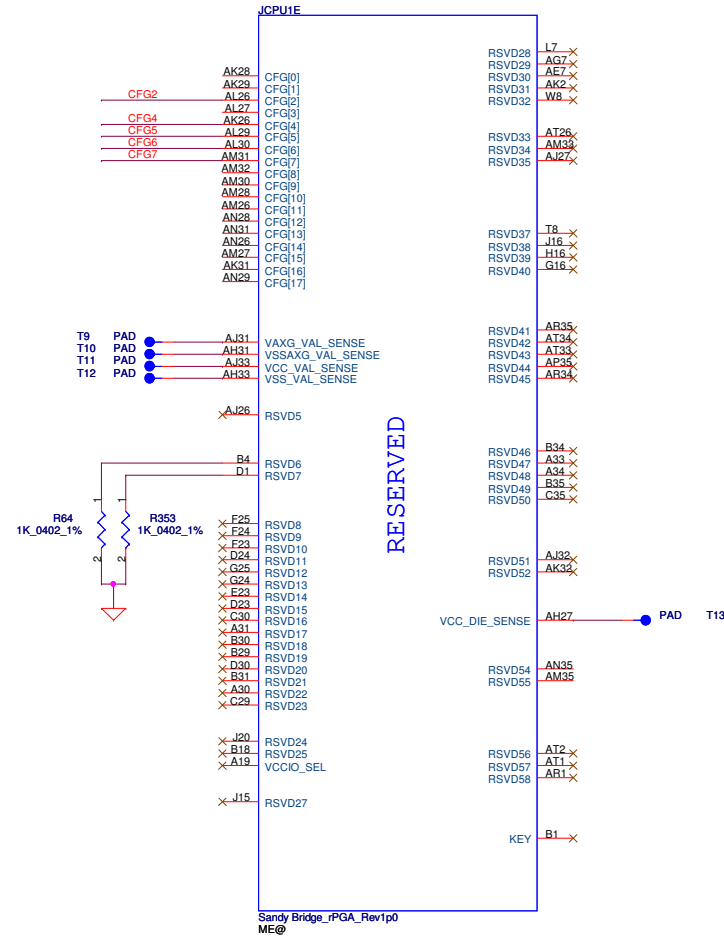
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				CLOCK GENERATOR
Size	Document Number	Rev	LA-6752P	
Date:	Friday, November 26, 2010	Sheet	4	of 50

eDP_COMPIO and ICOMPO signals should be shorted near balls and routed with typical impedance <25 mohms

PEG_ICOMPI and RCOMPO signals should be shorted and routed with - max length = 500 mils - typical impedance = 43 mohms
PEG_ICOMPO signals should be routed with - max length = 500 mils - typical impedance = 14.5 mohms



CFG Straps for Processor



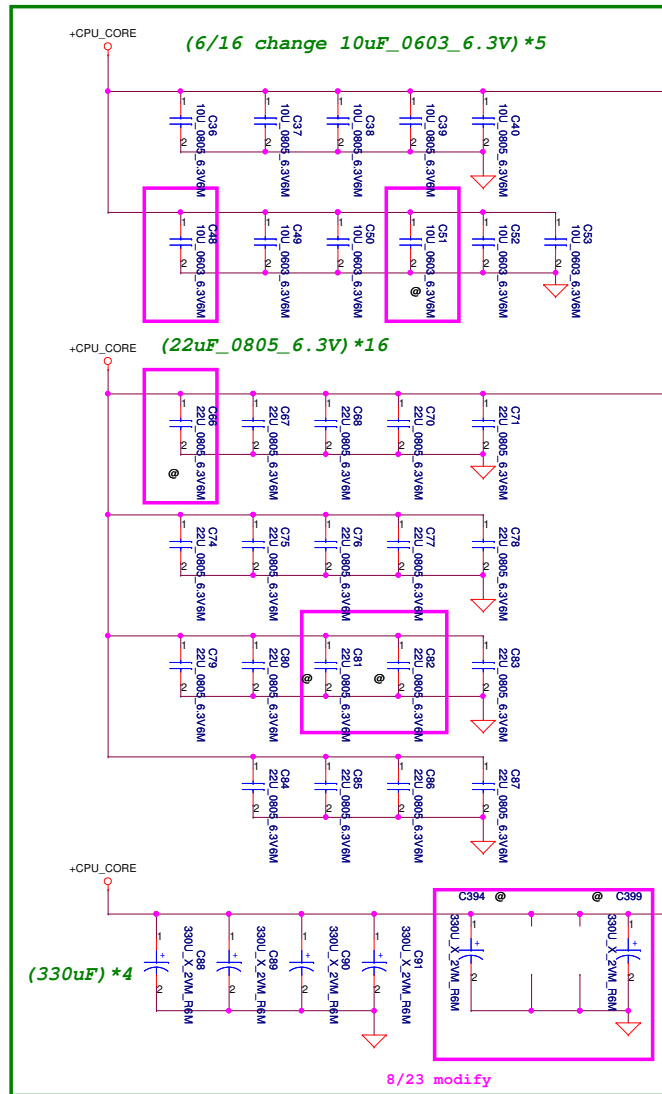
PEG Static Lane Reversal - CFG2 is for the 16x	
CFG2	1: Normal Operation; Lane # definition matches socket pin map definition * 0: Lane Reversed

Display Port Presence Strap	
CFG4	* 1 : Disabled; No Physical Display Port attached to Embedded Display Port 0 : Enabled; An external Display Port device is connected to the Embedded Display Port

PCIe Port Bifurcation Straps	
CFG[6:5]	* 11: (Default) x16 - Device 1 functions 1 and 2 disabled 10: x8, x8 - Device 1 function 1 enabled ; function 2 disabled 01: Reserved - (Device 1 function 1 disabled ; function 2 enabled) 00: x8,x4,x4 - Device 1 functions 1 and 2 enabled

PEG DEFER TRAINING	
CFG7	1: (Default) PEG Train immediately following xxRESETB de assertion 0: PEG Wait for BIOS for training

Security Classification				Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	PROCESSOR(4/7) RSVD,CFG	Size	Document Number
THIS SHEET OF ENGINEERING DRAWING IS THE 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 WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC. UNDER THIS AGREEMENT, THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Date	Friday, November 26, 2010	Sheet	8 of 50
				Rev	0.2		



QC=94A
DC=53A

AG35	VCC1
AG34	VCC2
AG33	VCC3
AG32	VCC4
AG31	VCC5
AG30	VCC6
AG29	VCC7
AG28	VCC8
AG27	VCC9
AG26	VCC10
AF35	VCC11
AF34	VCC12
AF33	VCC13
AF32	VCC14
AF31	VCC15
AF30	VCC16
AF29	VCC17
AF28	VCC18
AF27	VCC19
AF26	VCC20
AD35	VCC21
AD34	VCC22
AD33	VCC23
AD32	VCC24
AD31	VCC25
AD30	VCC26
AD29	VCC27
AD28	VCC28
AD27	VCC29
AD26	VCC30
AC35	VCC31
AC34	VCC32
AC33	VCC33
AC32	VCC34
AC31	VCC35
AC30	VCC36
AC29	VCC37
AC28	VCC38
AC27	VCC39
AC26	VCC40
AA35	VCC41
AA34	VCC42
AA33	VCC43
AA32	VCC44
AA31	VCC45
AA30	VCC46
AA29	VCC47
AA28	VCC48
AA27	VCC49
AA26	VCC50
Y35	VCC51
Y34	VCC52
Y33	VCC53
Y32	VCC54
Y31	VCC55
Y30	VCC56
Y29	VCC57
Y28	VCC58
Y27	VCC59
Y26	VCC60
Y25	VCC61
Y24	VCC62
Y23	VCC63
Y22	VCC64
Y21	VCC65
Y20	VCC66
Y19	VCC67
Y18	VCC68
Y17	VCC69
Y16	VCC70
Y15	VCC71
Y14	VCC72
Y13	VCC73
Y12	VCC74
Y11	VCC75
Y10	VCC76
Y09	VCC77
Y08	VCC78
Y07	VCC79
Y06	VCC80
Y05	VCC81
Y04	VCC82
Y03	VCC83
Y02	VCC84
Y01	VCC85
Y00	VCC86
Y00	VCC87
Y00	VCC88
Y00	VCC89
Y00	VCC90
Y00	VCC91
Y00	VCC92
Y00	VCC93
Y00	VCC94
Y00	VCC95
Y00	VCC96
Y00	VCC97
Y00	VCC98
Y00	VCC99
Y00	VCC100

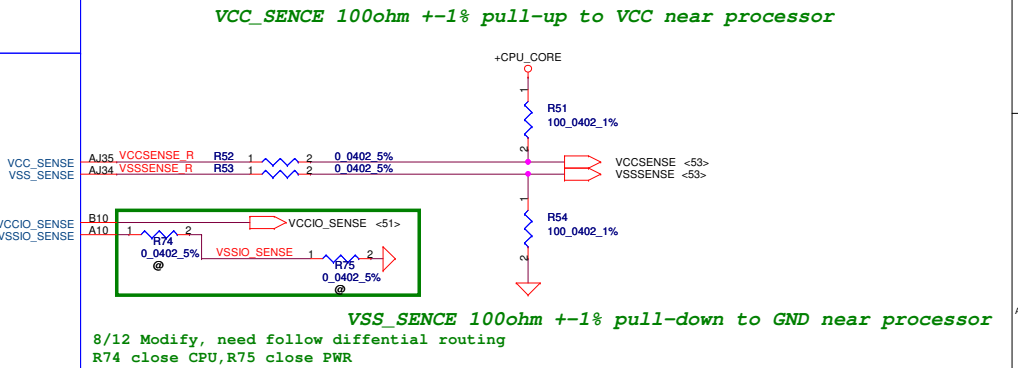
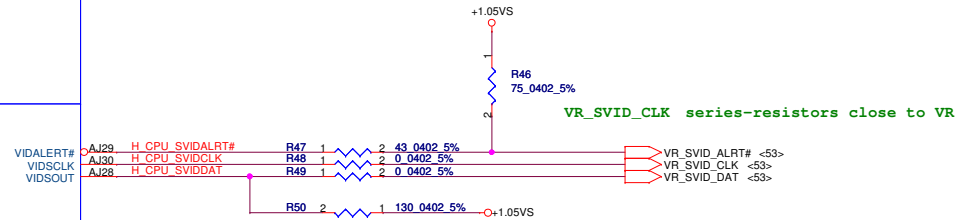
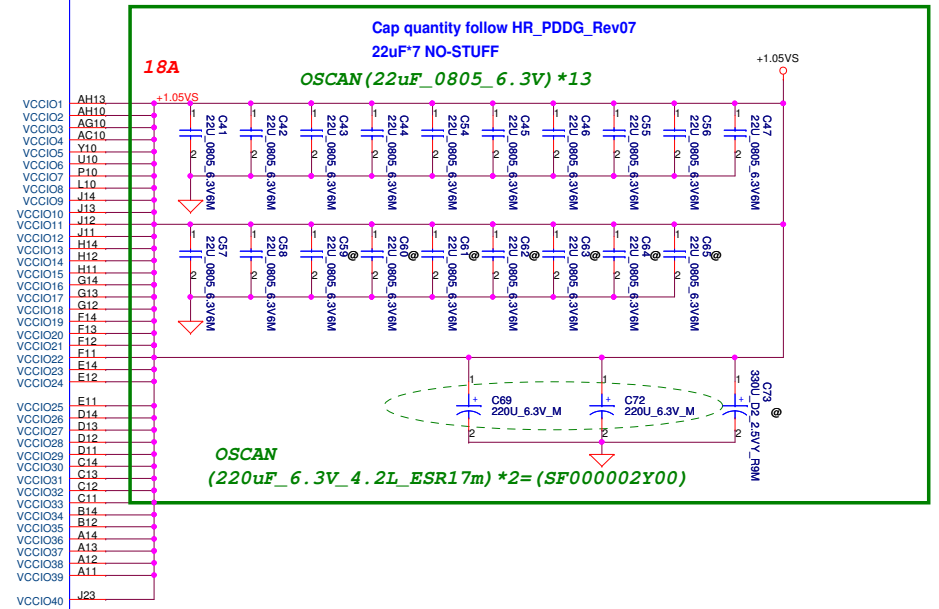
POWER

PEG AND DDR

CORE SUPPLY

SVID

SENSE LINES



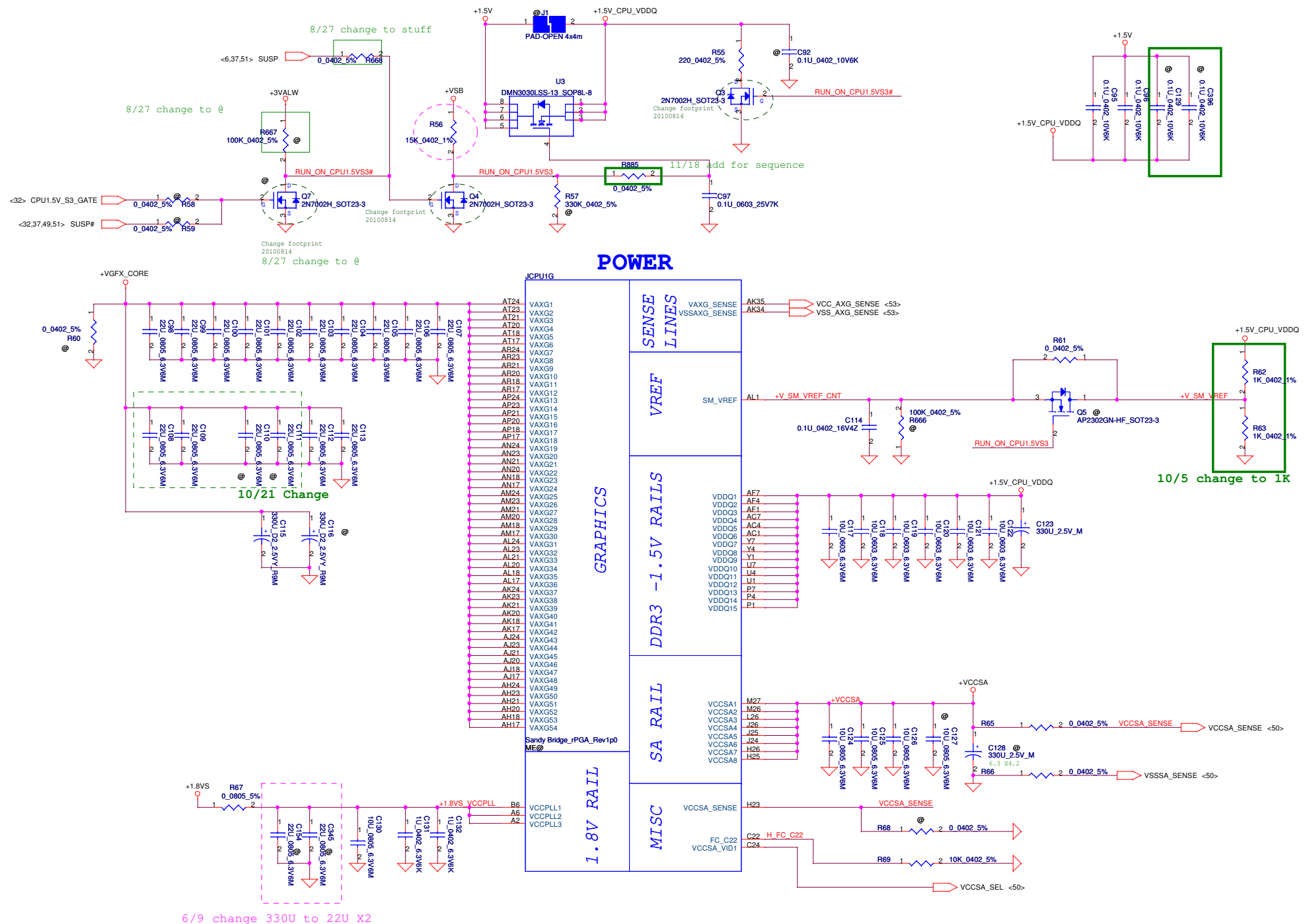
Sandy Bridge_rPGA Rev1nA
ME@

Security Classification	Compal Secret Data
Issued Date	2010/07/12
Deciphered Date	2012/07/11

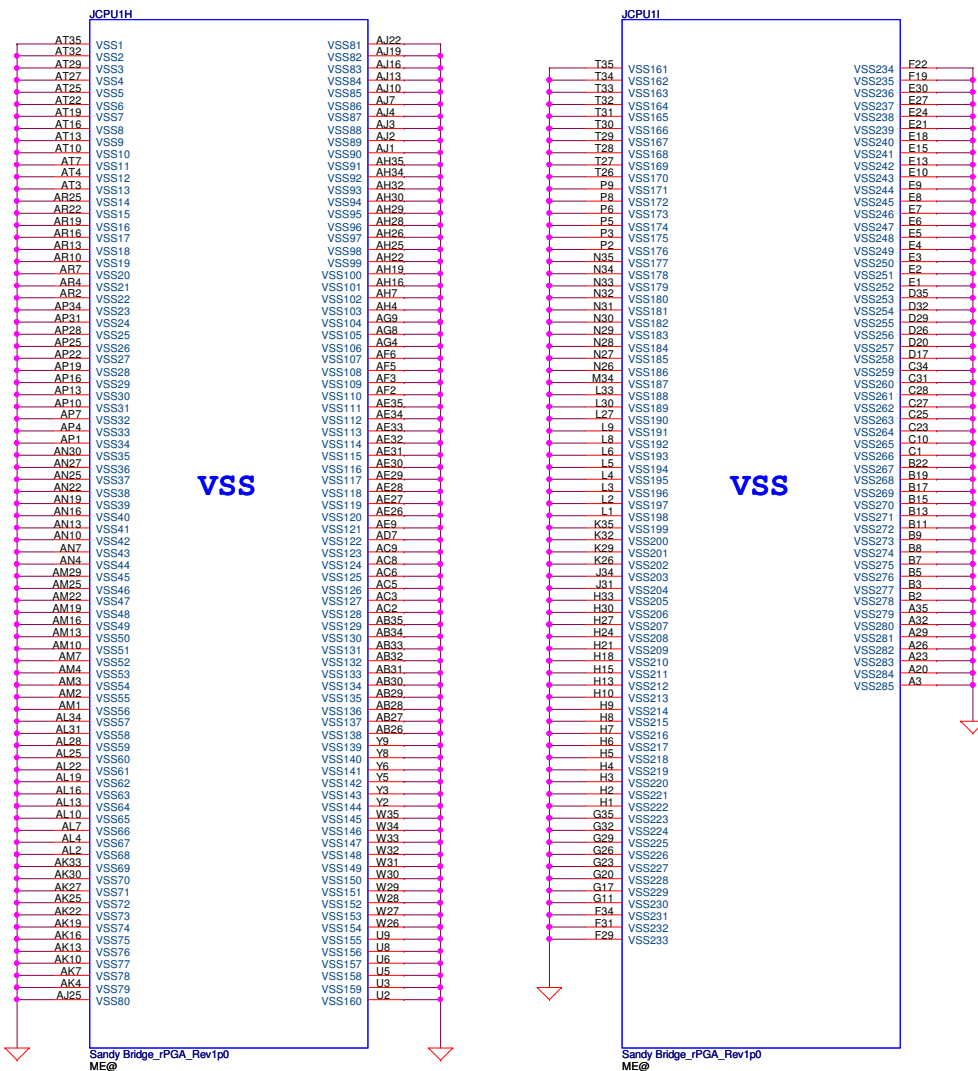
THIS SHEET OF ENGINEERING DRAWING IS THE PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC.

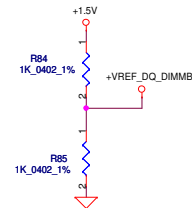
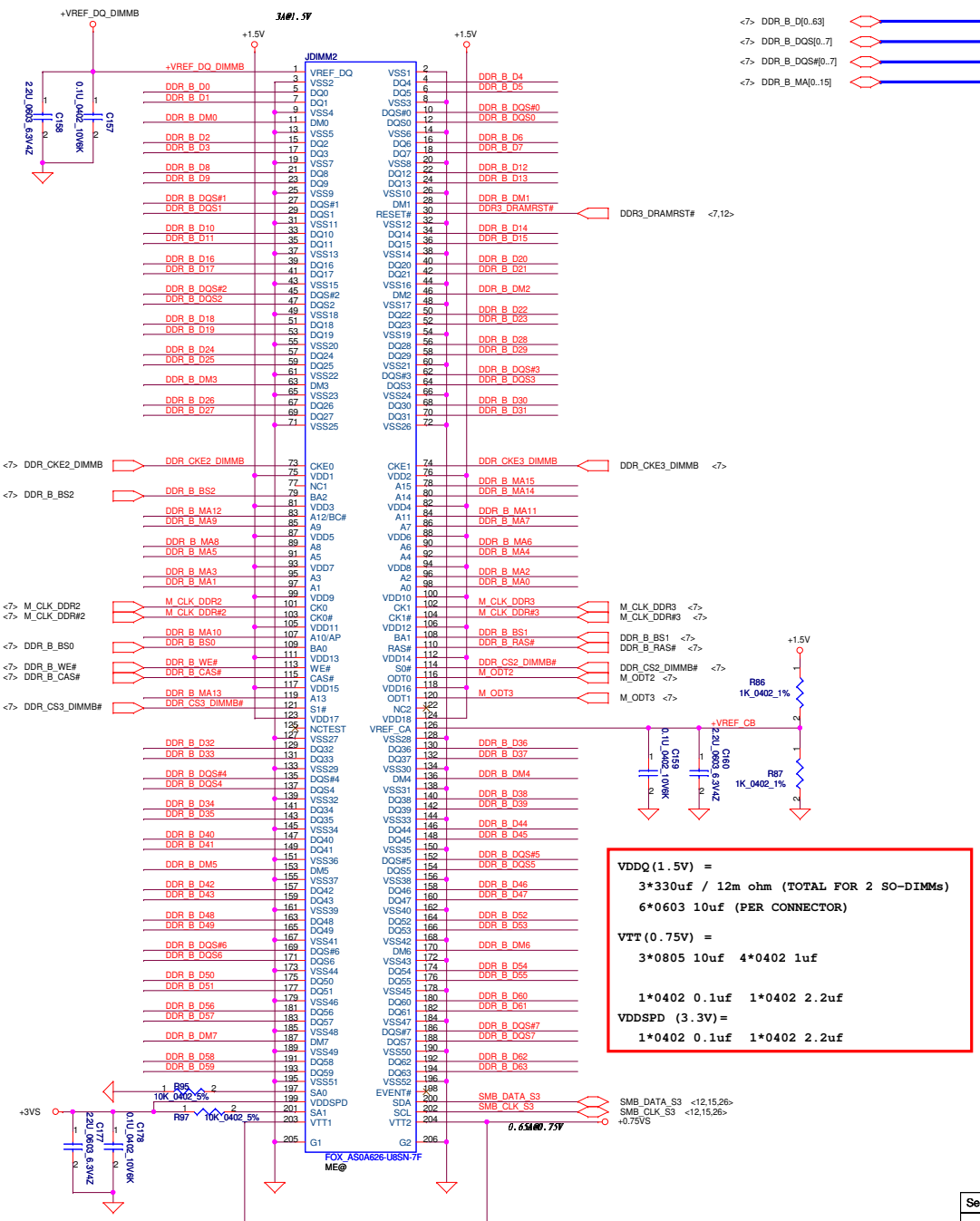
Compal Electronics, Inc.	
PROCESSOR(5/7) PWR,BYPASS	
Size	Document Number
Custom	LA-6752P
Date	Friday, November 26, 2010
Sheet	9 of 50

www.vinallix.vn



Security Classification		Compal Secret Data					
Issued Date		2010/07/12	Deciphered Date	2012/07/11	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE 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 WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC.					PROCESSOR(6/7) PWR		
					Size	Document Number	Rev
					Custom	LA-6752P	0.2
					Date:	Friday, November 26, 2010	Sheet 10 of 50

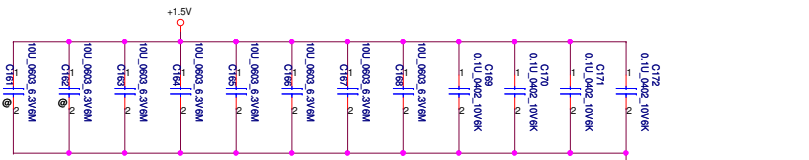




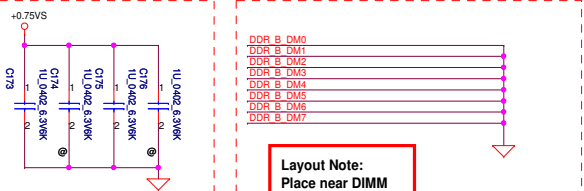
For Arranale only +VREF_DQ_DIMMB supply from a external 1.5V voltage divide circuit.
07/17/2009

Layout Note:
Place near DIMM

(10uF_0603_6.3V)*8
(0.1uF_402_10V)*4



Layout Note:
Place near DIMM



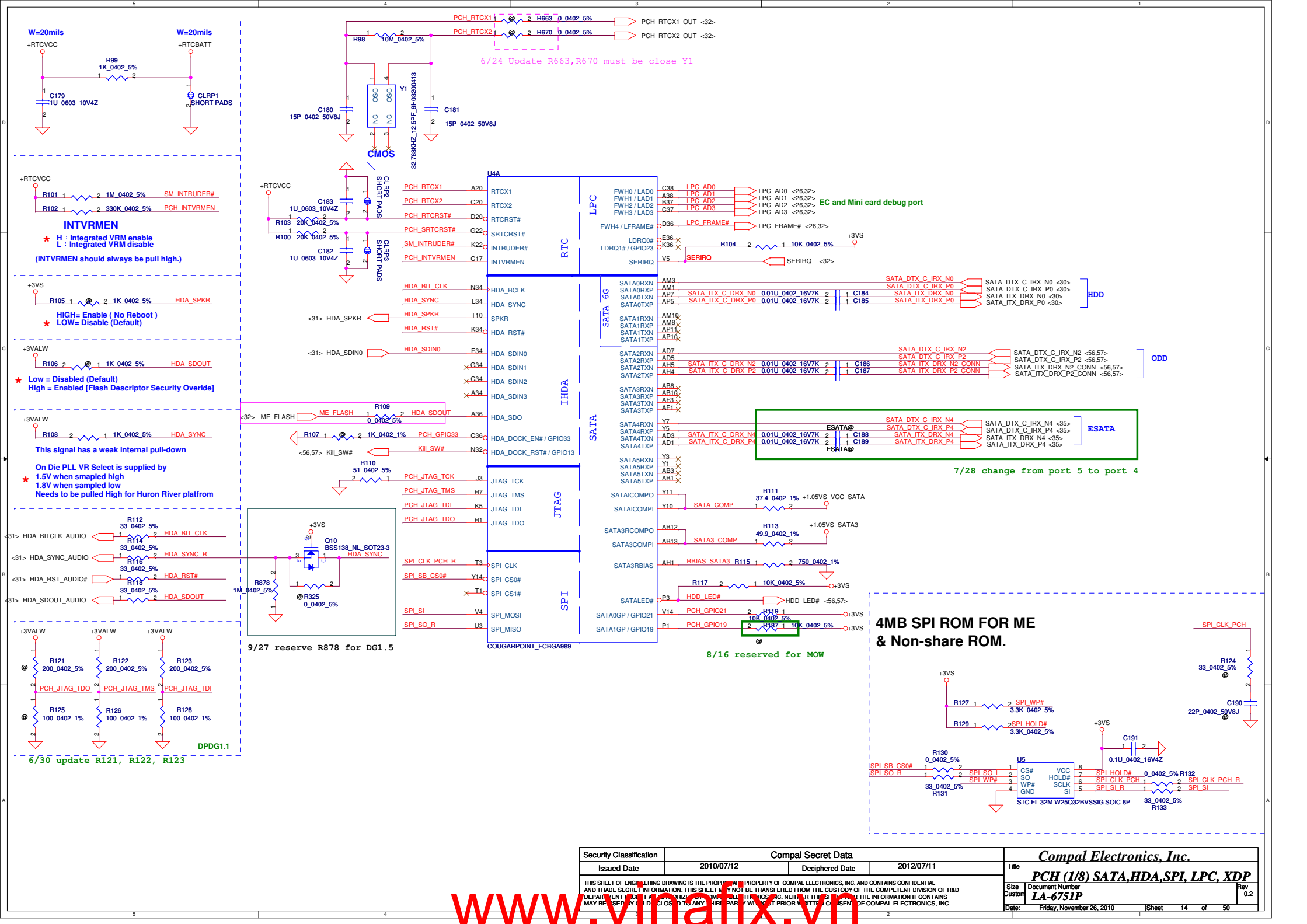
Layout Note:
Place near DIMM

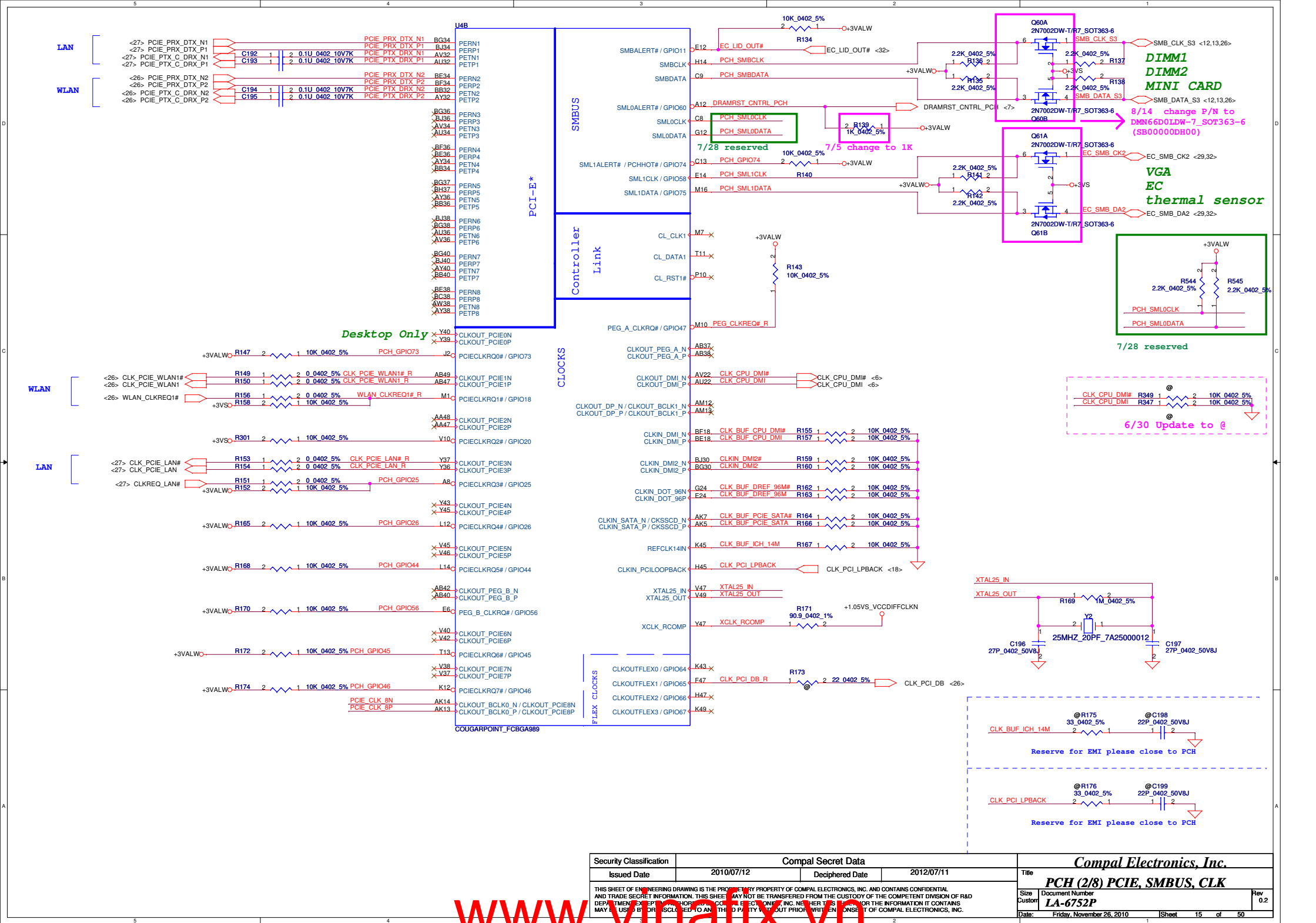
VDDQ (1.5V) =
3*330uf / 12m ohm (TOTAL FOR 2 SO-DIMMs)
6*0603 10uf (PER CONNECTOR)

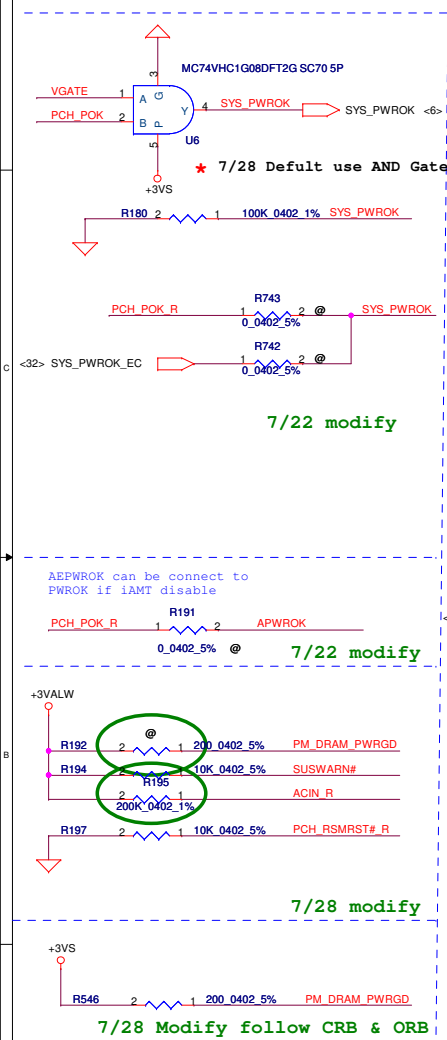
VTT (0.75V) =
3*0805 10uf 4*0402 1uf

VDDSPD (3.3V) =
1*0402 0.1uf 1*0402 2.2uf
1*0402 0.1uf 1*0402 2.2uf

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	
				DDR3-SODIMM SLOT2	
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-6752P	0.2
		Date		Friday, November 26, 2010	Sheet 13 of 50







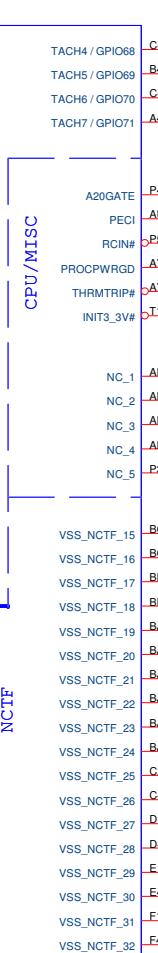
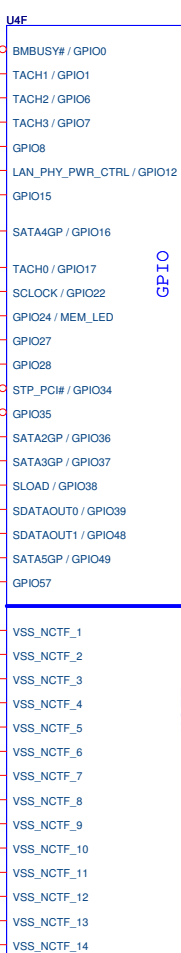
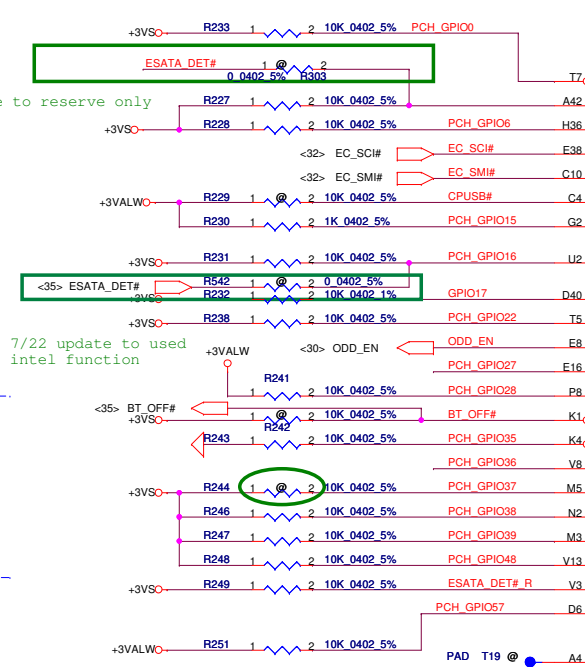
ICC_EN#
Integrated Clock Chip Enable
H ; Disable
★ L ; Enable
7/22 update to reserve only
R235 1 2 1K 0402 5% EC_SMI#
Weak internal pull-high

GPIO28
On-Die PLL Voltage Regulator
This signal has a weak internal pull up
★ H : On-Die voltage regulator enable
L : On-Die PLL Voltage Regulator disable
R240 1 2 1K 0402 5% PCH_GPIO28

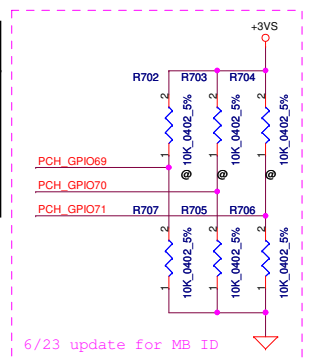
PCH_GPIO27 (Have internal Pull-High)
★ High: VCCVRM VR Enable
Low: VCCVRM VR Disable
R245 1 2 1K 0402 5% PCH_GPIO27

R250 1 2 1K 0402 5% PCH_GPIO36
R547 1 2 1K 0402 5%
8/5 update to pull down

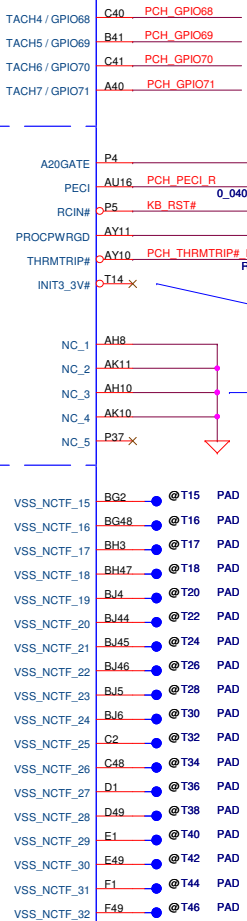
R881 1 2 1K 0402 5% PCH_GPIO37
10/8 update to pull down for checklist Rev1.2



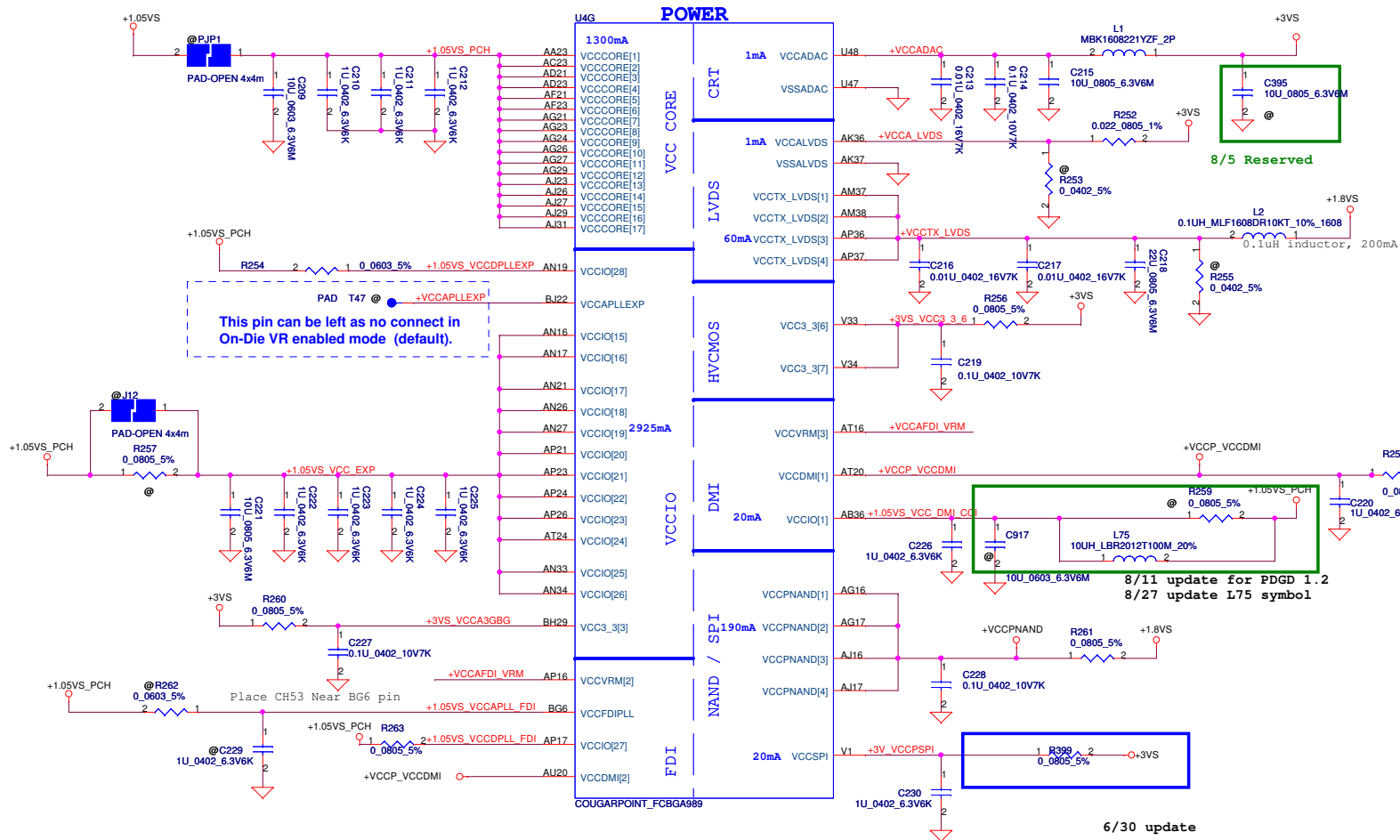
PCH_GPIO69	PCH_GPIO70	PCH_GPIO71	Function
0	0	0	UMA ★
1	0	0	DIS
0	1	0	PX3.0
1	1	0	PX4.0



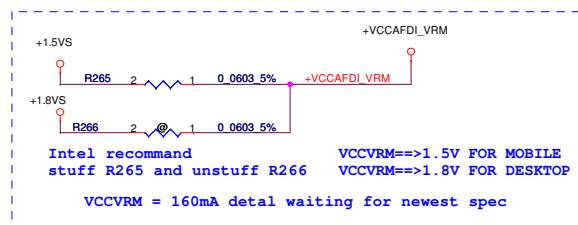
GPIO
CPU/MISC
NCTF



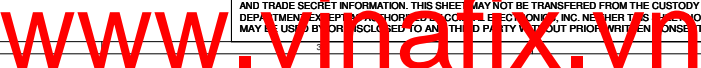
INIT3_3V
This signal has weak internal PU, can't pull low
Intel schematic review recommend.

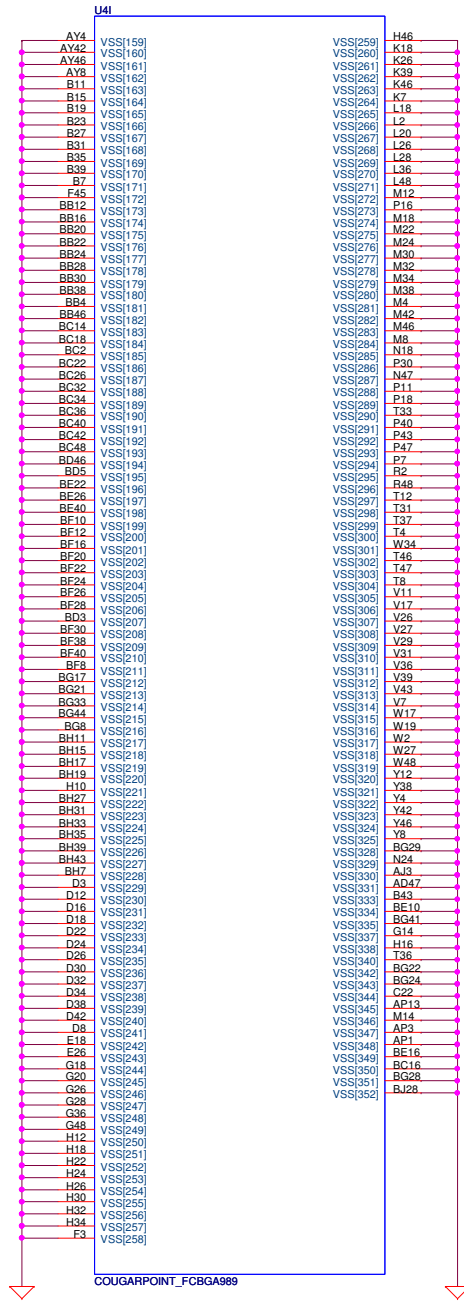
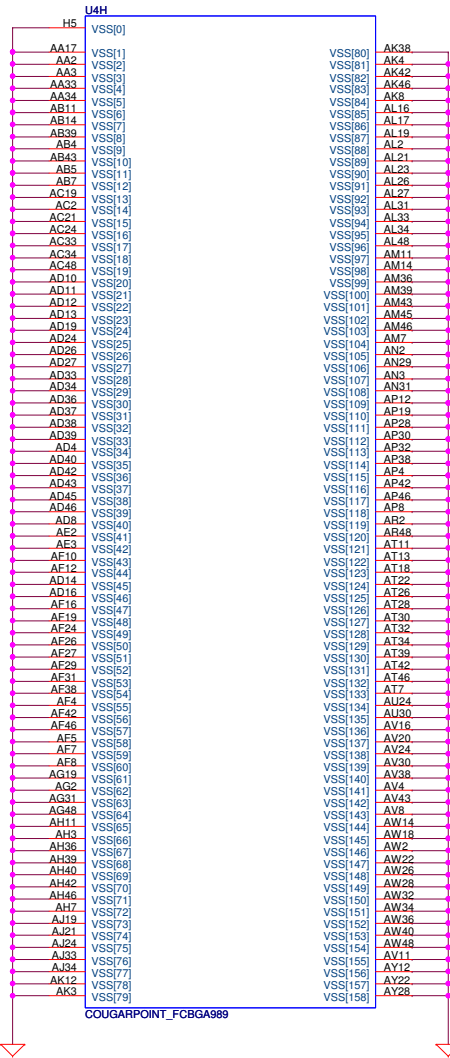


PCH Power Rail Table		
Voltage Rail	Voltage	SO Iccmax Current (A)
V_PROC_IO	1.05	0.001
V5REF	5	0.001
V5REF_Sus	5	0.001
Vcc3_3	3.3	0.266
VccADAC	3.3	0.001
VccADPLLA	1.05	0.08
VccADPLLB	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.05	0.042
VccIO	1.05	2.925
VccASW	1.05	1.01
VccSPI	3.3	0.02
VccDSW	3.3	0.003
VccpNAND	1.8	0.19
VccRTC	3.3	6 uA
VccSus3_3	3.3	0.119
VccSusHDA	3.3 / 1.5	0.01
VccVRM	1.8 / 1.5	0.16
VccCLKDMI	1.05	0.02
VccSSC	1.05	0.095
VccDIFFCLKN	1.05	0.055
VccALVDS	3.3	0.001
VccTX_LVDS	1.8	0.06

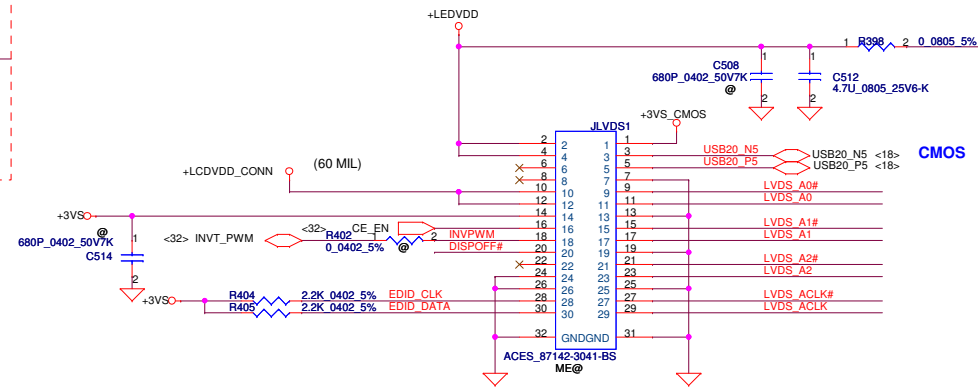
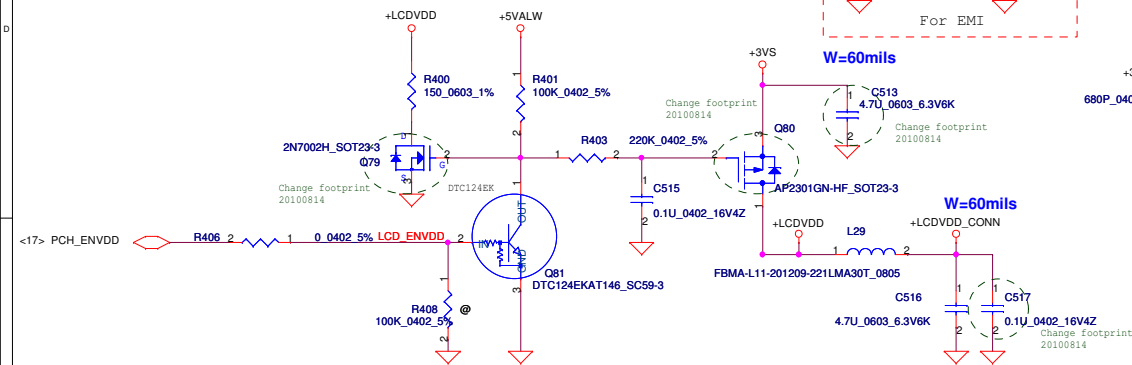


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	PCH (7/9) PWR
THIS SHEET OF ENGINEERING DRAWING IS THE PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT WITHOUT THE WRITTEN PERMISSION OF 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	Rev
				Customer	0.2
				Date	Friday, November 26, 2010
				Sheet	20 of 50

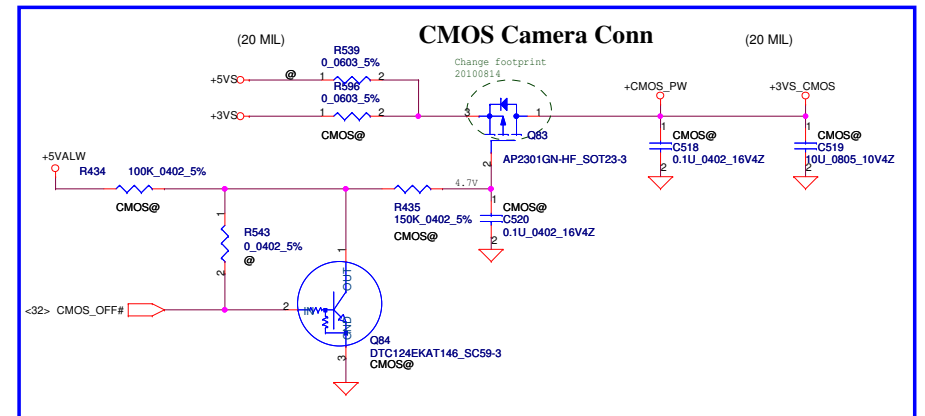
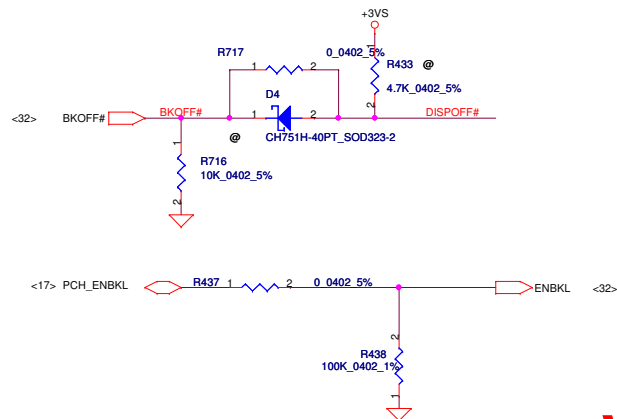
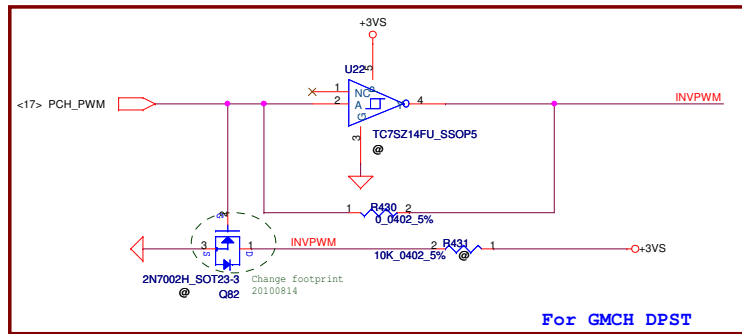




LCD POWER CIRCUIT



<17> EDID_CLK EDID_CLK
 <17> EDID_DATA EDID_DATA
 <17> LVDS_A0 LVDS_A0#
 <17> LVDS_A0# LVDS_A0#
 <17> LVDS_A1 LVDS_A1#
 <17> LVDS_A1# LVDS_A1#
 <17> LVDS_A2 LVDS_A2#
 <17> LVDS_A2# LVDS_A2#
 <17> LVDS_ACLK LVDS_ACLK#
 <17> LVDS_ACLK# LVDS_ACLK#



Security Classification				Compal Secret Data		Title	
Issued Date	2010/07/12	Deciphered Date	2012/07/11			Size	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. IN WRITING. IF THIS SHEET CONTAINS INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.						LA-6752P	Rev 0.2
						Date:	Friday, November 26, 2010
						Sheet	23 of 50

www.vinathix.vn

UMA only

<17> DAC_RED
<17> DAC_GRN
<17> DAC_BLU

8/6 Modify,

CLOSE TO CONN

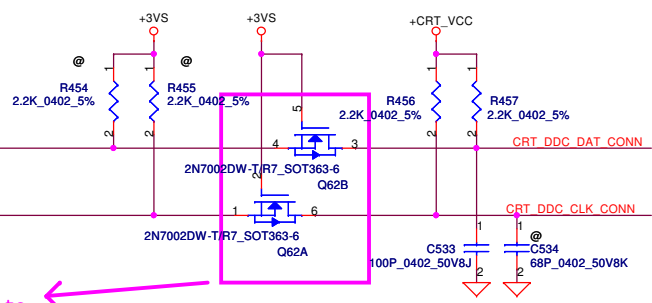
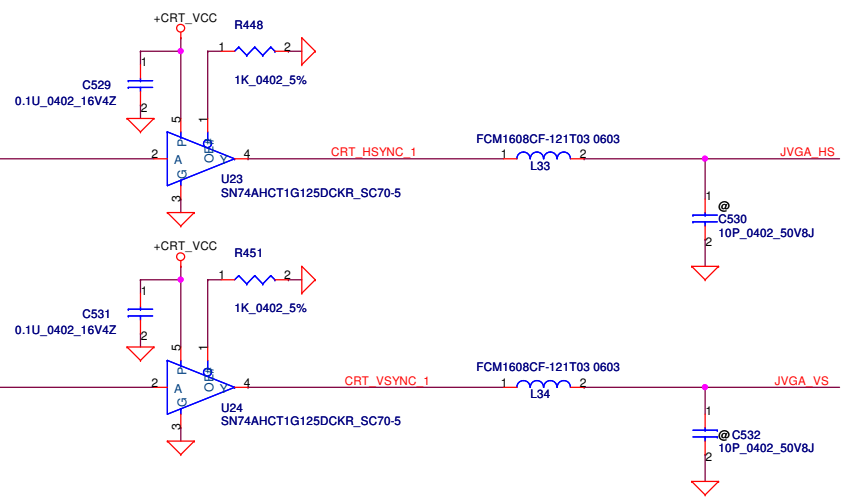
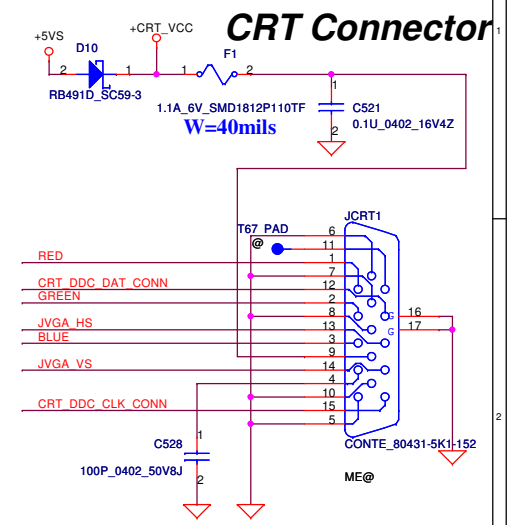
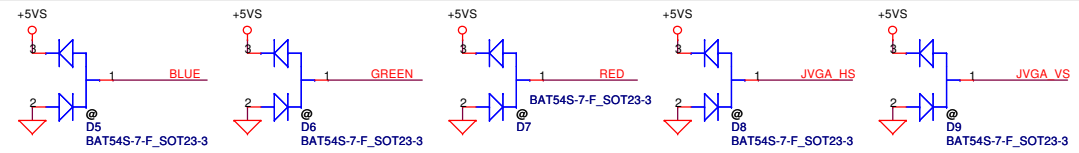
<17> CRT_HSYNC

<17> CRT_VSYNC

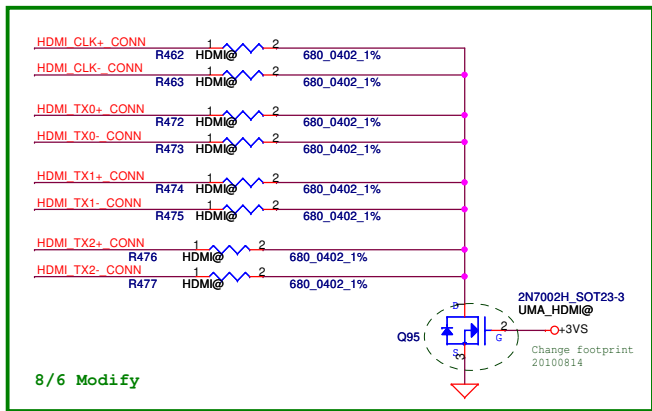
<17> CRT_DDC_DATA

<17> CRT_DDC_CLK

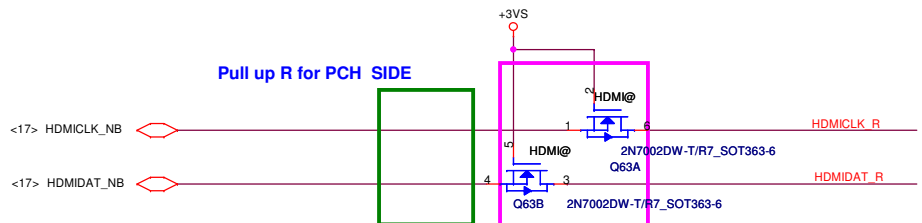
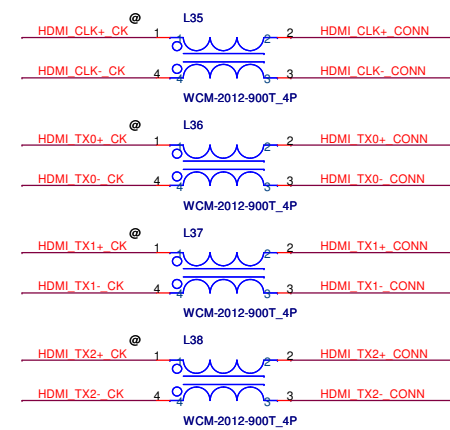
8/14 change P/N to
DMN66D0LDW-7_SOT363-6
(SB00000DH00)



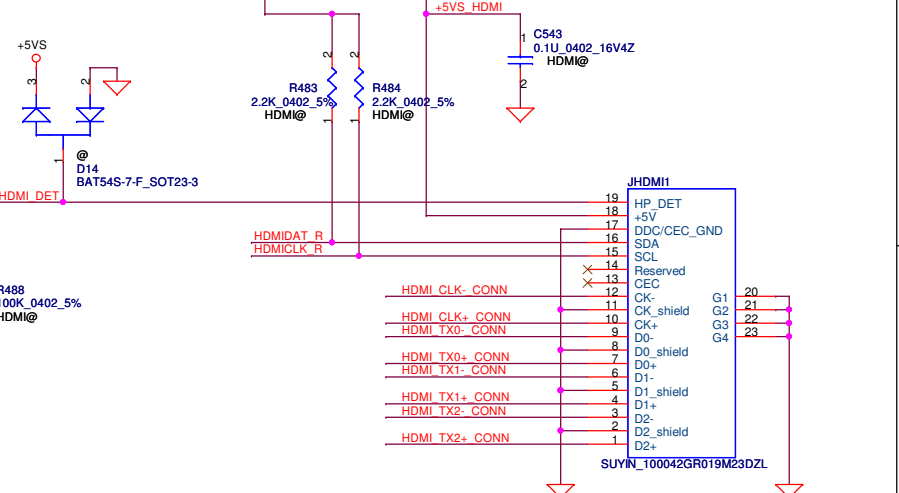
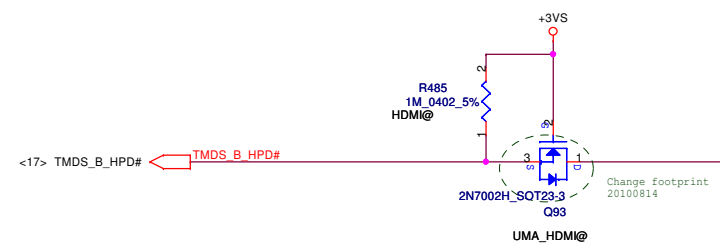
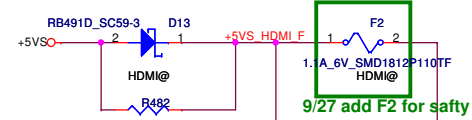
Security Classification		Compal Secret Data		Title	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	LA-6752P
				Date	Friday, November 26, 2010
				Sheet	24 of 50
				Rev	0.2



<17>	HDMI_CLK+_CK	HDMI@	R464	1	2	0.0402_5%	HDMI_CLK+_CONN
<17>	HDMI_CLK-_CK	HDMI@	R465	1	2	0.0402_5%	HDMI_CLK-_CONN
<17>	HDMI_TX0+_CK	HDMI@	R466	1	2	0.0402_5%	HDMI_TX0+_CONN
<17>	HDMI_TX0-_CK	HDMI@	R467	1	2	0.0402_5%	HDMI_TX0-_CONN
<17>	HDMI_TX1+_CK	HDMI@	R468	1	2	0.0402_5%	HDMI_TX1+_CONN
<17>	HDMI_TX1-_CK	HDMI@	R469	1	2	0.0402_5%	HDMI_TX1-_CONN
<17>	HDMI_TX2+_CK	HDMI@	R470	1	2	0.0402_5%	HDMI_TX2+_CONN
<17>	HDMI_TX2-_CK	HDMI@	R471	1	2	0.0402_5%	HDMI_TX2-_CONN

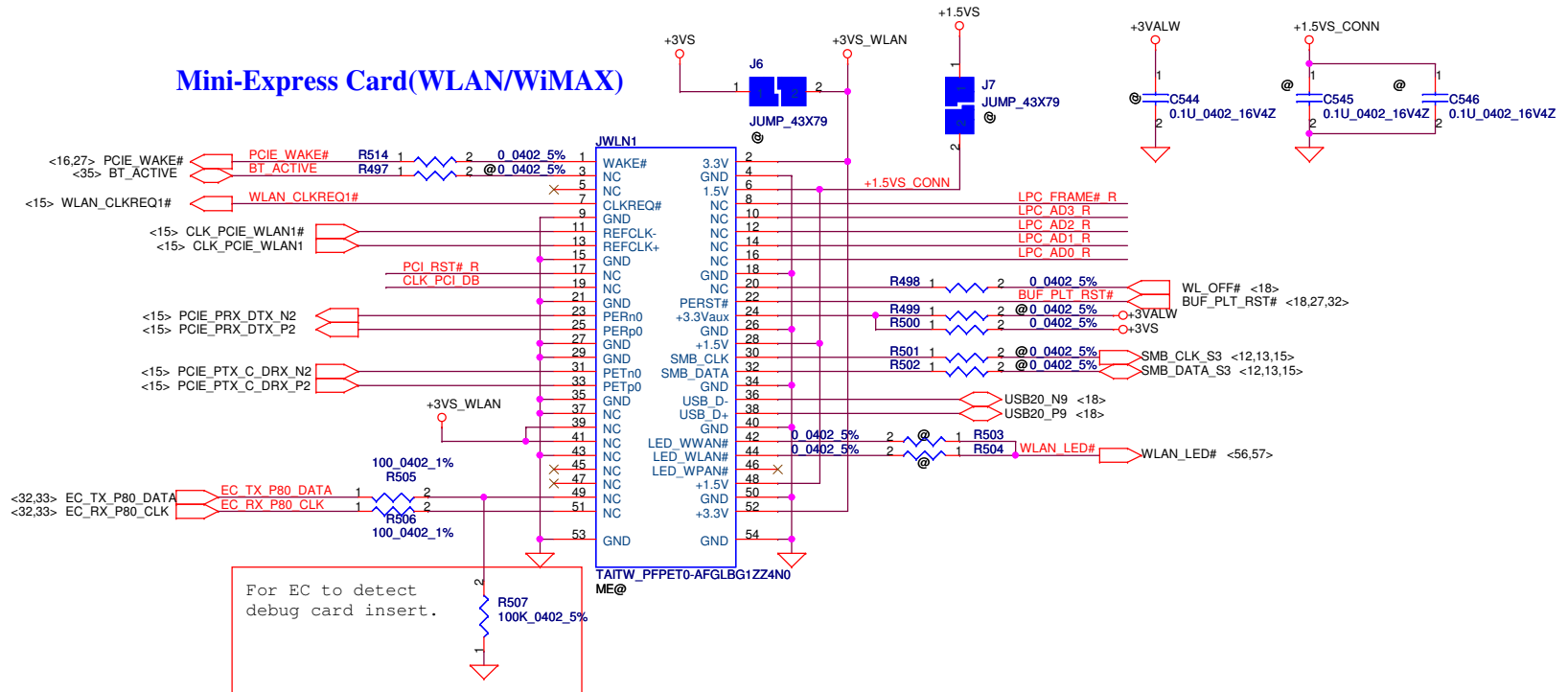


8/14 change P/N to
DMN66D0LDW-7_SOT363-6
(SB00000DH00)



Security Classification		Compal Secret Data		Compal Electronics, Ltd.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	HDMI CONN
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 TRANSMITTED 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Custom
				Document Number	LA-6752P
				Date	Friday, November 26, 2010
				Sheet	25 of 50

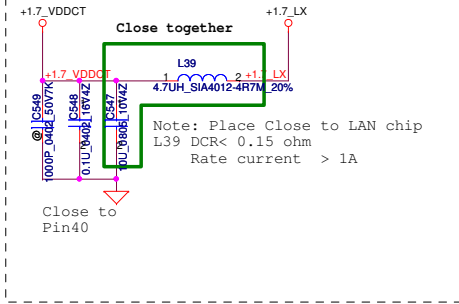
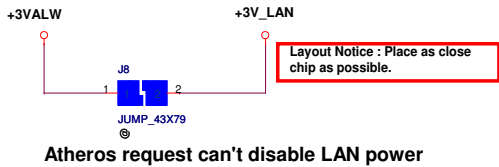
Mini-Express Card for WLAN/WiMAX(Half)



Reserve for SW mini-pcie debug card.
Series resistors closed to KBC side.

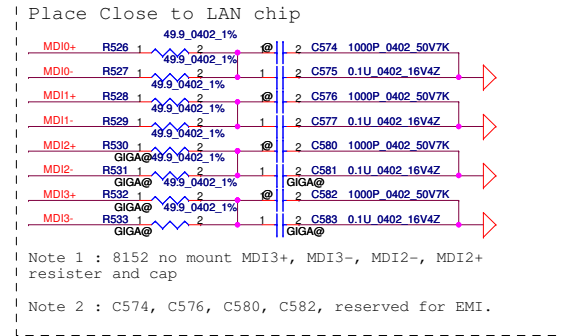
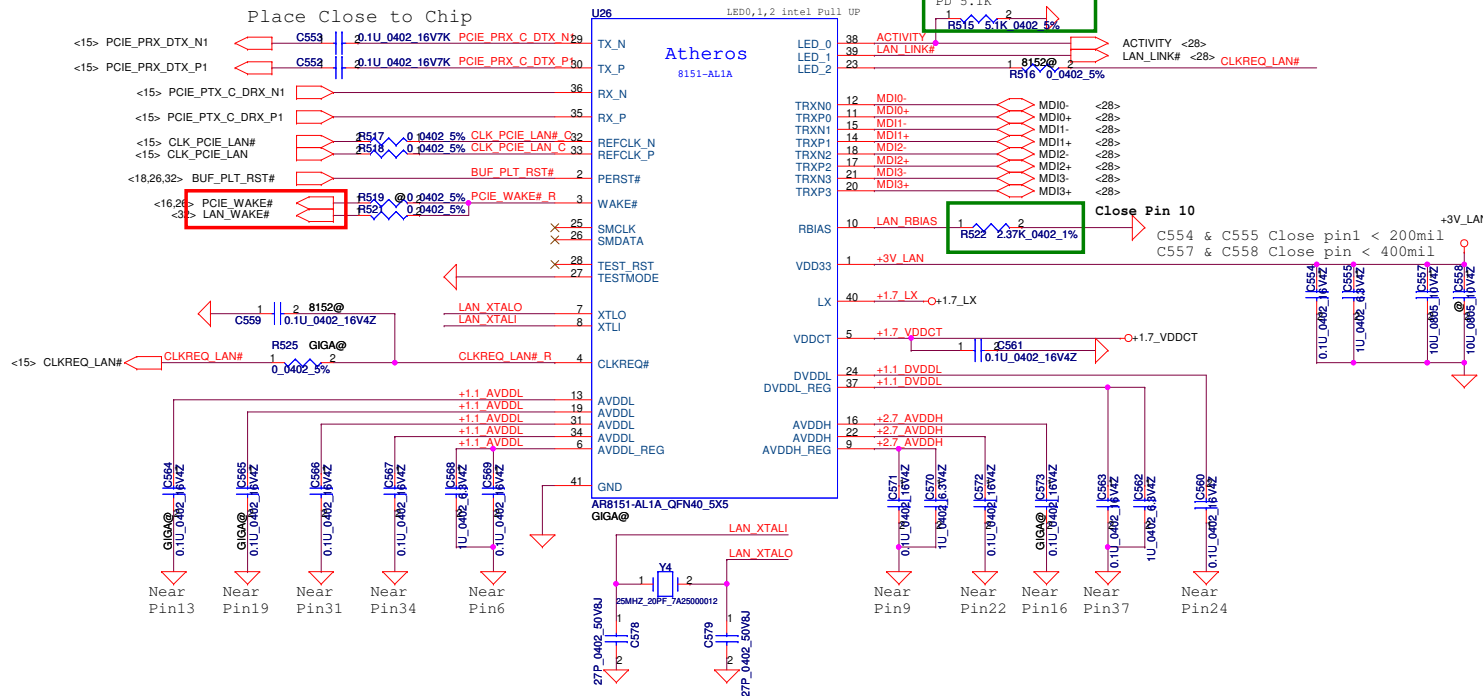
LPC_FRAME# R	R508	1	2	0.0402 5%	LPC_FRAME#	LPC_FRAME# <14,32>
LPC_AD3 R	R509	1	2	0.0402 5%	LPC_AD3	LPC_AD3 <14,32>
LPC_AD2 R	R510	1	2	0.0402 5%	LPC_AD2	LPC_AD2 <14,32>
LPC_AD1 R	R511	1	2	0.0402 5%	LPC_AD1	LPC_AD1 <14,32>
LPC_AD0 R	R512	1	2	0.0402 5%	LPC_AD0	LPC_AD0 <14,32>
PCI_RST# R	R513	1	2	0.0402 5%	PCI_RST#	BUF_PLT_RST#
CLK_PCI_DB					CLK_PCI_DB	<15>

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	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.				Mini-Card/NEW Card/SIM	
				Size	Document Number
				LA-6752P	
				Date:	Friday, November 26, 2010
				Sheet	26 of 50
				Rev	0.2



Pin	Description	Chip Default
LED0	H:Over Clock Enable L:Over Clock Disable *	H
LED2	H:SWR Switch mode regulator Select * AR8151 Pin23=LED2. AR8152, Pin23 is CLKREQ	--

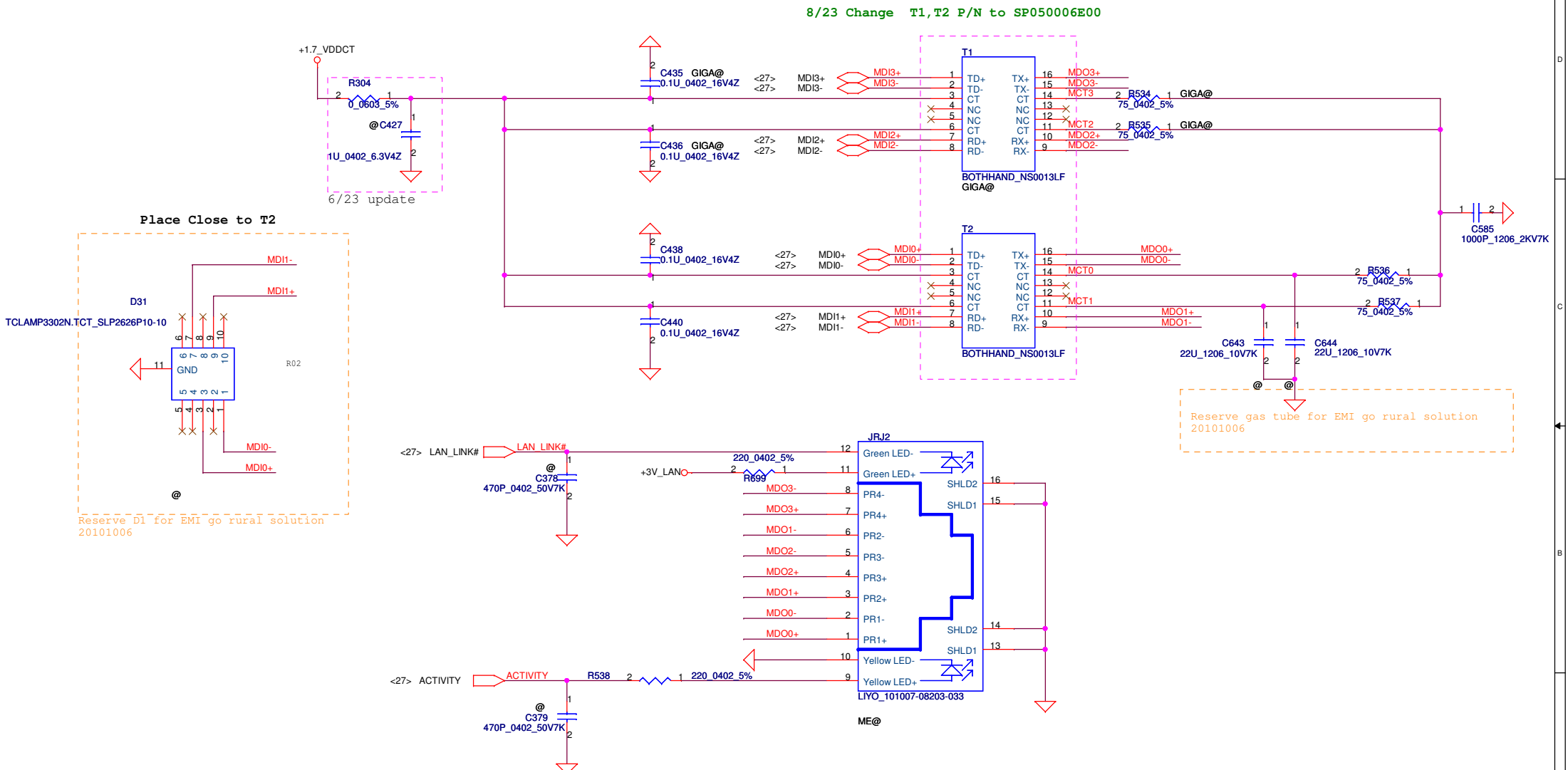
U26 8152@
S IC AR8152-AL1E QFN 40P E-LAN CTRL



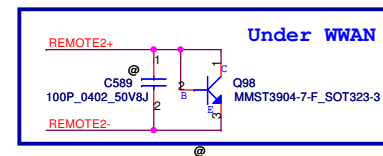
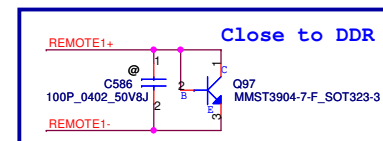
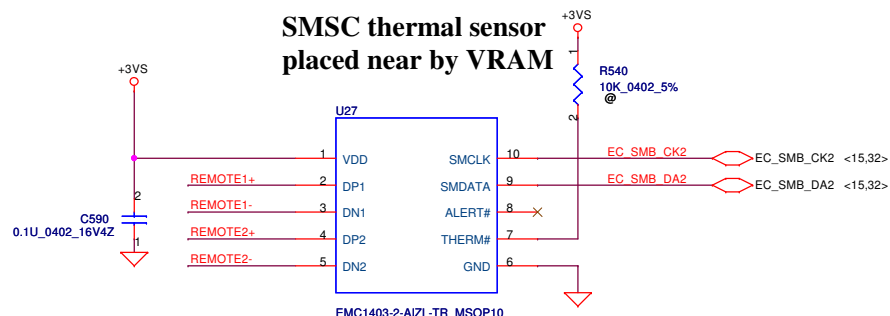
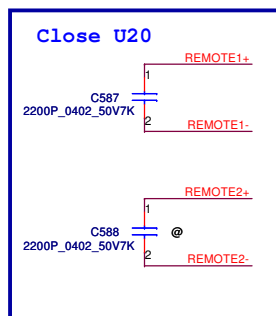
Note 1 : 8152 no mount MDI3+, MDI3-, MDI2-, MDI2+ resistor and cap
Note 2 : C574, C576, C580, C582, reserved for EMI.

	Pin4	Configure		Pin23	Configure
AR8152	VDDCT_REG	R525	C559 *	CLKREQn	R516 *
AR8151	CLKREQn	*		LED [2]	

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	LAN-AR8151/8152
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 0.2
				Document Number	LA-6752P
				Date: Friday, November 26, 2010	Sheet 27 of 50

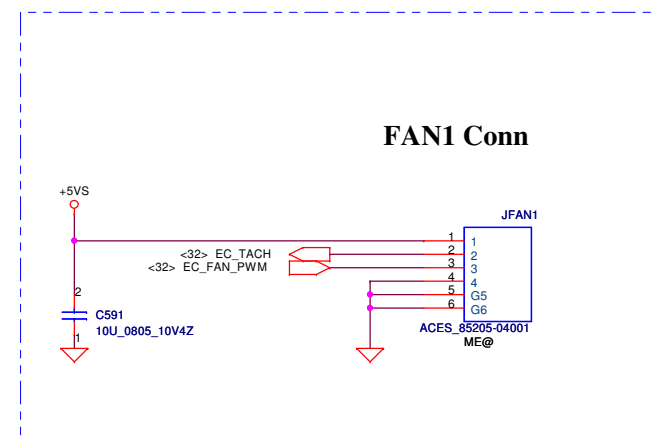


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				LAN_Transformer	
Size	Document Number	LA-6752P		Rev	0.2
Date:	Friday, November 26, 2010	Sheet	28	of	50



REMOTE1,2+/-:
Trace width/space:10/10 mil
Trace length:<8"

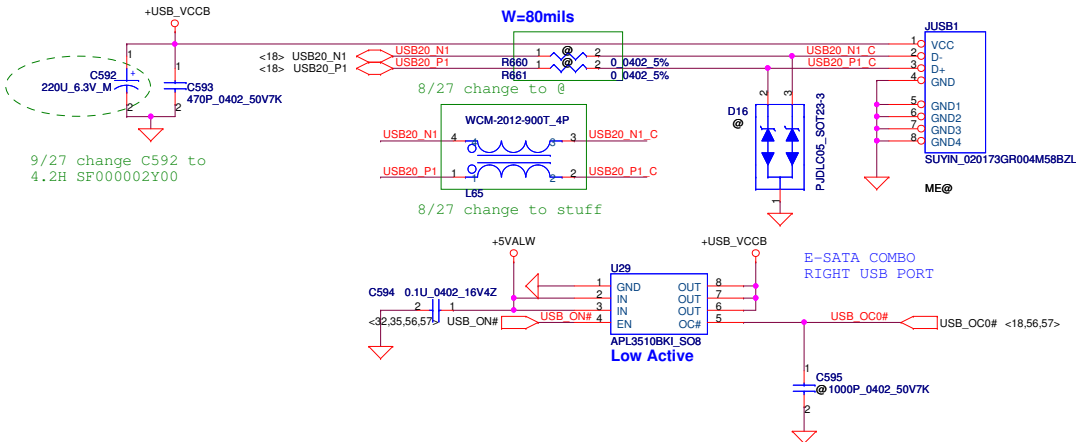
10/5 change P/N to SA000046C00



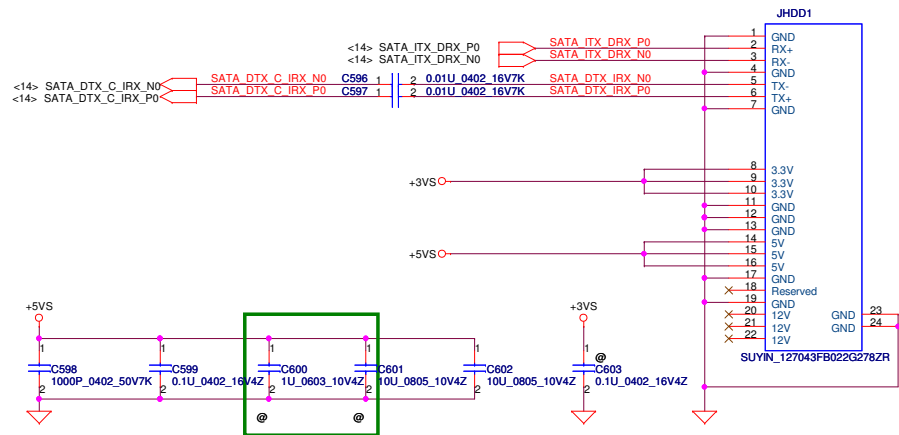
Security Classification		Compal Secret Data		Compal Electronics, Ltd.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	EMC1403 Thermal sensor/FAN
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Custom
				Document Number	LA-6752P
				Date	Friday, November 26, 2010
				Sheet	29 of 50
				Rev	0.2

www.vinafix.vn

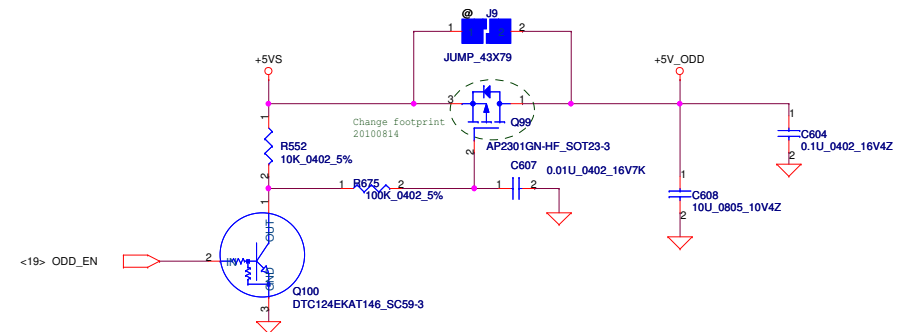
Left USB Conn.



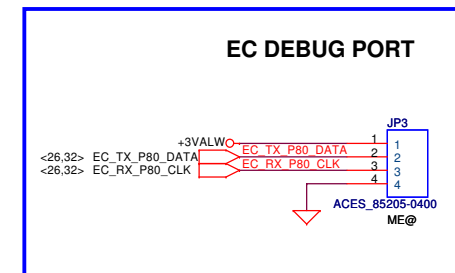
SATA HDD Conn.



ODD Power Control

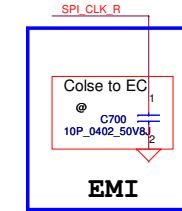
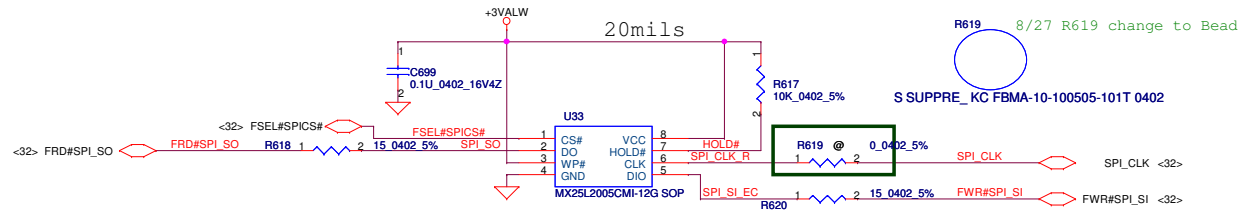


Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date		2010/07/12		Deciphered Date		2012/07/11		Title			
								HDD/ODD Connector			
								LA-6752P			
								Rev 0.2			
								Date: Friday, November 26, 2010			
								Sheet 30 of 50			

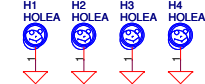


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	KB /SW /LPC Debug Conn.
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number LA-6752P
				Date: Friday, November 26, 2010	Sheet 33 of 50
					Rev 0.2

FOR EC 128KB SPI ROM
(150mil PACKAGE)
SA00003FL10
SA00003JD00



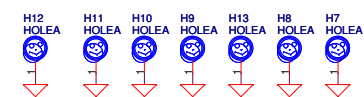
H_3P8



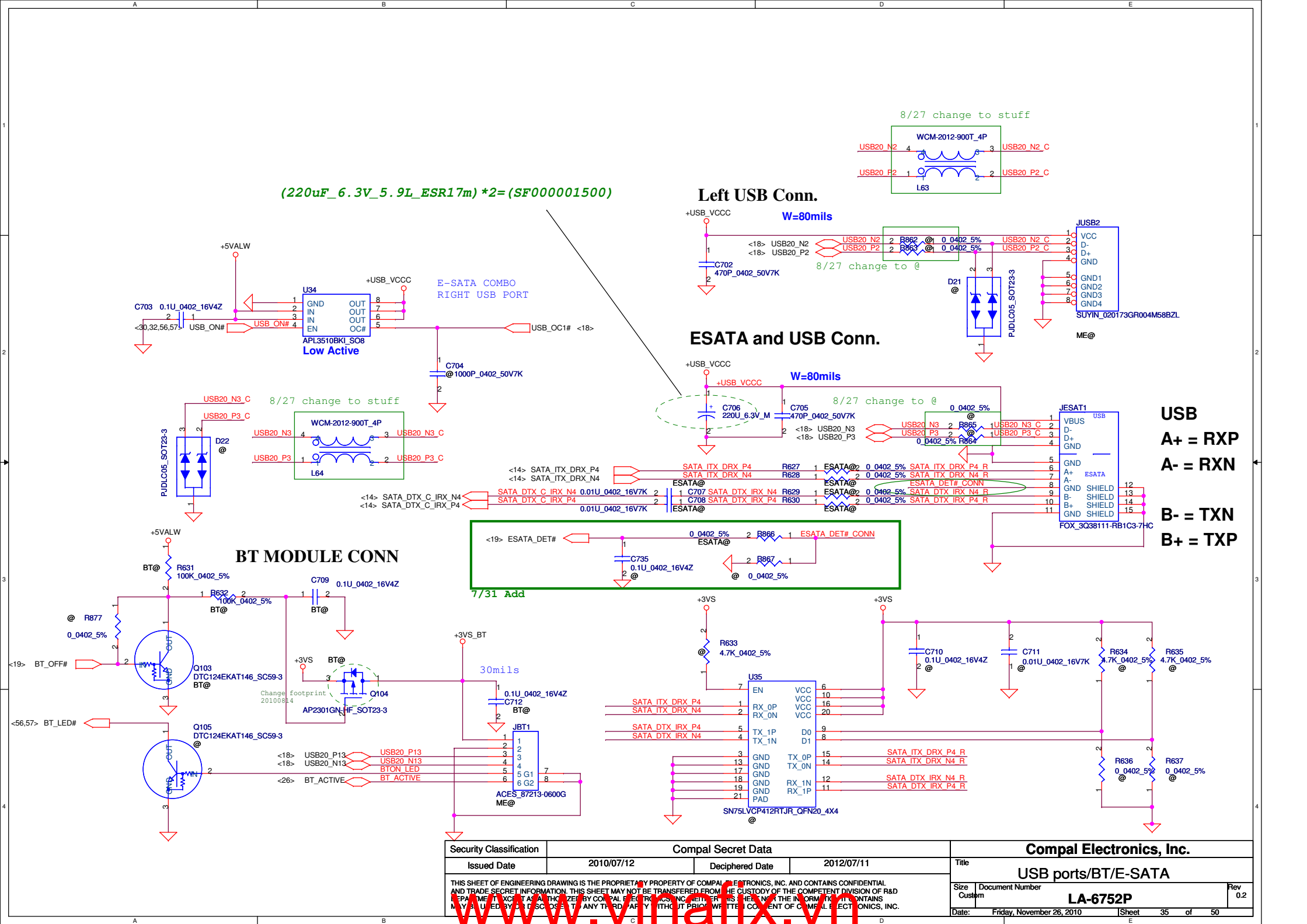
H_3P3



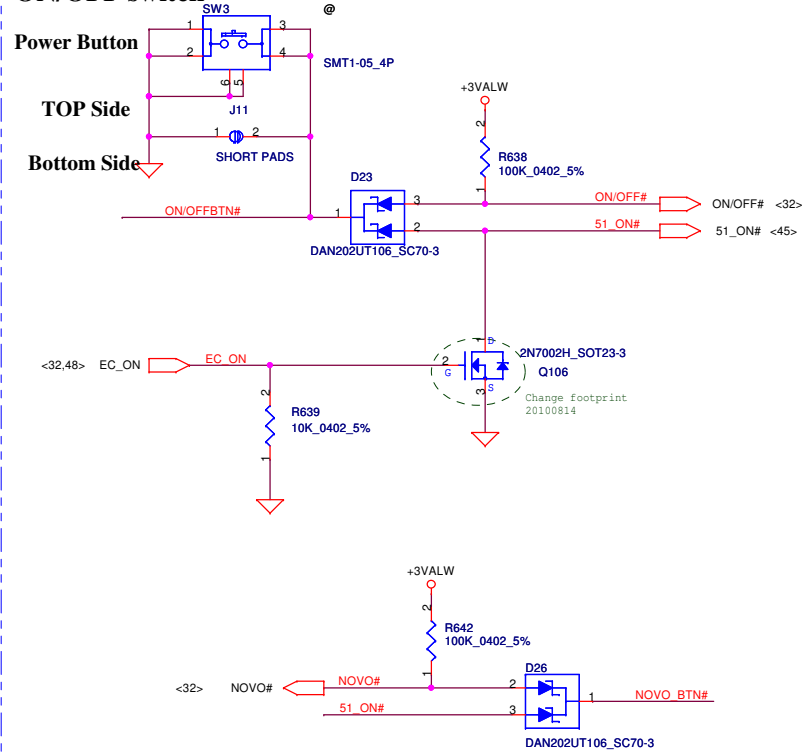
H_2P8



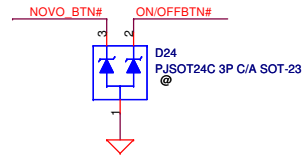
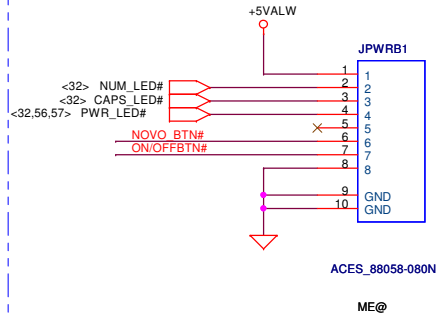
Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date		2010/07/12		Deciphered Date		2012/07/11	
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED 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 THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</p>				Title			
				LED/EC SPI ROM			
				Size B	Document Number		
				LA-6752P			
Date:		Friday, November 26, 2010		Sheet		34 of 50	



ON/OFF switch

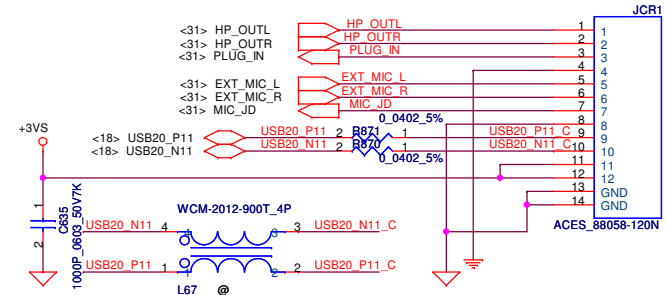


Power Bottom Board Conn. 8pin

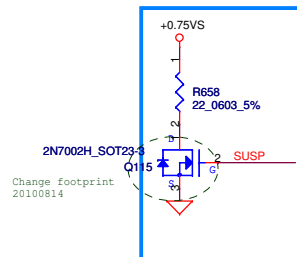
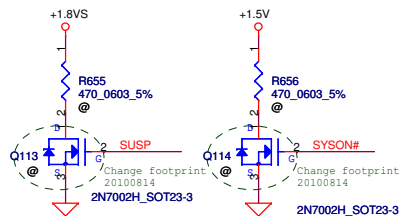
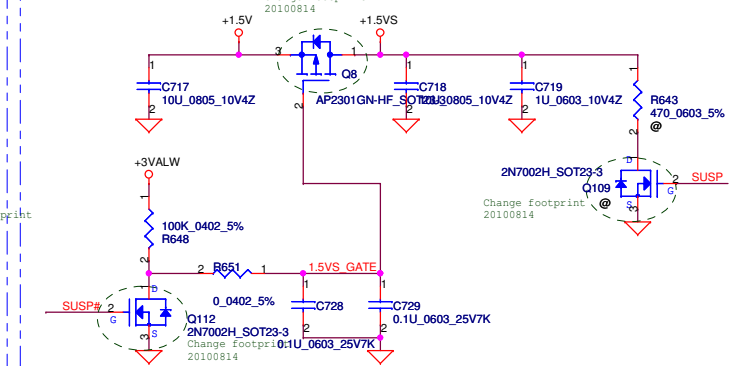
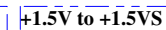
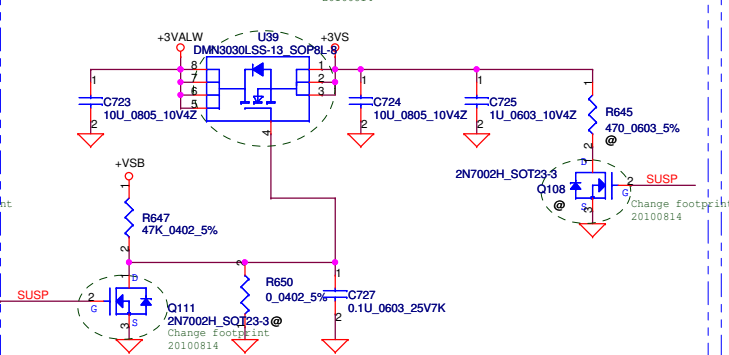
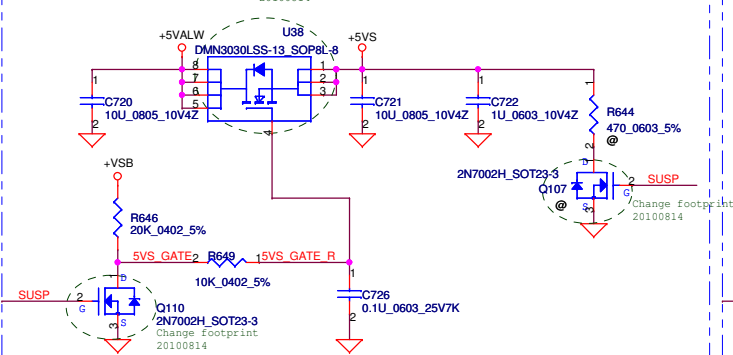


EMI REQUEST 1ST = SCA00000E00
2ST = SCA00000R00

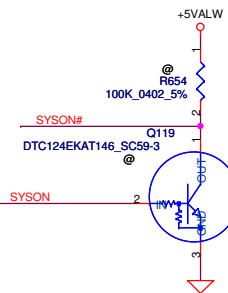
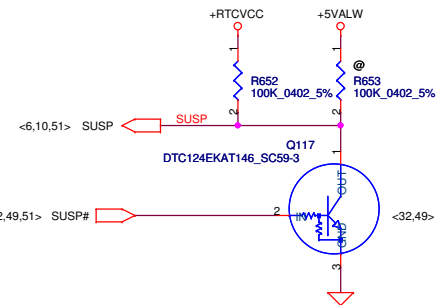
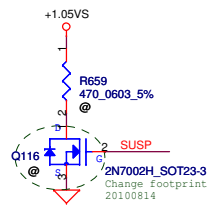
Card Reader/Audio Jack SB CONN



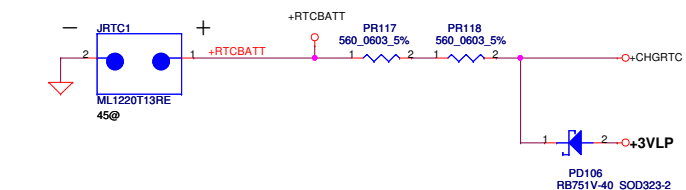
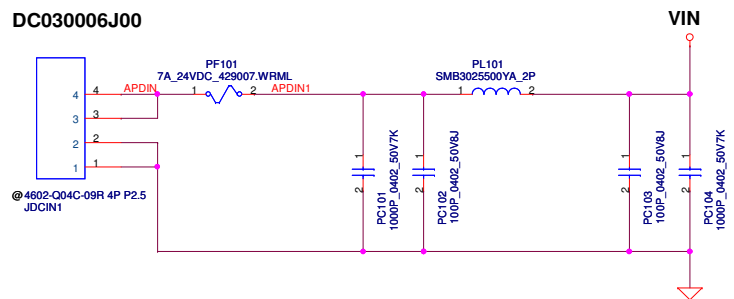
Security Classification	Compal Secret Data		Compal Electronics, Ltd.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				other IO connector
Size Custom	Document Number	LA-6751P		Rev 0.2
Date: Friday, November 26, 2010	Sheet	36	of	50



For Intel S3 Power Reduction.



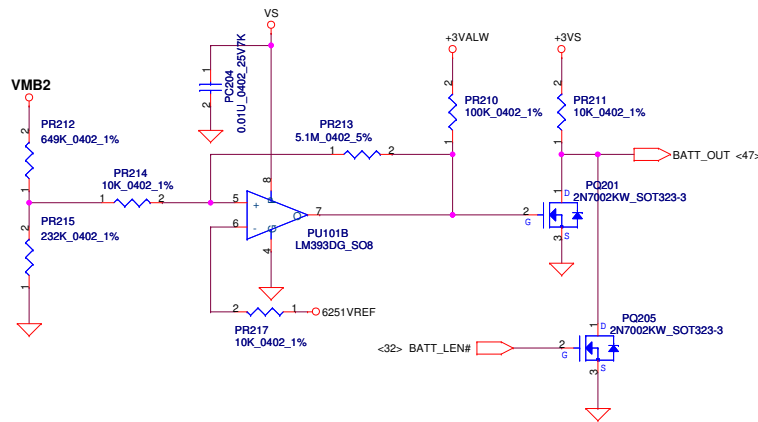
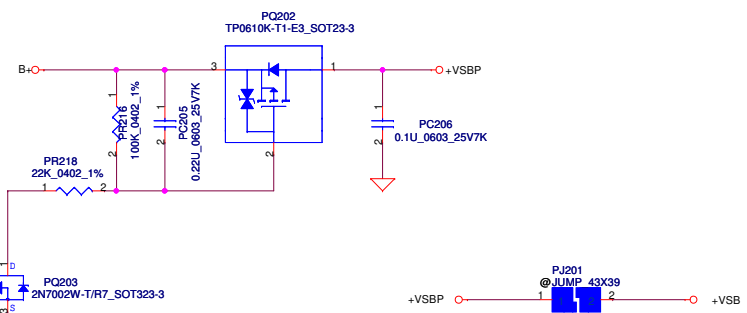
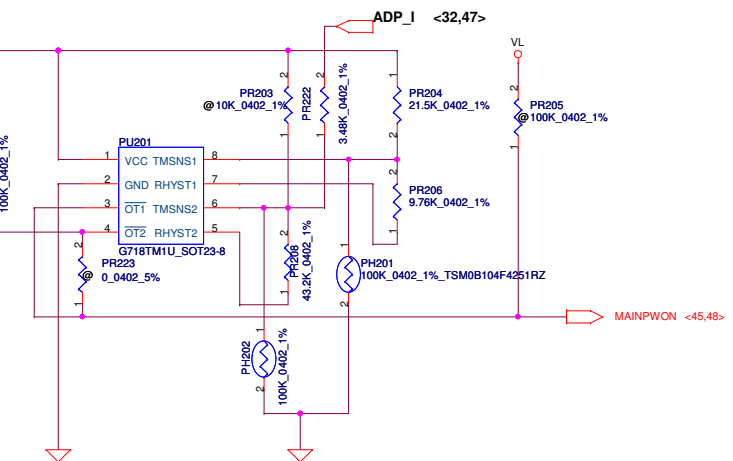
Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title DC Interface		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY 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-6752P	0.2
				Date:	Friday, November 26, 2010	Sheet 37 of 50



	Precharge detector		
	Min.	typ.	Max.
L-->H	14.991V	15.381V	15.782V
H-->L	13.860V	14.247V	14.621V

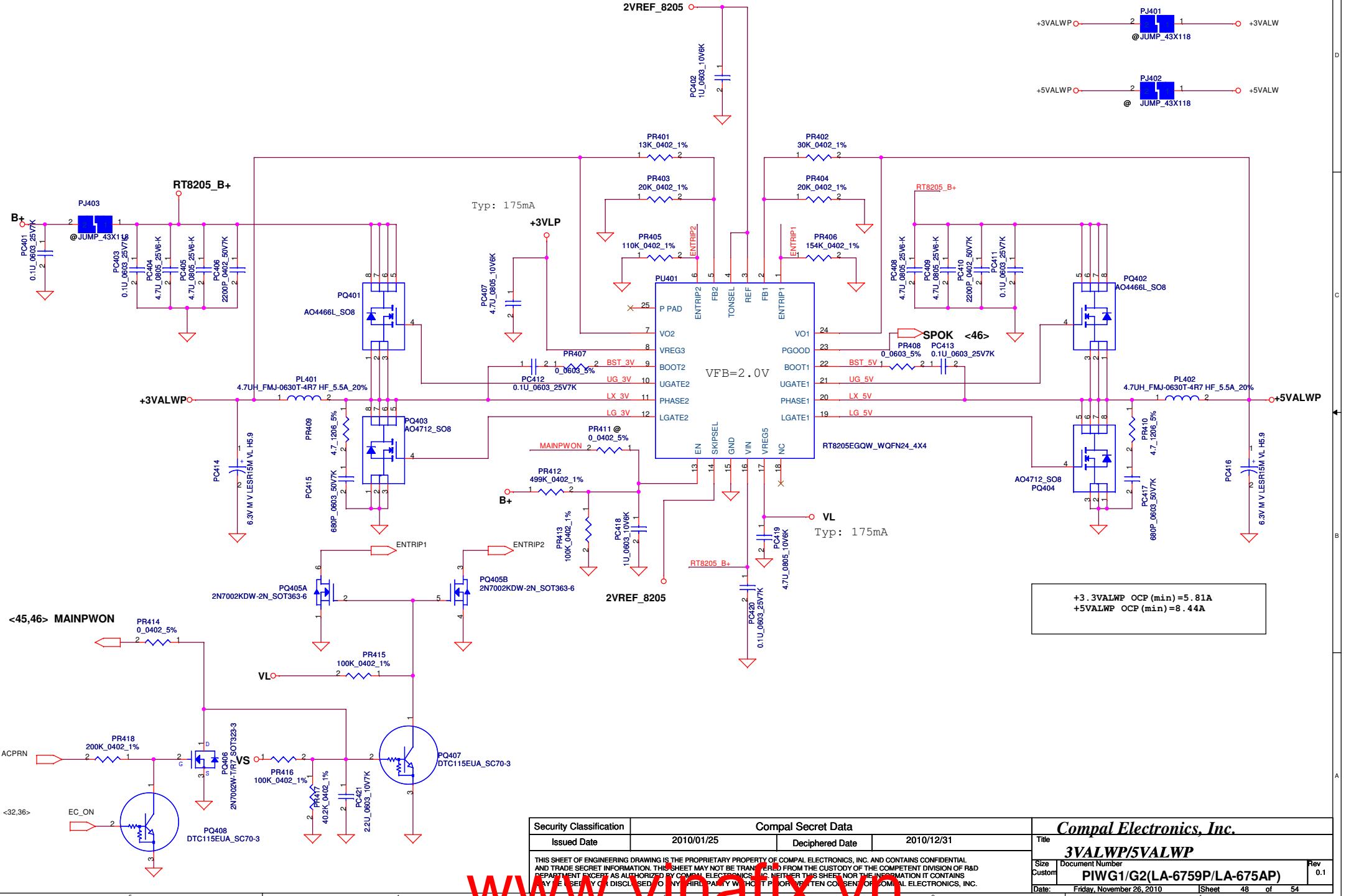
	Precharge detector		
	Min.	typ.	Max.
L-->H	7.196V	7.349V	7.505V
H-->L	6.138V	6.214V	6.056V

Security Classification		Compal Secret Data		Compal Electronics, Inc.							
Issued Date		2010/01/25		Deciphered Date		2010/12/31		PWR DCIN / Vin Detector /Pre-charge			
THIS SHEET OF ENGINEERING DRAWING IS THE 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 BY AUTHORITY OF COMPAL ELECTRONICS, INC. NEITHER THIS SHEET OR THE INFORMATION IT CONTAINS MAY BE USED OR DISCLOSED TO ANY OTHER PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.								Title			
								Size		Document Number	
								PIWG1/G2(LA-6759P/LA-675AP)		0.1	
Date:								Friday, November 26, 2010		Sheet 45 of 54	

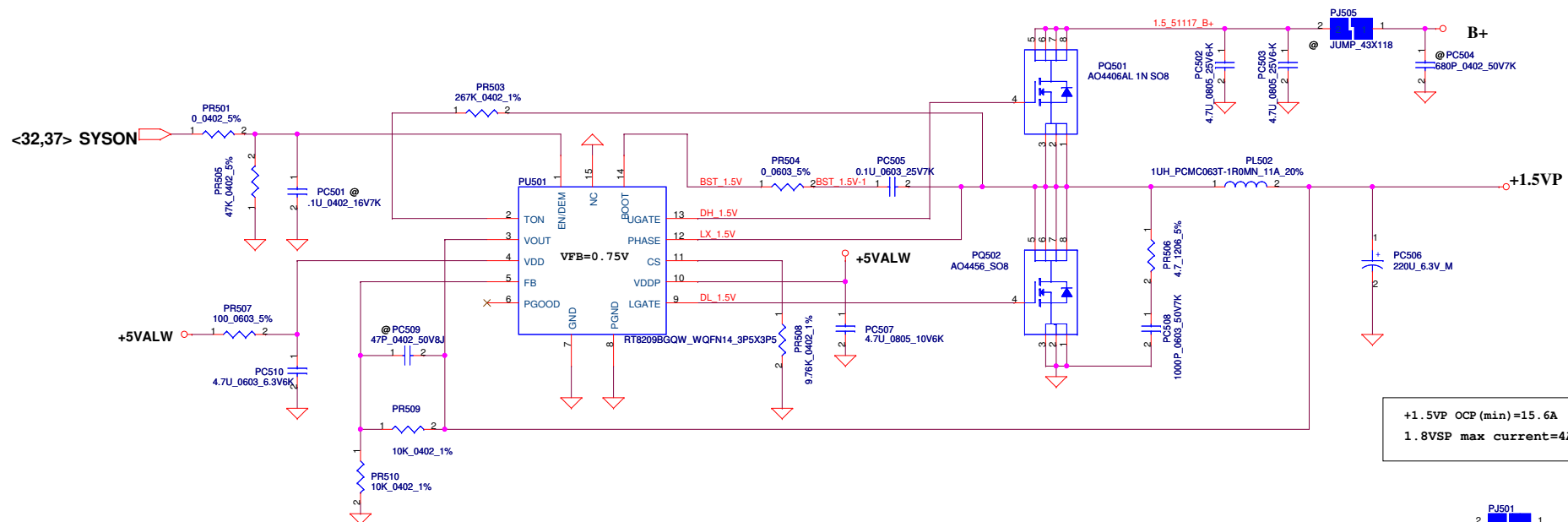


THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE DEPARTMENT EXCEPT BY SHORT-TERM LOAN TO COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR ANY INFORMATION CONTAINED HEREIN IS TO BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.

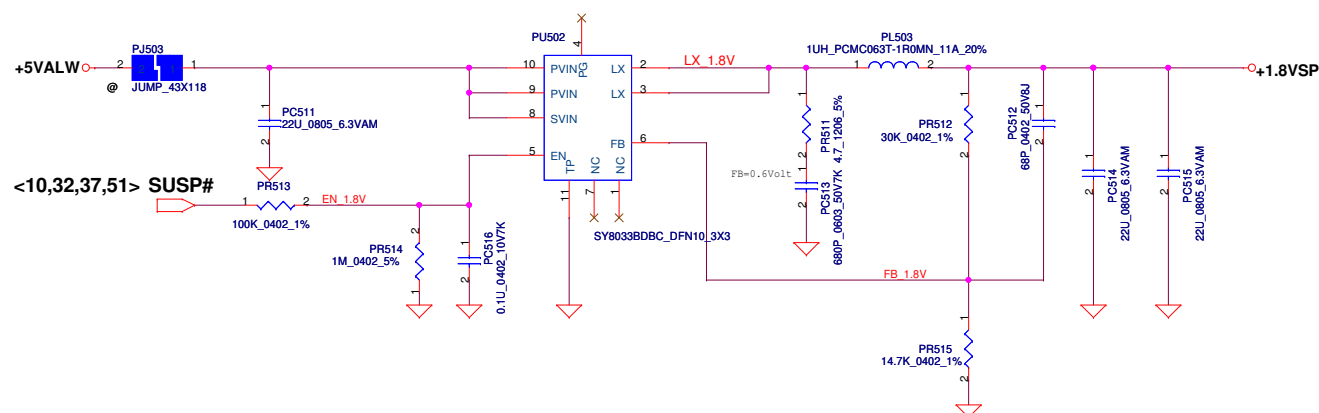
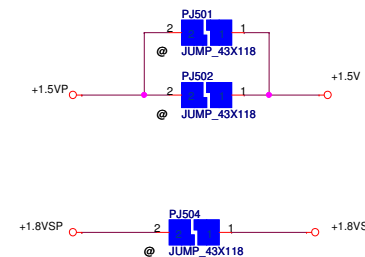
Note:
Use TPS51125 IC can remove RTC refernece LDO
Use TPS51427 IC must keep RTC refernece LDO



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/01/25	Deciphered Date	2010/12/31	Title	3VALWP/5VALWP
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 TRANSMITTED 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	PIWG1/G2(LA-6759P/LA-675AP)
				Date	Friday, November 26, 2010
				Sheet	48 of 54
				Rev	0.1

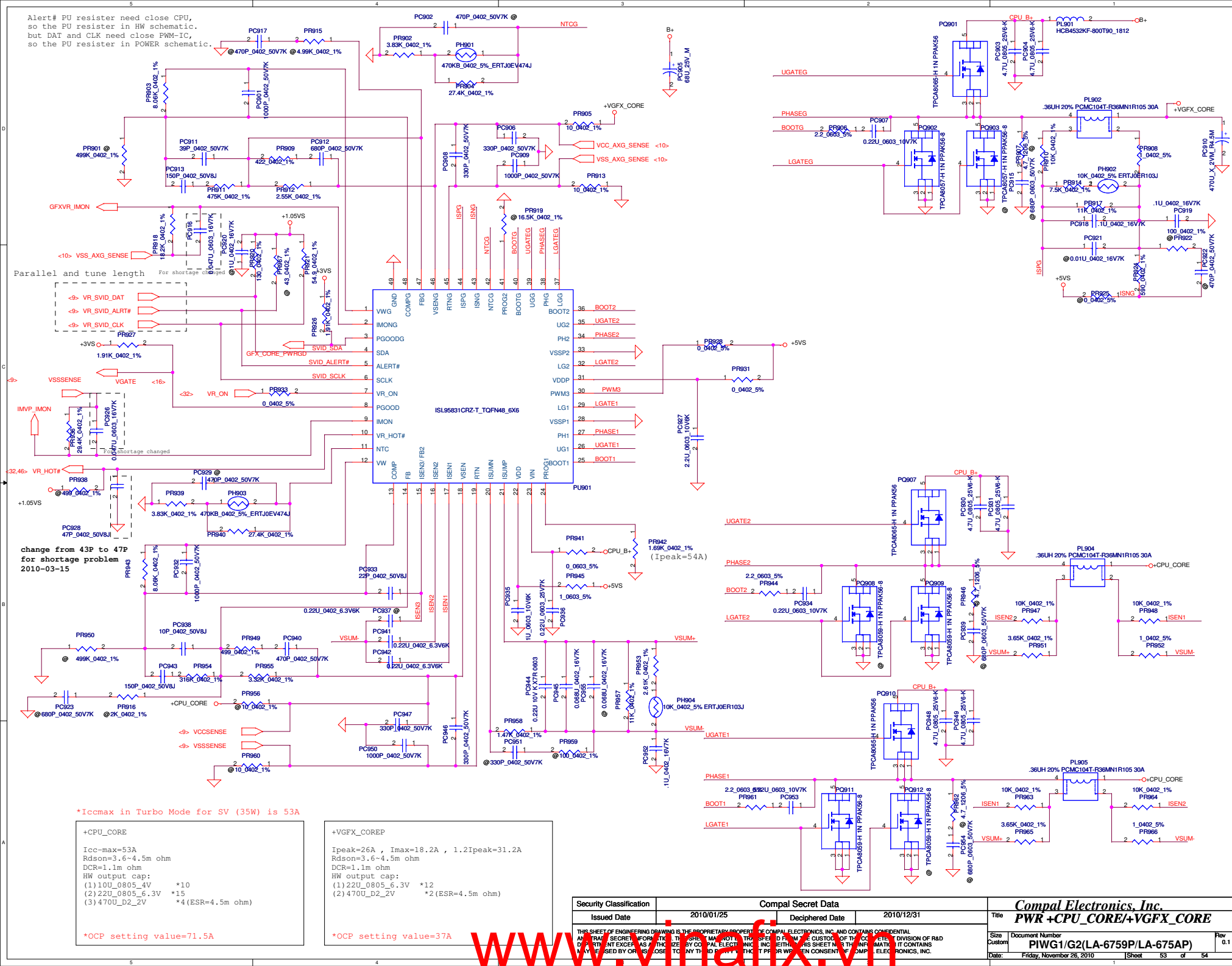


+1.5VP OCP (min)=15.6A
1.8VSP max current=4A



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/01/25	Deciphered Date	2010/12/31	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL INFORMATION. NO PART OF THIS SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				PWR-+1.5VP/+1.8VSP	
Document Number				PIWG1/G2(LA-6759P/LA-675AP)	
Date				Friday, November 26, 2010	
Sheet				49 of 54	

Alert# PU resistor need close CPU,
so the PU resistor in HW schematic.
but DAT and CLK need close PWM-IC,
so the PU resistor in POWER schematic.



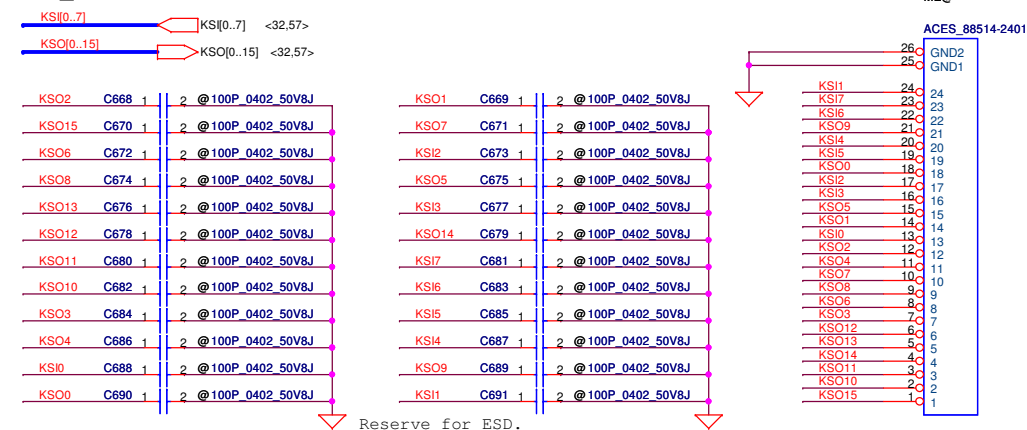
Version change list (P.I.R. List)

Page 1 of 1
for PWR

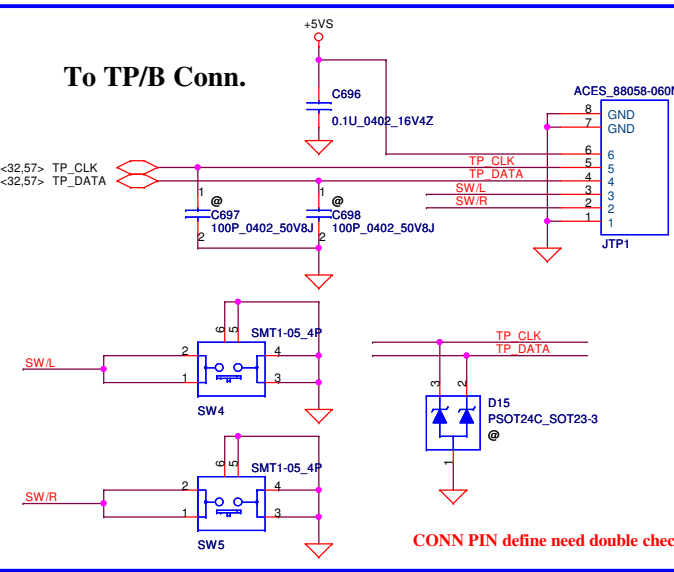
Item	Reason for change	PG#	Modify List	Date	Phase
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2009/01/06	Deciphered Date	2009/01/06	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MUST BE KEPT UNDER 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.				PIR (PWR)	
Size	Custom	Document Number	PIWG1/G2(LA-6759P/LA-675AP)		Rev
Date: Friday, November 26, 2010			Sheet 54 of 54		0.1

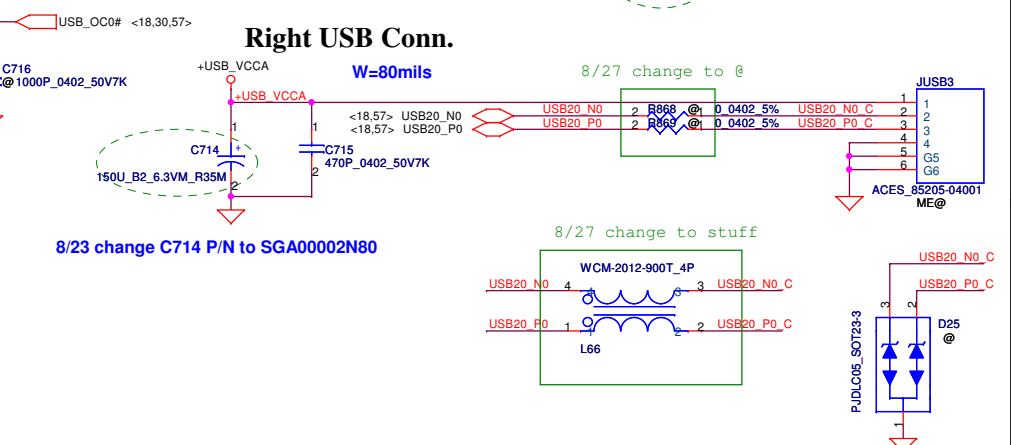
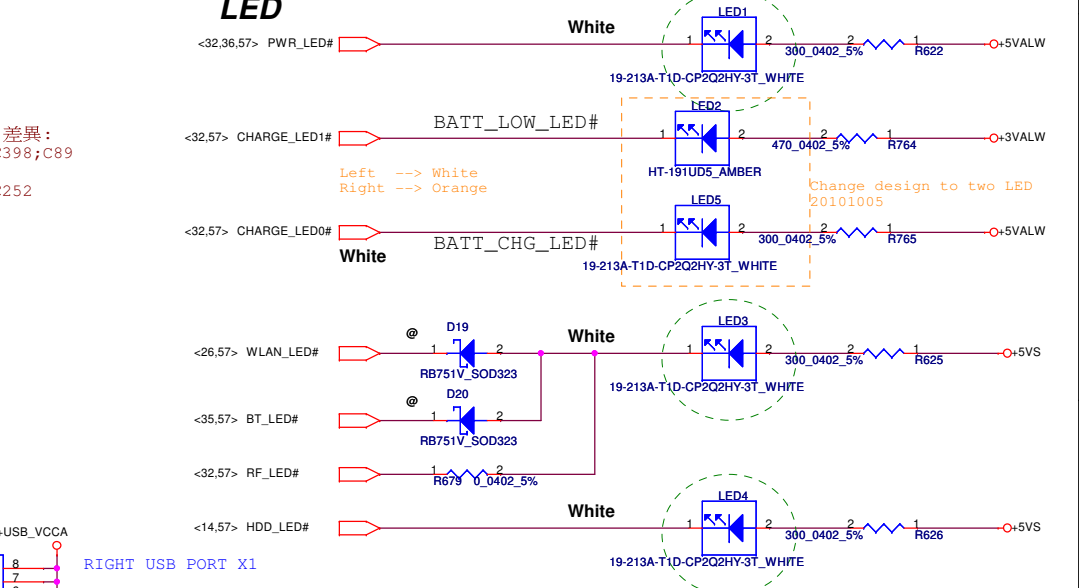
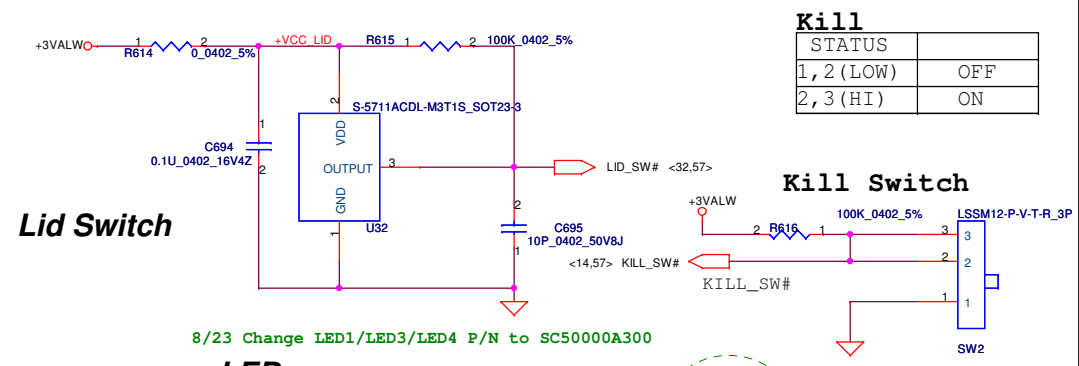
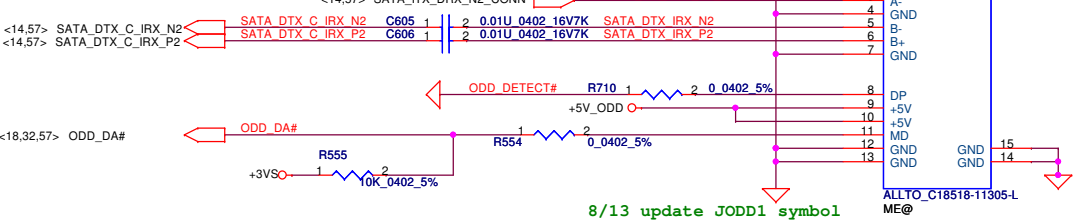
INT_KBD Conn.



CONN PIN define need double check



SATA ODD Conn.



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	KB /SW /LPC Debug Conn.	
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 TRANSMITTED 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 OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				LA-6751P	Rev 0.2
Date: Friday, November 26, 2010		Sheet 56		of 60	

Security Classification		Compal Secret Data		Compal Electronics, Inc. PIR	
Issued Date	2010/07/12	Deciphered Date	2012/07/11		
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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Title PIR	Size B
				Document Number LA-6752P	Rev 0.2
Date:	Friday, November 26, 2010	Sheet	58	of	60

PHASE		Modification list	PURPOSE
0.2	P16	D29 change to @	For AC detect issue
0.2	P24	R548,R549 change to DIS@	For AC detect issue
0.2	P10	C128 change to stuff	For test on DVT
0.2	P44	Del Q118, R657	For not need
0.2		Change R513, R516 ,R667 P/N and from 0805 to 0603	For common part
0.2		Change C633, C634 , C642	For common part
0.2		Change D3, D29 P/N and symbol	For common part
0.2		Change U3,U11,U13,U14,U38,U39 P/N and symbol	For common part
0.2		Change U3,U11,U13,U14,U38,U39 P/N and symbol	For common part
0.2		Change Q8,Q65,Q80,Q83,Q99,Q104 P/N and symbol	For common part
0.2		Change Q1,Q37,Q93 P/N and symbol	For common part
0.2		Change Q94, Q95 P/N and symbol	For common part
0.2		Change Q3,Q4,Q7,Q9,Q66,Q67,Q68,Q73,Q74,Q75,Q76,Q77,Q78, Q79,Q82,Q85,Q86,Q87,Q102,Q106,Q107,Q108,Q109,Q110,Q111,Q112,Q113,Q114,Q115,Q116 P/N and symbol	For common part
0.2		Change C635 part and change to @	For EMI
0.2	P18	Reserved R297	Reserved
0.2	P9	Change C53,C85,C86,C87 ,C397,C398,C399 to stuff and change ,C48,C80,C81,C82, C90,C91 to @ Del C89	For CPU_CORE
0.2	P10	Change C110,C111,C112,C113 to stuff	For VGFY_CORE
0.2	P56	Change LED1/LED3/LED4 P/N to SC50000A300	Change P/N
0.2	P36	Change T1,T2 P/N to SP050003N00	For test pass part
0.2	P40	Change R611,R740,C93 to stuff and change Y5,C347,C367 to @ Change R695 to 18K, Q37 change to @, R747 change to stuff,	For SUS_CLK R695 for Board ID, Q37, R747 for VR_HOT
0.2	P40	Change U33 P/N to SA00003FL10	For BIOS ROM
0.2		Change C509,C511,C635 to stuff	For EMI
0.2	P56	Change I4" C7I4 P/N to SGA00002N80	For Sourcer request
0.2	P39	Change R720,R721,R722,R723 P/N to SM01000BZ00(Bead), and Change C647,C649,C650,C651 to Stuff	For EMI request
0.2	P19	Change R303 to Stuff, and change R542 to @	For BIOS ESATA detect function
0.2	P56	Change U32 P/N to SA00003LC00	For common part
0.2	P36	Change T1,T2 P/N to SP050006E00	For correct part
0.2	P10	R688 change to stuff , R687 ,Q7 change to @	For S3 power reduction
0.2		Change R660,R661,R862,R863,R864,R865,R868,R869 to @ , change L63,L64,L65,L66 to stuff , change R619 to Bead (SM01000DI00)	For EMI
0.2	P20	Change L75 symbol	For common part
0.2	P30	Change R402 to @	For DPST
0.3	P10	Update Q5 symbol	For update symbol
0.3	P33	Add F2	For safty request
0.3	P39	Update U30 P/N to SA00003K410 and Add R879	For Audio update to 21Z
0.3	P10	Change C128 to D2 size and @	Change size for M/E issue
0.3	P14	Add reserve R878	For Intel DG 1.5
0.3	P37	C592 change P/N to SF000001500 (H=6)	For ME Z high ok
0.3	P29	R369 P/N change to SD034100A80	For GP part
0.3	P6	Reserved R880 to SYS_PWR0K	Follow ORB
0.3	P10	R62,R63 change to 1K	Follow CRB
0.3	P33	R483,R484 change connect to +5V_HDMI_F	For Add F2
0.3	P37	Change U27 P/N to SA000046C00	For Fintek
0.3	P40	Change R594 pull high to +5VALW	For leakage issue

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	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 TRANSMITTED 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 SHALL BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number
				LA-6751P	
				Date:	Friday, November 26, 2010
				Sheet	59 of 60
				Rev	0.2

PHASE	PAGE	Modification list	PURPOSE
0.3	P19	R881 change to Dtuft, R244 change to @	For intel MRC Rev0.9
0.3	P14	R878 change to stuff	For intel DG 1.5
0.3	P31	Del R432	For non-used part
0.3	P36	Reserved D31 , C643 , C644	For reserved EMI parts
0.3	P37	Del R581	For non-used part
0.3	P38	Del R550	For non-used part
0.3	P38	Change C592 P/N to SF0000002Y00	For M/E Z high limit
0.3	P39	Del R584, R586 , R587	For non-used part
0.3	P40	Change R600, R604 to 2.2K Change R695 to 8.2k	Change R600, R604 for Battery SMBus, R695 for Board ID
0.3	P42	Del R583	For non-used part
0.3	P31	Del R449, R452, R458, R460 (UMA change only)	For non-used part
0.3	P32	Del R478, R480, R486 (UMA change only)	For non-used part
0.3	P6	Reserved R882 connect to PCH_PWROK	Reserved for intel
0.3	P56	R765 change to 300 ohm	For LED

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number LA-6752P
				Date: Friday, November 26, 2010	Rev 0.2
				Sheet 60 of 60	