

KTKAA

Los Angeles 10/10G

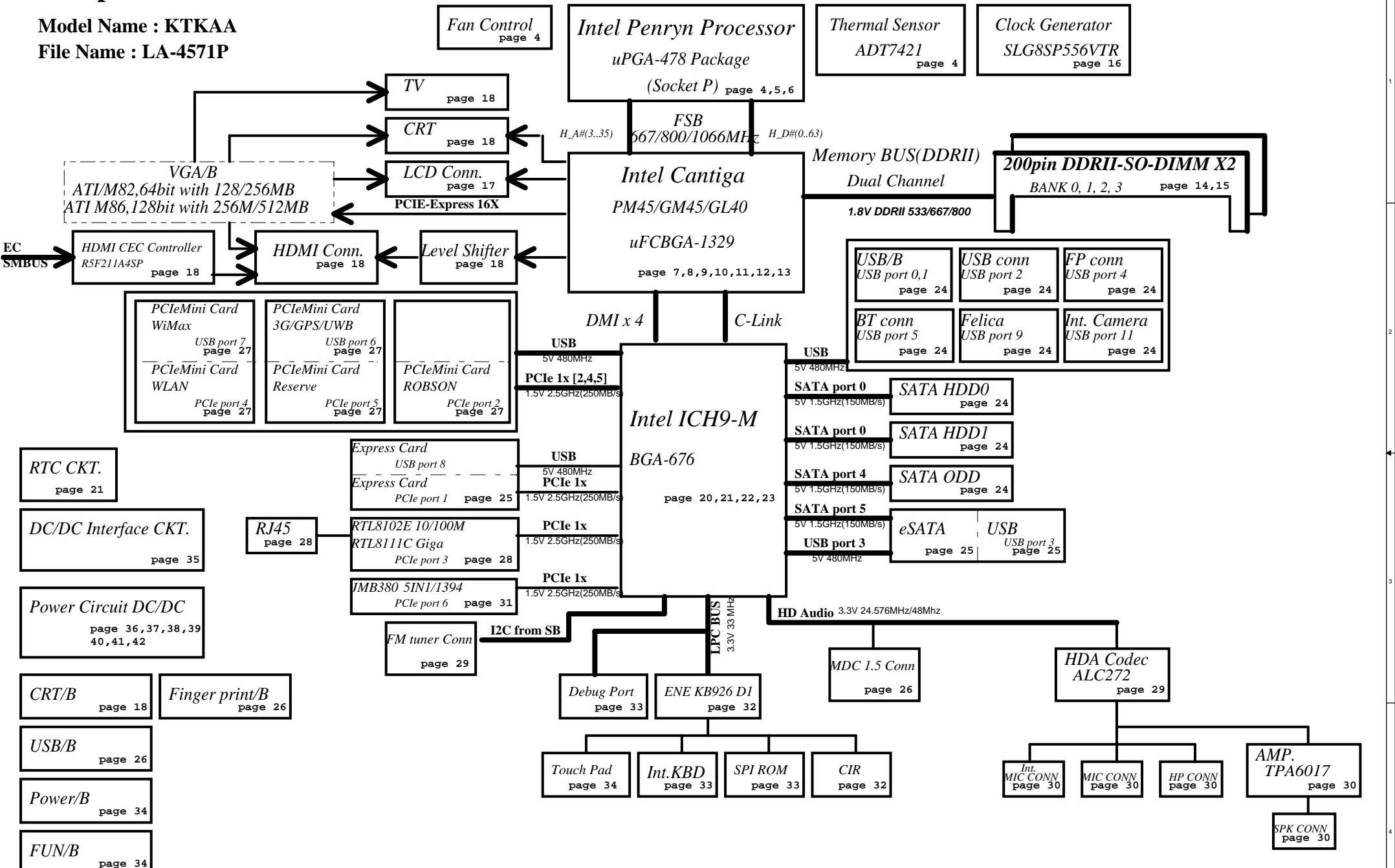
LA-4571P REV 2.0 Schematic

Intel Penryn/ Cantiga/ ICH9M
2008-09-19 Rev. 2.0

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				Date	401605	E
				Date	Wednesday, September 16, 2009	Sheet 1 of 43

Compal Confidential

Model Name : KTKAA
File Name : LA-4571P



- Fan Control page 4
- Thermal Sensor ADT7421 page 4
- Clock Generator SLG8SP556VTR page 16
- TV page 18
- CRT page 18
- LCD Conn. page 17
- VGA/B ATI/M82, 64bit with 128/256MB
ATI M86, 128bit with 256M/512MB
- HDMI CEC Controller R5F211A4SP page 18
- HDMI Conn. page 18
- Level Shifter page 18
- PCIeMini Card WiMax USB port 7 page 27
- PCIeMini Card 3G/GPS/UWB USB port 6 page 27
- PCIeMini Card WLAN PCIe port 4 page 27
- PCIeMini Card Reserve PCIe port 5 page 27
- PCIeMini Card ROBSON PCIe port 2 page 27
- RTC CKT. page 21
- DC/DC Interface CKT. page 35
- Power Circuit DC/DC page 36, 37, 38, 39, 40, 41, 42
- CRT/B page 18
- Finger print/B page 26
- USB/B page 26
- Power/B page 34
- FUN/B page 34
- LED/B page 32

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Document Number	401605		Rev	E	
Date:	Wednesday, September 16, 2009	Sheet	2	of	43

Voltage Rails

Power Plane	Description	S1	S3	S5	G3
VIN	Adapter power supply (19V)	ON	ON	ON	OFF
B+	AC or battery power rail for power circuit.	ON	ON	ON	ON
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF	OFF
+0.9VS	0.9V switched power rail for DDR terminator	ON	OFF	OFF	OFF
+1.05VS	1.05V switched power rail	ON	OFF	OFF	OFF
+1.5VS	1.5V switched power rail	ON	OFF	OFF	OFF
+1.8V	1.8V power rail for DDR	ON	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON	OFF
+3VL	3.3V always on power rail	ON	ON	ON	ON
+3V_SB	3.3V power rail for LAN	ON	ON	OFF	OFF
+3V_LAN	3.3V power rail for LAN	ON	ON	OFF	OFF
+3V_WLAN	3.3V power rail for LAN	ON	ON	OFF	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON	OFF
+5VL	5V always on power rail	ON	ON	ON	ON
+5V_SB	5V power rail for SB	ON	ON	OFF	OFF
+5VS	5V switched power rail	ON	OFF	OFF	OFF
+VSB	VSB always on power rail	ON	ON	ON	OFF
+RTCVCC	RTC power	ON	ON	ON	ON
+CPU_CORE	Core voltage for VGA chip	ON	ON	OFF	OFF
+VGA_PCIE_1.1VS	1.1V switched power rail for VGA PCIE	ON	ON	OFF	OFF
+1.8VS	1.8V power rail for VRAM	ON	ON	OFF	OFF

SIGNAL	SLP_S1#	SLP_S3#	SLP_S4#	SLP_S5#		
Full ON	HIGH	HIGH	HIGH	HIGH		
S1 (Power On Suspend)	LOW	HIGH	HIGH	HIGH		
S3 (Suspend to RAM)	LOW	LOW	HIGH	HIGH		
S4 (Suspend to Disk)	LOW	LOW	LOW	HIGH		
S5 (Soft OFF)	LOW	LOW	LOW	LOW		
G3	LOW	LOW	LOW	LOW		

BTO Option Table

Function	2nd HDD	LAN		Mini card		RJ11/FM tuner		3G SIM slot
description	(2H)	(E)	(C)	(D2)	(D3)	(R)	(M)	(G)
explain		10/100M	Giga	Two Crads	three Crads	RJ11	FM	
BTO	2HDD@	8102E@	8111C@	WLAN@	GPS@	NAND@	MDC@	FM@

Function	HDMI			TV-out	CIR	CAMERA & MIC		Finger printer
description	(Y)			(S)	(I)	(X)		(F)
explain	Intel(UMA)	ATI VGA/B		COMMON		CAMERA	MIC	
BTO	IHDMI@	NIHDMI@	HDMI@	H@	TVOUT@	CIR@	CAM@	MIC@

Function	Felica	BLUE TOOTH	
description	(J)	(B)	
explain			
BTO	FLICA@	BT@	

External PCI Devices

EC SM Bus1 address

EC SM Bus2 address

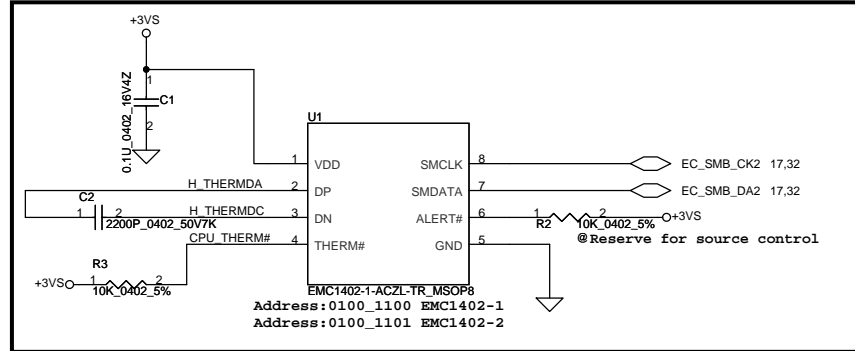
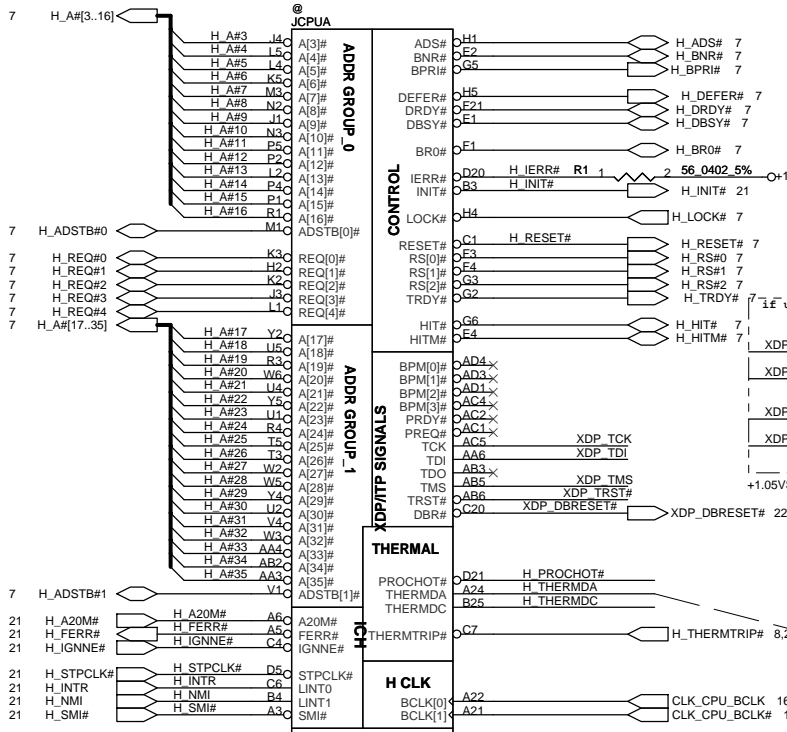
Power	Device	Address	Power	Device	Address
+5VL	EC KB926 C0		+3VS	EC KB926 C0	
+5VL	Smart Battery	0001 011X b	+3VS	CPU THM Sen	
+5VL	HDMI-CEC	0011 010x b	+3VS	SMSC SMC1402	0100 110x b
+5VL	FUN/B (CAP Sensor)		+3VS	VGA THM Sen	1001 110Xb
			+3VS	ADM1032ARMZ	
				VGA on die thermal sensor	1001 111Xb

need to confirm

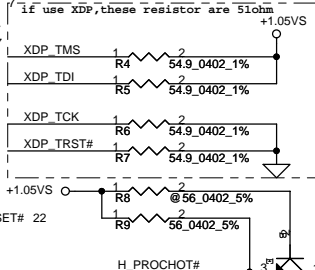
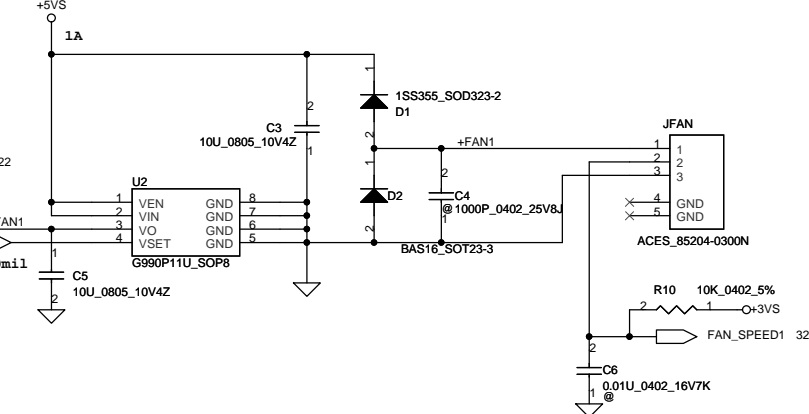
ICH9M SM Bus address

Power	Device	Address
+3V_SB	ICH9M	
+3VS	Clock Generator (SLG8SP556V)	1101 001Xb
+3VS	DDR DIMM0	1001 000Xb
+3VS	DDR DIMM1	1001 010Xb
+3VS	Express	
+3VS	FM Module	

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number
				401605
				Rev E
				Date: Wednesday, September 16, 2009
				Sheet 3 of 43



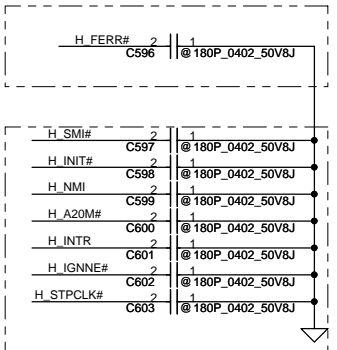
FAN Control Circuit



PROCHOT# PU: 680hm near CPU and MVP6.
560hm near CPU if no used.

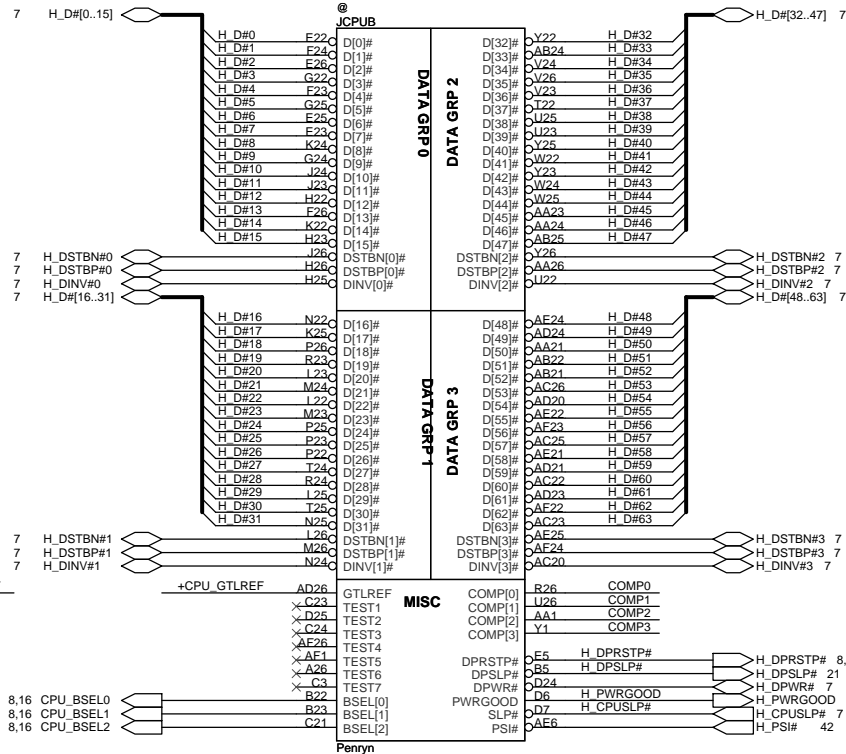
**H_THERMDA, H_THERMDC routing together,
Trace width / Spacing = 10 / 10 mil**

Reserve for debug close to South Bridge

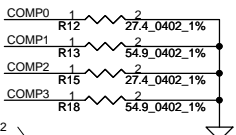


Reserve for debug close to CPU

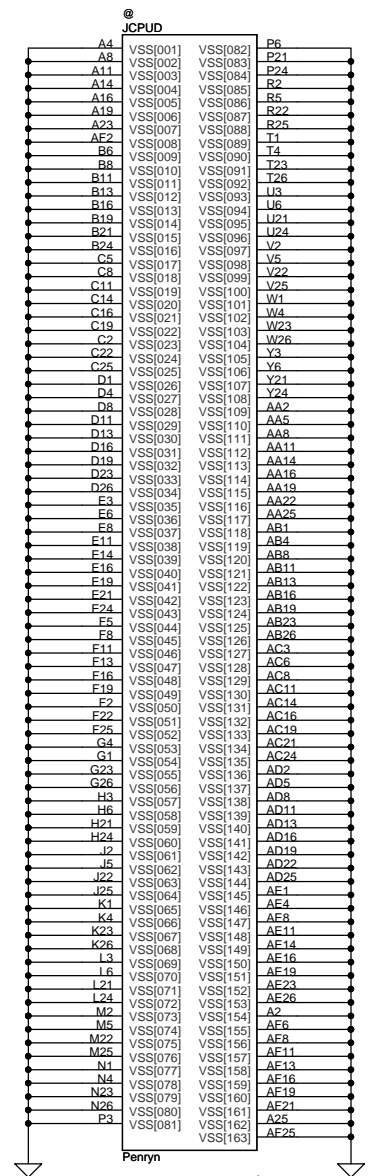
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				401605	E
Date: Wednesday, September 16, 2009				Sheet	4 of 43



Resistor placed within 0.5" of CPU pin. Trace should be at least 25 mils away from any other toggling signal. COMP[0,2] trace width is 18 mils. COMP[1,3] trace width is 4 mils.

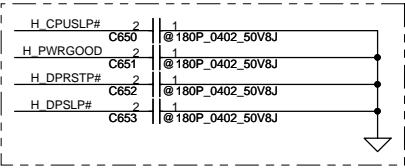


layout note: Please use "Daisy Chain" to layout and the signal (H DPRSTP#) is routed from ICH9 to power IC, then to NB and CPU

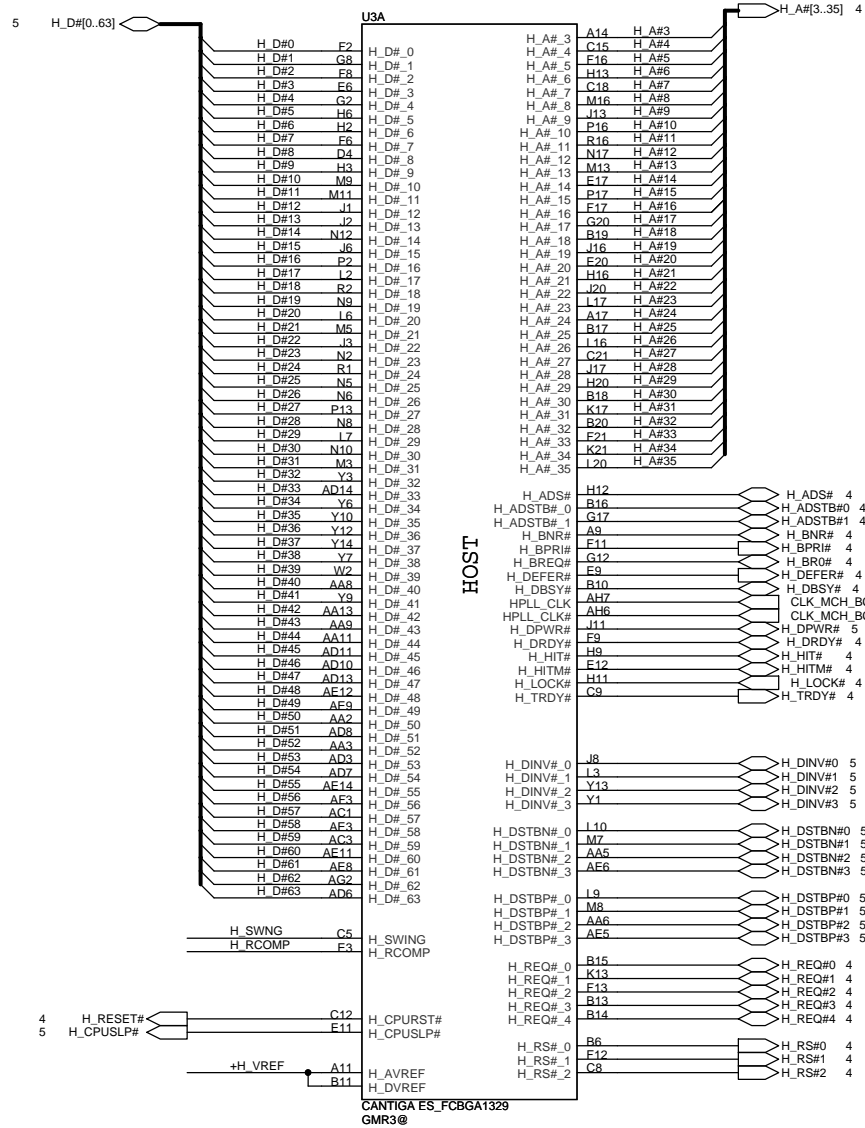
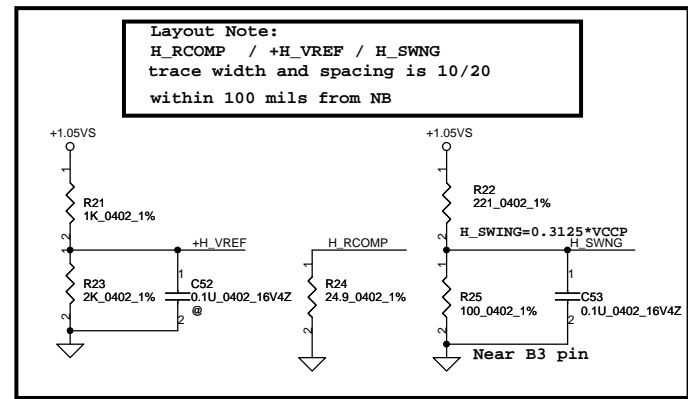


layout note: Route TEST3 & TEST5 traces on ground referenced layer to the TPs

CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
166	0	1	1
200	0	1	0
266	0	0	0



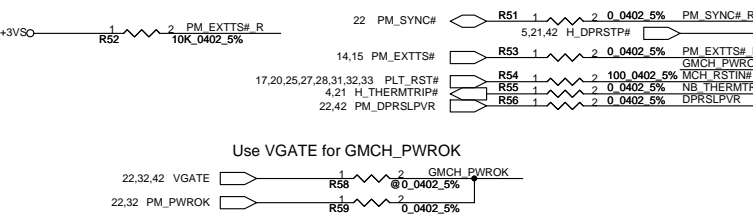
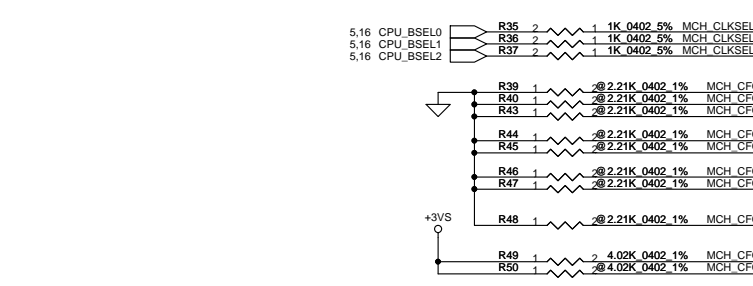
Reserve for debug close to CPU



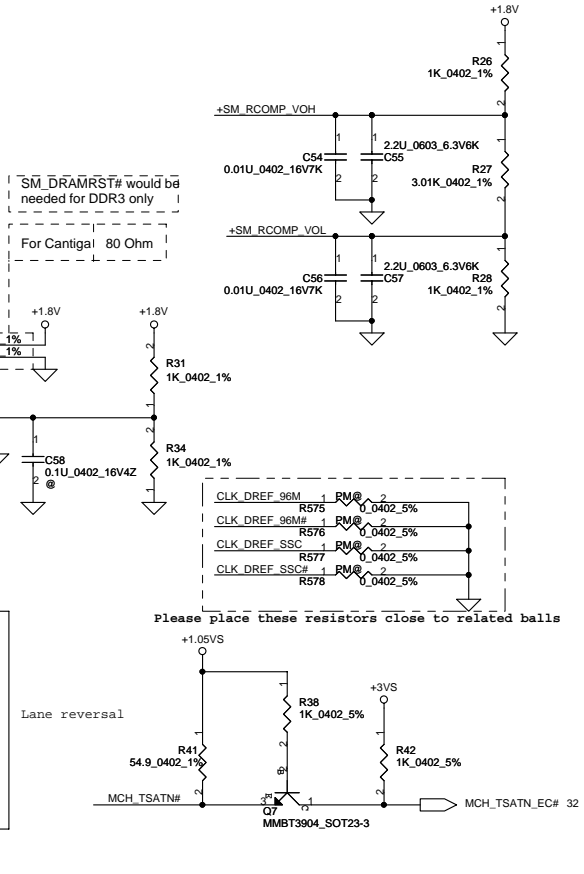
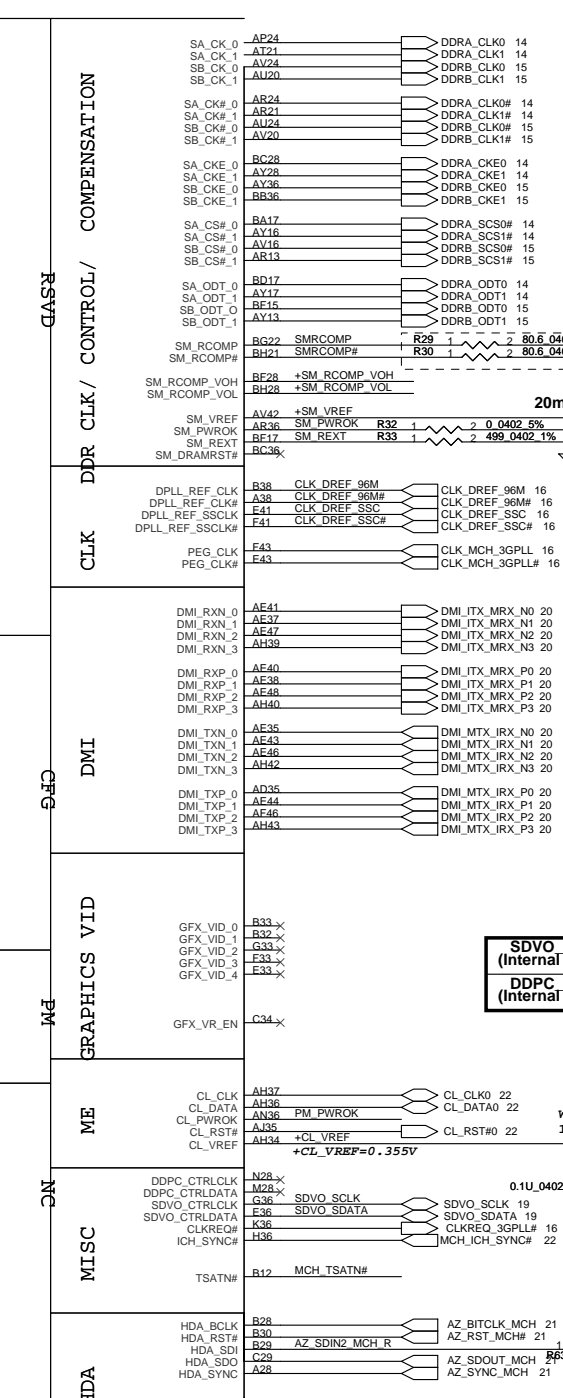
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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		E	
	401605				
Date:	Wednesday, September 16, 2009	Sheet	7	of	43

Strap Pin Table

CFG[2:0]	011 = FSB667 010 = FSB800 000 = FSB1067
CFG5 Internal pull-up	0 = DMI x 2 1 = DMI x 4 *(Default)
CFG6 Internal pull-up	0 = iTPM Host Interface is enabled can support disable by SW. 1 = iTPM Host Interface is Disabled *(Default)
CFG7 Internal pull-up	0 = Intel Management Engine Crypto Transport Layer Security (TLS) cipher suite with no confidentiality 1 = Intel Management Engine Crypto TLS cipher suite with confidentiality *(Default)
CFG9 Internal pull-up	0 = Lane Reversal Enable 1 = Normal Operation *(Default)
CFG10 Internal pull-up	0 = PCIe Loopback Enable 1 = Disable*(Default)
CFG[13:12] Internal pull-up	01 = All Z Mode Enabled 00 = Reserved 10 = XOR Mode Enabled 11 = Normal Operation*(Default)
CFG16 Internal pull-up	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled *(Default)
CFG19 Internal pull-down	0 = Normal Operation 1 = DMI Lane Reversal Enable *(Default)
CFG20 Internal pull-down (PCIe/SDVO select)	0 = Only PCIe or [SDVO/DP/HDMI] is operational. *(Default) 1 = PCIe/[SDVO/DP/HDMI] are operating simu.

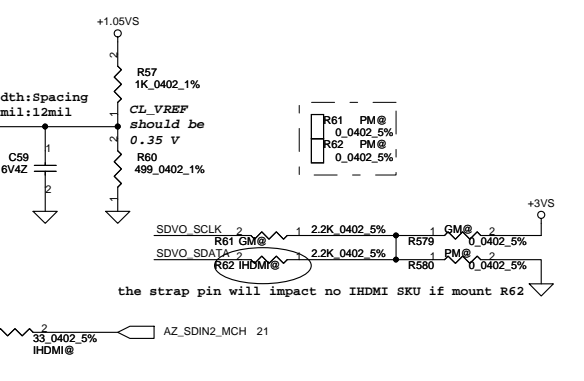


- USB: M36, M38, R33, X33, AH9, AH10, AH12, AH13, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100
- RSTVD: B31, B32, M1
- RSVD20: AY21
- RSVD22-25: BG23, BF23, BH18, BF18
- CFG: CF0-20
- DMI: DM1_RXN_0-3, DM1_RXP_0-3, DM1_TXN_0-3, DM1_TXP_0-3
- GRAPHICS VID: GFX_VID_0-4
- PM: PM_SYNC#, PM_DPRSTP#, PM_EXT_TSS_0-1, PWROK, RSTIN#, THERMTRIP#, DPRSLPVR
- ME: NC.1-10
- MISC: DDPC_CTRLCLK, DDPC_CTRLDATA, SDVO_CTRLCLK, SDVO_CTRLDATA, CLKREQ#, ICH_SYNC#, TSATN#
- HDA: HDA_BCLK, HDA_RST#, HDA_SDI, HDA_SDO, HDA_SYNC



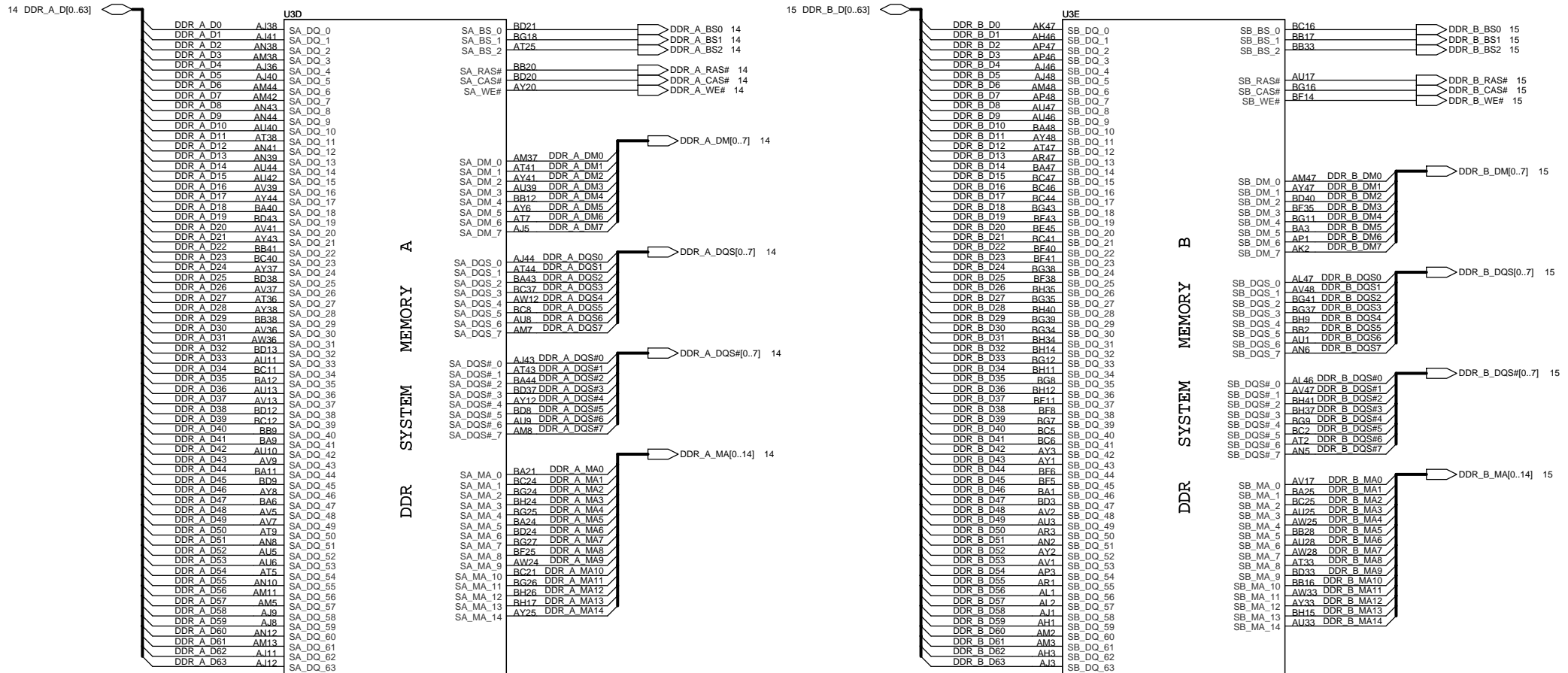
Strap Pin Table

SDVO_CTRLDATA (Internal pull-down)	0 = SDVO interface disabled *(Default) 1 = SDVO interface enabled
DDPC_CTRLDATA (Internal pull-down)	0 = Digital display (iHDMI/DP) interface disabled 1 = Digital display (iHDMI/DP) interface enable*(Default)



CANTIGA ES_FCBGA1329
GMR3@

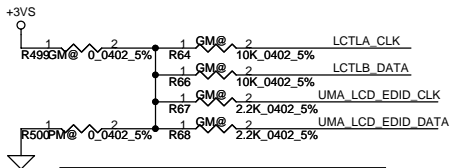
Security Classification	Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RELIABLE DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number
				401605
				Rev E
				Date: Wednesday, September 16, 2009 Sheet 8 of 43



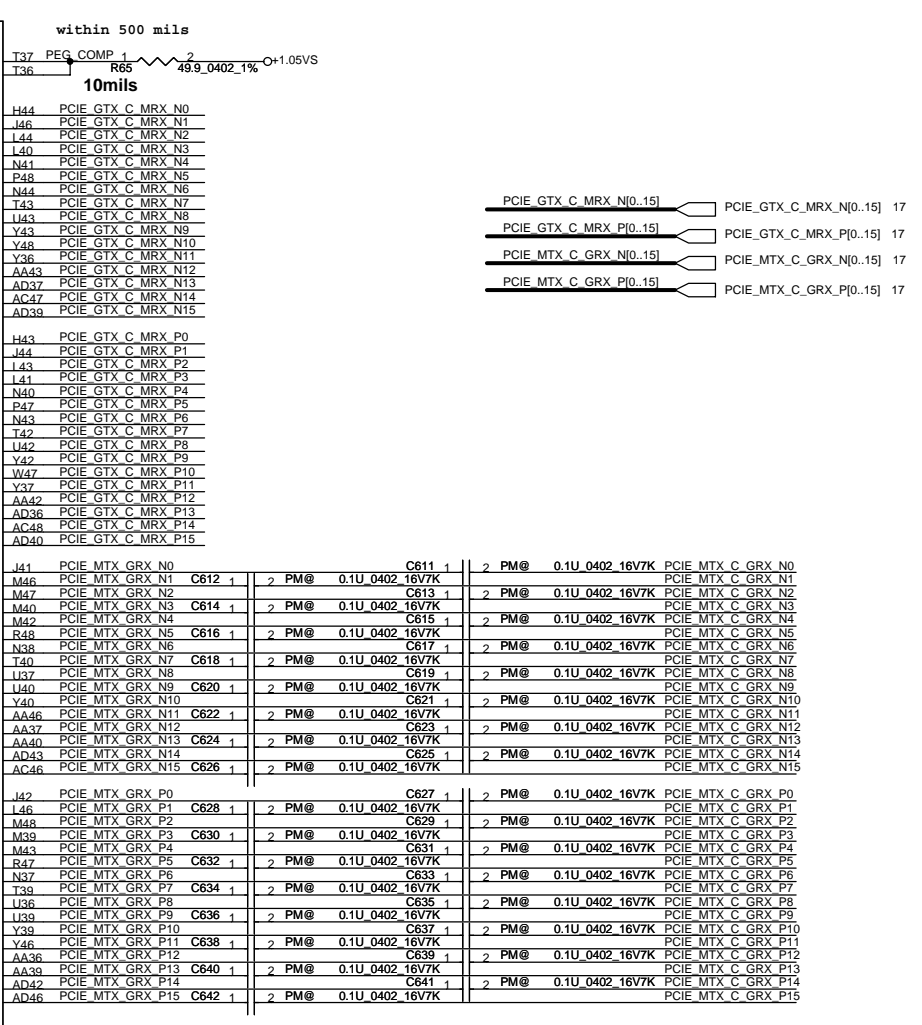
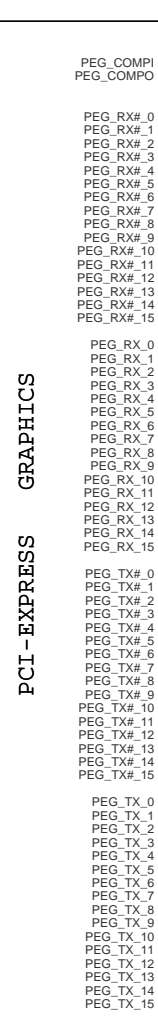
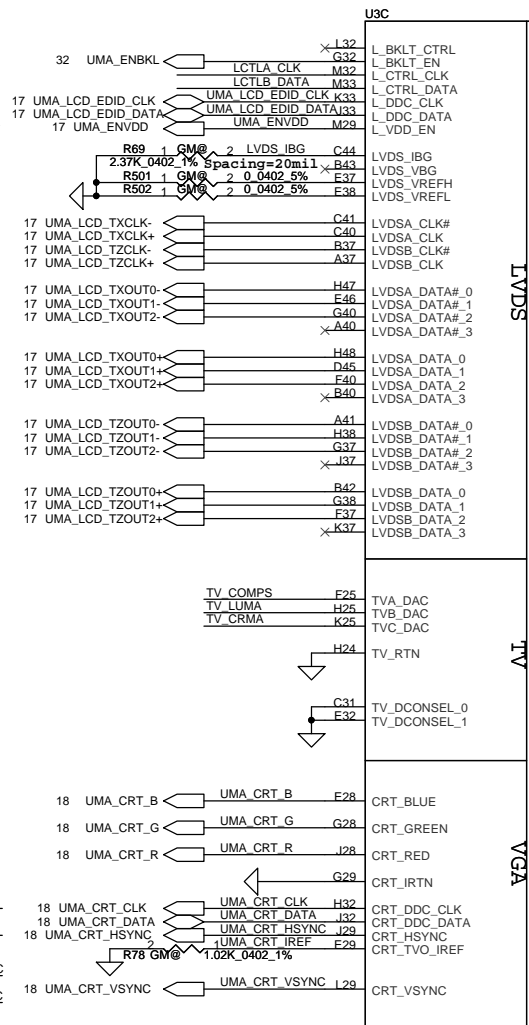
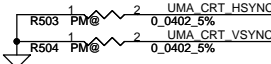
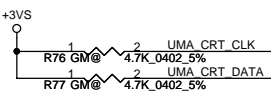
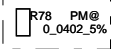
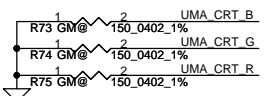
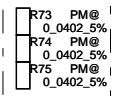
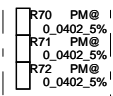
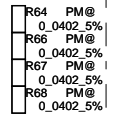
CANTIGA ES_FCBGA1329
GMR3@

CANTIGA ES_FCBGA1329
GMR3@

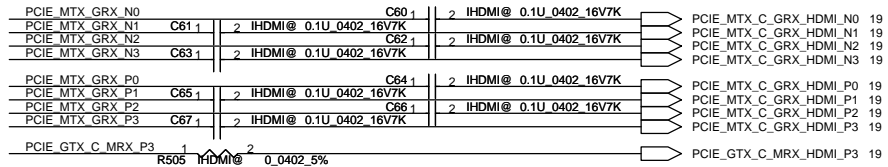
Security Classification		Compal Secret Data		Title	
Issued Date		Deciphered Date		2008/09/19	
2008/09/19		2009/09/19		Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Document Number		Rev E	
		401605			
Date:		Wednesday, September 16, 2009		Sheet 9 of 43	



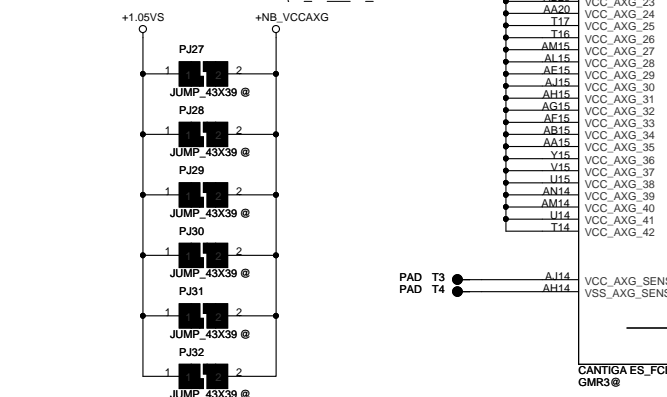
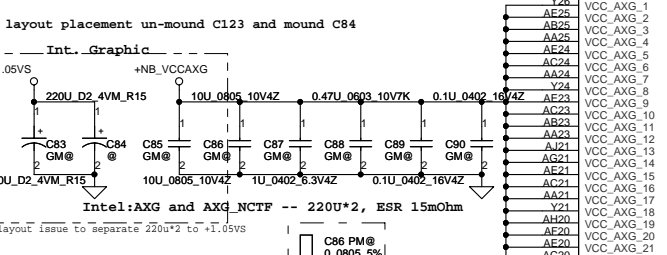
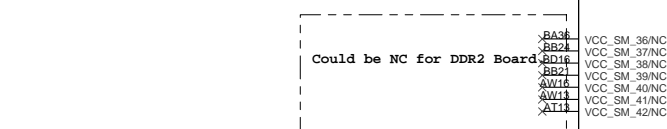
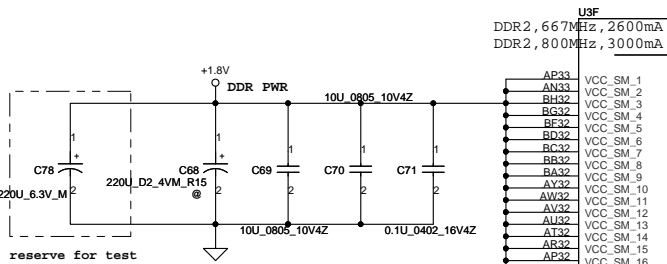
L_DDC_DATA
 0 = LFP Disable *(Default)
 1 = LFP Card Present; PCIe disable



CANTIGA ES_FCBGA1329
GMR3@



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				401605	Rev E
Date:	Wednesday, September 16, 2009	Sheet	10	of	43



CANTIGA ES_FCBGA1329 GMR3@

- VCC_SM_1
- VCC_SM_2
- VCC_SM_3
- VCC_SM_4
- VCC_SM_5
- VCC_SM_6
- VCC_SM_7
- VCC_SM_8
- VCC_SM_9
- VCC_SM_10
- VCC_SM_11
- VCC_SM_12
- VCC_SM_13
- VCC_SM_14
- VCC_SM_15
- VCC_SM_16
- VCC_SM_17
- VCC_SM_18
- VCC_SM_19
- VCC_SM_20
- VCC_SM_21
- VCC_SM_22
- VCC_SM_23
- VCC_SM_24
- VCC_SM_25
- VCC_SM_26
- VCC_SM_27
- VCC_SM_28
- VCC_SM_29
- VCC_SM_30
- VCC_SM_31
- VCC_SM_32
- VCC_SM_33
- VCC_SM_34
- VCC_SM_35
- VCC_SM_36/NC
- VCC_SM_37/NC
- VCC_SM_38/NC
- VCC_SM_39/NC
- VCC_SM_40/NC
- VCC_SM_41/NC
- VCC_SM_42/NC
- VCC_AGX_1
- VCC_AGX_2
- VCC_AGX_3
- VCC_AGX_4
- VCC_AGX_5
- VCC_AGX_6
- VCC_AGX_7
- VCC_AGX_8
- VCC_AGX_9
- VCC_AGX_10
- VCC_AGX_11
- VCC_AGX_12
- VCC_AGX_13
- VCC_AGX_14
- VCC_AGX_15
- VCC_AGX_16
- VCC_AGX_17
- VCC_AGX_18
- VCC_AGX_19
- VCC_AGX_20
- VCC_AGX_21
- VCC_AGX_22
- VCC_AGX_23
- VCC_AGX_24
- VCC_AGX_25
- VCC_AGX_26
- VCC_AGX_27
- VCC_AGX_28
- VCC_AGX_29
- VCC_AGX_30
- VCC_AGX_31
- VCC_AGX_32
- VCC_AGX_33
- VCC_AGX_34
- VCC_AGX_35
- VCC_AGX_36
- VCC_AGX_37
- VCC_AGX_38
- VCC_AGX_39
- VCC_AGX_40
- VCC_AGX_41
- VCC_AGX_42
- VCC_SM_LF1
- VCC_SM_LF2
- VCC_SM_LF3
- VCC_SM_LF4
- VCC_SM_LF5
- VCC_SM_LF6
- VCC_SM_LF7

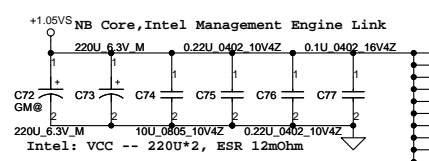
- VCC_AGX_NCTF_1
- VCC_AGX_NCTF_2
- VCC_AGX_NCTF_3
- VCC_AGX_NCTF_4
- VCC_AGX_NCTF_5
- VCC_AGX_NCTF_6
- VCC_AGX_NCTF_7
- VCC_AGX_NCTF_8
- VCC_AGX_NCTF_9
- VCC_AGX_NCTF_10
- VCC_AGX_NCTF_11
- VCC_AGX_NCTF_12
- VCC_AGX_NCTF_13
- VCC_AGX_NCTF_14
- VCC_AGX_NCTF_15
- VCC_AGX_NCTF_16
- VCC_AGX_NCTF_17
- VCC_AGX_NCTF_18
- VCC_AGX_NCTF_19
- VCC_AGX_NCTF_20
- VCC_AGX_NCTF_21
- VCC_AGX_NCTF_22
- VCC_AGX_NCTF_23
- VCC_AGX_NCTF_24
- VCC_AGX_NCTF_25
- VCC_AGX_NCTF_26
- VCC_AGX_NCTF_27
- VCC_AGX_NCTF_28
- VCC_AGX_NCTF_29
- VCC_AGX_NCTF_30
- VCC_AGX_NCTF_31
- VCC_AGX_NCTF_32
- VCC_AGX_NCTF_33
- VCC_AGX_NCTF_34
- VCC_AGX_NCTF_35
- VCC_AGX_NCTF_36
- VCC_AGX_NCTF_37
- VCC_AGX_NCTF_38
- VCC_AGX_NCTF_39
- VCC_AGX_NCTF_40
- VCC_AGX_NCTF_41
- VCC_AGX_NCTF_42
- VCC_AGX_NCTF_43
- VCC_AGX_NCTF_44
- VCC_AGX_NCTF_45
- VCC_AGX_NCTF_46
- VCC_AGX_NCTF_47
- VCC_AGX_NCTF_48
- VCC_AGX_NCTF_49
- VCC_AGX_NCTF_50
- VCC_AGX_NCTF_51
- VCC_AGX_NCTF_52
- VCC_AGX_NCTF_53
- VCC_AGX_NCTF_54
- VCC_AGX_NCTF_55
- VCC_AGX_NCTF_56
- VCC_AGX_NCTF_57
- VCC_AGX_NCTF_58
- VCC_AGX_NCTF_59
- VCC_AGX_NCTF_60

- VCC_AGX_1
- VCC_AGX_2
- VCC_AGX_3
- VCC_AGX_4
- VCC_AGX_5
- VCC_AGX_6
- VCC_AGX_7
- VCC_AGX_8
- VCC_AGX_9
- VCC_AGX_10
- VCC_AGX_11
- VCC_AGX_12
- VCC_AGX_13
- VCC_AGX_14
- VCC_AGX_15
- VCC_AGX_16
- VCC_AGX_17
- VCC_AGX_18
- VCC_AGX_19
- VCC_AGX_20
- VCC_AGX_21
- VCC_AGX_22
- VCC_AGX_23
- VCC_AGX_24
- VCC_AGX_25
- VCC_AGX_26
- VCC_AGX_27
- VCC_AGX_28
- VCC_AGX_29
- VCC_AGX_30
- VCC_AGX_31
- VCC_AGX_32
- VCC_AGX_33
- VCC_AGX_34
- VCC_AGX_35
- VCC_AGX_36
- VCC_AGX_37
- VCC_AGX_38
- VCC_AGX_39
- VCC_AGX_40
- VCC_AGX_41
- VCC_AGX_42
- VCC_AGX_SENSE
- VSS_AGX_SENSE



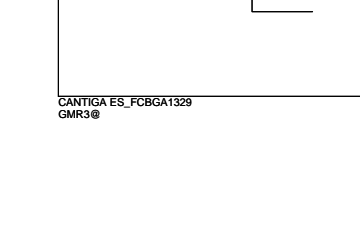
Security Classification	Compal Secret Data		Document Number
Issued Date	2008/09/19	Deciphered Date	2009/09/19
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY 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.			

Extnal Graphic: 1210.34mA
Integrated Graphic: 1930.4mA
Intel Management Engine Link:508.12mA



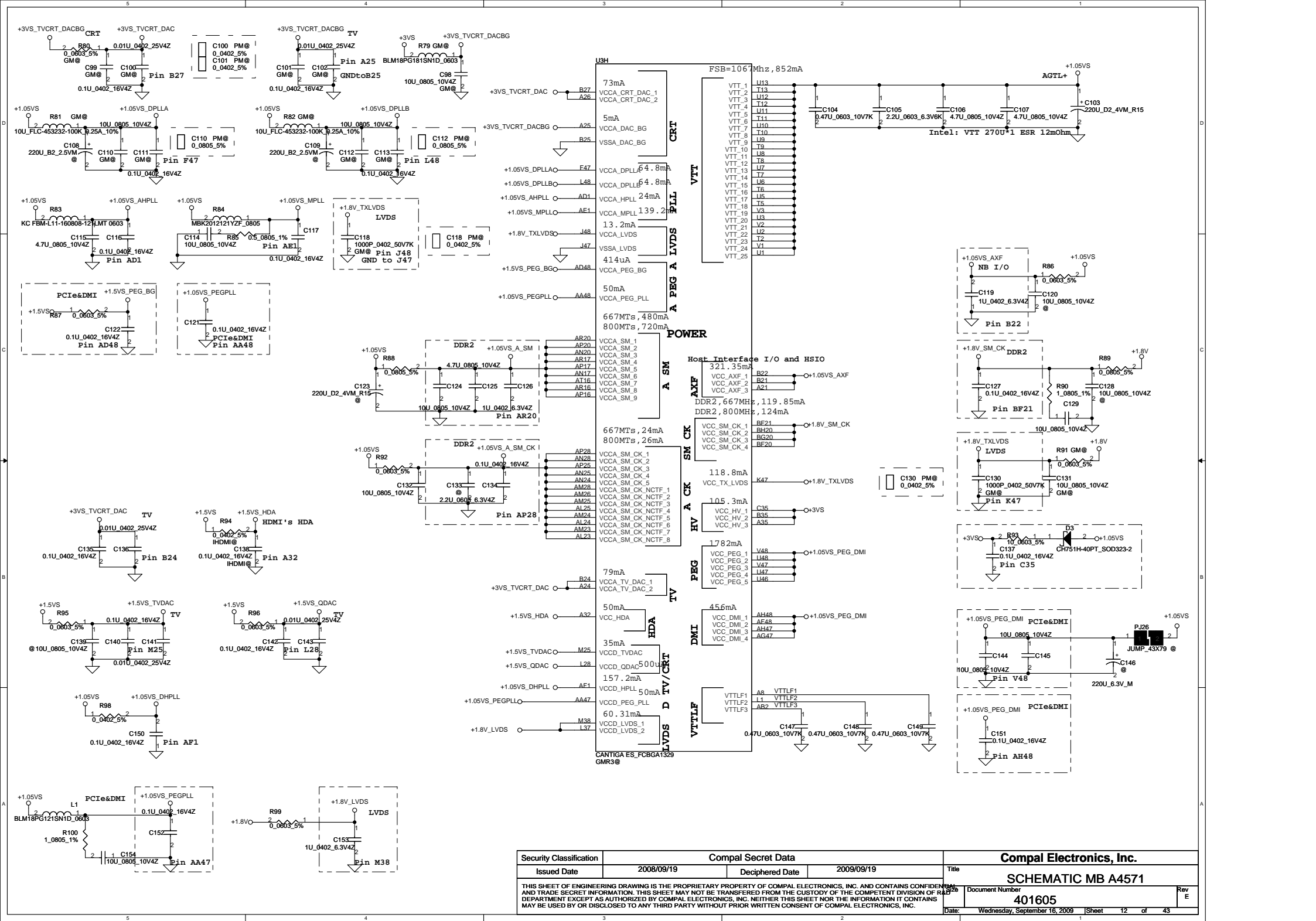
- VCC_1
- VCC_2
- VCC_3
- VCC_4
- VCC_5
- VCC_6
- VCC_7
- VCC_8
- VCC_9
- VCC_10
- VCC_11
- VCC_12
- VCC_13
- VCC_14
- VCC_15
- VCC_16
- VCC_17
- VCC_18
- VCC_19
- VCC_20
- VCC_21
- VCC_22
- VCC_23
- VCC_24
- VCC_25
- VCC_26
- VCC_27
- VCC_28
- VCC_29
- VCC_30
- VCC_31
- VCC_32
- VCC_33
- VCC_34
- VCC_35

- VCC_NCTF_1
- VCC_NCTF_2
- VCC_NCTF_3
- VCC_NCTF_4
- VCC_NCTF_5
- VCC_NCTF_6
- VCC_NCTF_7
- VCC_NCTF_8
- VCC_NCTF_9
- VCC_NCTF_10
- VCC_NCTF_11
- VCC_NCTF_12
- VCC_NCTF_13
- VCC_NCTF_14
- VCC_NCTF_15
- VCC_NCTF_16
- VCC_NCTF_17
- VCC_NCTF_18
- VCC_NCTF_19
- VCC_NCTF_20
- VCC_NCTF_21
- VCC_NCTF_22
- VCC_NCTF_23
- VCC_NCTF_24
- VCC_NCTF_25
- VCC_NCTF_26
- VCC_NCTF_27
- VCC_NCTF_28
- VCC_NCTF_29
- VCC_NCTF_30
- VCC_NCTF_31
- VCC_NCTF_32
- VCC_NCTF_33
- VCC_NCTF_34
- VCC_NCTF_35
- VCC_NCTF_36
- VCC_NCTF_37
- VCC_NCTF_38
- VCC_NCTF_39
- VCC_NCTF_40
- VCC_NCTF_41
- VCC_NCTF_42
- VCC_NCTF_43
- VCC_NCTF_44



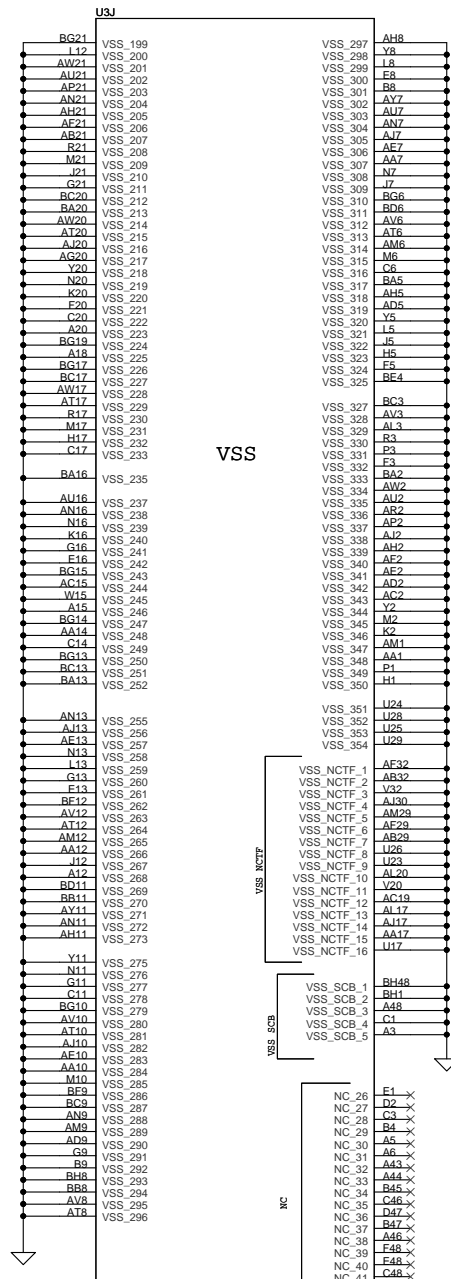
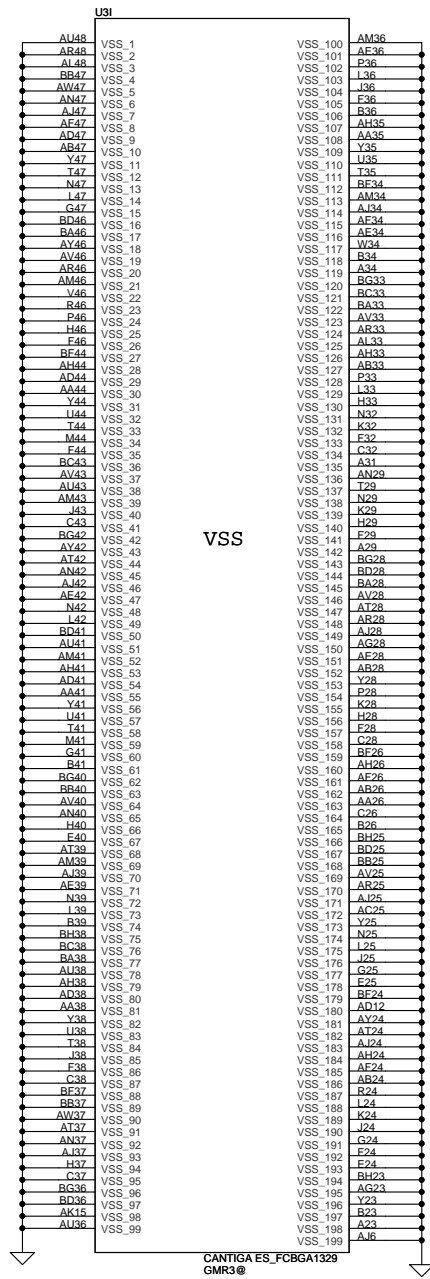
CANTIGA ES_FCBGA1329 GMR3@

Compal Electronics, Inc.			
Title		SCHEMATIC MB A4571	
Date:	Wednesday, September 16, 2009	Sheet	11 of 43

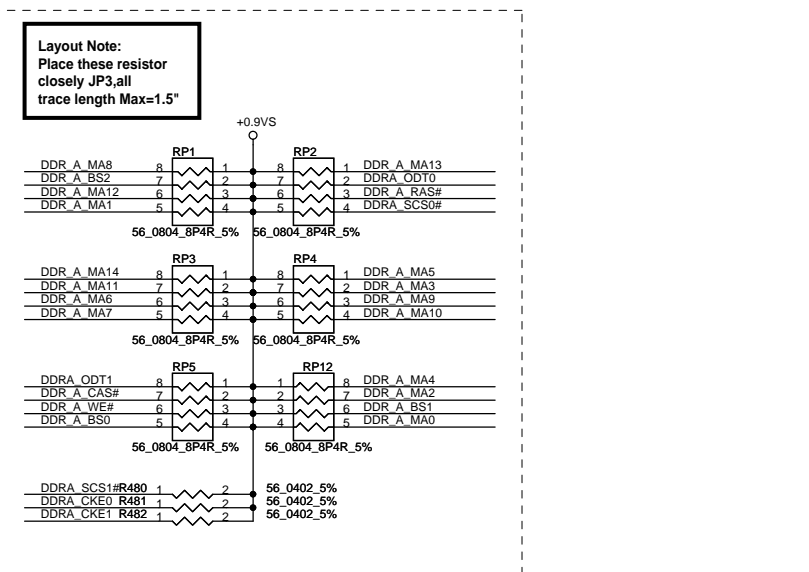
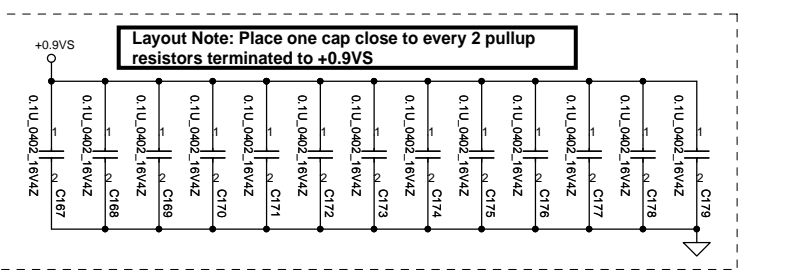
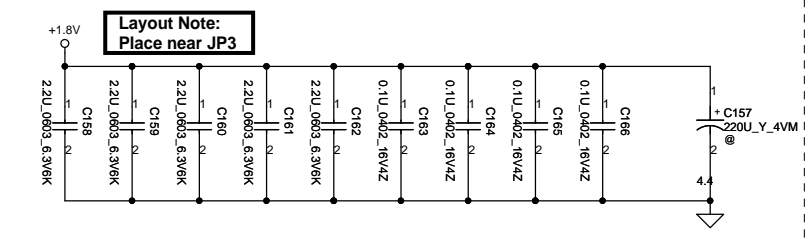
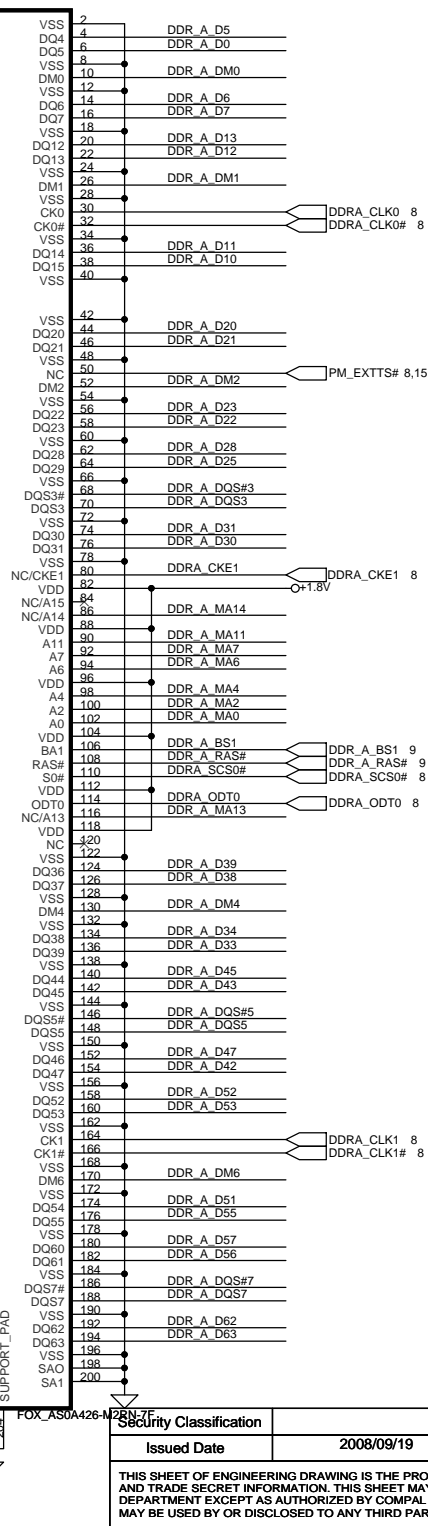
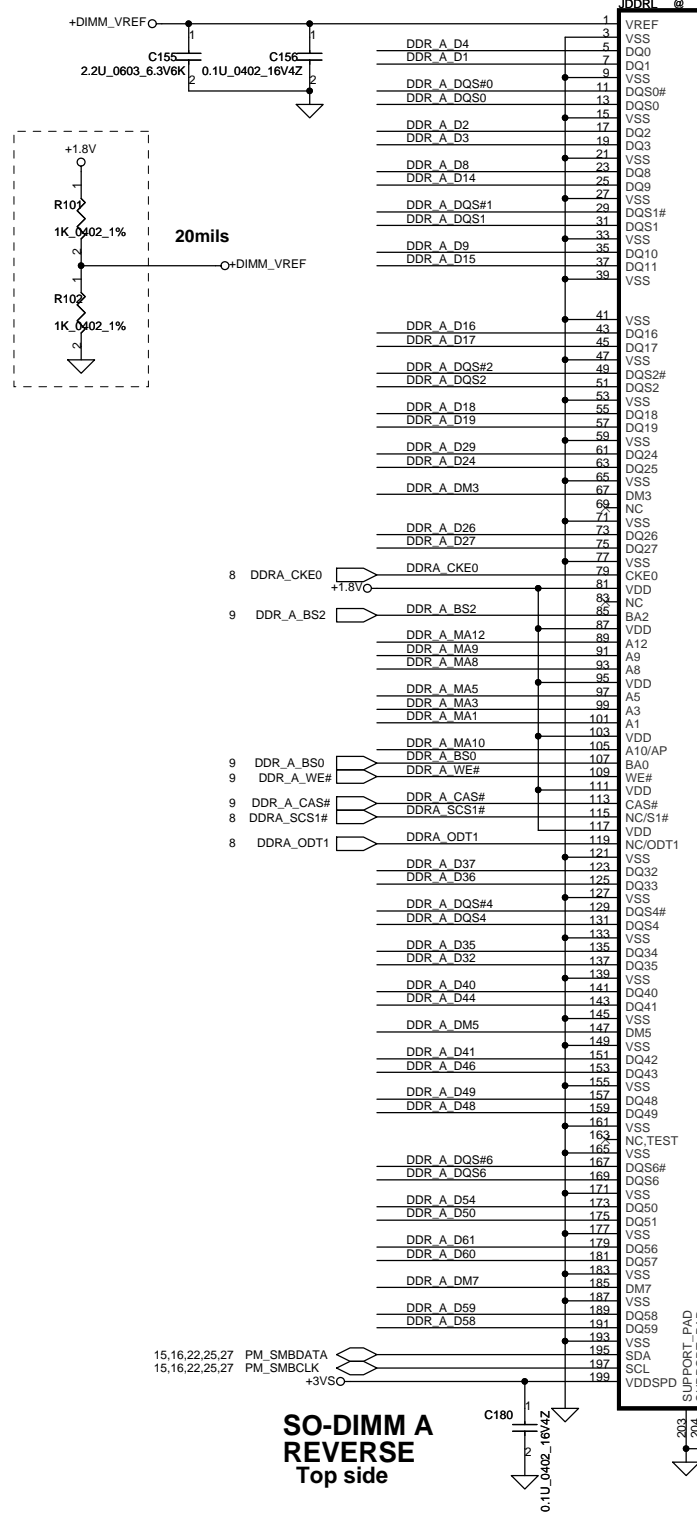


Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev E
				401605	
Date:	Wednesday, September 16, 2009	Sheet	12	of	43

SCHEMATIC MB A4571

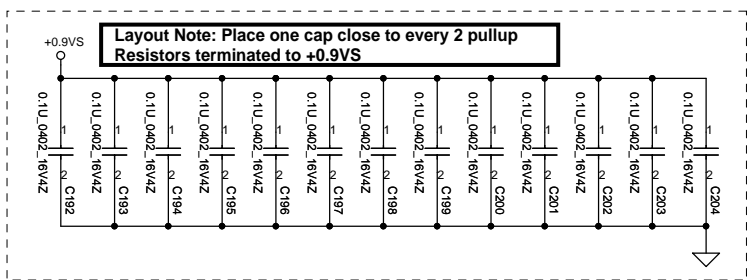
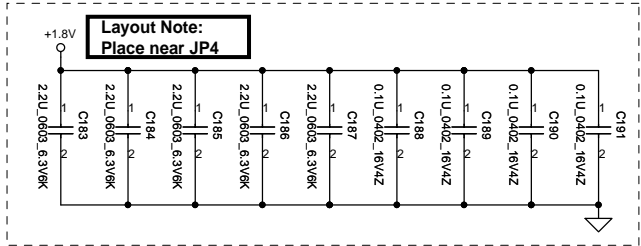
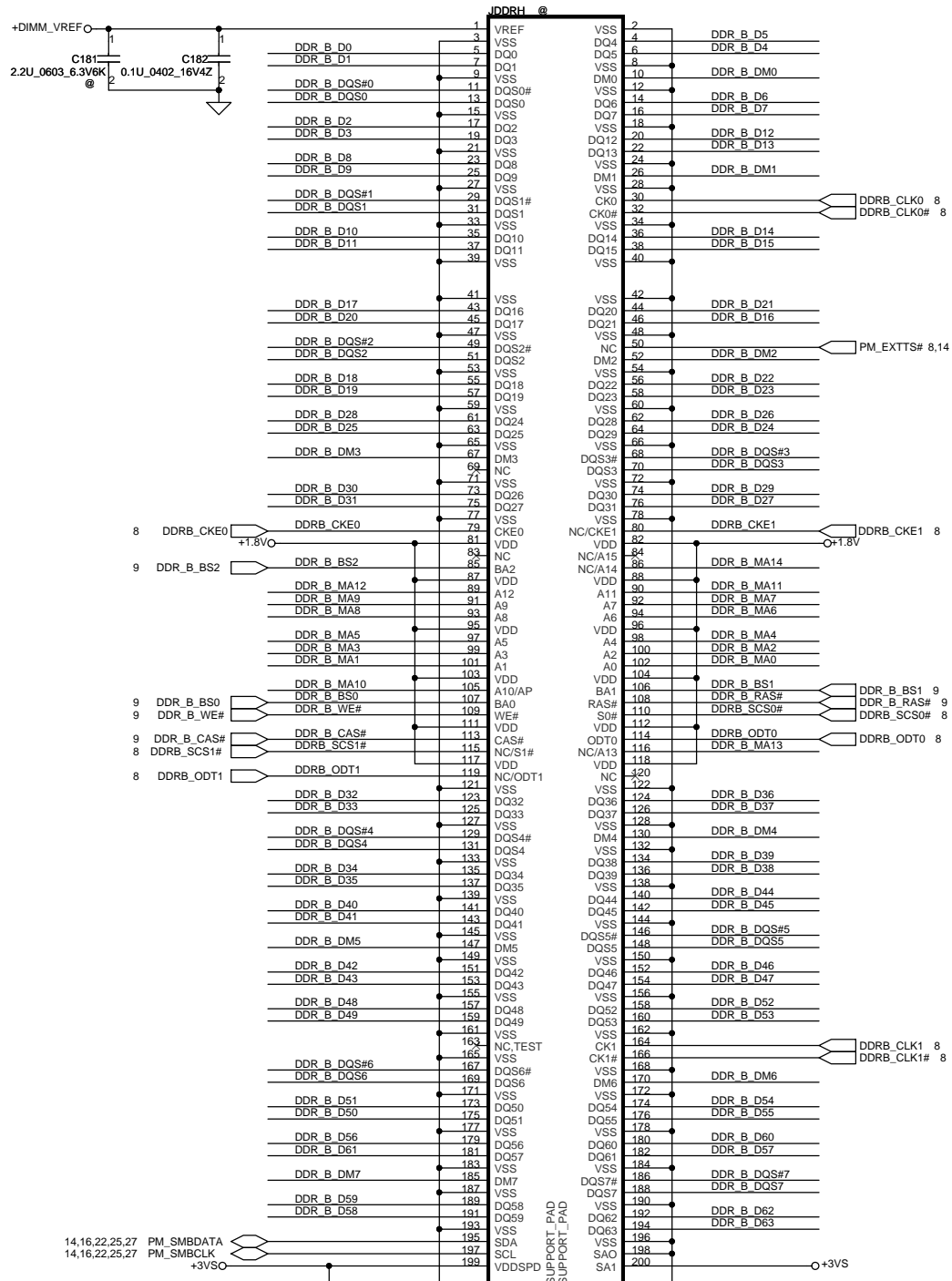


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED, COPIED, 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 CONSENT OF THE COMPETENT DIVISION 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.				Document Number	Rev E
				401605	
				Wednesday, September 16, 2009	Sheet 13 of 43

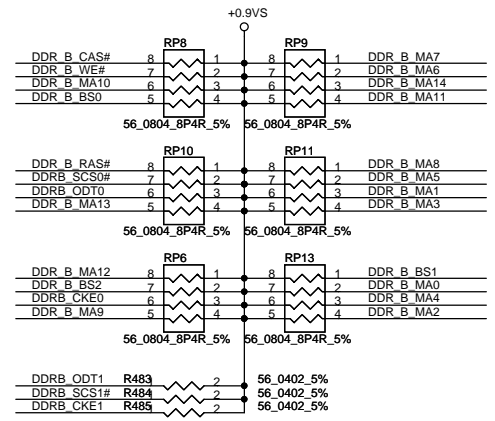


SO-DIMM A REVERSE Top side

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev E
				401605	
				Date: Wednesday, September 16, 2009	Sheet 14 of 43



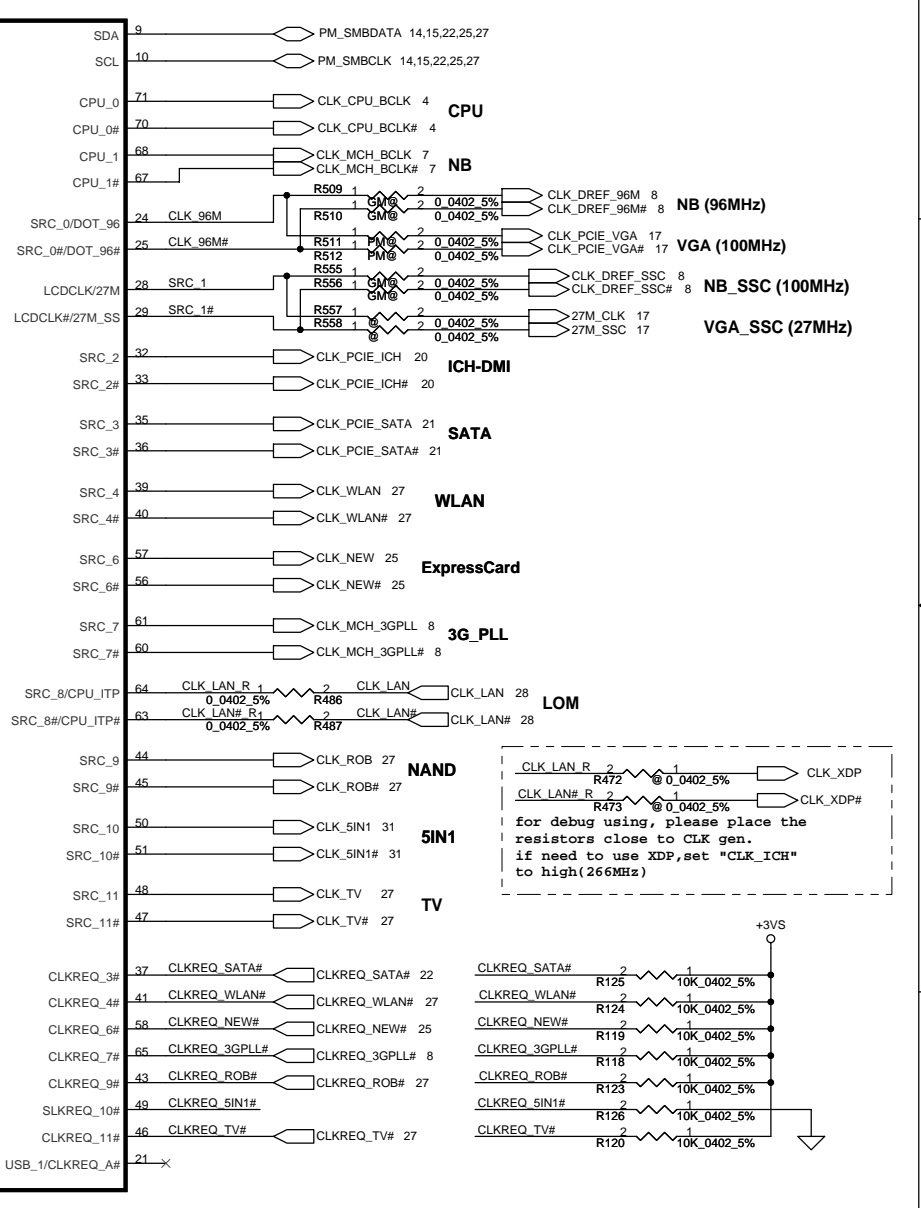
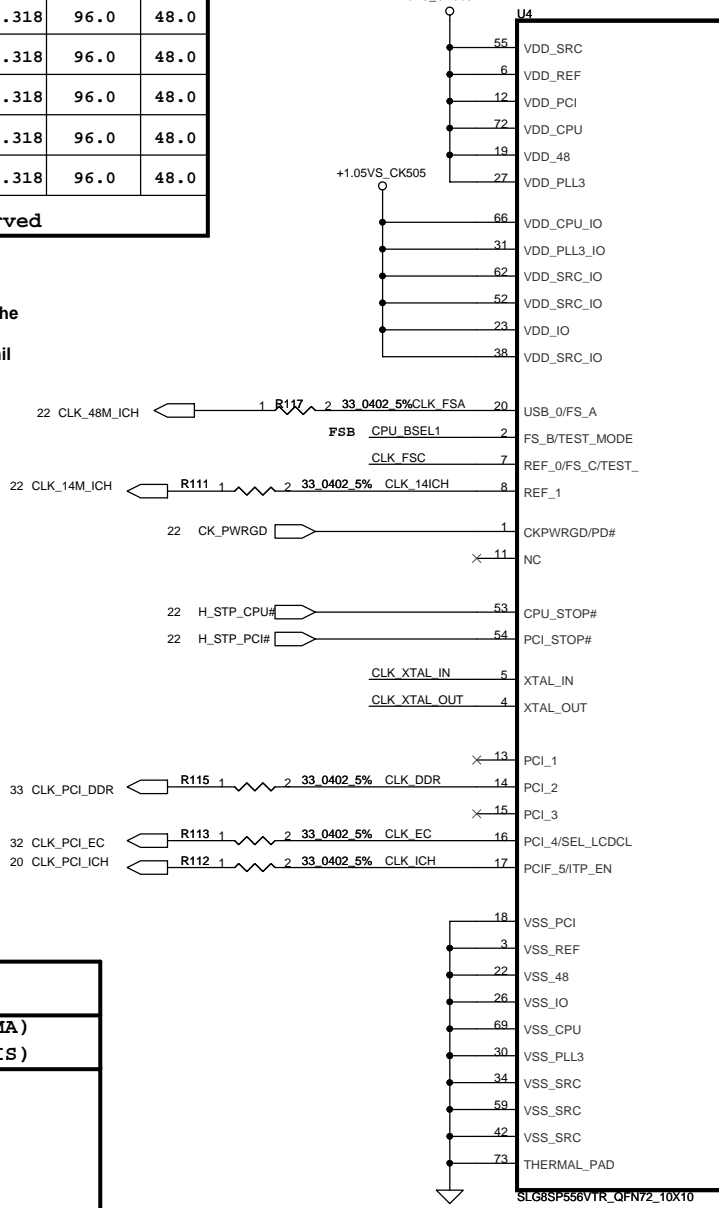
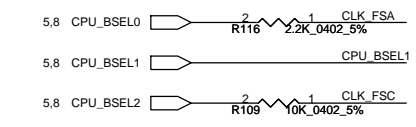
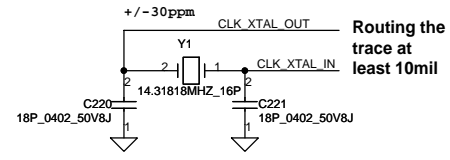
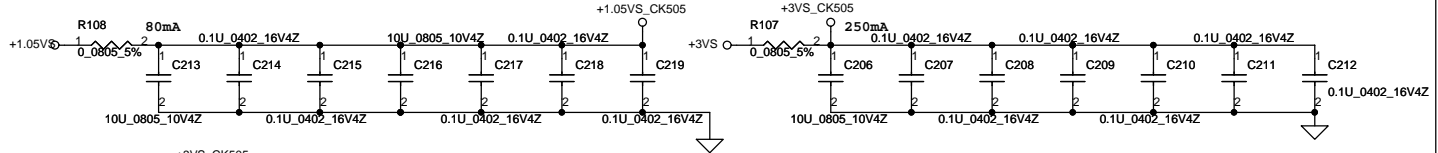
Layout Note:
Place these resistor closely JP4, all trace length Max=1.5"



SO-DIMM B STANDARD
Bottom side

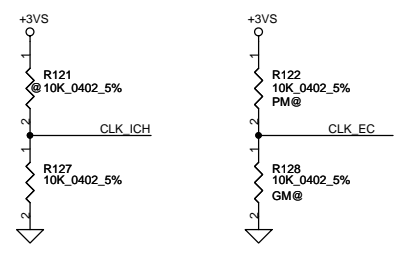
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	401605		Rev	E
Date	Wednesday, September 16, 2009	Sheet	15	of	43

FSC	FSB	FSA	CPU	SRC	PCI	REF	DOT_96	USB	
CLKSEL2	CLKSEL1	CLKSEL0	MHZ	MHZ	MHZ	MHZ	MHZ	MHZ	
0	0	0	266	100	33.3	14.318	96.0	48.0	
0	0	1	133	100	33.3	14.318	96.0	48.0	
0	1	0	200	100	33.3	14.318	96.0	48.0	
0	1	1	166	100	33.3	14.318	96.0	48.0	
1	0	0	333	100	33.3	14.318	96.0	48.0	
1	0	1	100	100	33.3	14.318	96.0	48.0	
1	1	0	400	100	33.3	14.318	96.0	48.0	
1	1	1	Reserved						

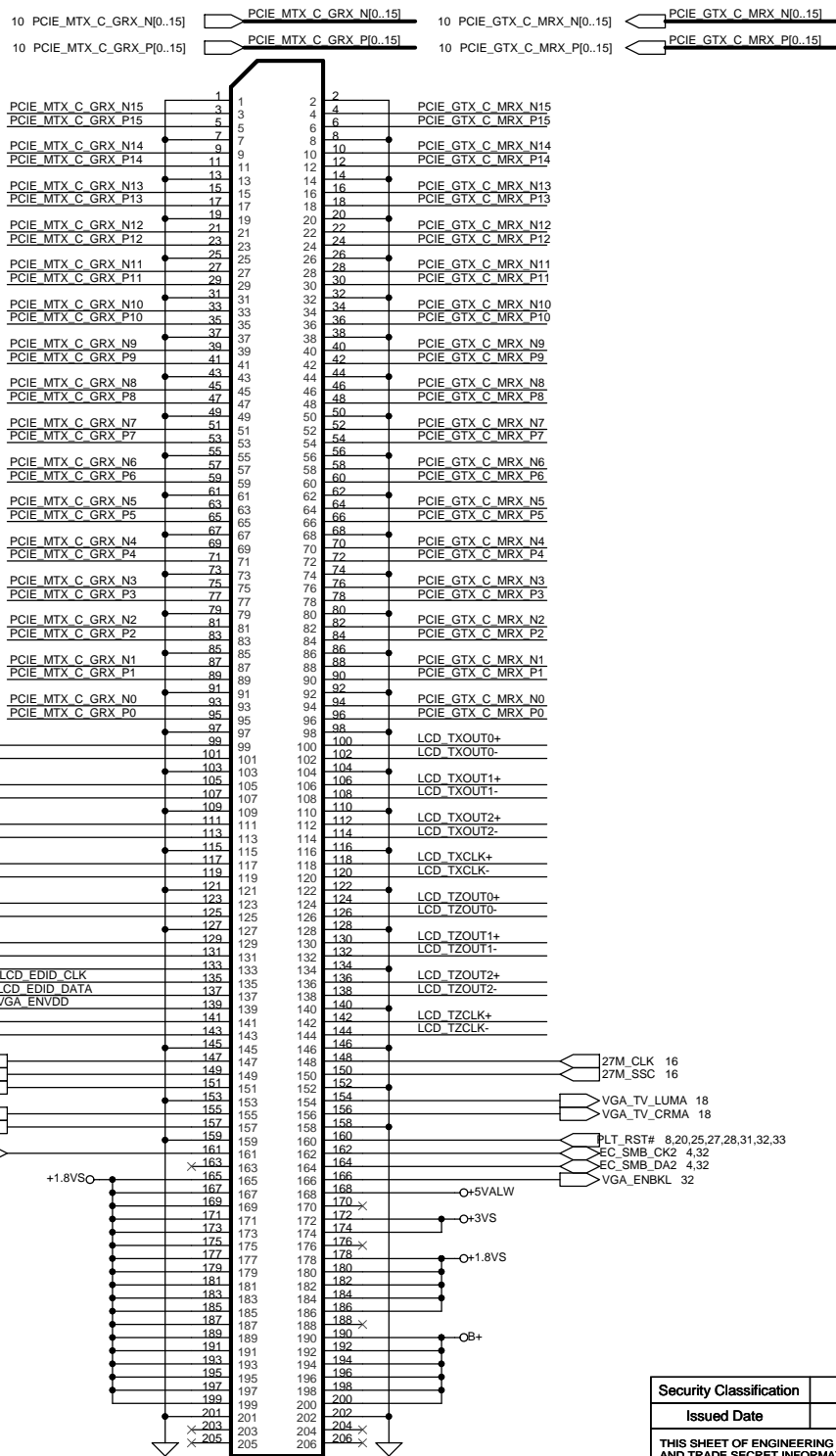


CLK LAN R 2 1 R472 @ 0.0402_5% CLK_XDP
 CLK LAN# R 2 1 R473 @ 0.0402_5% CLK_XDP#
 for debug using, please place the resistors close to CLK gen.
 if need to use XDP,set "CLK_ICH" to high(266MHz)

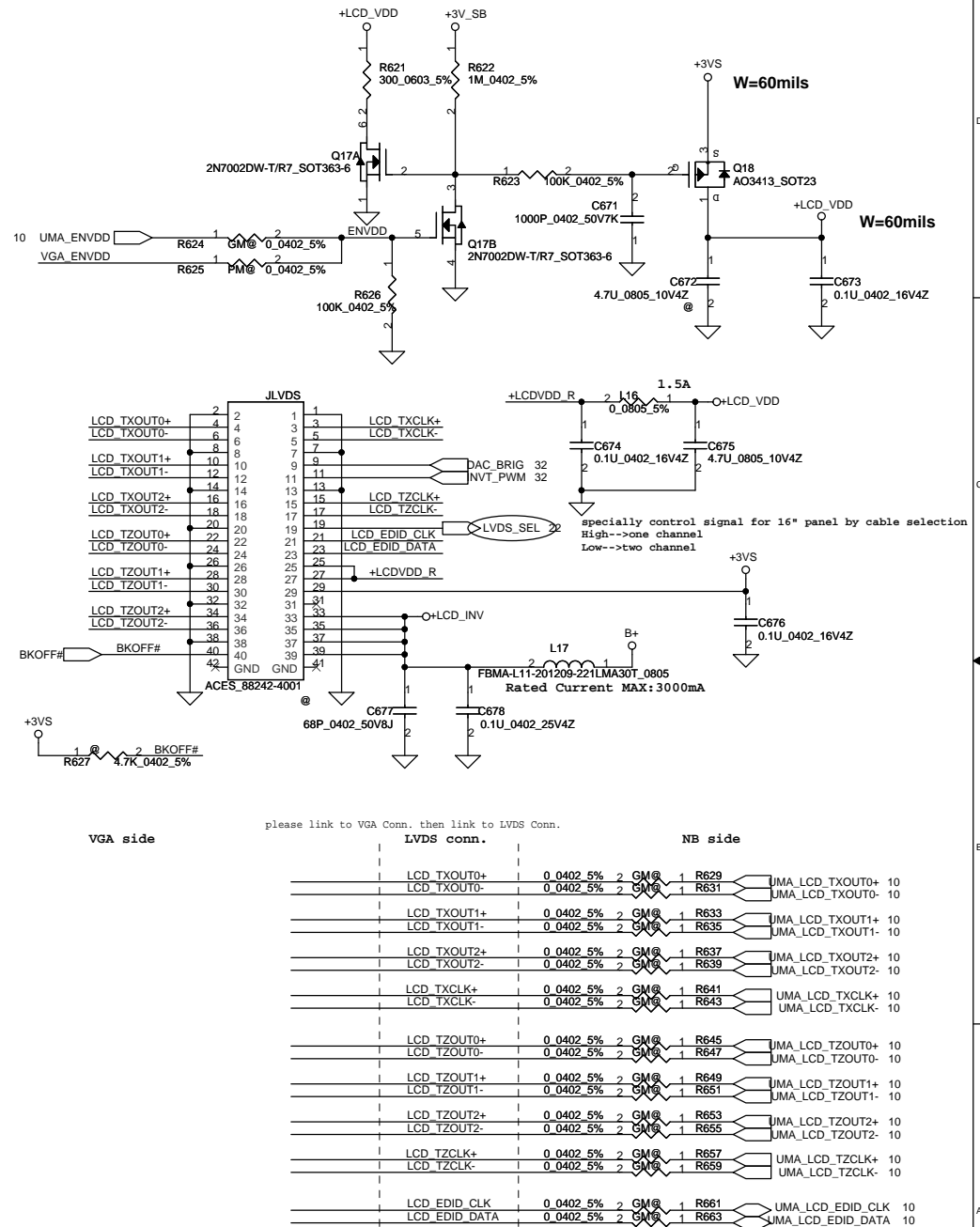
CLK_ICH	0 = SRC8/SRC8# (100MHz) 1 = ITP/ITP# (266MHz)
CLK_EC	0 = Enable DOT96 & SRC1 (UMA) 1 = Enable SRC0 & 27MHz (DIS)



Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number
				401605
Date:	Wednesday, September 16, 2009	Sheet	16	of 43

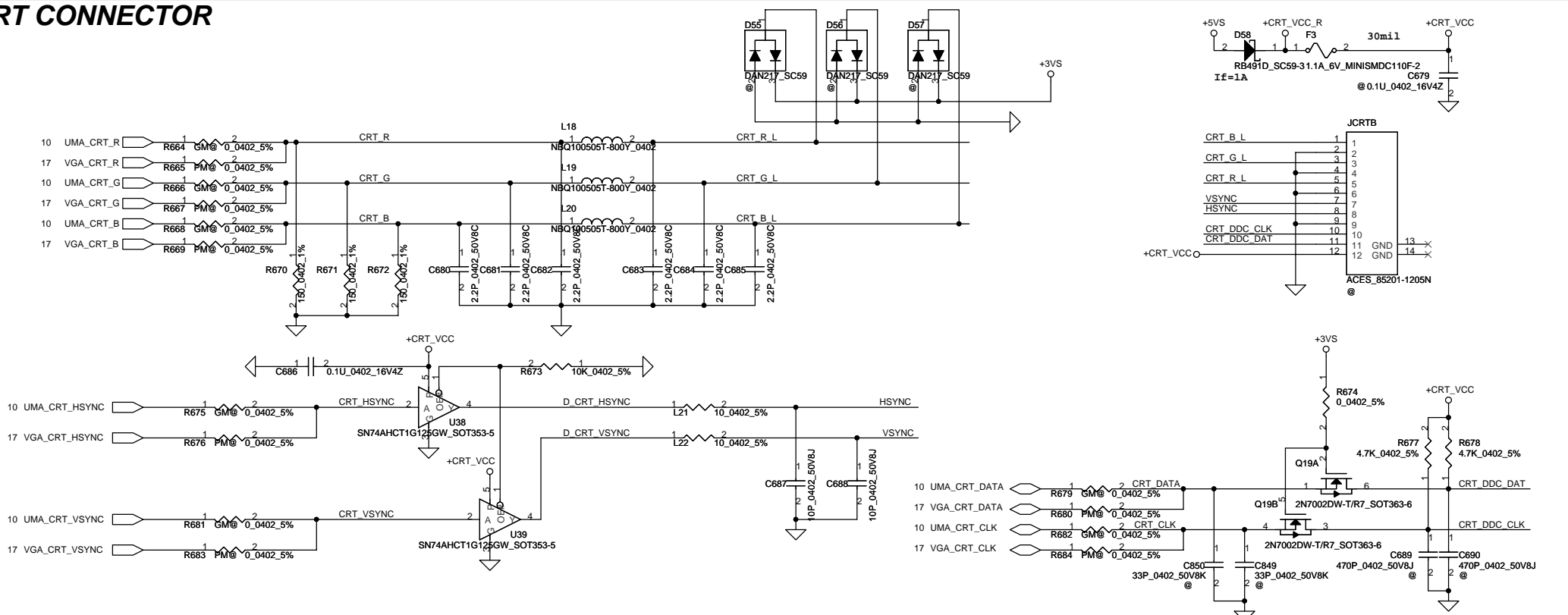


LCD/PANEL BD. Conn.

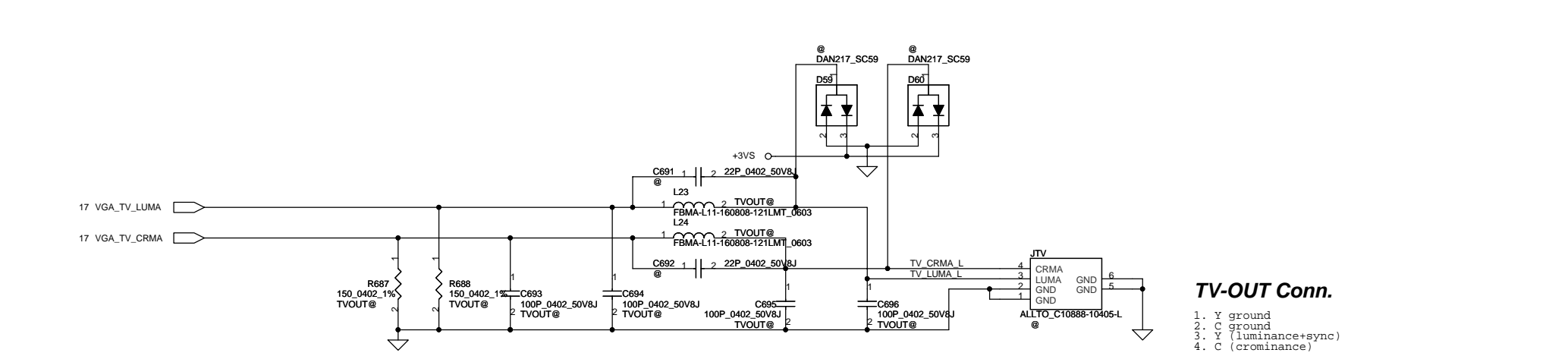


Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Schematic MB A4571	
Document Number				401605	
Date				Wednesday, September 16, 2009	
Sheet				17 of 43	

CRT CONNECTOR



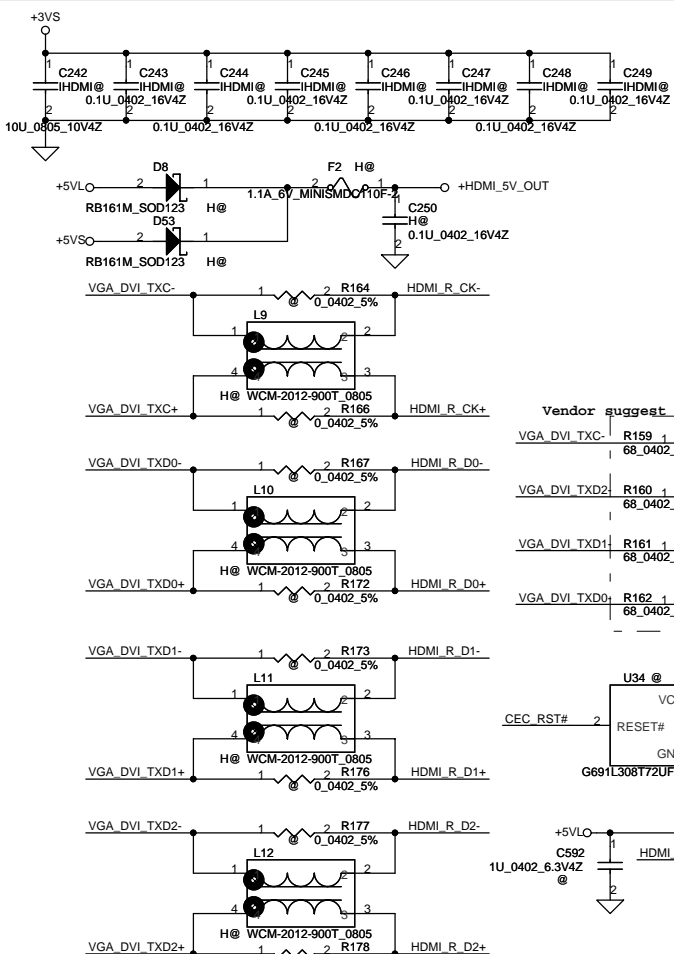
TV CONNECTOR



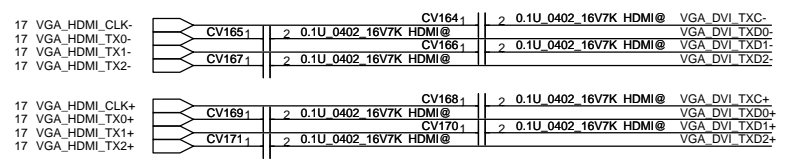
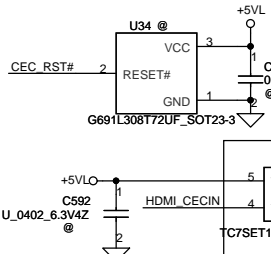
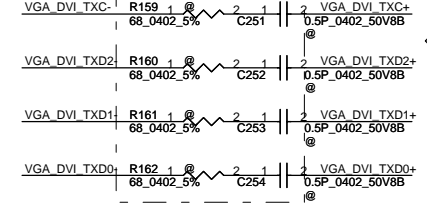
TV-OUT Conn.

- 1. Y ground
- 2. C ground
- 3. Y (luminance+sync)
- 4. C (chrominance)

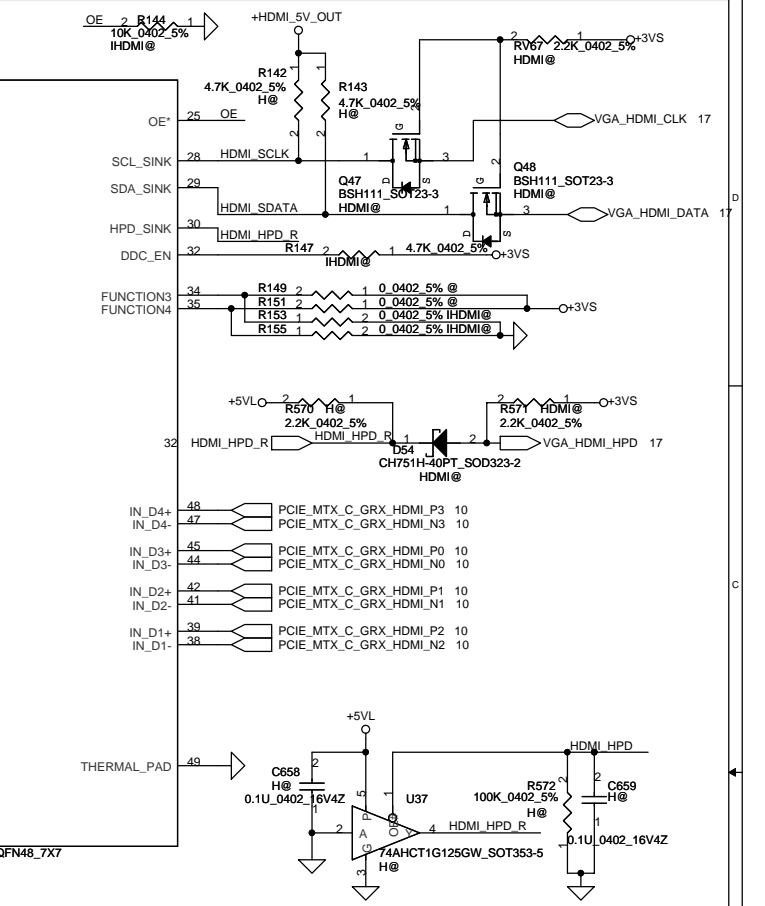
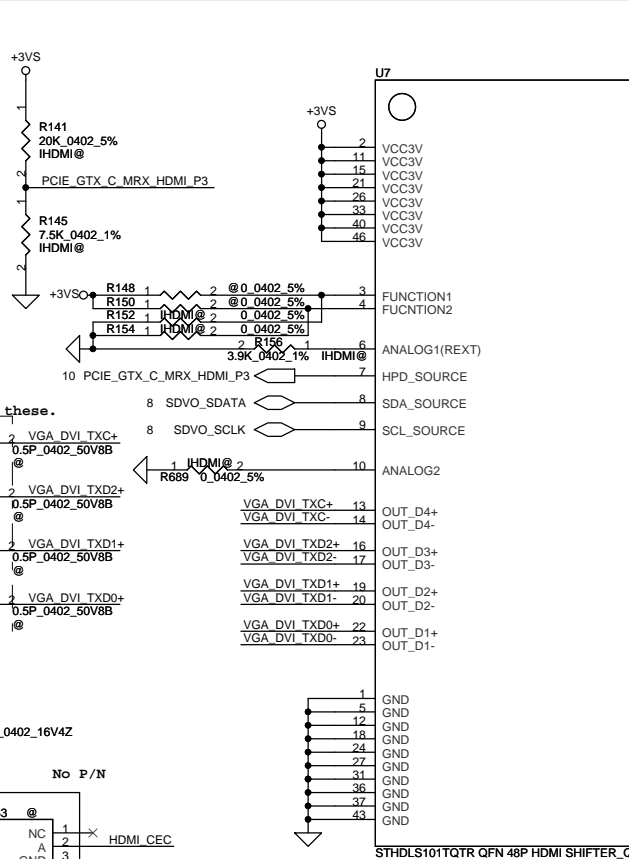
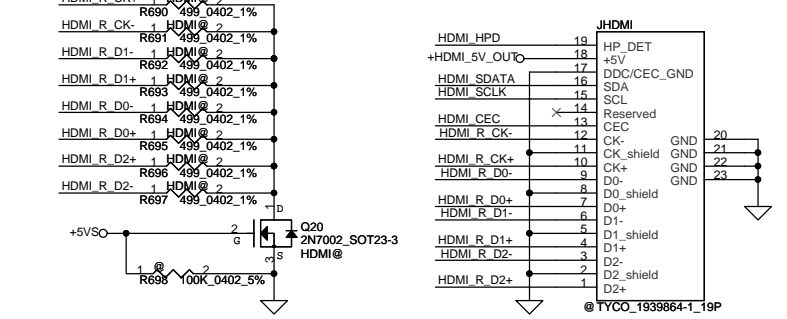
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	E		
	401605				
Date:	Wednesday, September 16, 2009	Sheet	18	of	43



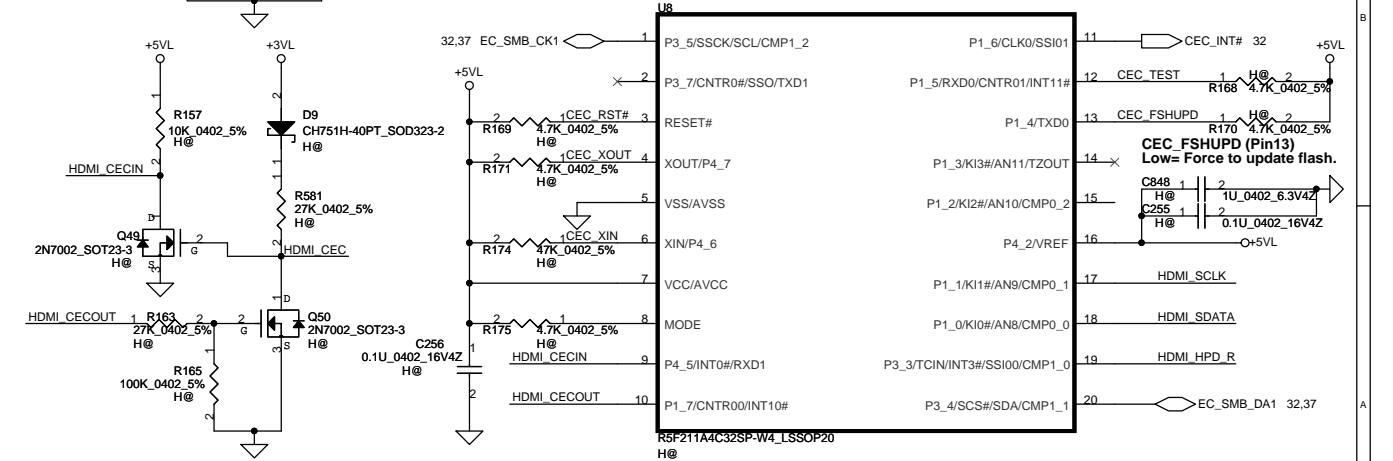
Vendor suggest un-mound for these.



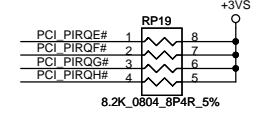
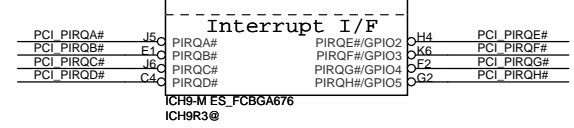
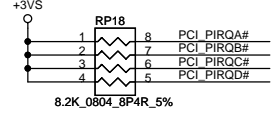
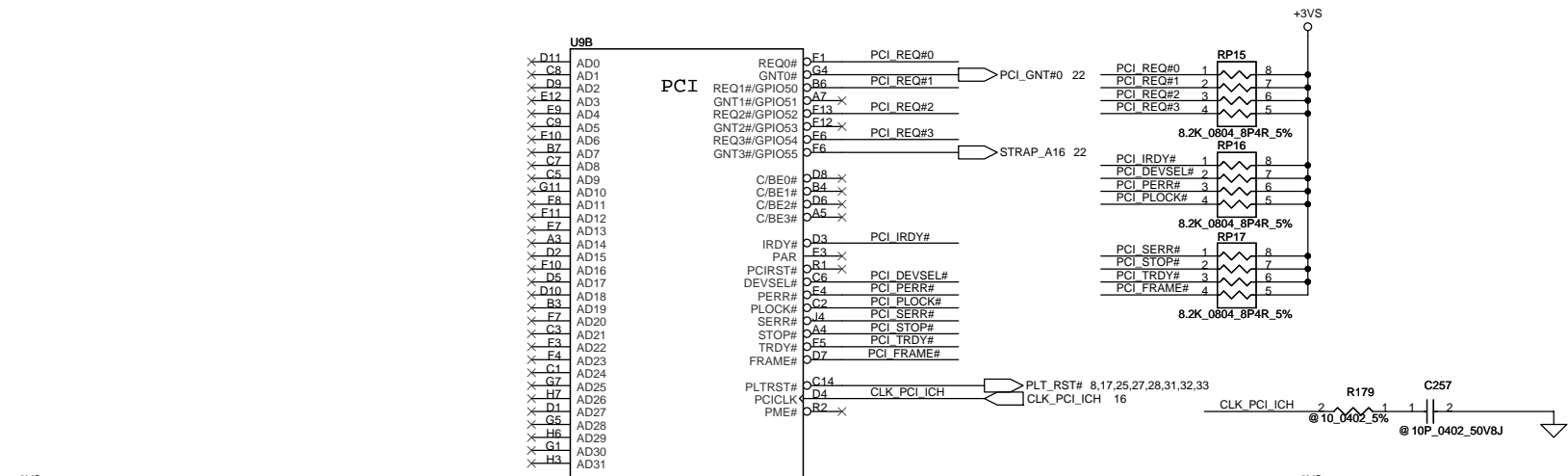
HDMI Connector



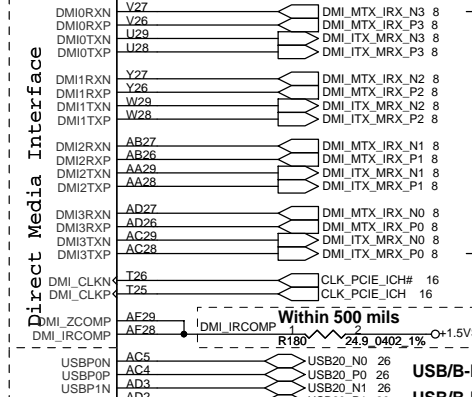
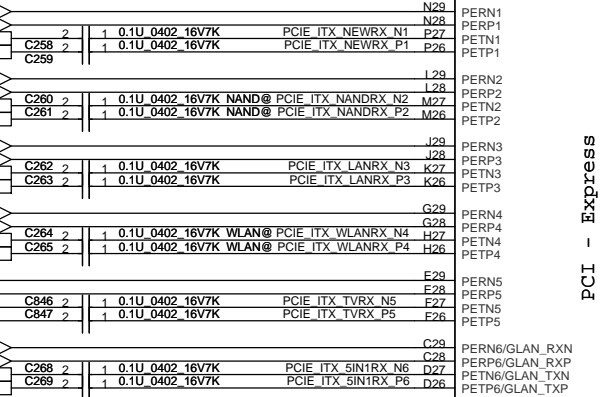
HDMI CEC Controller



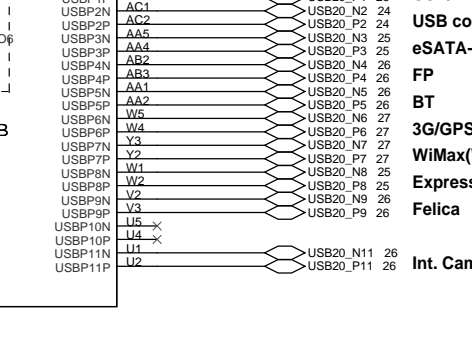
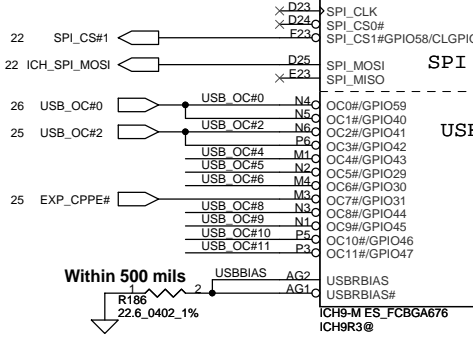
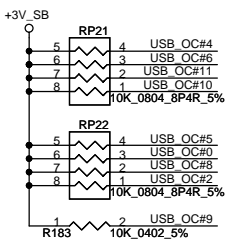
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF COMPAL ELECTRONICS, INC. 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.				SCHEMATIC MB A4571	
				Size	Document Number
				401605	
				Date	Wednesday, September 16, 2009
				Sheet	19 of 43



- For Express Card**
 - 25 PCIE_IRX_C_NEWTX_N1
 - 25 PCIE_IRX_C_NEWTX_P1
 - 25 PCIE_ITX_C_NEWRX_N1
 - 25 PCIE_ITX_C_NEWRX_P1
- For NAND**
 - 27 PCIE_IRX_C_NANDTX_N2
 - 27 PCIE_IRX_C_NANDTX_P2
 - 27 PCIE_ITX_C_NANDRX_N2
 - 27 PCIE_ITX_C_NANDRX_P2
- For LAN**
 - 28 PCIE_IRX_C_LANTX_N3
 - 28 PCIE_IRX_C_LANTX_P3
 - 28 PCIE_ITX_C_LANRX_N3
 - 28 PCIE_ITX_C_LANRX_P3
- For WLAN**
 - 27 PCIE_IRX_C_WLANTX_N4
 - 27 PCIE_IRX_C_WLANTX_P4
 - 27 PCIE_ITX_C_WLANRX_N4
 - 27 PCIE_ITX_C_WLANRX_P4
- For TV**
 - 27 PCIE_IRX_C_TVTX_N5
 - 27 PCIE_IRX_C_TVTX_P5
 - 27 PCIE_ITX_C_TVTRX_N5
 - 27 PCIE_ITX_C_TVTRX_P5
- For 5 IN 1**
 - 31 PCIE_IRX_C_5IN1TX_N6
 - 31 PCIE_IRX_C_5IN1TX_P6
 - 31 PCIE_ITX_C_5IN1RX_N6
 - 31 PCIE_ITX_C_5IN1RX_P6

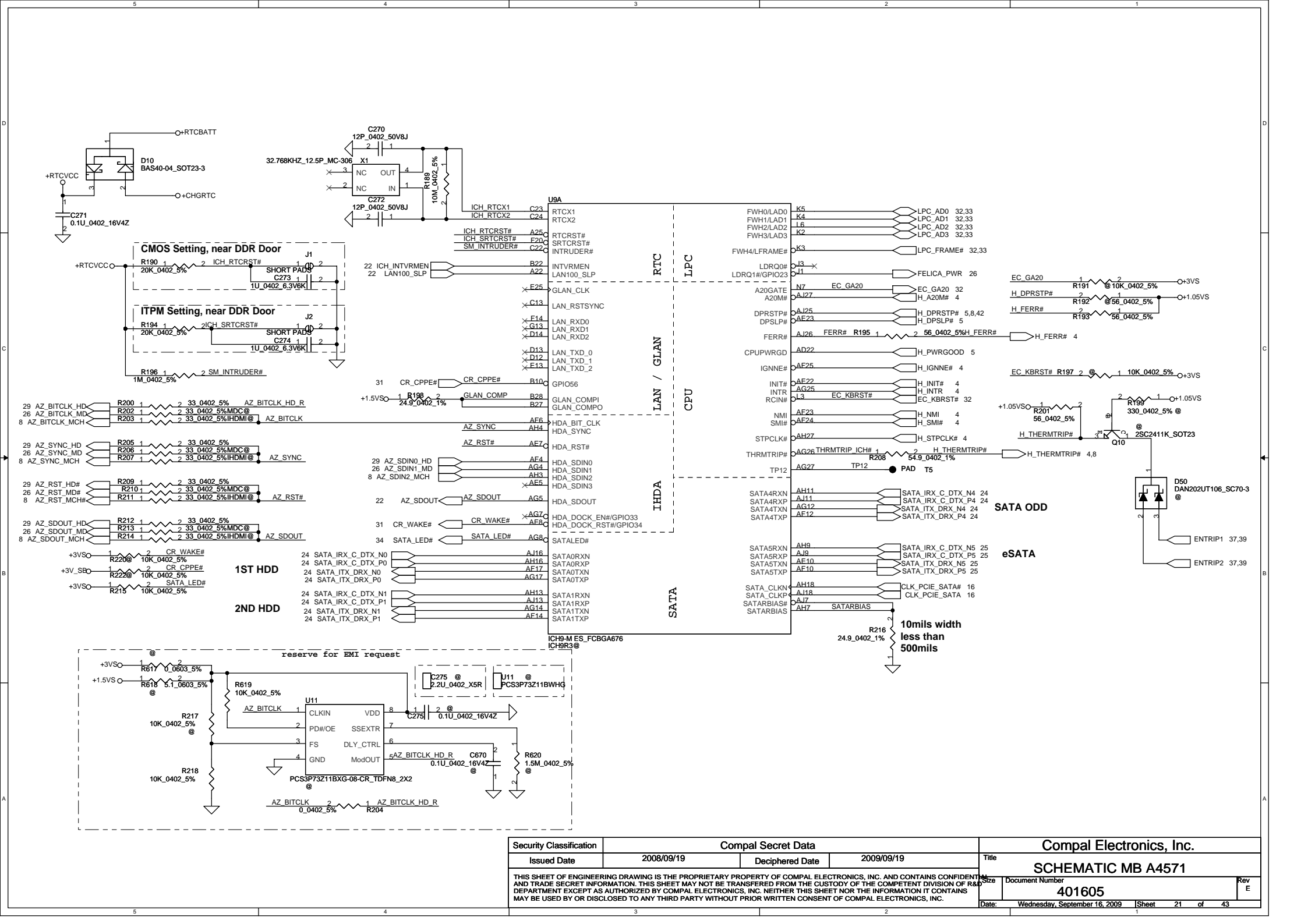


Lane reversal

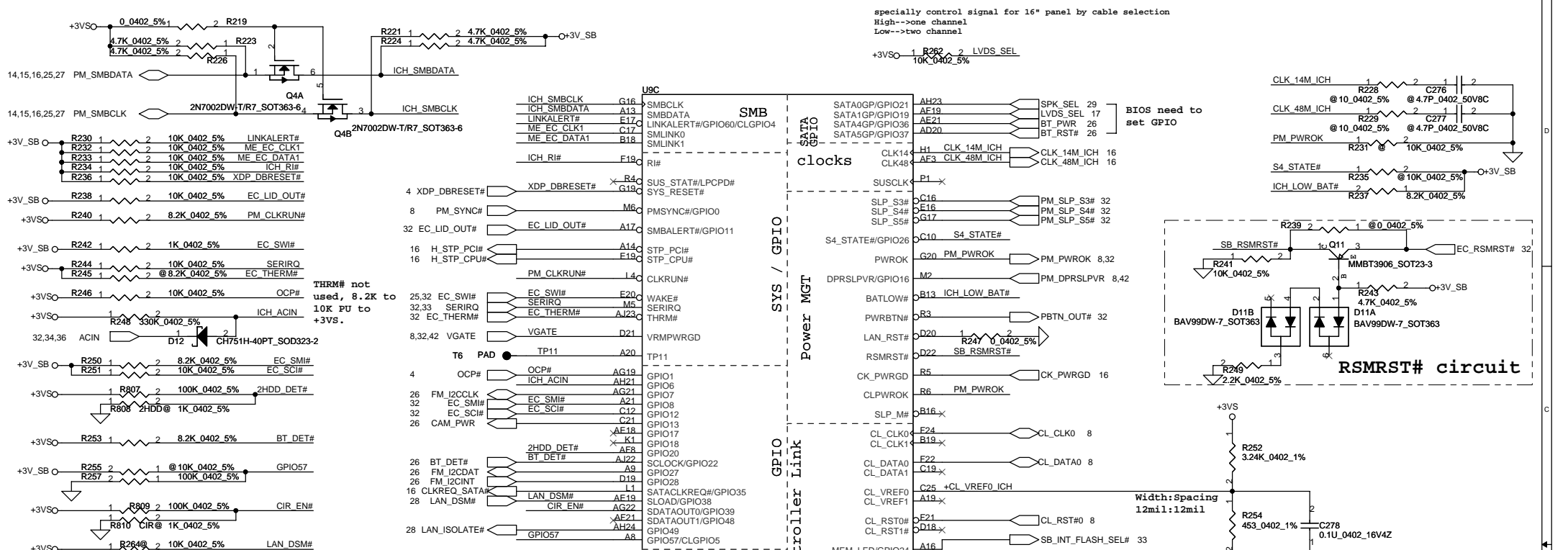


USB/B-Right
USB/B-Right
USB conn.-left
eSATA-USB
FP
BT
3G/GPS/UWB
WiMax(WLAN)
ExpressCard
Felica
Int. Camera

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev E
				401605	
Date:	Wednesday, September 16, 2009	Sheet	20	of	43



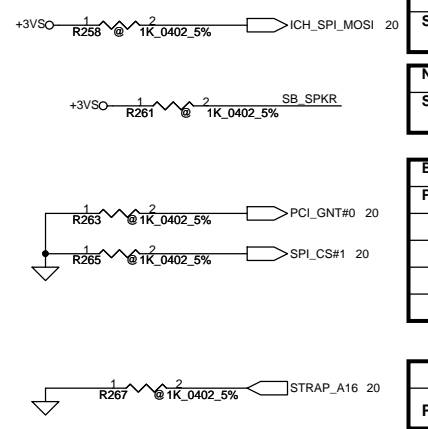
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				401605	E
Date:	Wednesday, September 16, 2009	Sheet	21	of 43	



iTPM Physical Presence

CLGPIO5 Mobil Platform	Assert = iTPM Physical Presence Enable De-assert = iTPM disable **Only used in iAMT w/ME Firmware
GPIOI57	Desktop Platform used only

ICH9M Strap Pin



Internal TPM Strap (Internal pull-down)

SPI_MOSI	Low= Disable High= iTPM enable by MCH strap*
----------	---

No Reboot Strap (Internal pull-up)

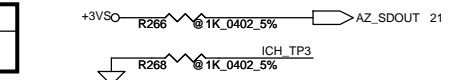
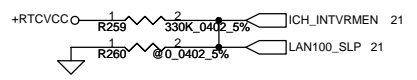
SB_SPKR	Low= *Default High= "No Reboot"
---------	------------------------------------

Boot BIOS Strap (Internal pull-up)

PCI_GNT#0	SPI_CS#1	Boot BIOS Location
0	0	RESERVED
0	1	SPI
1	0	PCI
1	1	LPC* (Default)

A16 Swap Override Strap

PCI_GNT#3	Low= A16 swap override Enable High= Default* (Internal pull-up)
-----------	--



Internal VR Enable Strap (Internal VR for VccSus1.05, VccSus1.5, VccCL1.5)

ICH_INTVRMEN	Low = Internal VR Disabled High = Internal VR Enabled(Default)
--------------	---

ICH8M LAN100 SLP Strap (Internal VR for VccLAN1.05 and VccCL1.05)

ICH_LAN100_SLP	Low = Internal VR Disabled High = Internal VR Enabled(Default)
----------------	---

XOR Chain Entrance Strap

ICH_TP3 (Internal pull-up)	HDA_SDOUT (Internal pull-down)	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal Operation (Default)
1	1	Set PCIE port config bit 1

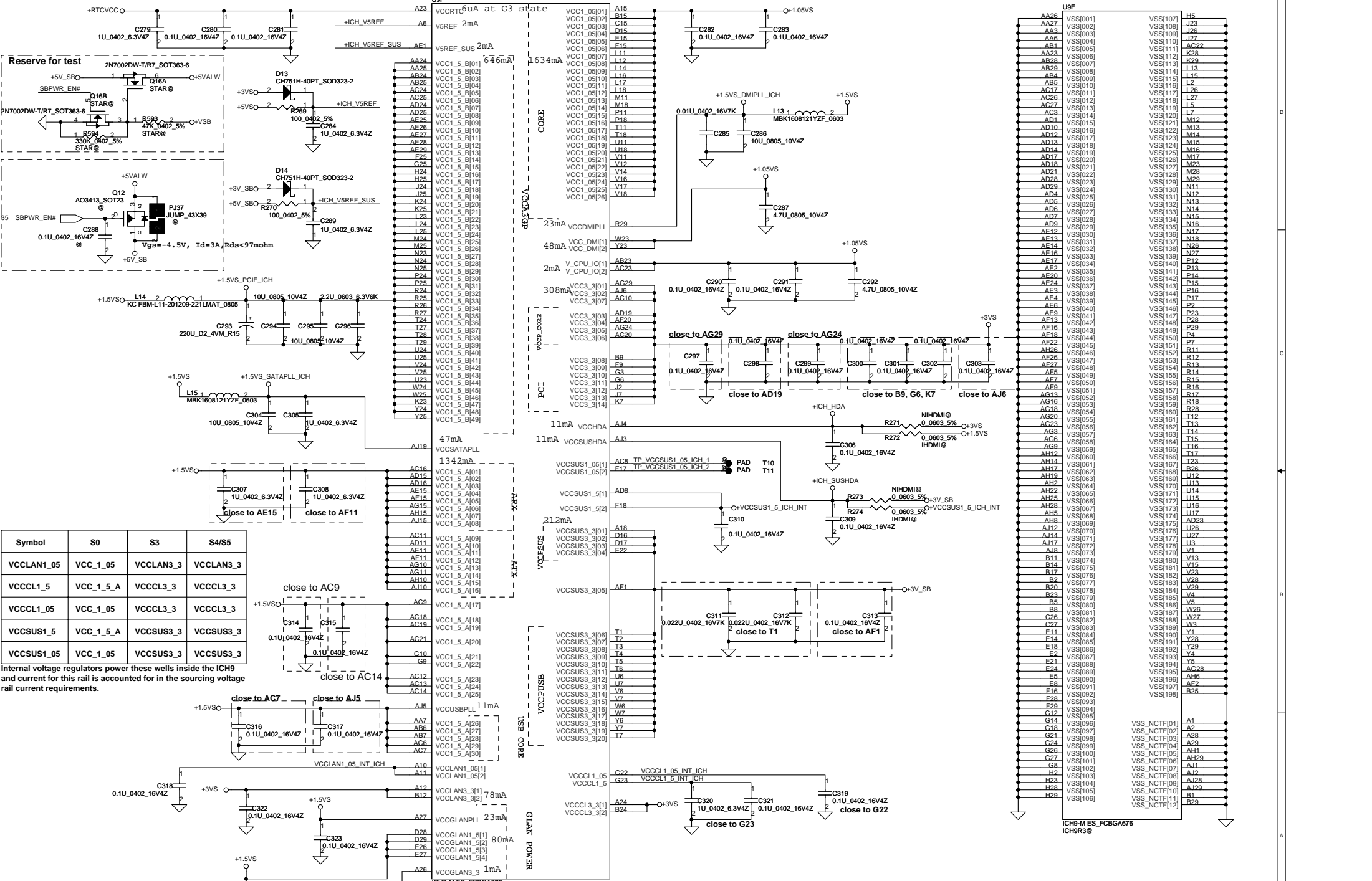
Flash Descriptor Security Override Strap

GPIO33	Low= Descriptor Security override High= Default* (Internal pull-up)
--------	--

DMI Termination Voltage

GPIO49	Low= Desktop used High= Mobile* (Internal pull-up)
--------	---

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	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.				SCHEMATIC MB A4571	
				Document Number	Rev E
				401605	
				Date: Wednesday, September 16, 2009	Sheet 22 of 43

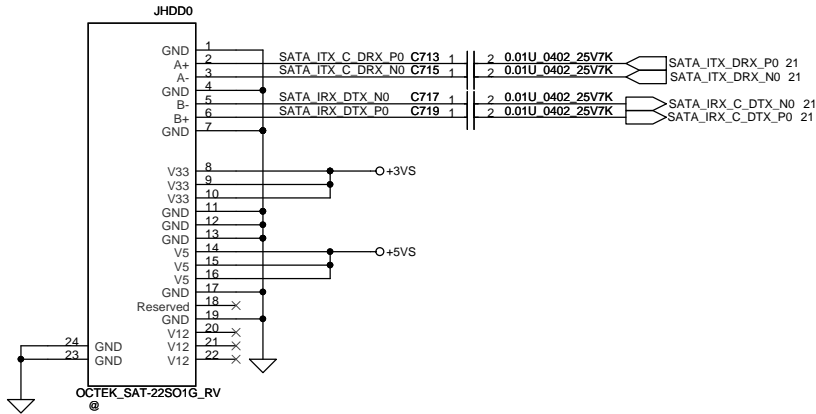
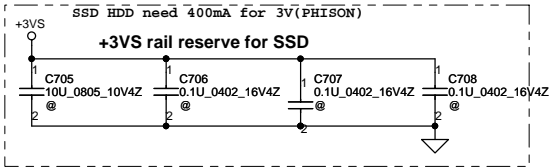
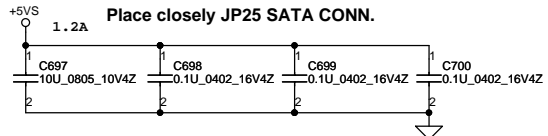


Symbol	S0	S3	S4/S5
VCCLAN1_05	VCC_1_05	VCCLAN_3_3	VCCLAN_3_3
VCCCL1_5	VCC_1_5_A	VCCCL_3_3	VCCCL_3_3
VCCCL_05	VCC_1_05	VCCCL_3_3	VCCCL_3_3
VCCSUS1_5	VCC_1_5_A	VCCSUS_3_3	VCCSUS_3_3
VCCSUS_05	VCC_1_05	VCCSUS_3_3	VCCSUS_3_3

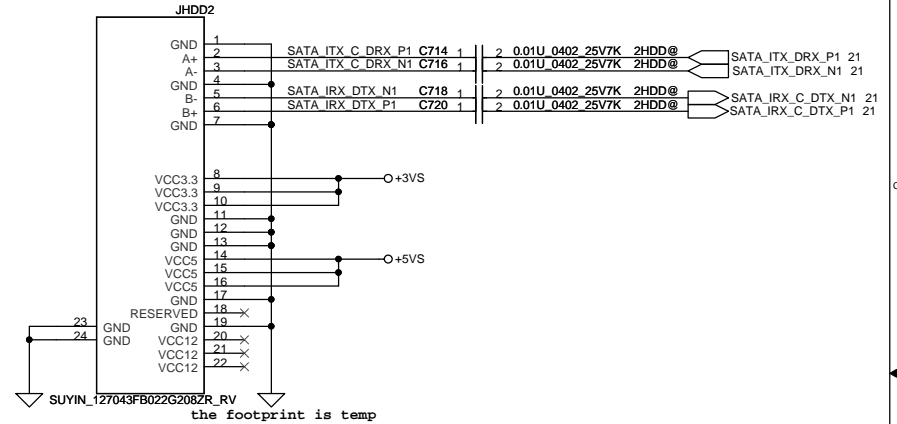
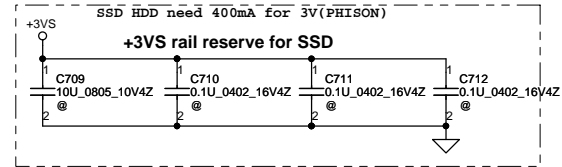
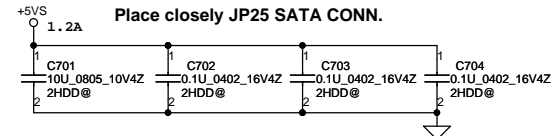
Internal voltage regulators power these wells inside the IC93 and current for this rail is accounted for in the sourcing voltage rail current requirements.

Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				SHEMATIC MB A4571	
Date: Wednesday, September 16, 2009				Sheet	23 of 43
74100				Document Number	Rev
401605				E	

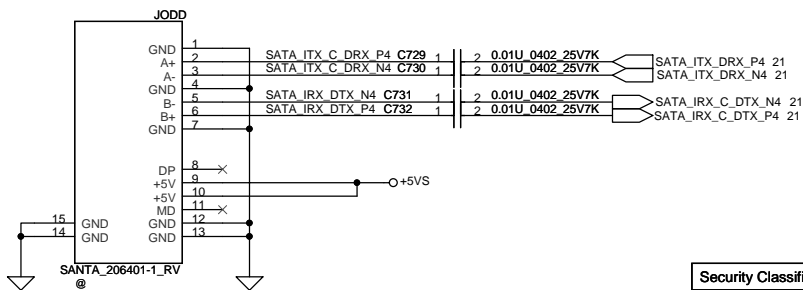
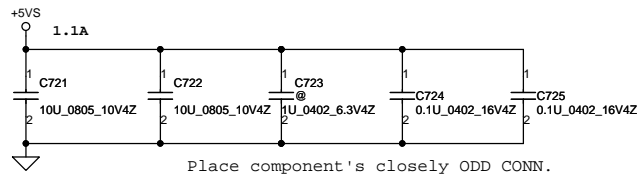
SATA HDD1 Conn.



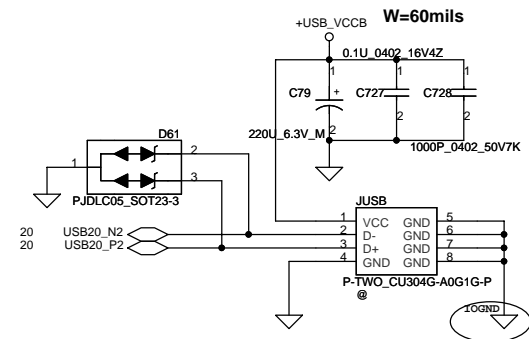
SATA HDD2 Conn.



SATA ODD Conn

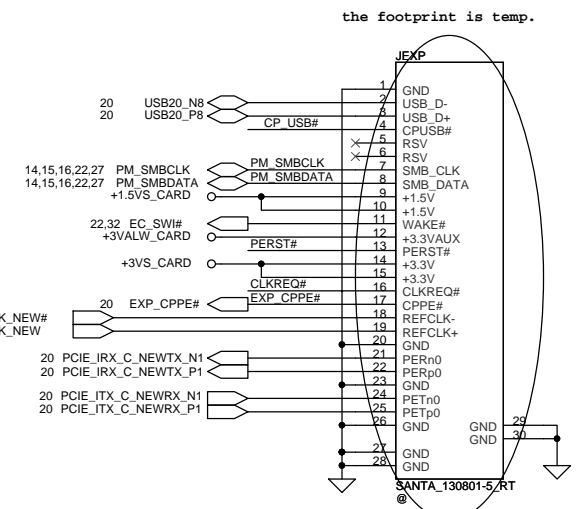
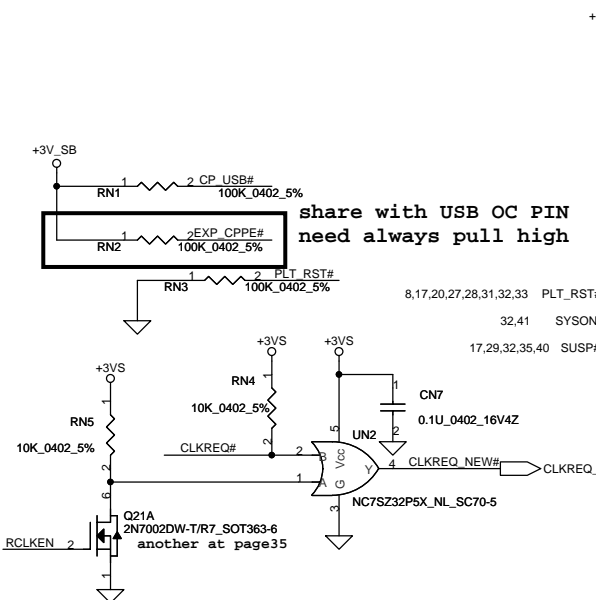
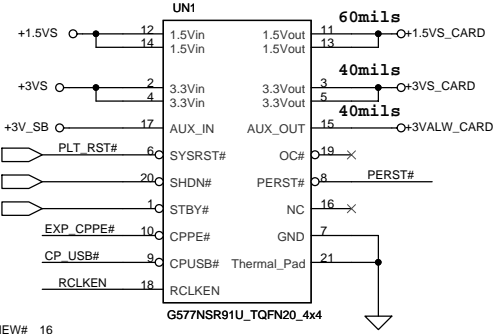
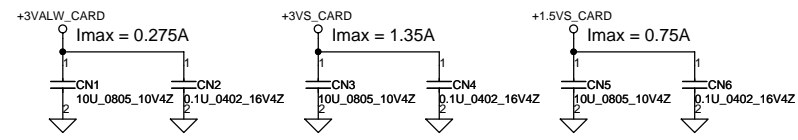
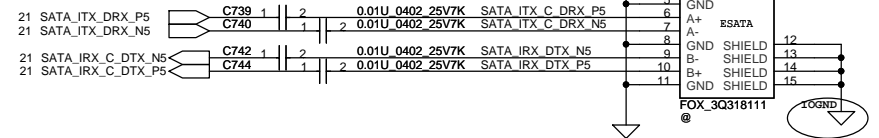
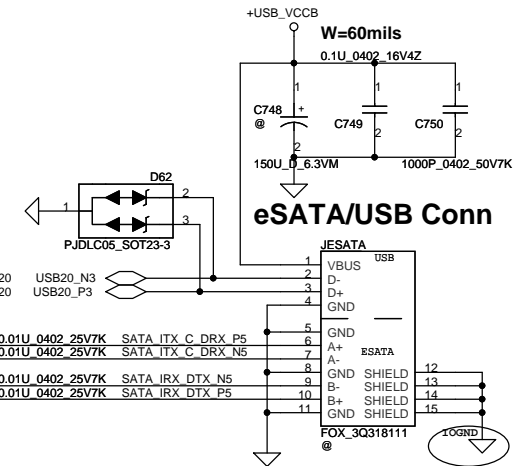
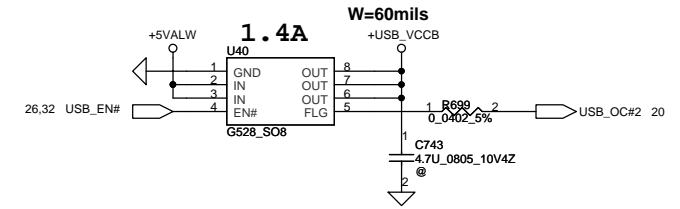


USB Conn.



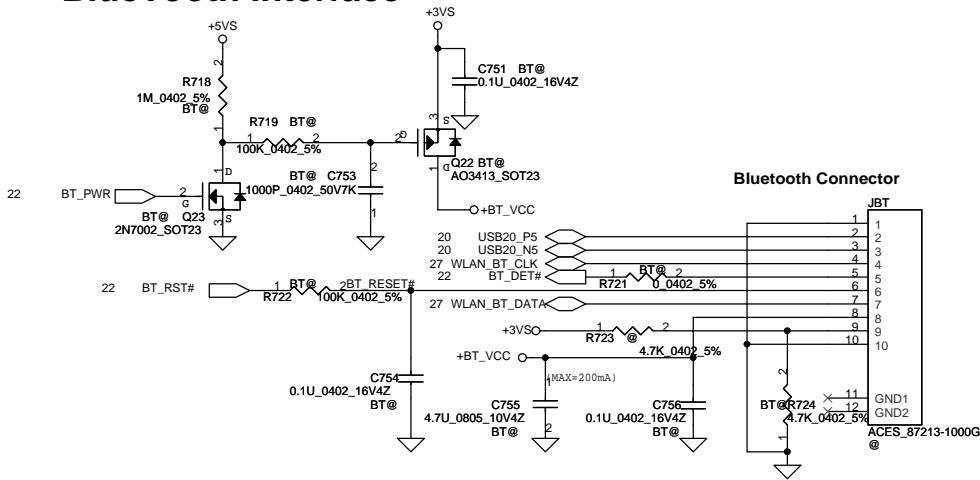
Security Classification	Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number 401605 Date: Wednesday, September 16, 2009 Sheet 24 of 43

eSATA/USB

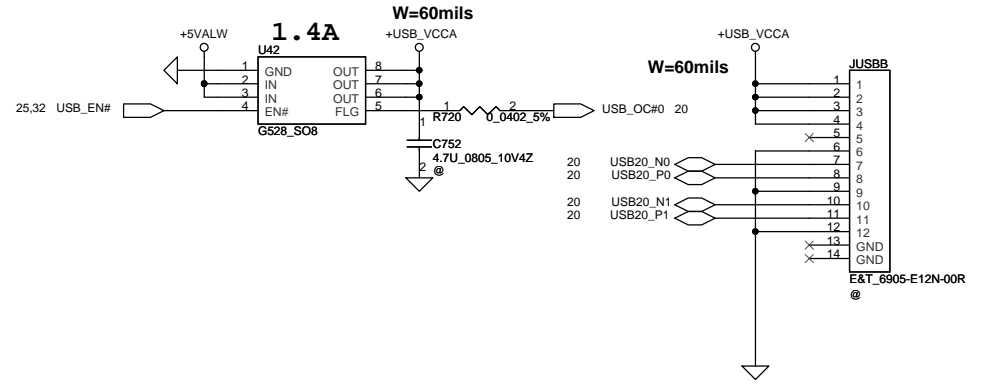


Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	401605
Date:	Wednesday, September 16, 2009	Sheet	25	of	43

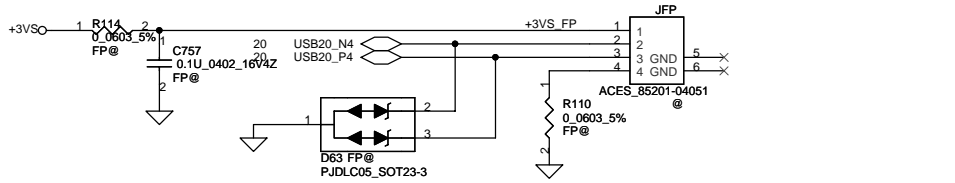
BlueTooth Interface



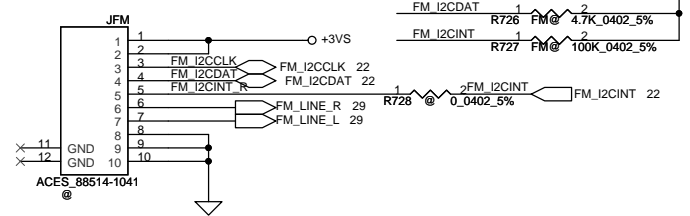
USB Board



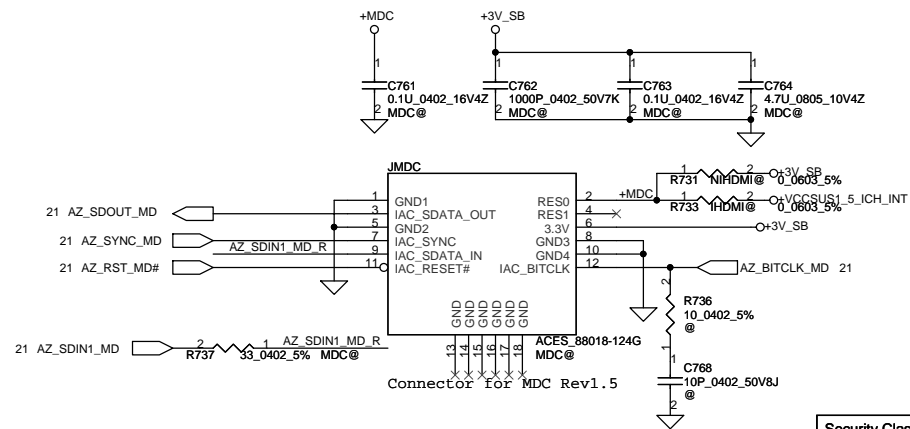
Finger printer



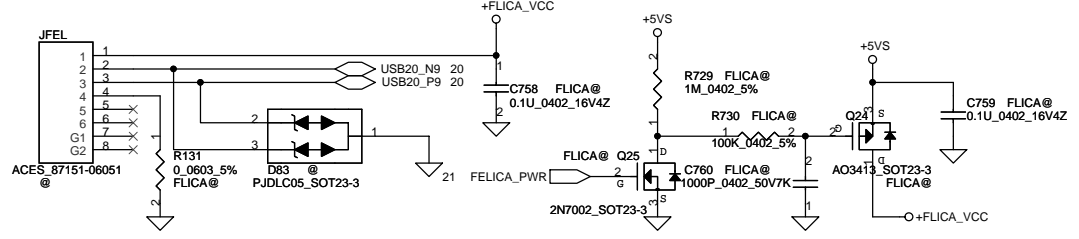
FM tuner



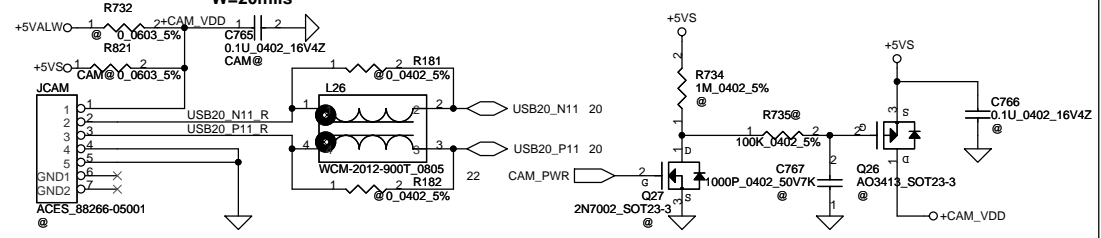
MDC 1.5 Conn.



Felica

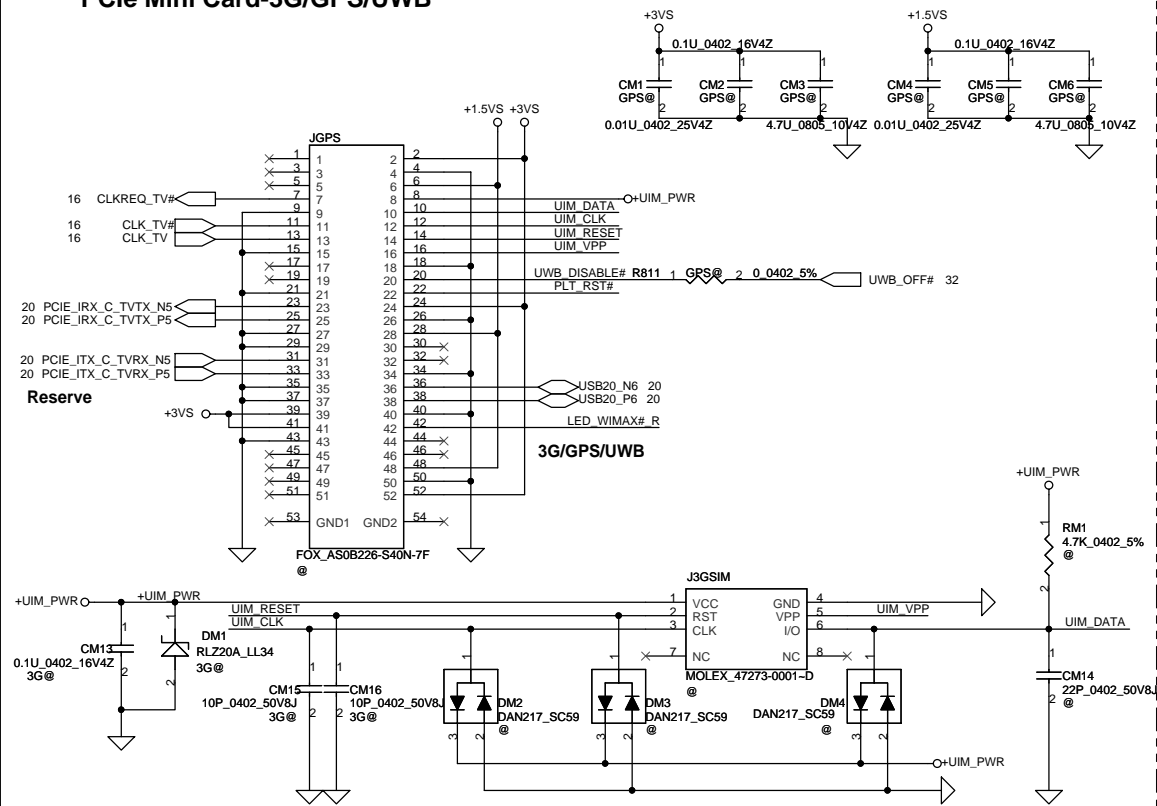


Int. Camera

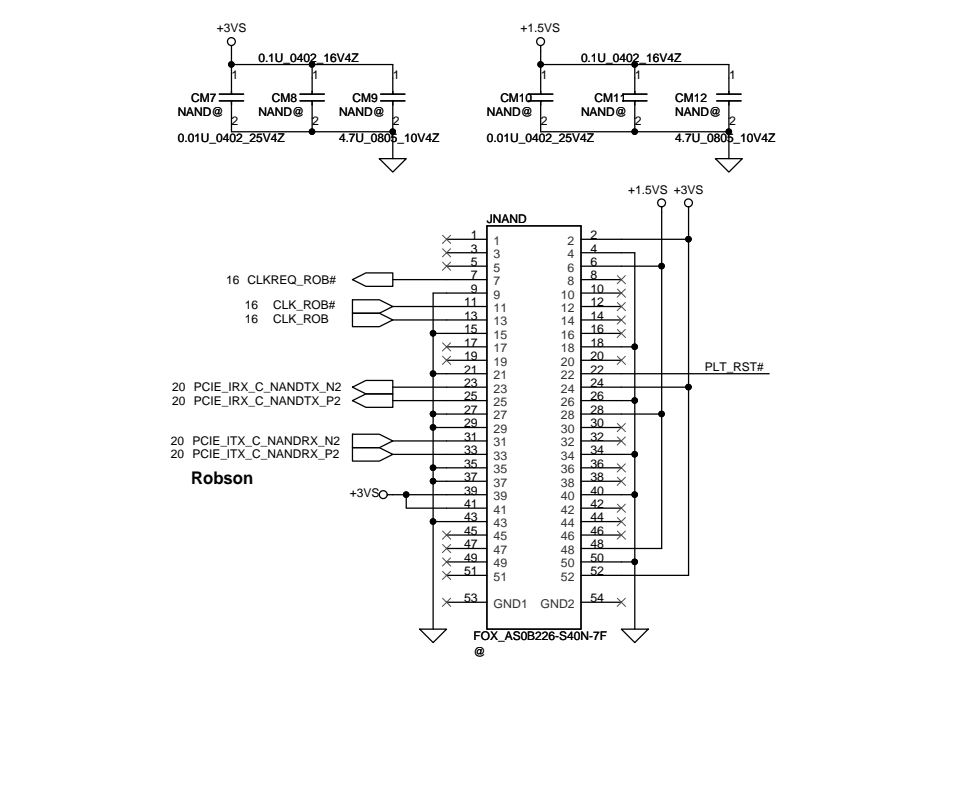


Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT IDENTIFICATION 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
				401605	
				Date:	Wednesday, September 16, 2009
				Sheet	26 of 43

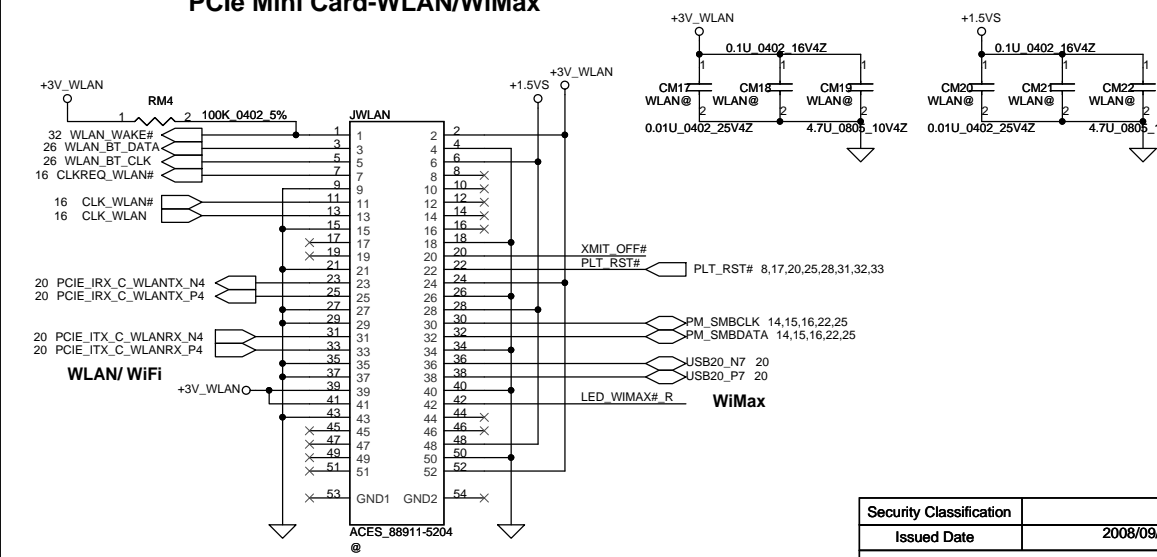
PCIe Mini Card-3G/GPS/UWB



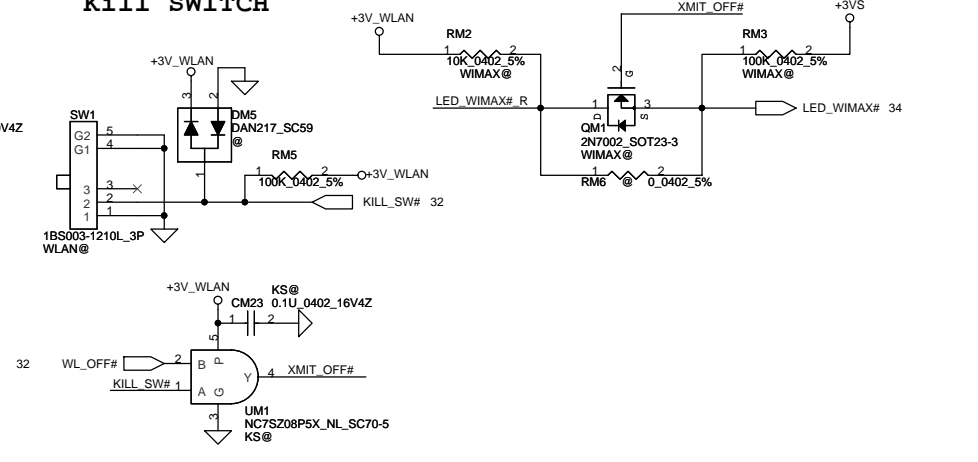
PCIe Mini Card-Robson



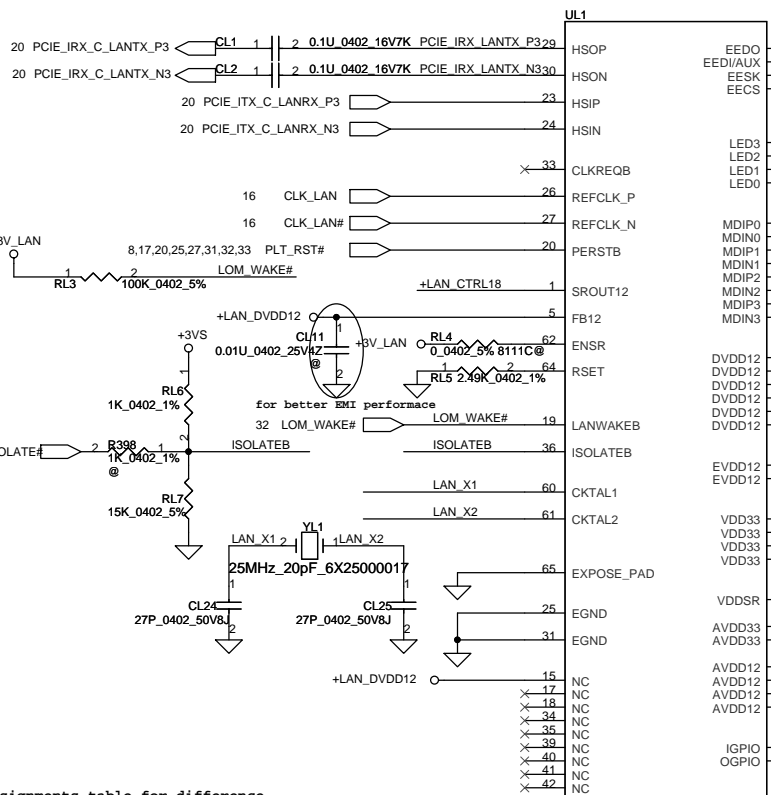
PCIe Mini Card-WLAN/WiMax



Kill SWITCH

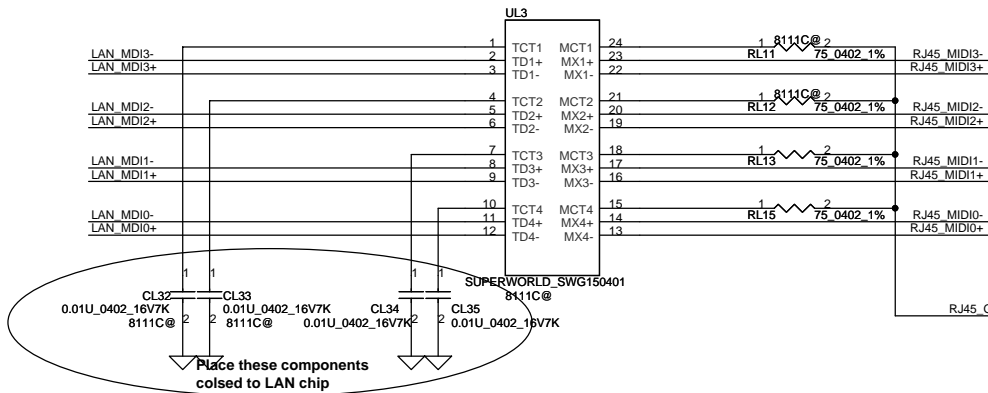


Security Classification	Compal Secret Data		Title	Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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
				401605	E
			Date:	Wednesday, September 16, 2009	Sheet 27 of 43

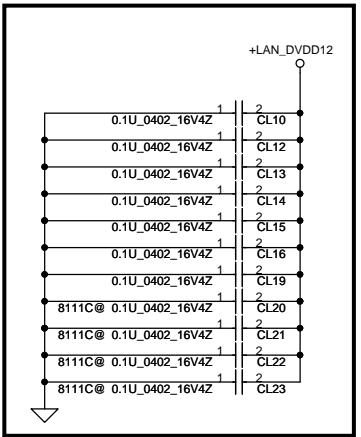
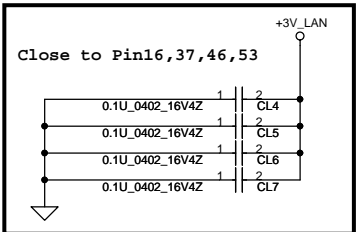
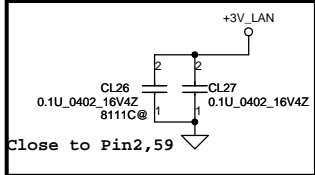
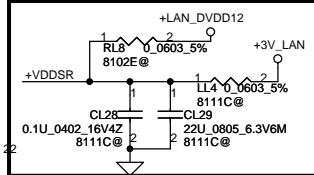
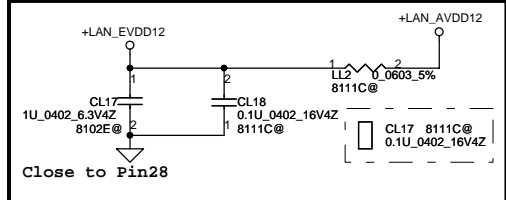
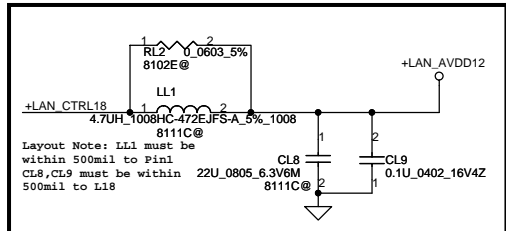


pin assignments table for difference

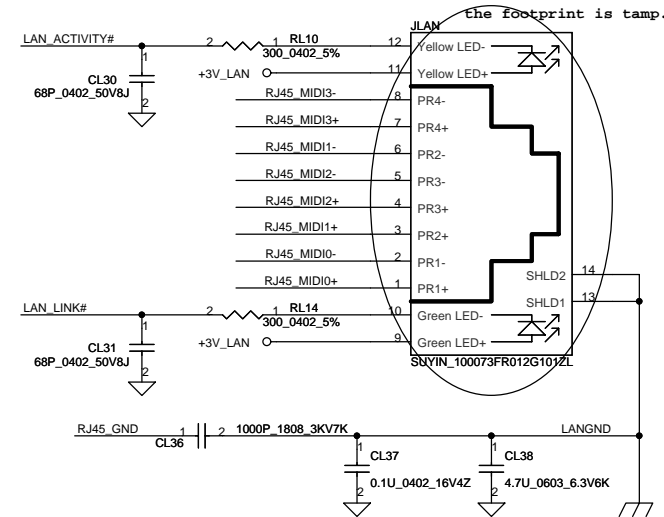
Pin	8111C	8102E
1	SR0UT12	VCTRL12A
5	FE12	NC
8	AVDD12	NC
9	MDIP2	NC
10	MDIN2	NC
11	AVDD12	NC
12	MDIP3	NC
13	MDIN3	NC
14	AVDD12	NC
15	NC	DVDD12
22	EVDD12	NC
32	DVDD12	NC
52	DVDD12	NC
58	AVDD12	DVDD12
59	AVDD33	NC
62	BNSR	NC
63	VDDSR	VCTRL12D



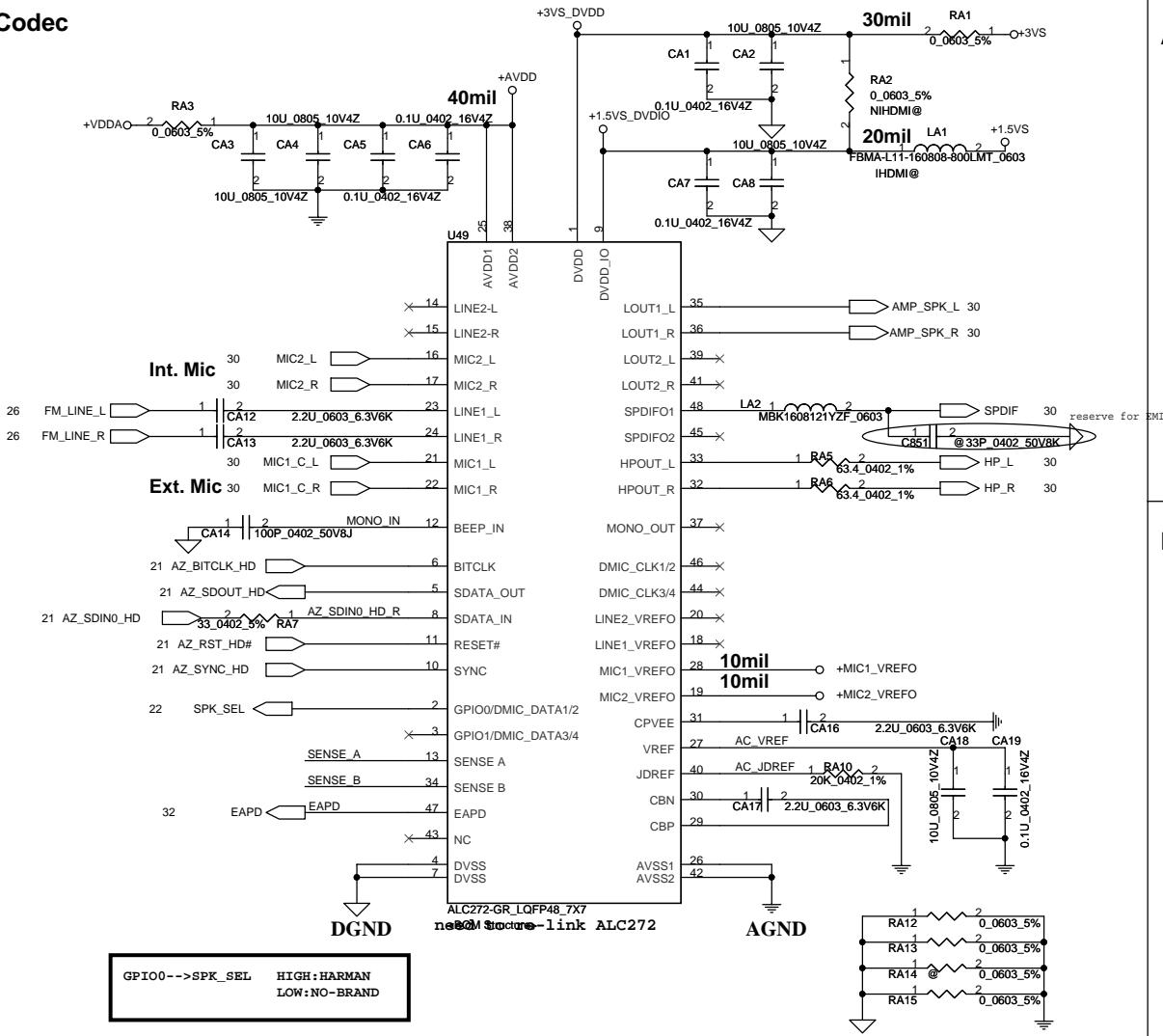
Place these components coiled to LAN chip



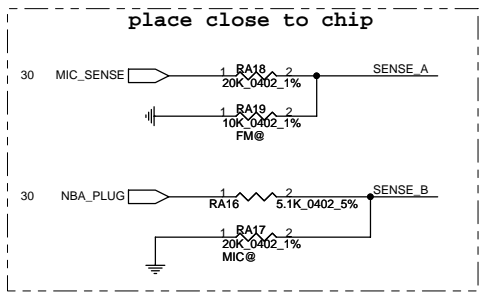
LAN Conn.



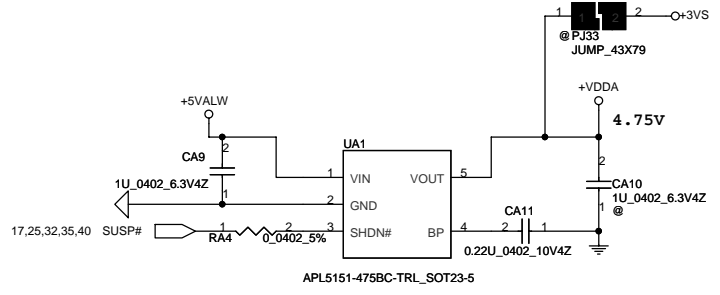
Codec



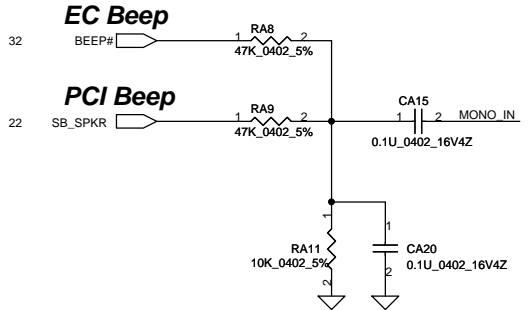
Sense Pin	Impedance	Codec Signals	Function
SENSE A	39.2K	PORT-A (PIN 39, 41)	
	20K	PORT-B (PIN 21, 22)	Ext. MIC
	10K	PORT-C (PIN 23, 24)	FM tuner
SENSE B	5.1K	PORT-D (PIN 35, 36)	SPK out
	39.2K	PORT-E (PIN 14, 15)	
	20K	PORT-F (PIN 16, 17)	Int. MIC
	10K	PORT-H (PIN 37)	
	5.1K	PORT-I (PIN 32, 33)	Headphone out



Audio regulator

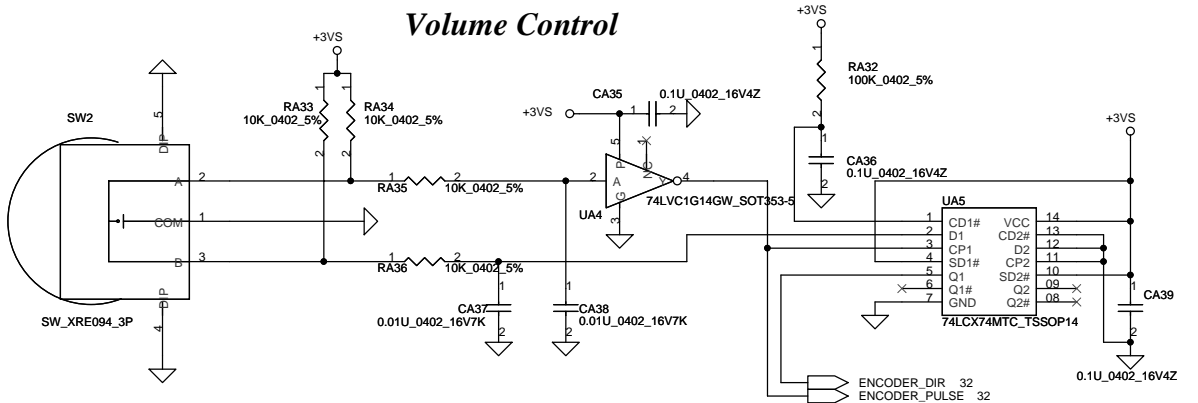
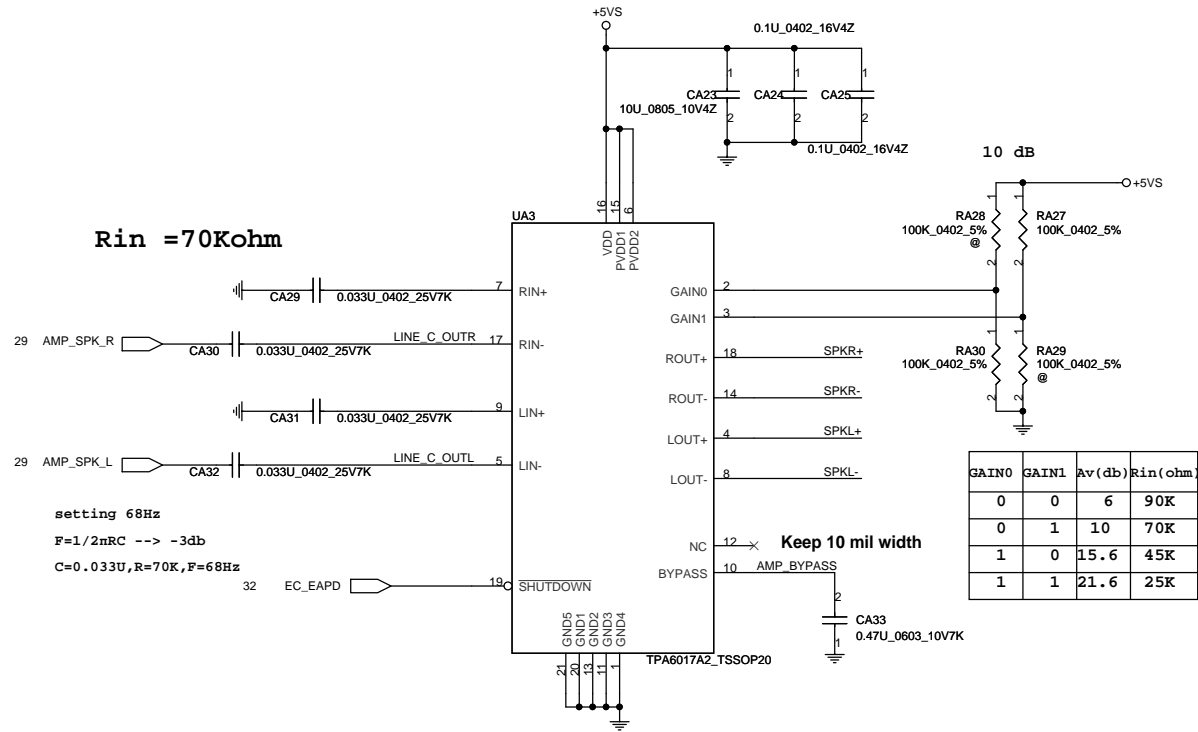


Beep sound

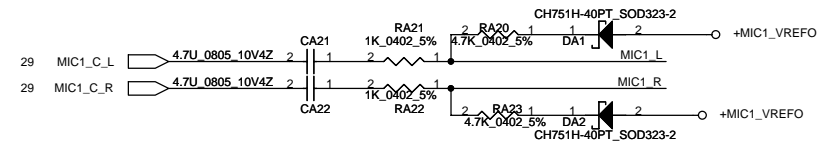


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev E
				401605	
Date: Wednesday, September 16, 2009				Sheet	29 of 43

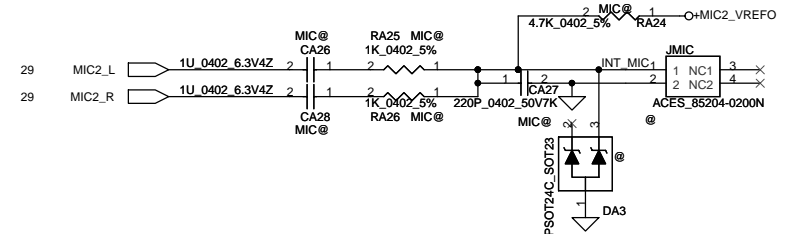
TPA6017 Medium Range Amplifier



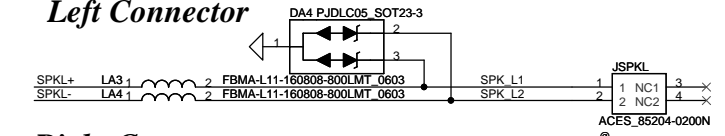
Ext. Mic



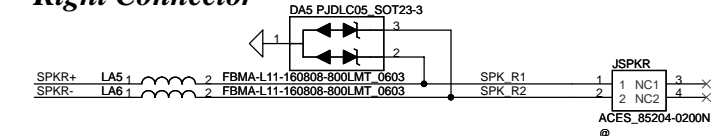
Int. Mic



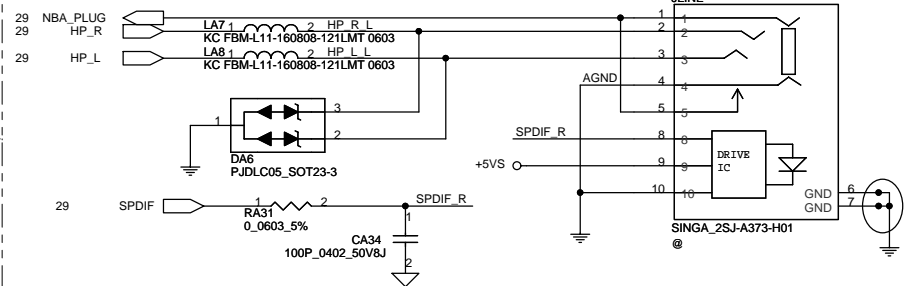
Left Connector



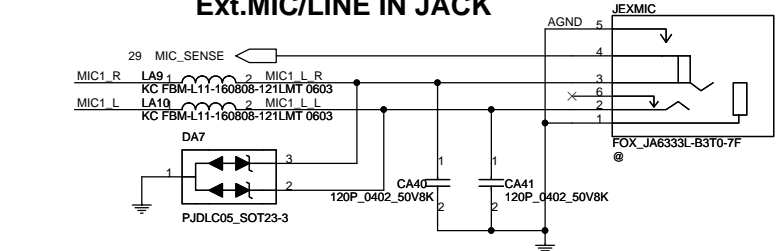
Right Connector



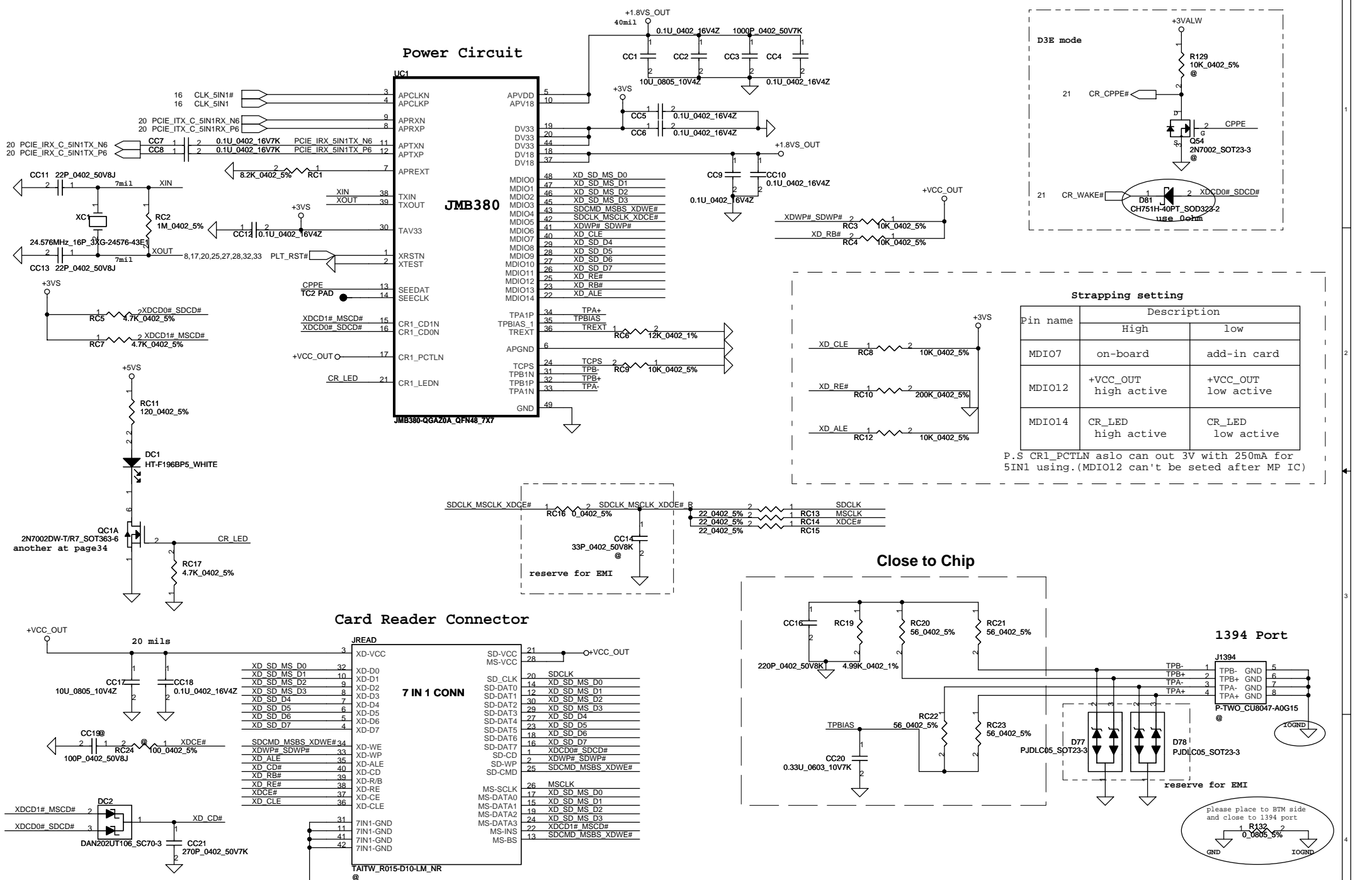
HeadPhone/LINE Out JACK



Ext.MIC/LINE IN JACK



Security Classification	Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number 401605
Date: Wednesday, September 16, 2009				Rev E
Sheet 30 of 43				

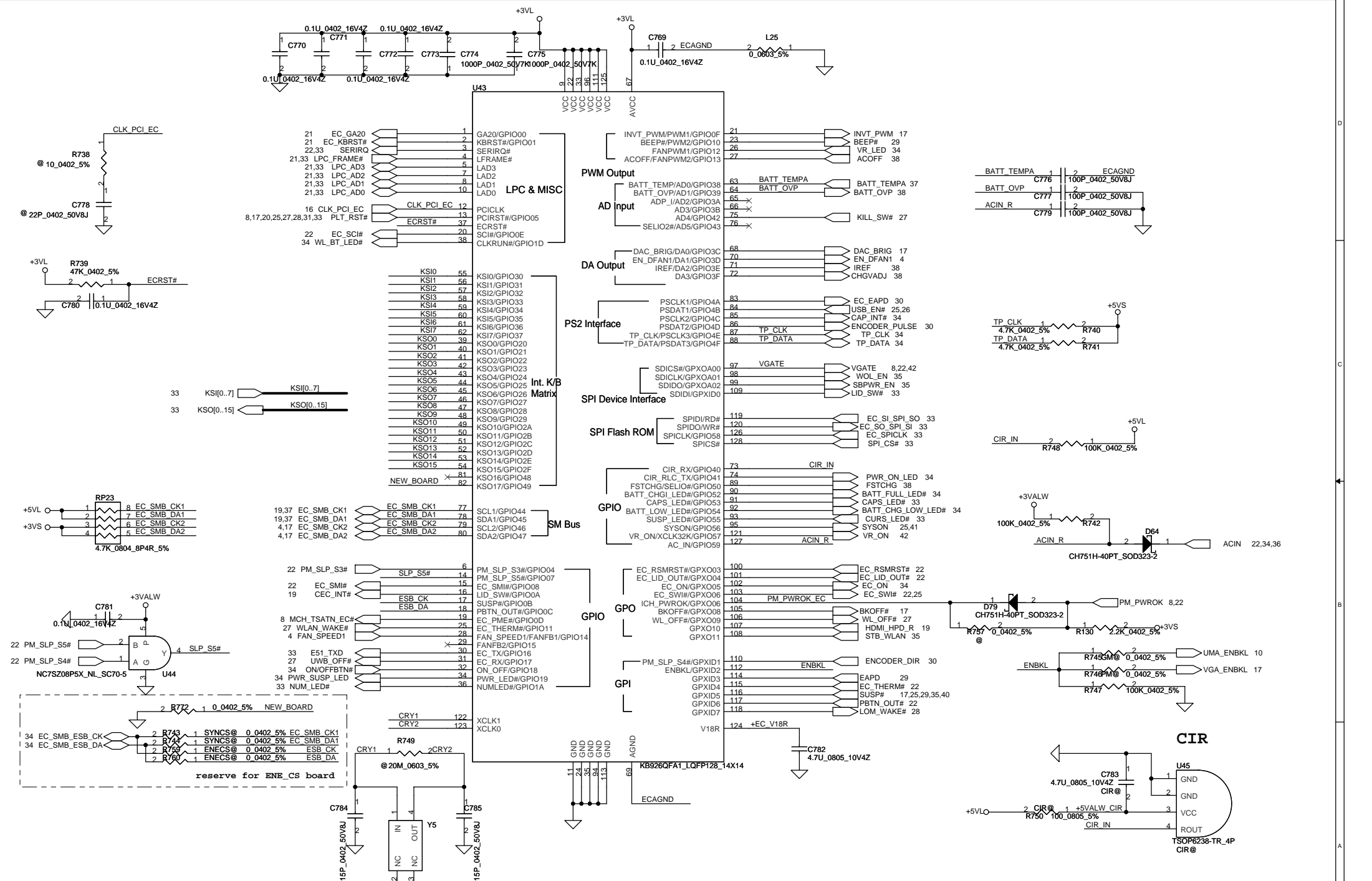


Strapping setting

Pin name	Description	
	High	low
MDIO7	on-board	add-in card
MDIO12	+VCC_OUT high active	+VCC_OUT low active
MDIO14	CR_LED high active	CR_LED low active

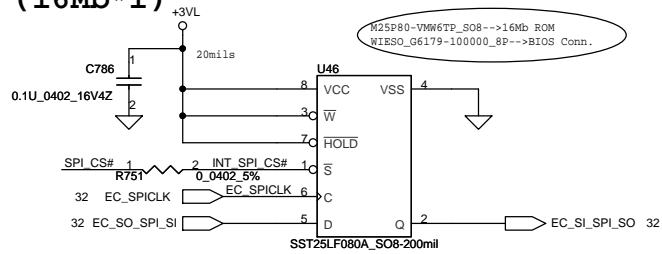
P.S CR1_PCTLN aslo can out 3V with 250mA for 5IN1 using.(MDIO12 can't be seted after MP IC)

Security Classification		Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Document Number				Rev E	
401605				Date: Wednesday, September 16, 2009 Sheet 31 of 43	



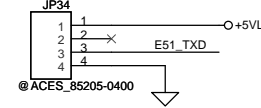
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT FIELD REPRESENTATIVE 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	401605		Rev	E
Date	Wednesday, September 16, 2009	Sheet	32	of	43

SPI Flash (16Mb*1)



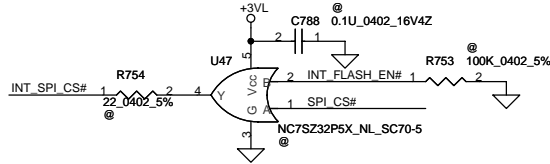
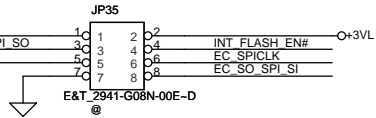
Please place the connector under DDR door

For EC

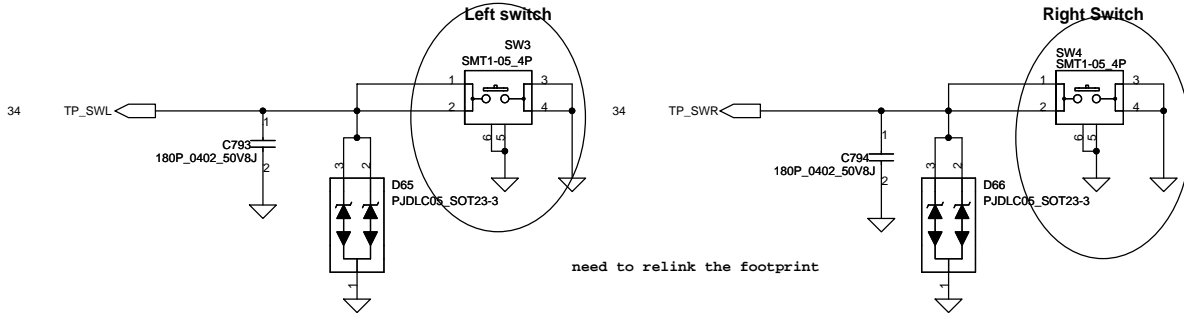


External Flash ROM

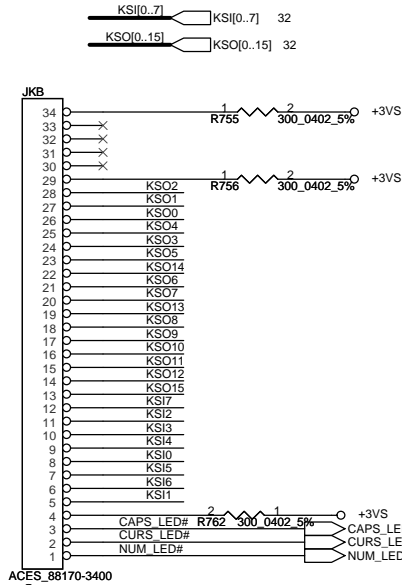
EC SPICLK --- R752 --- C787 --- If these TEST@ components are mounded, please delete R751
@10_0402_5% @4.7P_0402_50V8C



SB_INT_FLASH_SEL	H	L	L	SB_INT_FLASH_SEL	H	L	L
SPI#	L	L	H	INT_FLASH_EN#	L	H	H
EXT_CS#	H	L	H	SPI#	L	L	H
External Flash ROM	STOP	RUN	STOP	INT_SPI_CS#	L	H	H
				External Flash ROM	RUN	STOP	STOP



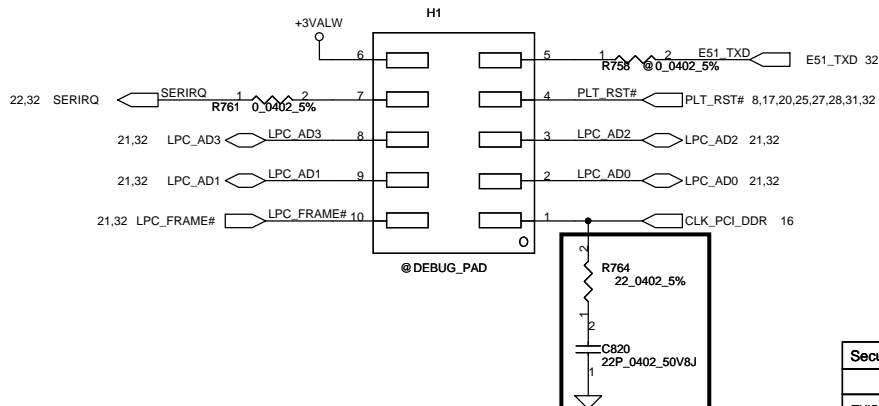
KEYBOARD CONN.



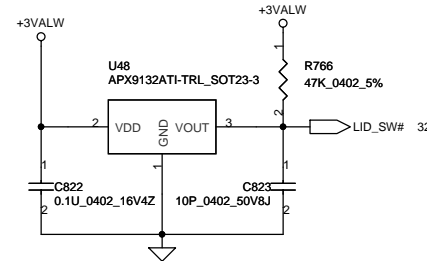
KSO2	C789	100P_0402_50V8J
KSO1	C790	100P_0402_50V8J
KSO0	C791	100P_0402_50V8J
KSO4	C792	100P_0402_50V8J
KSO3	C795	100P_0402_50V8J
KSO5	C796	100P_0402_50V8J
KSO14	C797	100P_0402_50V8J
KSO6	C798	100P_0402_50V8J
KSO7	C799	100P_0402_50V8J
KSO13	C800	100P_0402_50V8J
KSO8	C801	100P_0402_50V8J
KSO9	C802	100P_0402_50V8J
KSO10	C803	100P_0402_50V8J
KSO11	C804	100P_0402_50V8J
KSO12	C805	100P_0402_50V8J
KSO15	C807	100P_0402_50V8J
KSI7	C808	100P_0402_50V8J
KSI2	C810	100P_0402_50V8J
KSI3	C811	100P_0402_50V8J
KSI4	C812	100P_0402_50V8J
KSI0	C813	100P_0402_50V8J
KSI5	C814	100P_0402_50V8J
KSI6	C815	100P_0402_50V8J
KSI1	C816	100P_0402_50V8J
CAPS_LED#	C817	100P_0402_50V8J
CURS_LED#	C818	100P_0402_50V8J
NUM_LED#	C819	100P_0402_50V8J

LPC Debug Port

Please place the PAD under DDR DIMM.

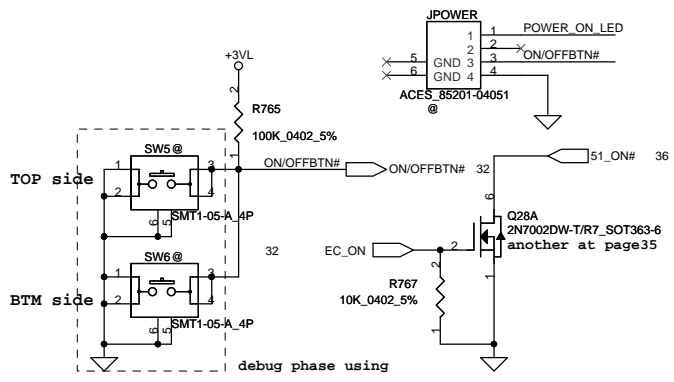


Lid SW

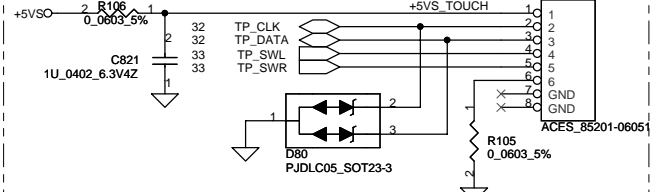


Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number
				401605
				Rev E
Date:	Wednesday, September 16, 2009	Sheet	33	of 43

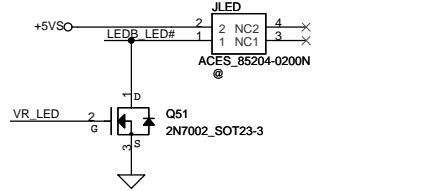
Power Button/ PWR/B



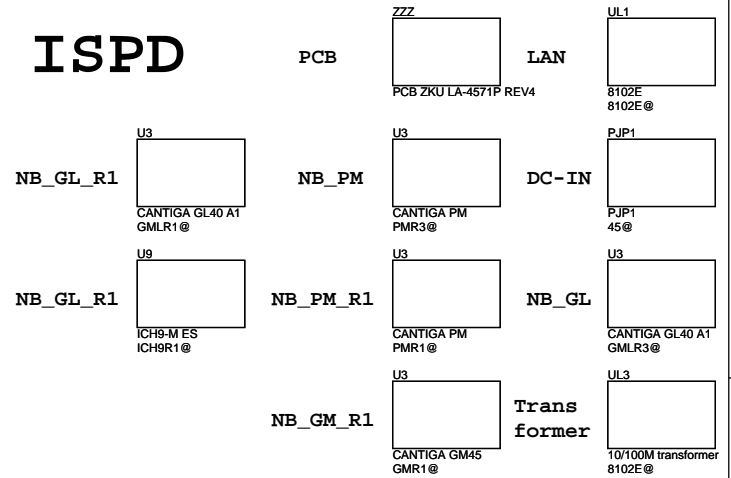
Touch/B Connector



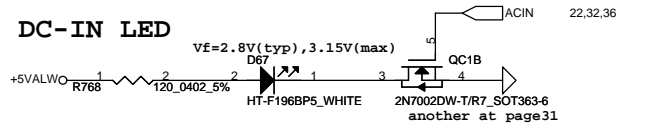
LED/B Connector



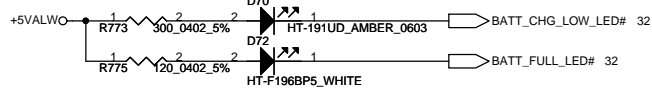
ISPD



DC-IN LED



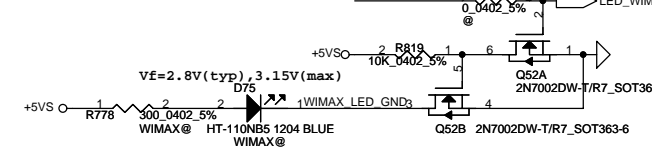
BATT CHARGE/FULL LED



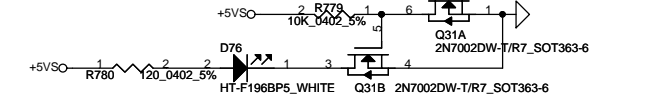
WL&BT LED



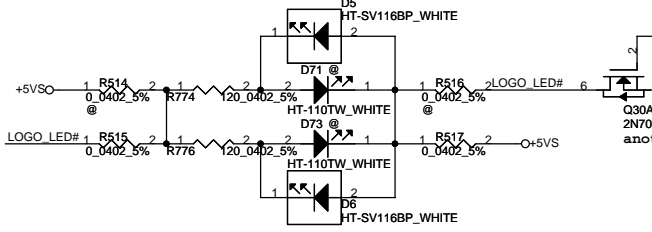
WiMAX LED



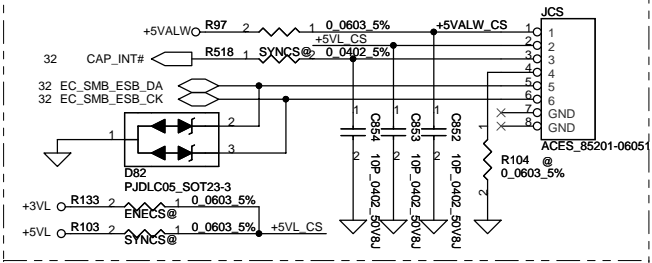
HDD LED



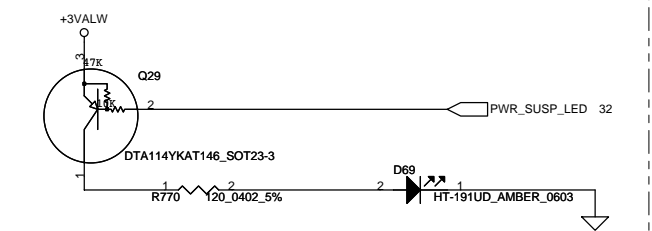
Logo LED



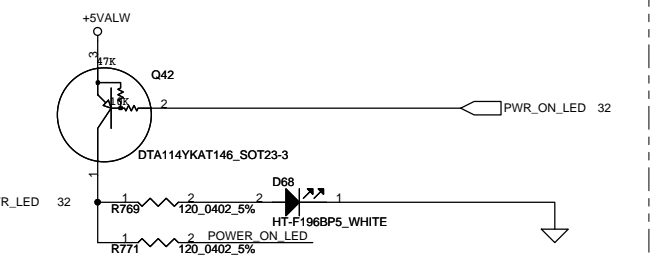
FUN/B Connector



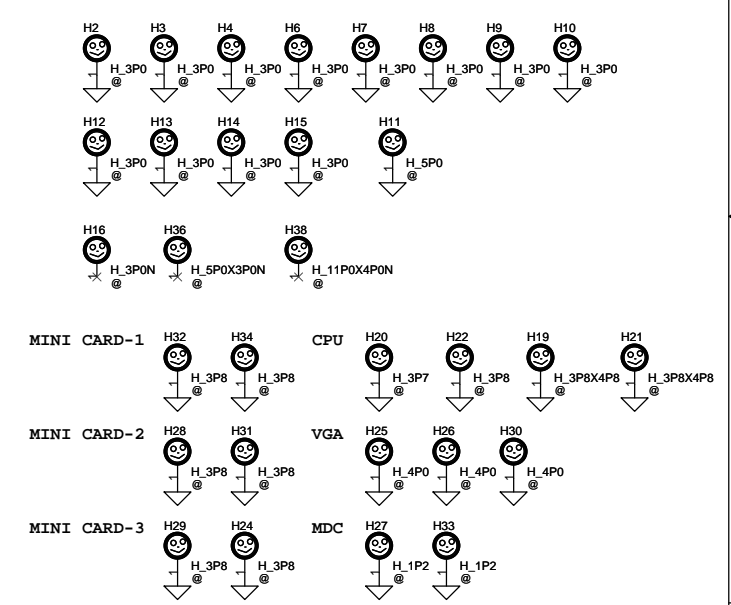
SUSPEND LED



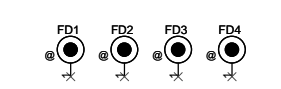
POWER LED



Screw Hole

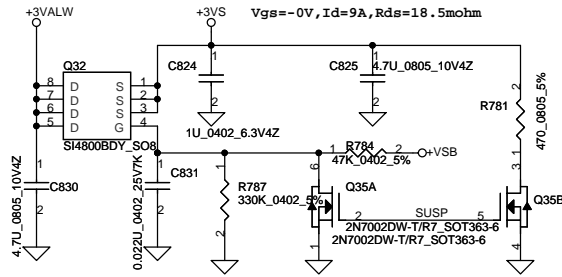


PCB Federal Mark PAD

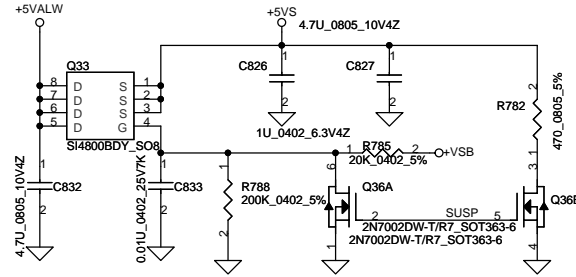


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Document Number	401605		Rev	E	
Date	Wednesday, September 16, 2009	Sheet	34	of 43	

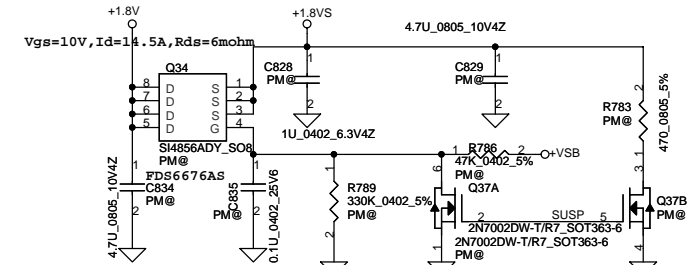
+3VALW TO +3VS



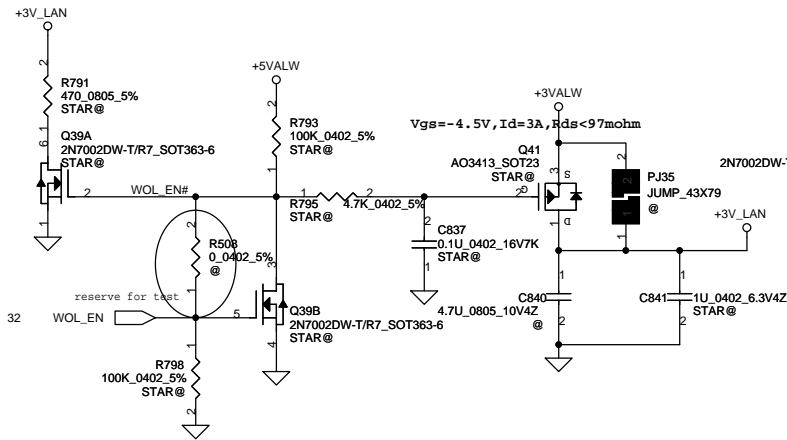
+5VALW TO +5VS



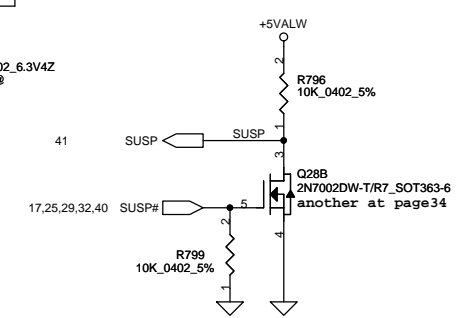
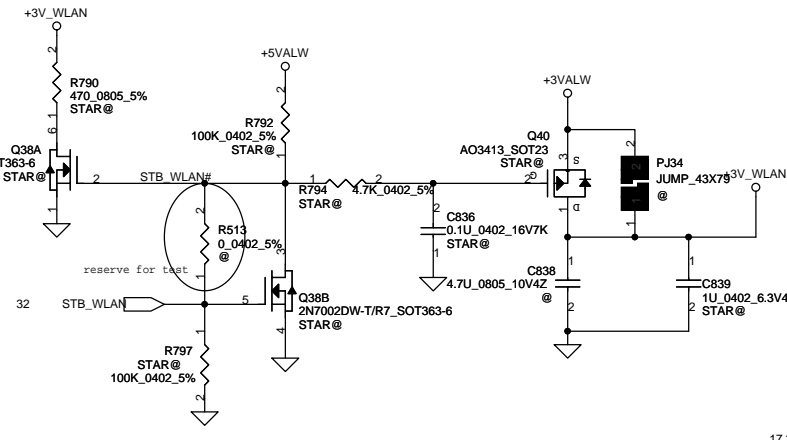
+1.8V to +1.8VS



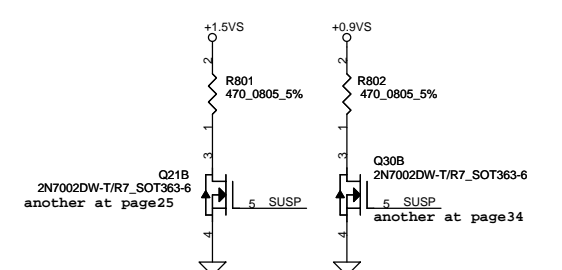
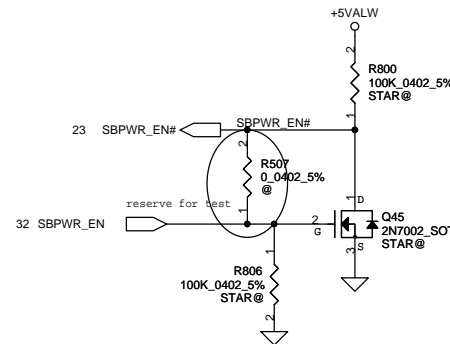
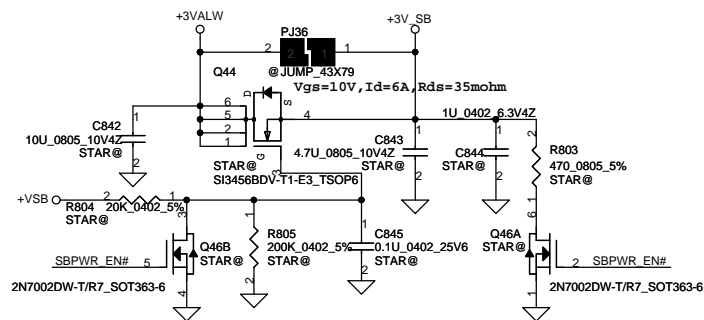
+3VALW TO +3V_LAN



+3VALW TO +3V_WLAN

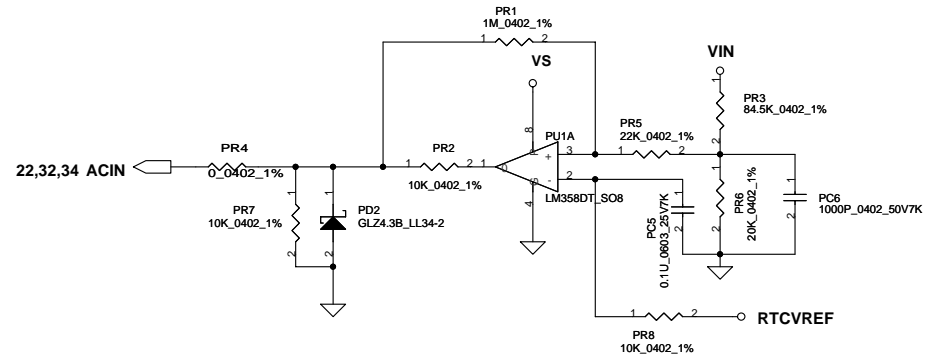
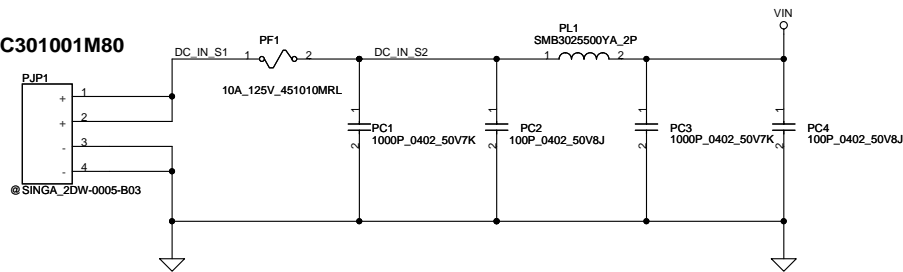


+3VALW TO +3V_SB

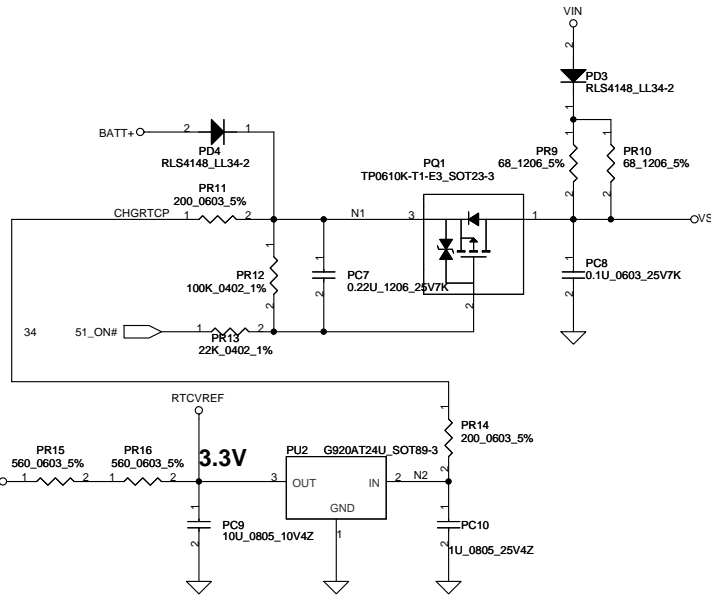


Security Classification		Compal Secret Data		Title	
Issued Date		Deciphered Date		Compal Electronics, Inc.	
2008/09/19		2009/09/19		SCHEMATIC MB A4571	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					
Document Number		Date		Rev	
401605		Wednesday, September 16, 2009		E	
Sheet		of		43	
35		43		43	

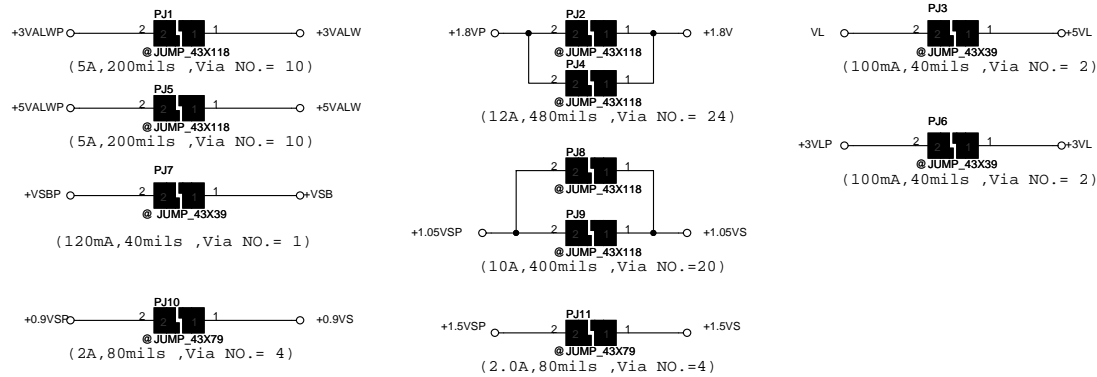
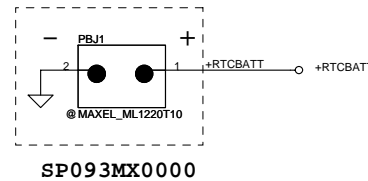
DC301001M80



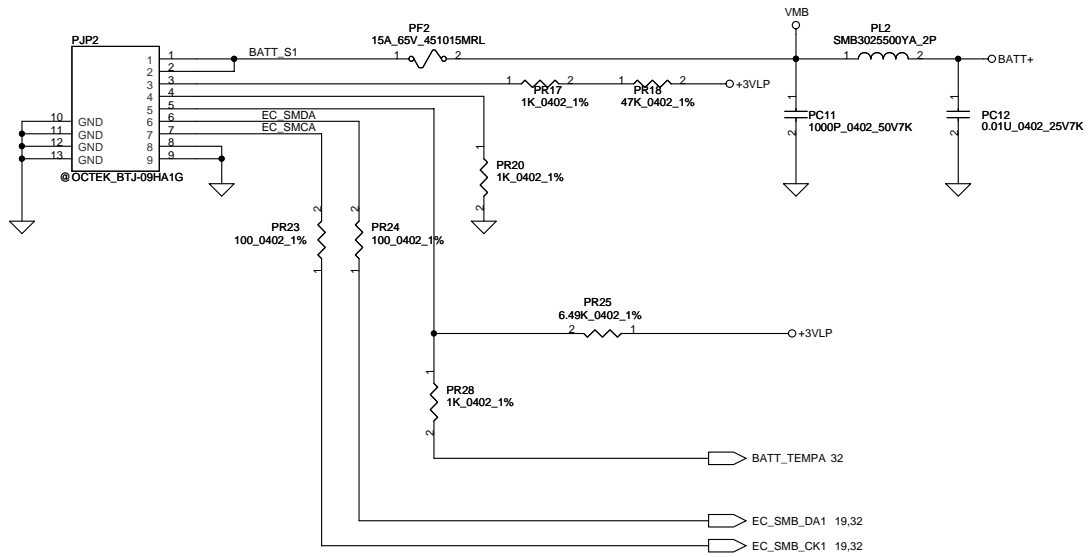
Vin Detector			
High	18.384	17.901	17.430
Low	17.728	17.257	16.976



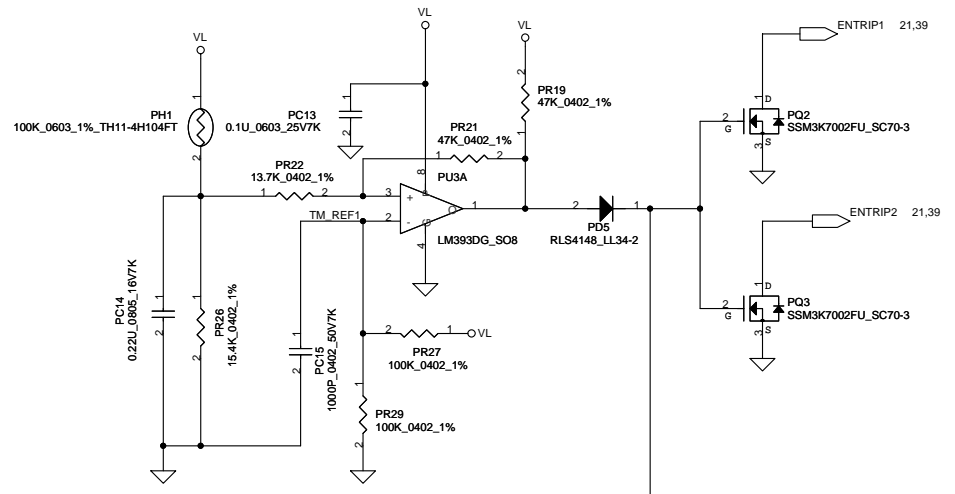
RTC Battery



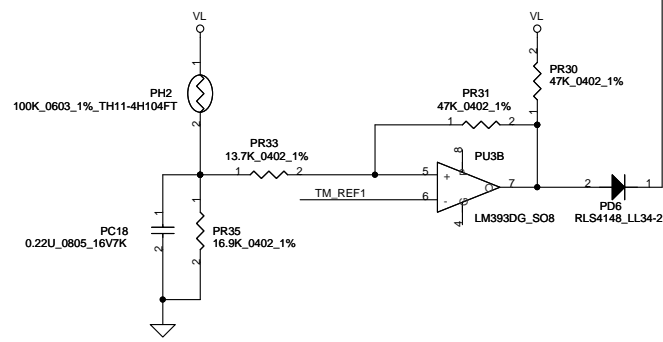
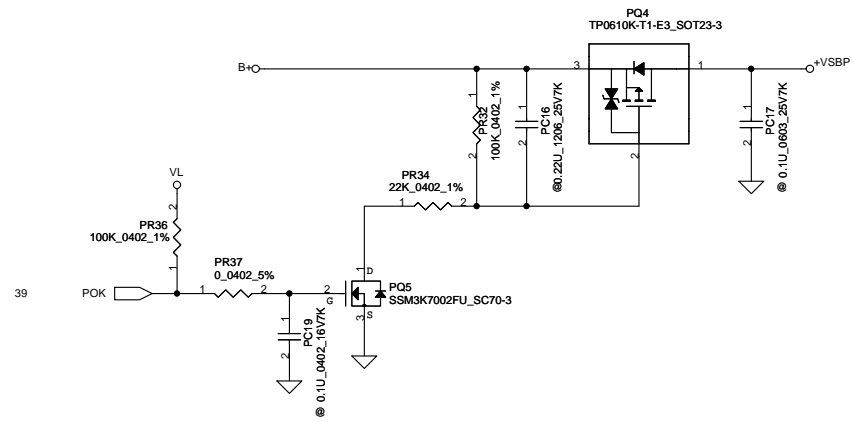
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	401605
Date:	Wednesday, September 16, 2009	Sheet	36	of	43



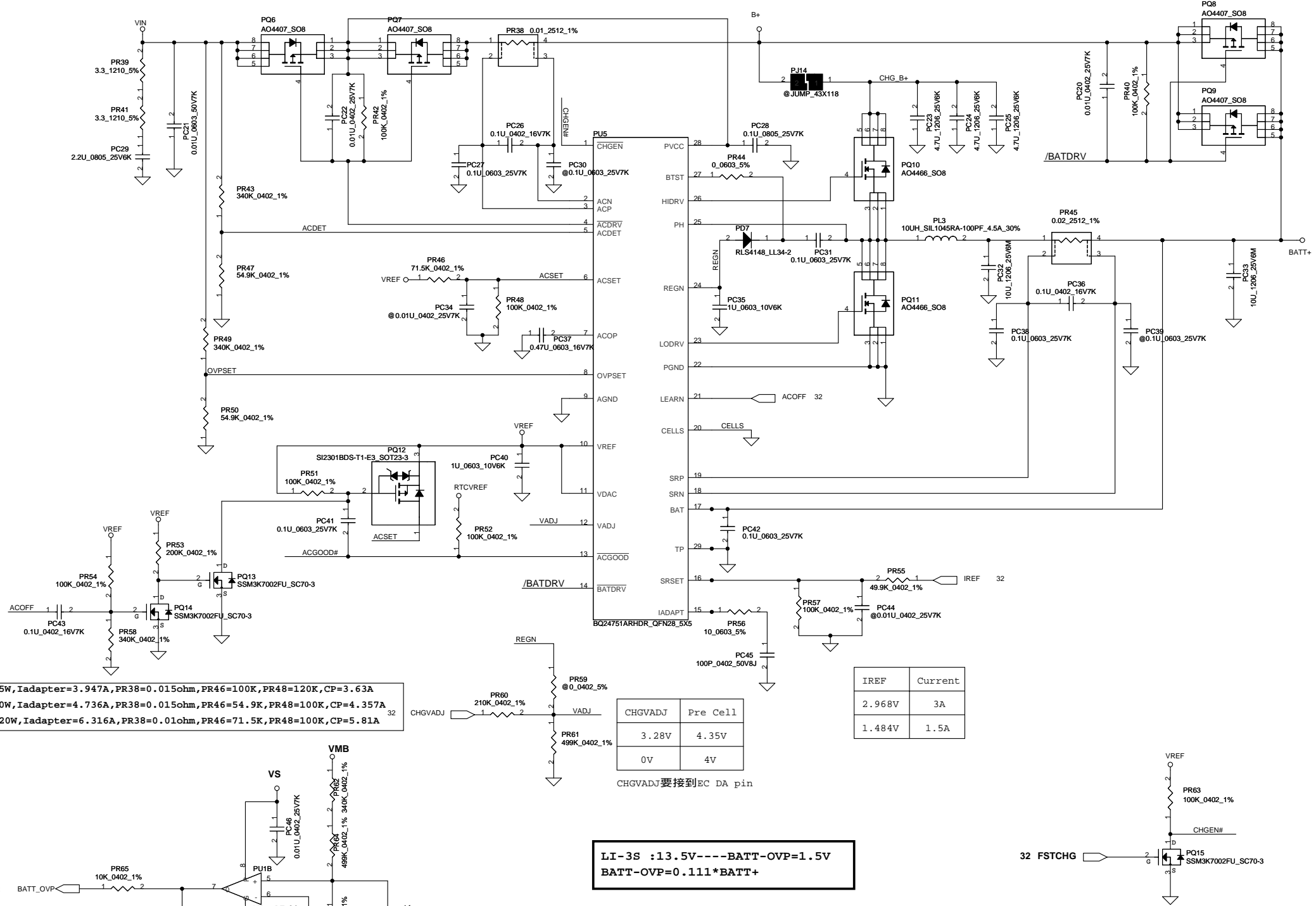
PH1 under CPU bottom side :
 CPU thermal protection at 92 degree C
 Recovery at 56 degree C



PH2 near main Battery CONN :
 BAT. thermal protection at 90 degree C
 Recovery at 53 degree C



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</small>					
				Document Number	401605
				Date:	Wednesday, September 16, 2009
				Sheet	37 of 43
				Rev	E

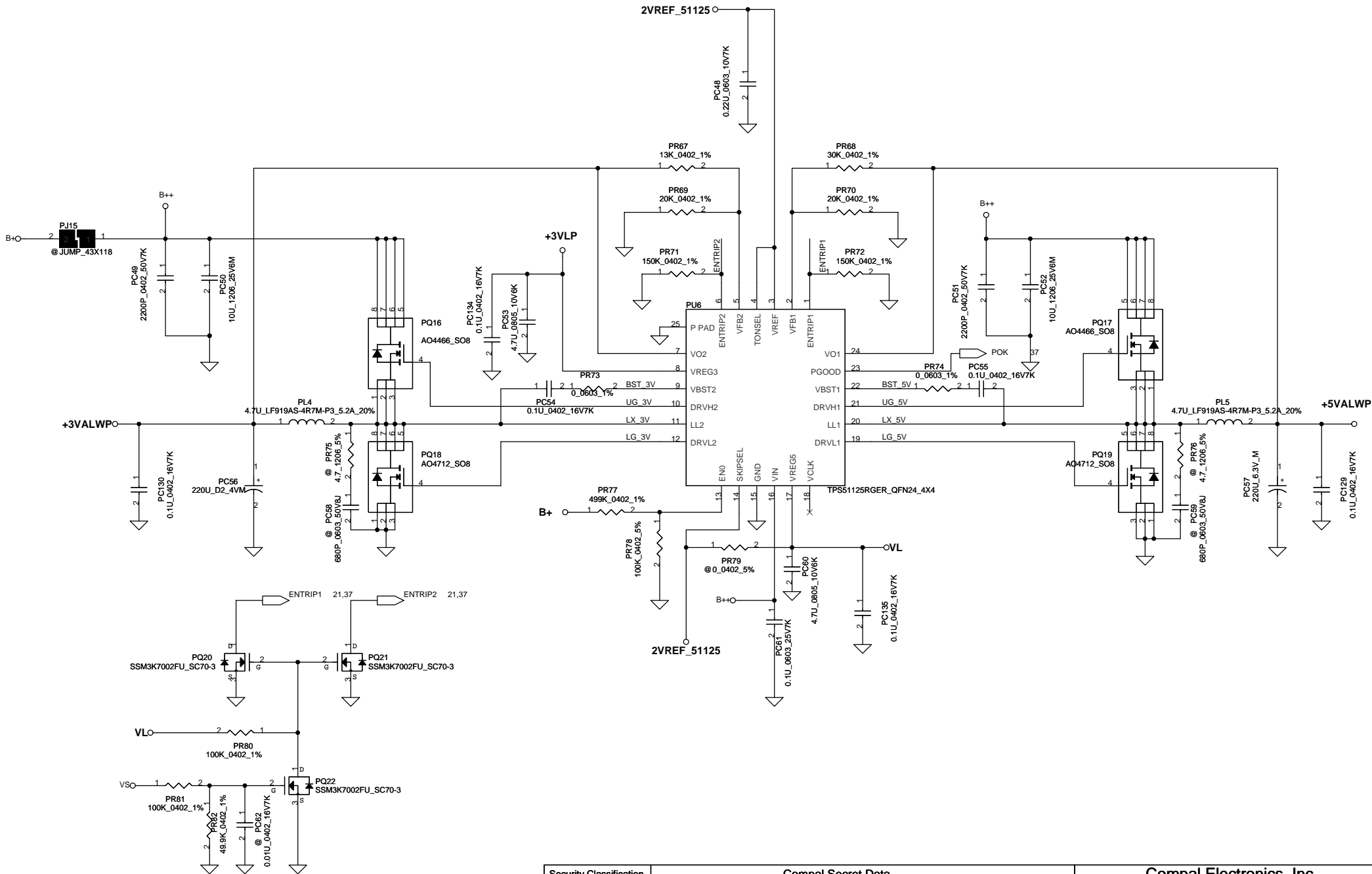


75W, Iadapter=3.947A, PR38=0.015ohm, PR46=100K, PR48=120K, CP=3.63A
 90W, Iadapter=4.736A, PR38=0.015ohm, PR46=54.9K, PR48=100K, CP=4.357A
 120W, Iadapter=6.316A, PR38=0.01ohm, PR46=71.5K, PR48=100K, CP=5.81A

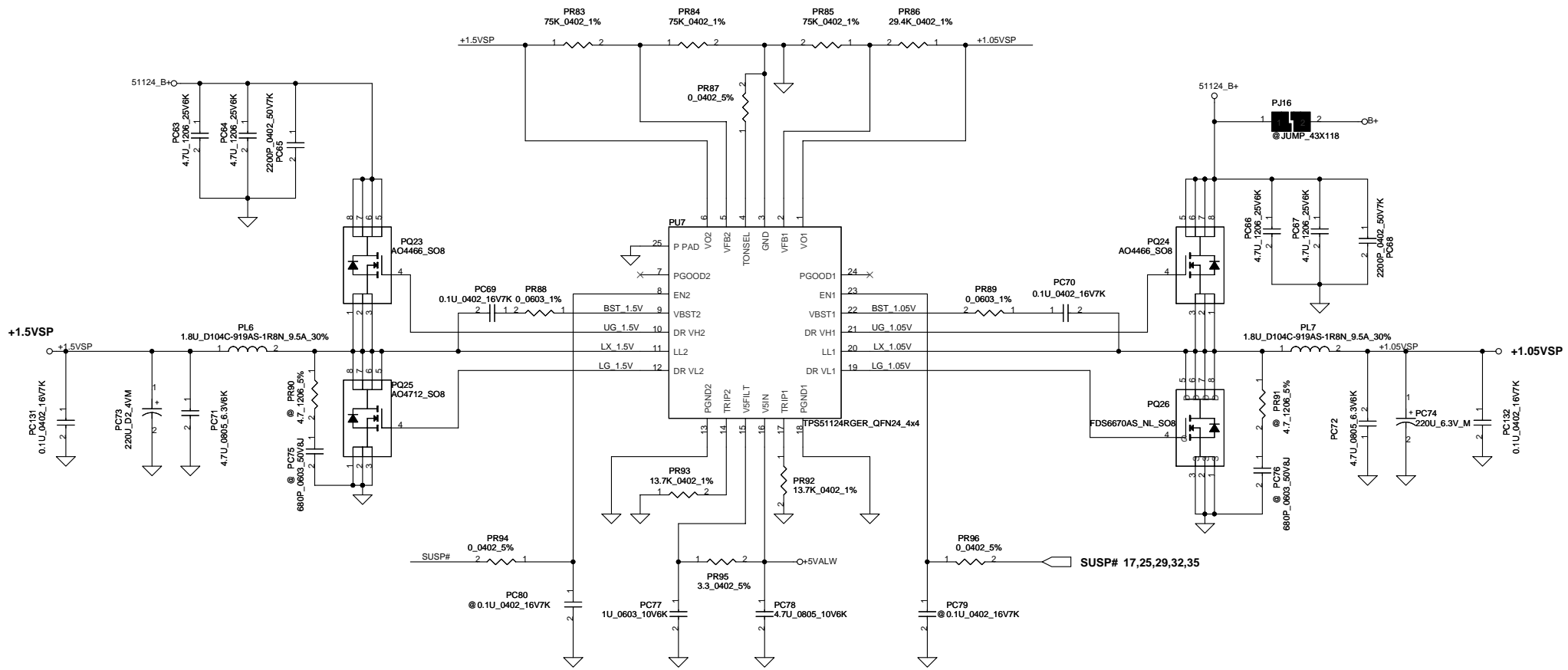
CHGVADJ	Pre Cell
3.28V	4.35V
0V	4V

IREF	Current
2.968V	3A
1.484V	1.5A

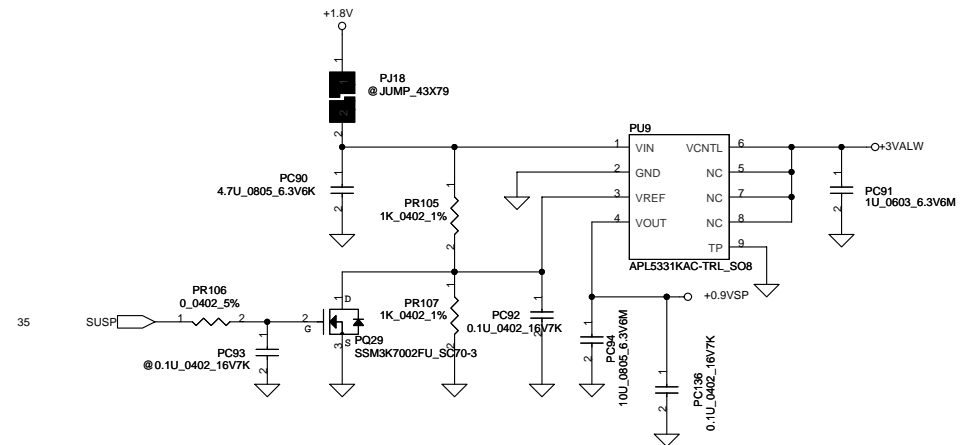
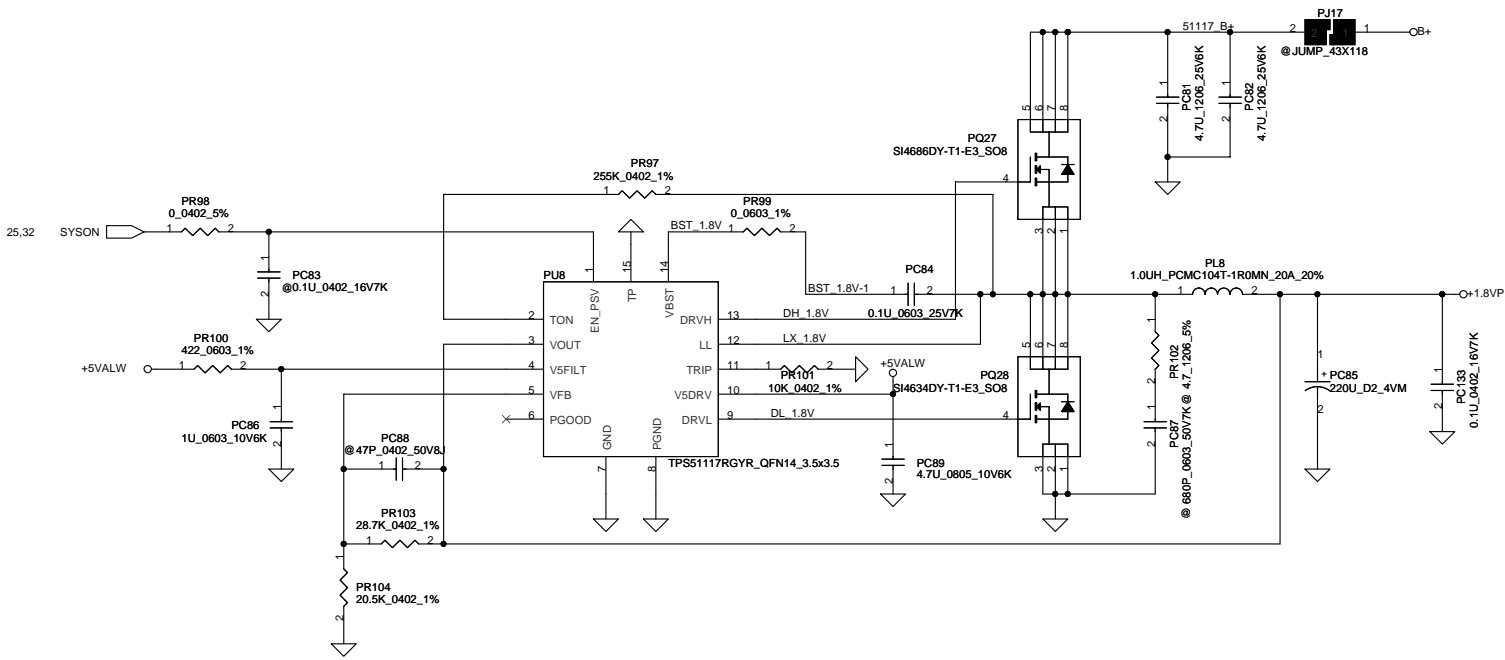
LI-3S :13.5V---BATT-OVP=1.5V
BATT-OVP=0.111*BATT+



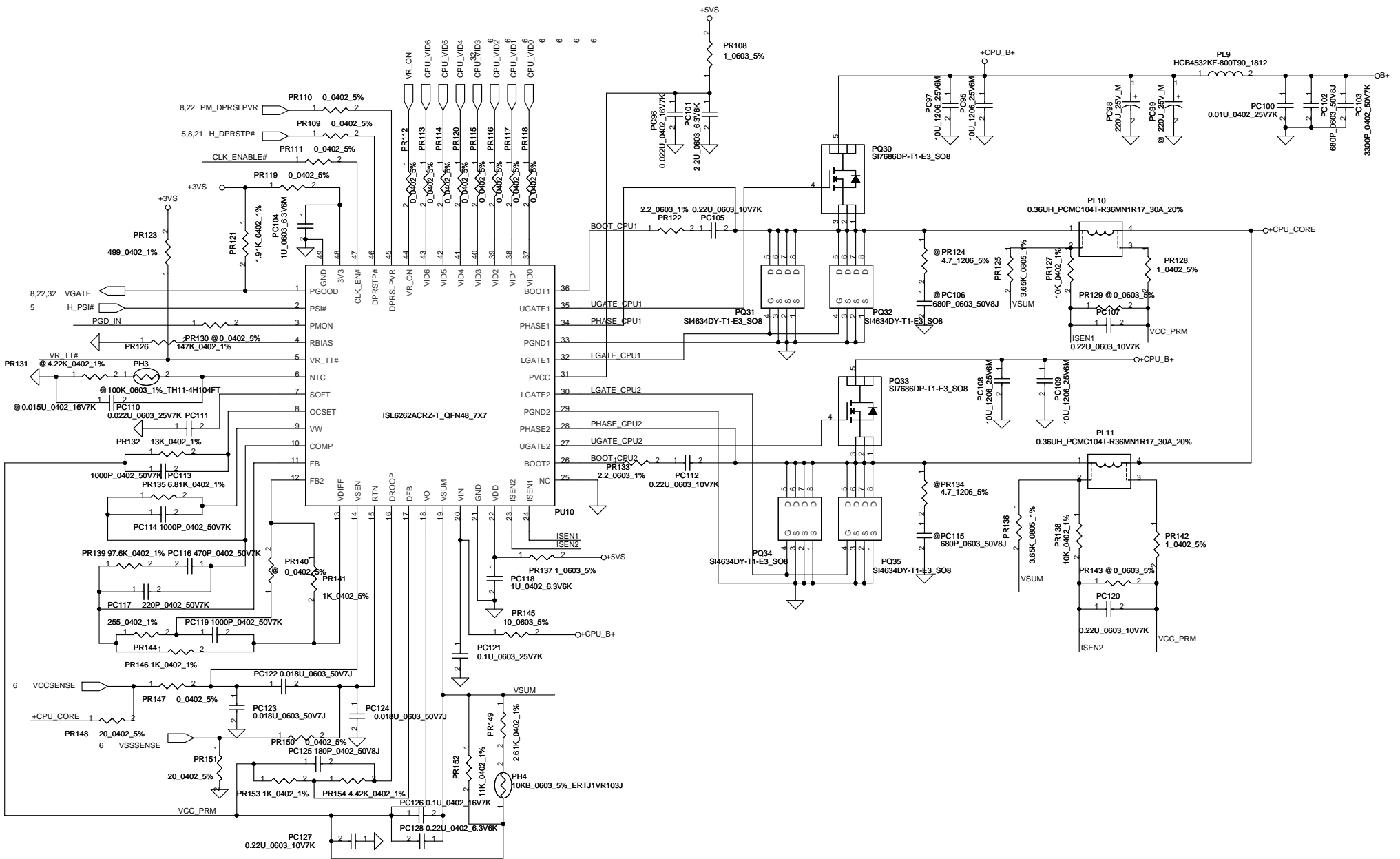
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				401605	E
Date: Wednesday, September 16, 2009				Sheet	39 of 43



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	Title	SCHEMATIC MB A4571
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF 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>					
Document Number	401605			Rev	E
Date:	Wednesday, September 16, 2009	Sheet	40	of	43



Security Classification	Compal Secret Data		Title	Compal Electronics, Inc.
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number 401605 Date: Wednesday, September 16, 2009 Sheet 41 of 43



Security Classification	Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number 401605 Rev E
Date: Wednesday, September 16, 2009				Sheet 42 of 43

PIR (Product Improve Record)

KTKAA LA-4571P SCHEMATIC CHANGE LIST
 REVISION CHANGE: 0.1 TO 0.2

NO	DATE	PAGE	MODIFICATION LIST	PURPOSE
1	6/18	34	change Q29.3 to pull up with +3VALW and R770, R720 to 120ohm	to solve suspend led issue.
2	6/18	27	exchange J3GSIM pin2 and pin3	link to error pin definition.
3	6/18	27	change CM15,CM16 to 10P and un-mount RMI and Cm14.	for customer request.
4	6/24	18	add C849, C850 for EMI request.	for EMI request.
5	6/24	11	add 220u to +1.8V with C78.	reserve for test.
6	6/24	24	add 220u to +USB_VCCB with C79.	reserve for test.
7	6/24	29	add C851 to SPDIF.	for EMI request.
8	6/24	27	link JNAND.39,41 to +3VS,and 39,43 pin link to GND	this is standard pin define
9	6/25	19	change U37 power from +HDMI_5V_OUT to +5VL	for customer request and follow Toshiba design guide with CEC.
10	6/25	27	reserve some circuit for change Mini card 1 and 2	reserve for GPS issue
11	6/26	30	change CA29-CA32 from 0.47u to 0.033u	set high pass frequency to 68Hz

REVISION CHANGE: 0.2 TO 0.3

1	7/19	34	add R506 and Q52 for Wimax LED control	reserve Wimax LED control to avoid MINI card module damage.
2	7/19	35	change R788,R805 from 330K to 200K	reduce the voltage on the Vgs of MOS as AC mode.
3	7/19	35	mount R507 and un-mount Q45,R800,R806	use another control for +5V_SB
4	7/19	23	mount Q16,R593,R594 and un-mount Q12	use another control for +5V_SB
5	7/22	35	add R508,R513	reserve for tset
5	7/22	31	add D77,D78 on 1394 port	reserve for EMI request
6	7/22	26	exchange JFEL all pin	to solve the cable reverse issue
7	7/24	3	delete XDP conn and related compoments	to improve ESD issue
8	7/24	34	add Q42 and link to EC U43.72	to solve the power on LED need 2.S will be light after press power button
9	7/24	31	add Q54,R129,R220,R222,D81 and link to U9.B10,U9.AE8	reserve D3E mode as JMB380
10	7/24	28	add R398,R399,R264 for LAN and link to U9.AH24,U9.C21	reserve LAN saving mode
11	7/24	32	add R757,R130,D79	to avoid glitch issue when KB926 power on
12	7/24	34	add D80	reserve for ESD request
13	7/24	26	add L26,R181,R182 on camera conn.	reserve for EMI request
14	7/24	34	add R514-R517,D5,D6	reserve for LED type option
15	7/25	34	add R97,R103,R518,C852-C854,D82 on CS/B conn	reserve for ESD request
16	7/25	34	add R105,R106 on Touch/B conn	reserve for ESD request
17	7/25	26	add R110,R114 on Finger/B conn	reserve for ESD request
18	7/25	26	add R131,D83 on Felica conn	reserve for ESD request
19	7/25	28	change LAN footprint to "TYCO_2068888-1_12P-T"	for ME team request
20	7/25	31	add R132 and separate support pin of 1394,USB,esATA to IOGND	for ESD request
21	7/25	18	change C680-C685 to 2.2pF	for customer request
22	7/25	26	change R722 form 0ohm to 100Kohm	it's to let the power on first then reset# will be high later to meet spec
23	7/25	34	mount D5,D6,R515,R517 and un-mount D71,D73,R514,R516	change logo LED to high illumination

REVISION CHANGE: 0.3 TO 1.0

1	8/10	27	exchange QM1 Pin2,3	reserve 3G SMI card VPP function.
2	8/10	27	add R820 and link to both JGPS.16 and J3GSIM.5	add more power pin for standard definition
3	8/10	27	link JGPS.24 to +3V_WLAN,link JNAND.24 to +3VS	reduce the forward voltage for HDMI logo Spec.
4	8/10	19	change D8,D53 from RB491D to RB161M	no 0603 type part in Compal Hub and improve the audio performance
5	8/10	30	change CA29-CA32 form 0603 type to 0402	for Layout team request
6	8/10	34	change H19,H21 from 4P8X3P8 to 3P8X4P8	change camera power to +5VS for energy star
7	8/10	26	add R821 and link +5VS to +CAM_VDD	for DFX request to easy check when SMT
8	8/11	11	change C72,C73,C78,C79,C146 Footprint to C_PXC6P3VC220MF60	2008 no amber LED on power button
9	8/11	34	delete R772	follow Intel design guide when no XDP schematic
10	8/18	4	change R4-R7 from 49.9ohm to 54.9ohm	to solve measure HDMI logo can't be detected with test implement
11	8/18	19	Change RV67 from 10K to 2.2Kohm	solve EMI issue
12	8/18	19	use common choke(L9-L12) to replace 0ohm	to solve the word is blurred when CRT mode
13	8/18	18	change L18-L20 to high speed bead	solve EMI issue
14	8/18	21	mount EMI SSIC and related compoments for Bit_CLK	for EMI request
15	8/18	33	mount C793,C794	to solve VGA/B external thermal sensor can't normal work when VGA chip is very high temp.
16	8/18	34	change C831 from 0.01u to 0.022u	enable D3E mode
17	8/31	31	change D81 to 0805_0	expand PM_PWROK voltage from 2.4V to 3.05V
18	8/31	32	change R130 form 10K to 2.2K	for EMI request
19	9/5	30	mount CA40 and CA41 to 120P	set right strap pin when no IHDMI SKU
20	9/5	8	change R62 BOM config from GM@ to IHDMI@	solve some CRT device will appear most resolution when CRT only mode
21	9/8	18	change R674 from 10K to 0ohm	

REVISION CHANGE: 1.0 TO 2.0

1	9/19	27	change JGPS power from +3V_WLAN to +3VS	Solve GPS disappear when link 850Mhz only
2.	9/19	N/A	change PCB from 6 layer to 8 layer	imporve EMI and slove assembly procedure not easy issue

Security Classification	Compal Secret Data		Title	
Issued Date	2008/09/19	Deciphered Date	2009/09/19	SCHEMATIC MB A4571
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number 401605 Rev E
Date:	Wednesday, September 16, 2009	Sheet	43	of 43