

# Compal Confidential

## Churchill 13.3" M/B Schematics Document

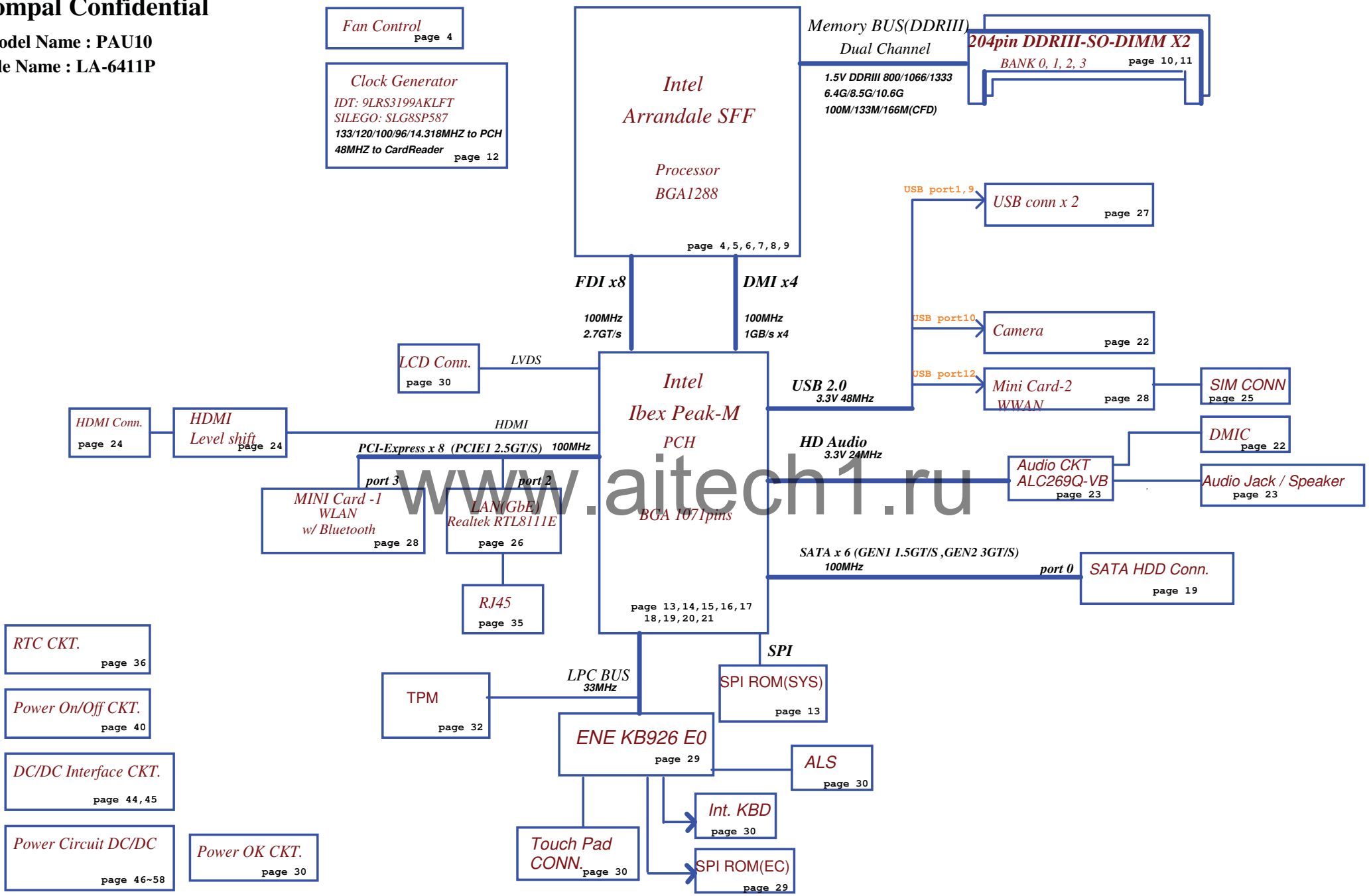
### Intel Arrandale SFF Processor with DDRIII + Ibex Peak-M

www.aitech1.ru

2010-03-31

REV : 0 . 1

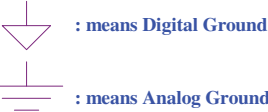
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	Cover Page	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Rev	Document Number	Rev
				0.1	LA-6411P	0.1
Date: Wednesday, March 31, 2010				Sheet	1	of 43



Voltage Rails ( O MEANS ON X MEANS OFF )

<div>power plane</div> <div>State</div>	+RTCVCC	B+	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VGFX_CORE +VCCP +CPU_CORE +1.05VS +1.8VS +0.75VS +1.5V_CPU
S0	O	O	O	O	O
S3 / DC	O	O	O	O	X
S3 / AC	O	O	O	O	X
S5 S4/AC	O	O	O	X	X
S5 S4/ Battery only	O	O	X	X	X
S5 S4/AC & Battery don't exist	O	X	X	X	X

Symbol Note :



@ : means just reserve , no build  
CONN@ : means ME part.

Install below 45 level BOM structure for ver. 0.1

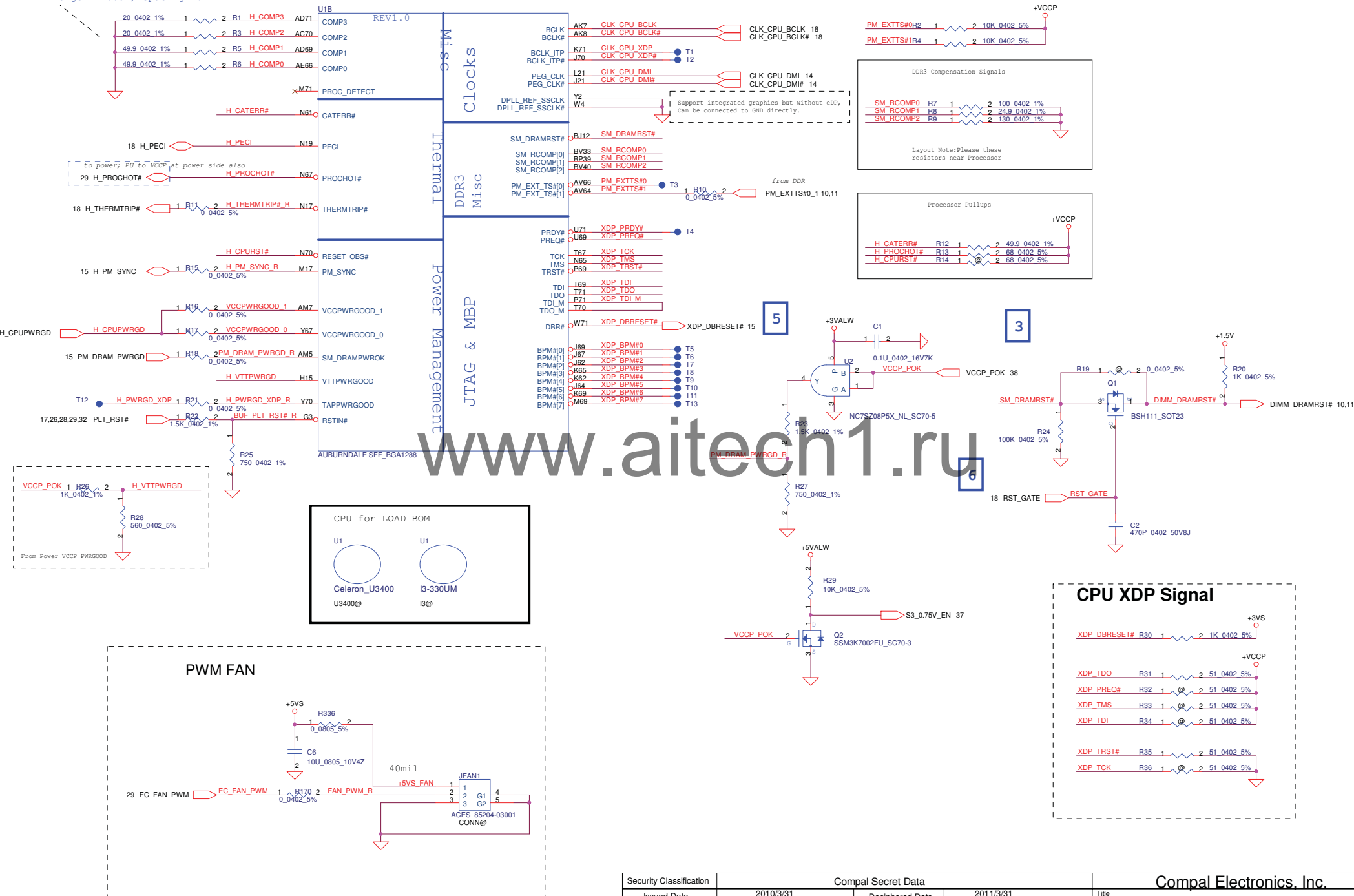
45@ : means just put it in the BOM of 45 level.

www.aitech1.ru Install below 43 level BOM structure for ver. 0.1

SMBUS Control Table

	SOURCE	BATT	SODIMM	CLKGEN	G-SENSOR
SMB_EC_CK1 SMB_EC_DA1	EC	V	X	X	V
SMBCLK SMBDATA	Calpella	X	V	V	X
SML1CLK SML1DATA	Calpella	X	X	X	X

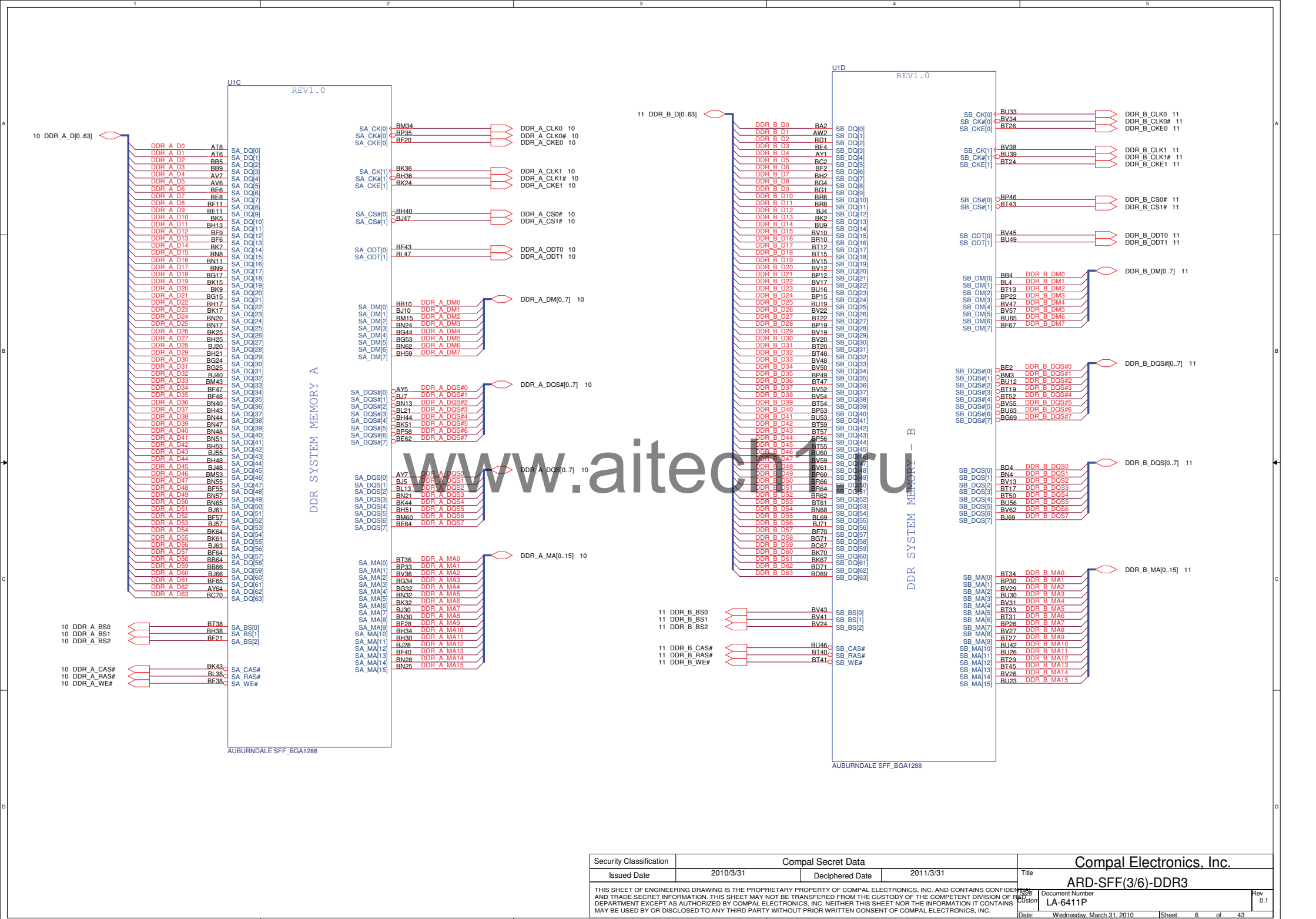
```
Layout rule: 10mil width trace
length < 0.5", spacing 20mil
```



Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date		2010/3/31	Deciphered Date		2011/3/31	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.						ARD-SFF(1/6)-Thermal/XDP
						Document Number
						LA-6411P
Date: Wednesday, March 31, 2010						Sheet 4 of 43

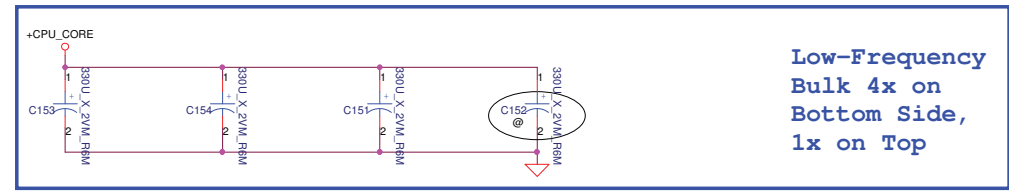
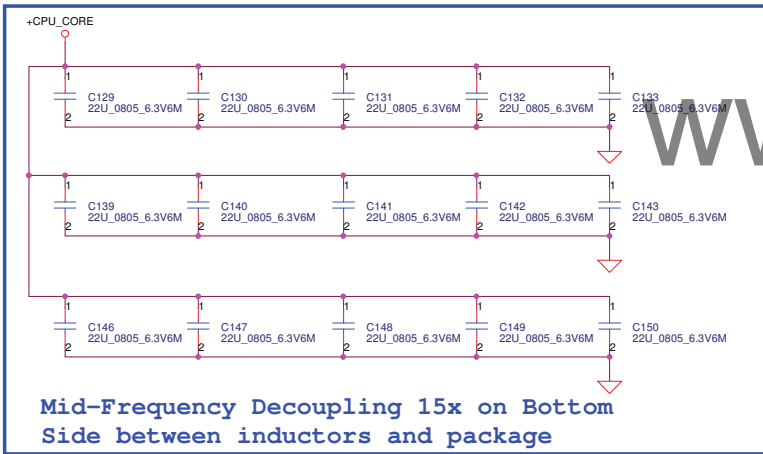
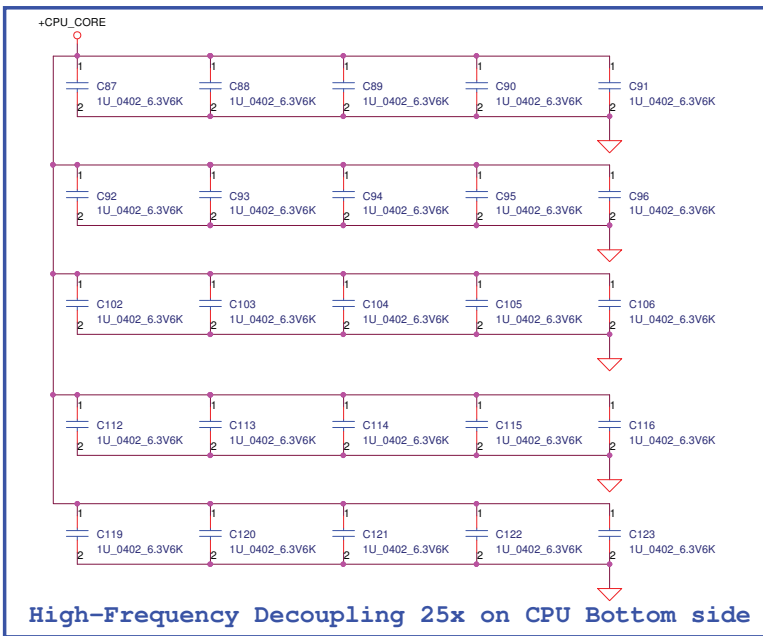


Security Classification		Compal Secret Data				Compal Electronics, Inc.			
Issued Date		2010/3/31		Deciphered Date		2011/3/31		Title	
								ARD-SFF(2/6)-DMI/PEG/CFG	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FACTORY MANAGEMENT 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.						Doc Number		Rev	
						LA-6411P		0.1	
						Date		Wednesday, March 31, 2010	
						Sheet		5 of 43	

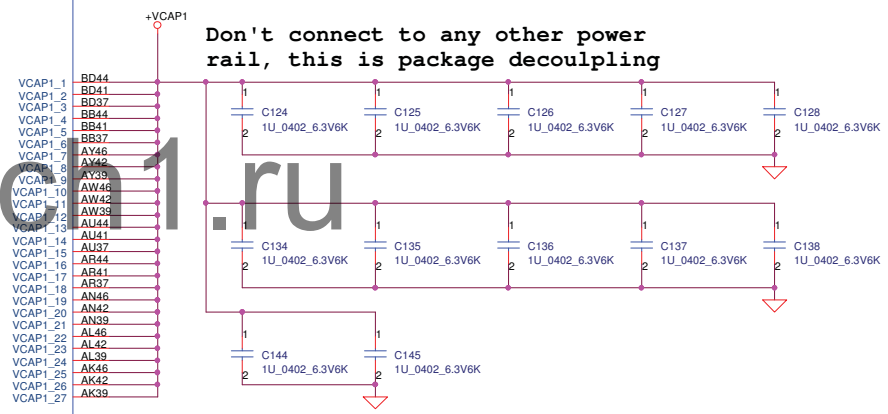
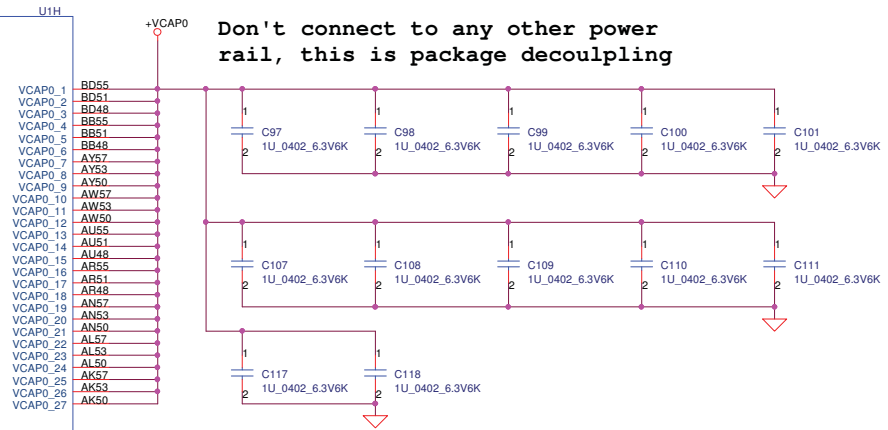
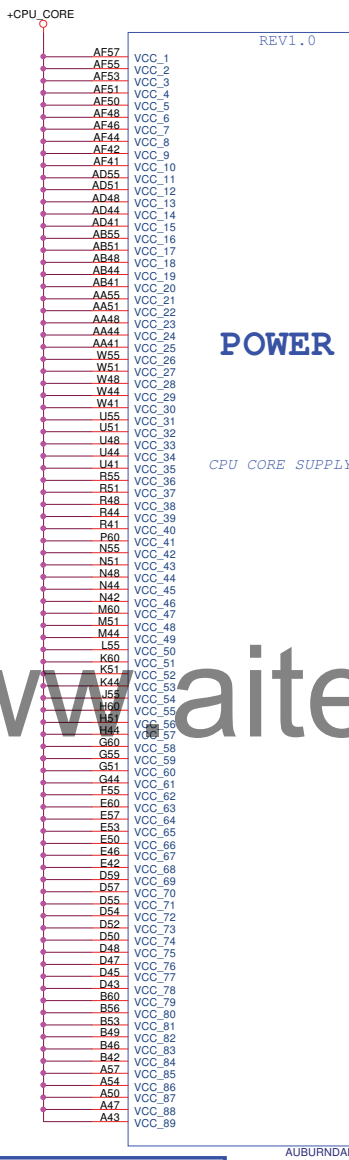








Current =274A



Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date		2010/3/31	Deciphered Date	2011/3/31	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 HEADQUARTERS OR ANY OTHER DIVISION OF COMPAL ELECTRONICS, INC. WITHOUT THE WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					ARD-SFF(5/6)-Bypass		
					Docu	Document Number	Rev
					LA-6411P	0.1	
					Date	Wednesday, March 31, 2010	Sheet



U11		REV1.0	AY24
BU62	VSS1	VSS90	AY24
BU58	VSS2	VSS91	AY23
BU55	VSS3	VSS92	AY21
BU51	VSS4	VSS93	AY19
BU48	VSS5	VSS94	AY17
BU44	VSS6	VSS95	AY15
BU37	VSS7	VSS96	AY14
BU32	VSS8	VSS97	AY12
BU25	VSS9	VSS98	AY8
BU21	VSS10	VSS99	AY4
BU18	VSS11	VSS100	AW67
BU14	VSS12	VSS101	AW62
BU11	VSS13	VSS102	AW59
BU7	VSS14	VSS103	AW55
BP42	VSS15	VSS104	AW51
BN64	VSS16	VSS105	AW44
BN6	VSS17	VSS106	AW41
BM70	VSS18	VSS107	AW37
BM41	VSS19	VSS108	AW32
BM44	VSS20	VSS109	AV9
BM32	VSS21	VSS110	AV1
BM24	VSS22	VSS111	AU70
BM17	VSS23	VSS112	AU62
BL57	VSS24	VSS113	AU57
BL55	VSS25	VSS114	AU53
BL48	VSS26	VSS115	AU50
BL40	VSS27	VSS116	AU46
BL28	VSS28	VSS117	AU42
BL20	VSS29	VSS118	AU39
BK63	VSS30	VSS119	AU35
BK60	VSS31	VSS120	AU33
BK53	VSS32	VSS121	AU32
BK34	VSS33	VSS122	AU28
BK10	VSS34	VSS123	AU26
BJ64	VSS35	VSS124	AU24
BJ21	VSS36	VSS125	AU23
BJ9	VSS37	VSS126	AU21
BJ1	VSS38	VSS127	AU19
BH70	VSS39	VSS128	AU17
BH57	VSS40	VSS129	AU15
BH47	VSS41	VSS130	AU14
BH24	VSS42	VSS131	AU4
BH15	VSS43	VSS132	AT64
BG51	VSS44	VSS133	AT10
BG36	VSS45	VSS134	AR62
BF62	VSS46	VSS135	AR57
BF30	VSS47	VSS136	AR53
BF13	VSS48	VSS137	AR50
BF8	VSS49	VSS138	AR46
BE70	VSS50	VSS139	AN51
BE65	VSS51	VSS140	AN48
BE9	VSS52	VSS141	AN44
BE1	VSS53	VSS142	AN41
BD57	VSS54	VSS143	AN37
BD53	VSS55	VSS144	AN5
BD50	VSS56	VSS145	AN4
BD46	VSS57	VSS146	AM64
BD39	VSS58	VSS147	AM8
BD14	VSS59	VSS148	AL62
BB71	VSS60	VSS149	AL51
BB62	VSS61	VSS150	AL46
BB57	VSS62	VSS151	AL44
BB53	VSS63	VSS152	AL41
BB50	VSS64	VSS153	AL37
BB46	VSS65	VSS154	AL35
BB39	VSS66	VSS155	AL33
BB7	VSS67	VSS156	AL1
BB1	VSS68	VSS157	AK70
BA70	VSS69	VSS158	AK64
AY71	VSS70	VSS159	AK55
AY66	VSS71	VSS160	AK51
AY62	VSS72	VSS161	AK48
AY59	VSS73	VSS162	AK44
AY55	VSS74	VSS163	AK41
AY51	VSS75	VSS164	AK37
AY48	VSS76	VSS165	AK32
AR39	VSS77	VSS166	AK30
AR35	VSS78	VSS167	AK28
AR32	VSS79	VSS168	AK26
AR30	VSS80	VSS169	AK24
AR28	VSS81	VSS170	AK23
AR26	VSS82	VSS171	AK21
AR24	VSS83	VSS172	AK19
AR21	VSS84	VSS173	AK17
AR17	VSS85	VSS174	AK15
AR15	VSS86	VSS175	AJ70
AR14	VSS87	VSS176	AH62
AR4	VSS88	VSS177	AH57
AP70	VSS89	VSS178	AH55
AP64	VSS90	VSS179	AV66
AN62	VSS91	VSS180	AV64
AN55	VSS92	VSS181	BT68
AY44	VSS93	VSS182	BR69
AY37	VSS94	VSS183	BR68
AY35	VSS95	VSS184	BN71
AY33	VSS96	VSS185	BR3
AY32	VSS97	VSS186	BN1
AY30	VSS98	VSS187	BL71
AY28	VSS99	VSS188	BL1
AY26	VSS89	VSS189	R14
		VSS190	H71
		VSS191	F69
		VSS192	F68
		VSS193	VSS216
		VSS194	VSS217
		VSS195	VSS218
		VSS196	VSS219
		VSS197	VSS220

VSS

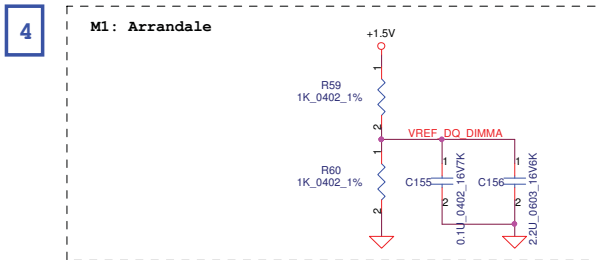
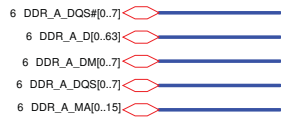
AUBURNDALE SFF\_BGA1288

U1J		REV1.0	A40
AH53	VSS202	VSS404	A40
AH51	VSS203	VSS405	A36
AH50	VSS204	VSS406	A33
AH48	VSS205	VSS407	A29
AH46	VSS206	VSS408	A28
AH44	VSS207	VSS409	A22
AH42	VSS208	VSS410	A19
AH41	VSS209	VSS411	A15
AH39	VSS210	VSS412	A12
AH37	VSS211	VSS413	A8
AH35	VSS212	VSS414	B62
AH33	VSS213	VSS415	B58
AH32	VSS214	VSS416	B55
AH30	VSS215	VSS417	B51
AH28	VSS216	VSS418	B48
AH26	VSS217	VSS419	B44
AH24	VSS218	VSS420	B39
AH23	VSS219	VSS421	A52
AH21	VSS220	VSS422	A48
AH19	VSS221	VSS423	A45
AH17	VSS222	VSS424	AA17
AH15	VSS223	VSS425	AA15
AH14	VSS224	VSS426	AA14
AG64	VSS225	VSS427	AA4
AG8	VSS226	VSS428	W69
AF69	VSS227	VSS429	W62
AF62	VSS228	VSS430	W57
AF1	VSS229	VSS431	W53
AE70	VSS230	VSS432	W50
AE64	VSS231	VSS433	W46
AD62	VSS232	VSS434	W42
AD57	VSS233	VSS435	W6
AD53	VSS234	VSS436	W1
AD50	VSS235	VSS437	V70
AD46	VSS236	VSS438	U64
AD42	VSS237	VSS439	U62
AD4	VSS238	VSS440	U57
AC67	VSS239	VSS441	U53
AC64	VSS240	VSS442	U50
AC5	VSS241	VSS443	U46
AC10	VSS242	VSS444	U42
AC5	VSS243	VSS445	U39
AB70	VSS244	VSS446	U9
AB62	VSS245	VSS447	U4
AB57	VSS246	VSS448	T1
AB53	VSS247	VSS449	R70
AB50	VSS248	VSS450	R62
AB46	VSS249	VSS451	R57
AB42	VSS250	VSS452	R53
AB39	VSS251	VSS453	R50
AB37	VSS252	VSS454	R46
AB35	VSS253	VSS455	R42
AB33	VSS254	VSS456	R5
AB32	VSS255	VSS457	P4
AB30	VSS256	VSS458	N63
AB28	VSS257	VSS459	N57
AB26	VSS258	VSS460	N53
AB24	VSS259	VSS461	N50
AB23	VSS260	VSS462	N46
AB21	VSS261	VSS463	N30
AB19	VSS262	VSS464	N21
AB17	VSS263	VSS465	M15
AB15	VSS264	VSS466	M53
AB14	VSS265	VSS467	M42
AB9	VSS266	VSS468	M36
AB6	VSS267	VSS469	M1
AA64	VSS268	VSS470	L70
AA62	VSS269	VSS471	L57
AA57	VSS270	VSS472	L48
AA53	VSS271	VSS473	L47
AA50	VSS272	VSS474	L13
AA46	VSS273	VSS475	K64
AA42	VSS274	VSS476	K53
AA39	VSS275	VSS477	K43
AA37	VSS276	VSS478	K36
AA35	VSS277	VSS479	K34
AA33	VSS278	VSS480	K32
AA32	VSS279	VSS481	K25
AA30	VSS280	VSS482	K17
AA26	VSS281	VSS483	K11
AA24	VSS282	VSS484	K6
AA23	VSS283	VSS485	J85
AA21	VSS284	VSS486	J57
AA19	VSS285	VSS487	J48
AA17	VSS286	VSS488	J47
F20	VSS287	VSS489	J40
F4	VSS288	VSS490	J9
E37	VSS289	VSS491	J53
E33	VSS290	VSS492	H43
E30	VSS291	VSS493	H36
E16	VSS292	VSS494	H1
E12	VSS293	VSS495	G70
D41	VSS294	VSS496	G57
D38	VSS295	VSS497	G53
D34	VSS296	VSS498	G47
D31	VSS297	VSS499	G43
D27	VSS298	VSS500	G30
D24	VSS299	VSS501	G24
D20	VSS300	VSS502	G20
D17	VSS301	VSS503	G15
D13	VSS302	VSS504	F61
D6	VSS303	VSS505	F47
B65	VSS304	VSS506	F28
B40	VSS305	VSS507	

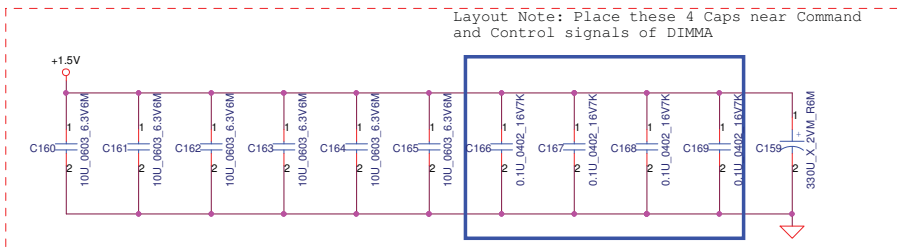
VSS

AUBURNDALE SFF\_BGA1288

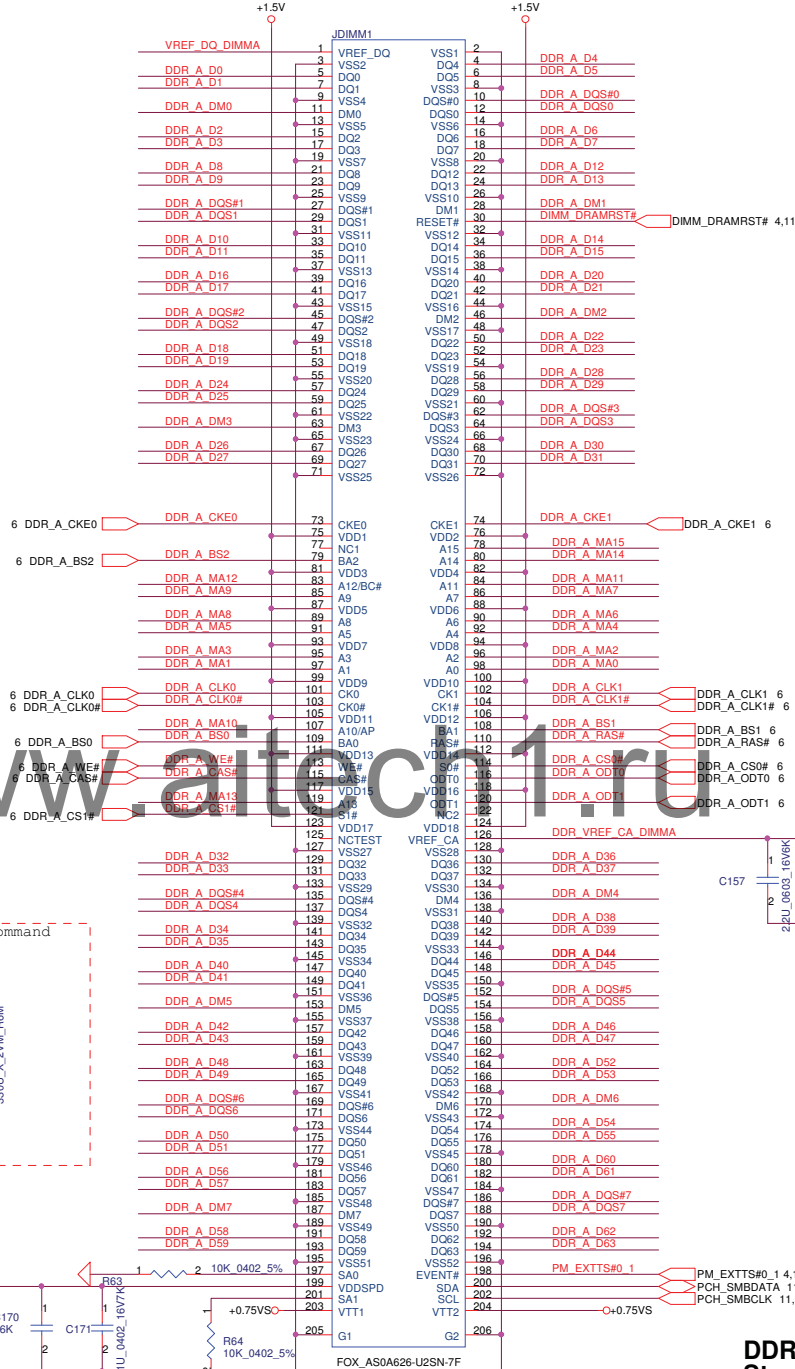
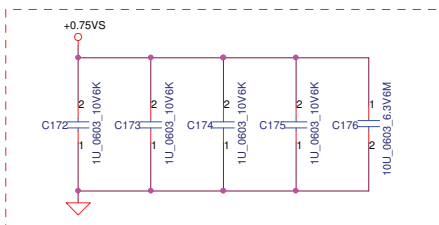
Security Classification		Compal Secret Data		Title	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. IT SHALL NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FACTORY 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
				LA-6411P	0.1
				Date: Wednesday, March 31, 2010	Sheet 9 of 43



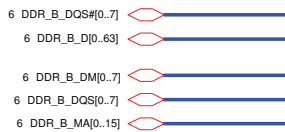
**Layout Note:**  
Place near JDIMM1



**Layout Note:**  
Place near JDIMM1.203 & JDIMM1.204

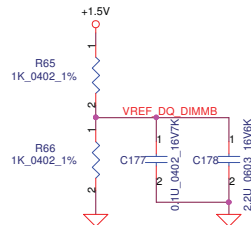


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	DDRIII SO-DIMM A	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number LA-6411P	Rev 0.1
				Date: Wednesday, March 31, 2010	Sheet 10 of 43



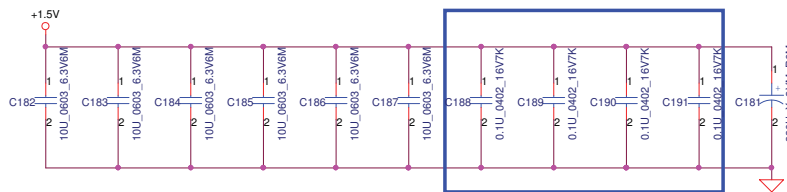
4

M1: Arrandale

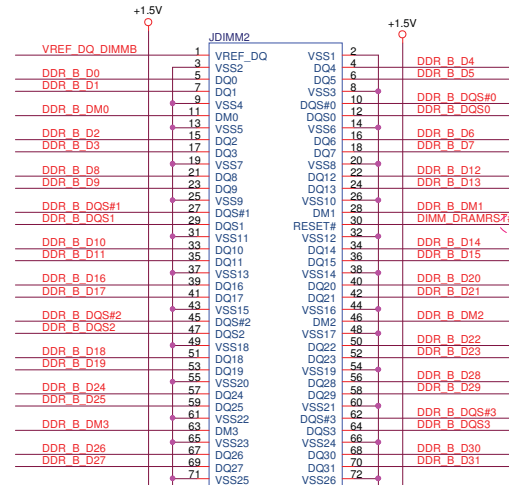
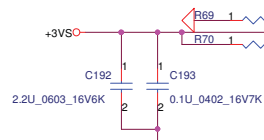
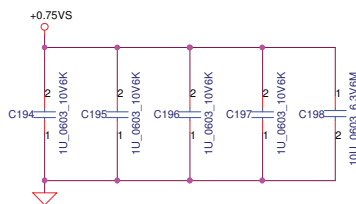


Layout Note:  
Place near JDIMM2

Layout Note: Place these 4 Caps near Command  
and Control signals of DIMMB

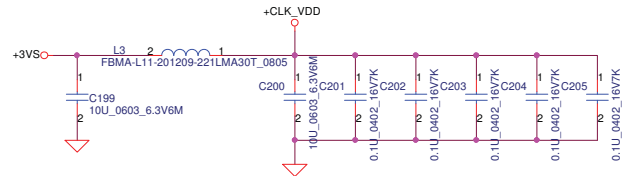
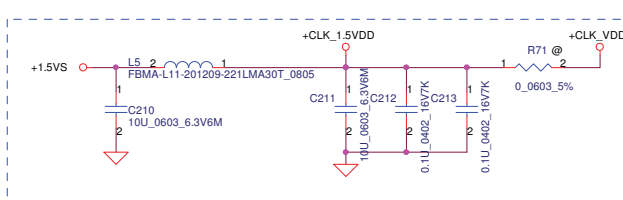
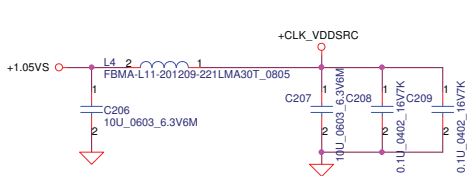


Layout Note:  
Place near JDIMM2.203 & JDIMM2.204

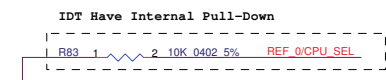
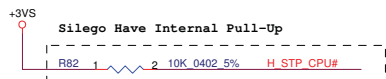
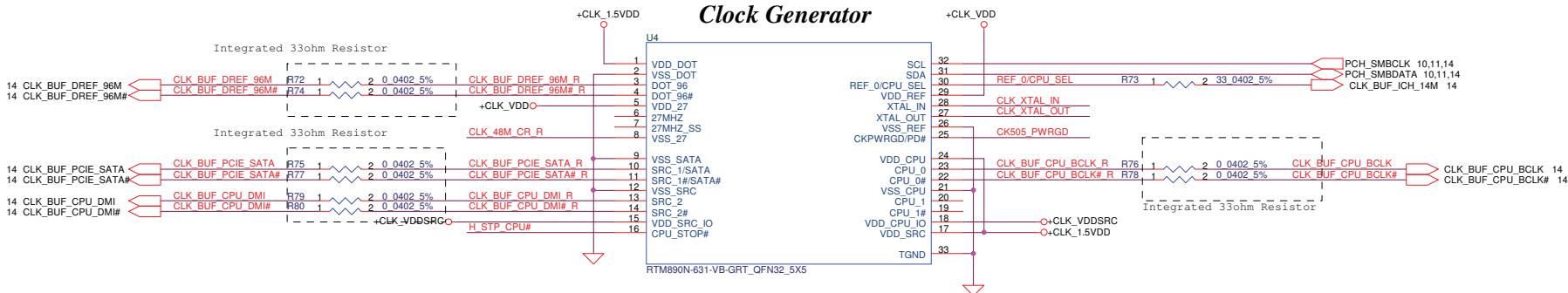


DDR3 SO-DIMM B  
Reverse Type

Security Classification		Compal Secret Data				Compal Electronics, Inc.					
Issued Date		2010/3/31		Deciphered Date		2011/3/31		Title			
								DDRIII SO-DIMM B			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.						Rev		Rev			
						Document Number		LA-6411P		0.1	
						Date:		Wednesday, March 31, 2010		Sheet 11 of 43	

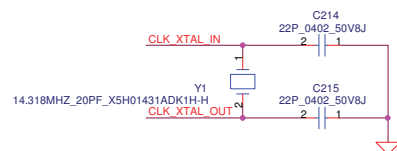
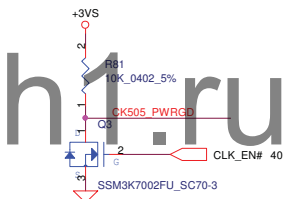
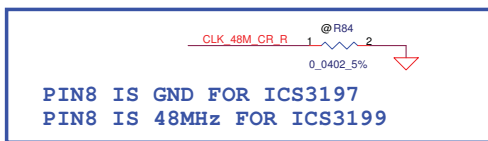


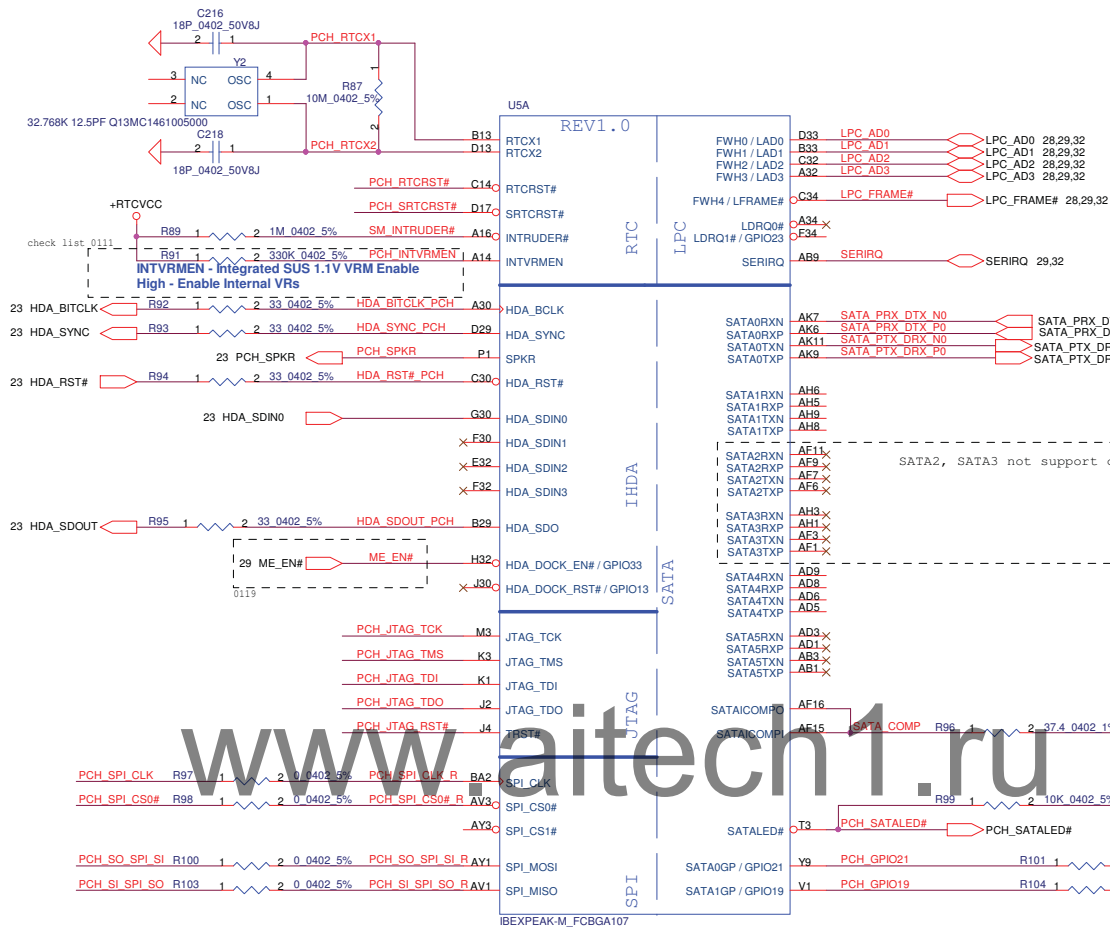
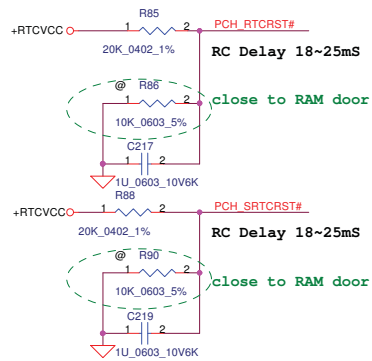
## Clock Generator



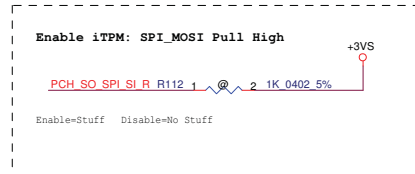
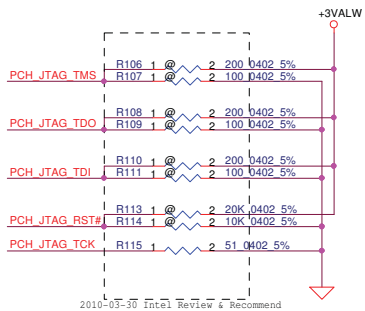
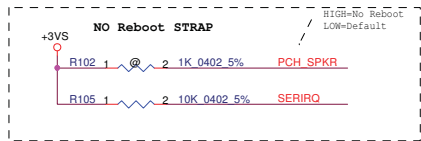
PIN 30	CPU_0	CPU_1
0 (Default)	133MHz	133MHz
1	100MHz	100MHz

www.aitech1.ru

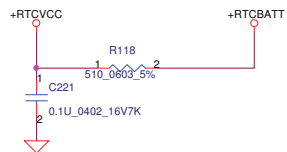
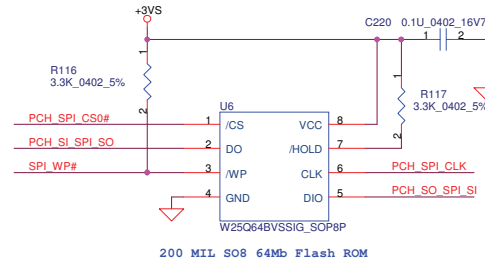




**SATA for HDD**

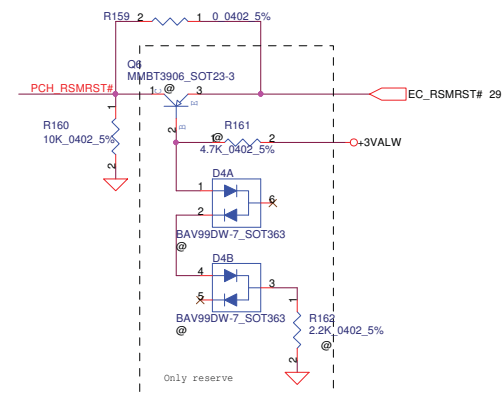
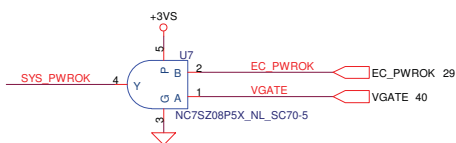
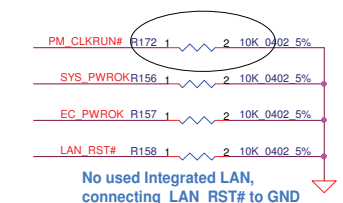


## SYS BIOS ROM



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	SHEET	
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 FACTORY 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
				LA-6411P	0.1
				Date: Wednesday, March 31, 2010	Sheet 13 of 43





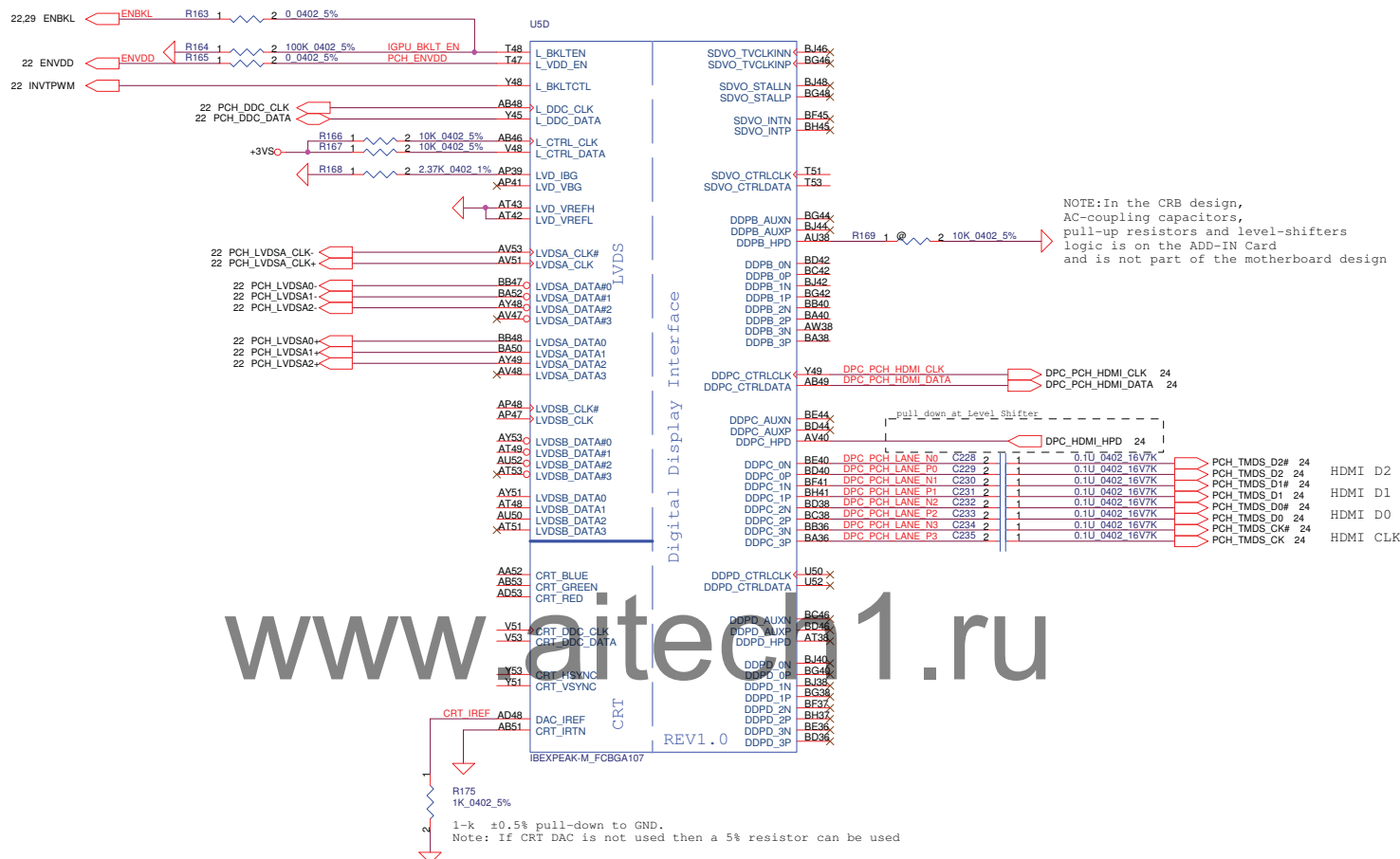
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF THE DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS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



# BACKLIGHT

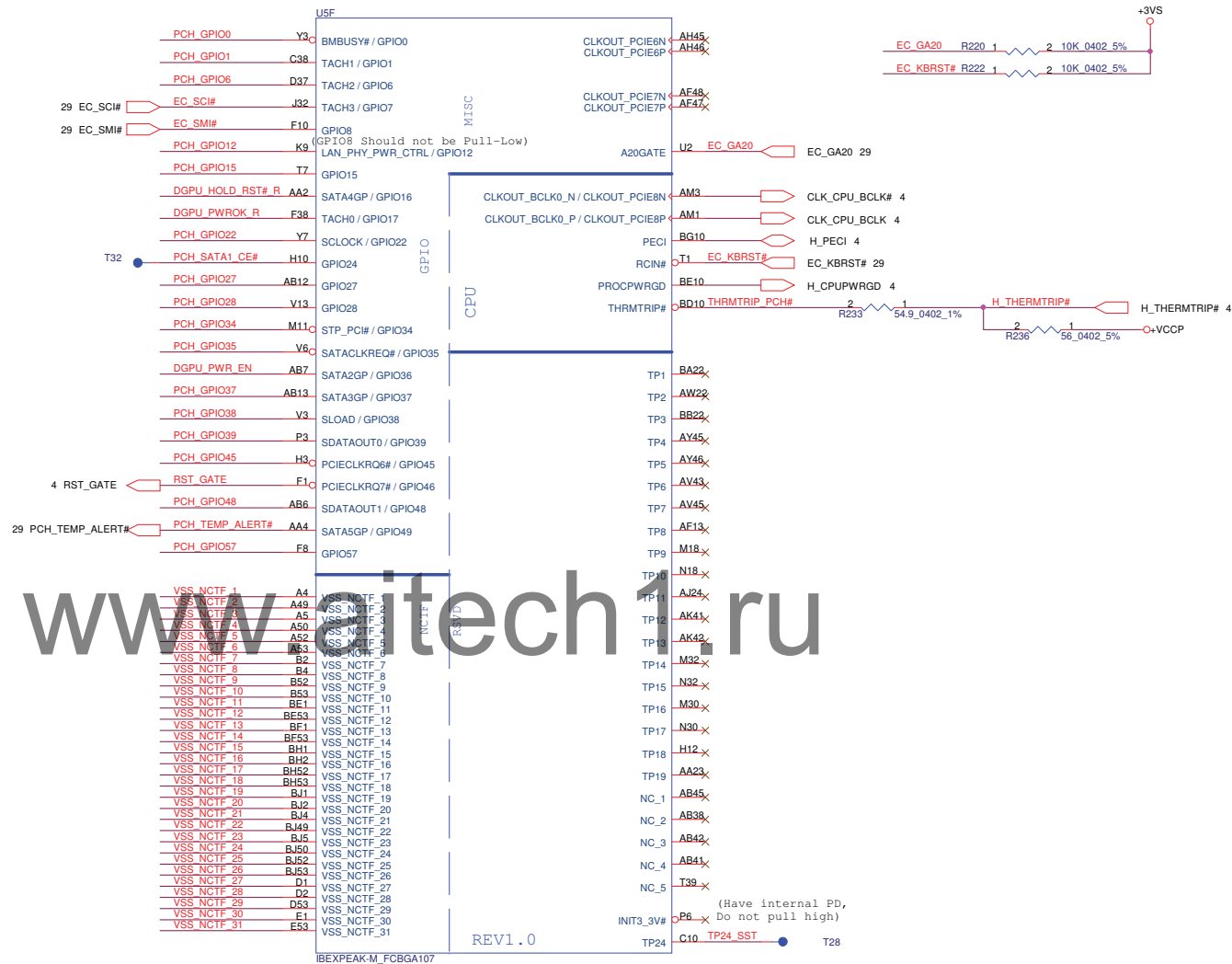
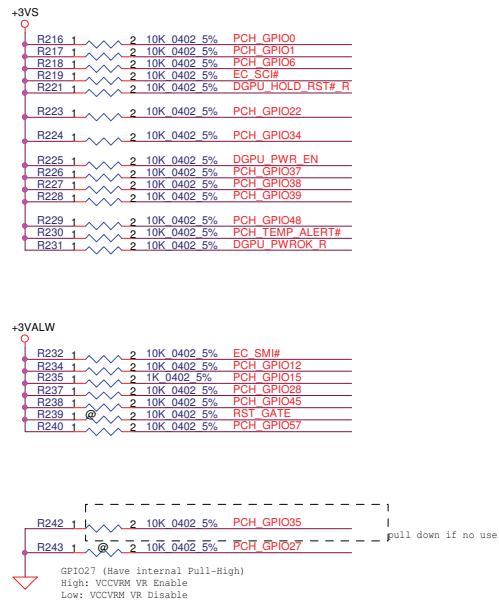
## LCDVDD

## BACKLIGHT\_PWM (DPST)



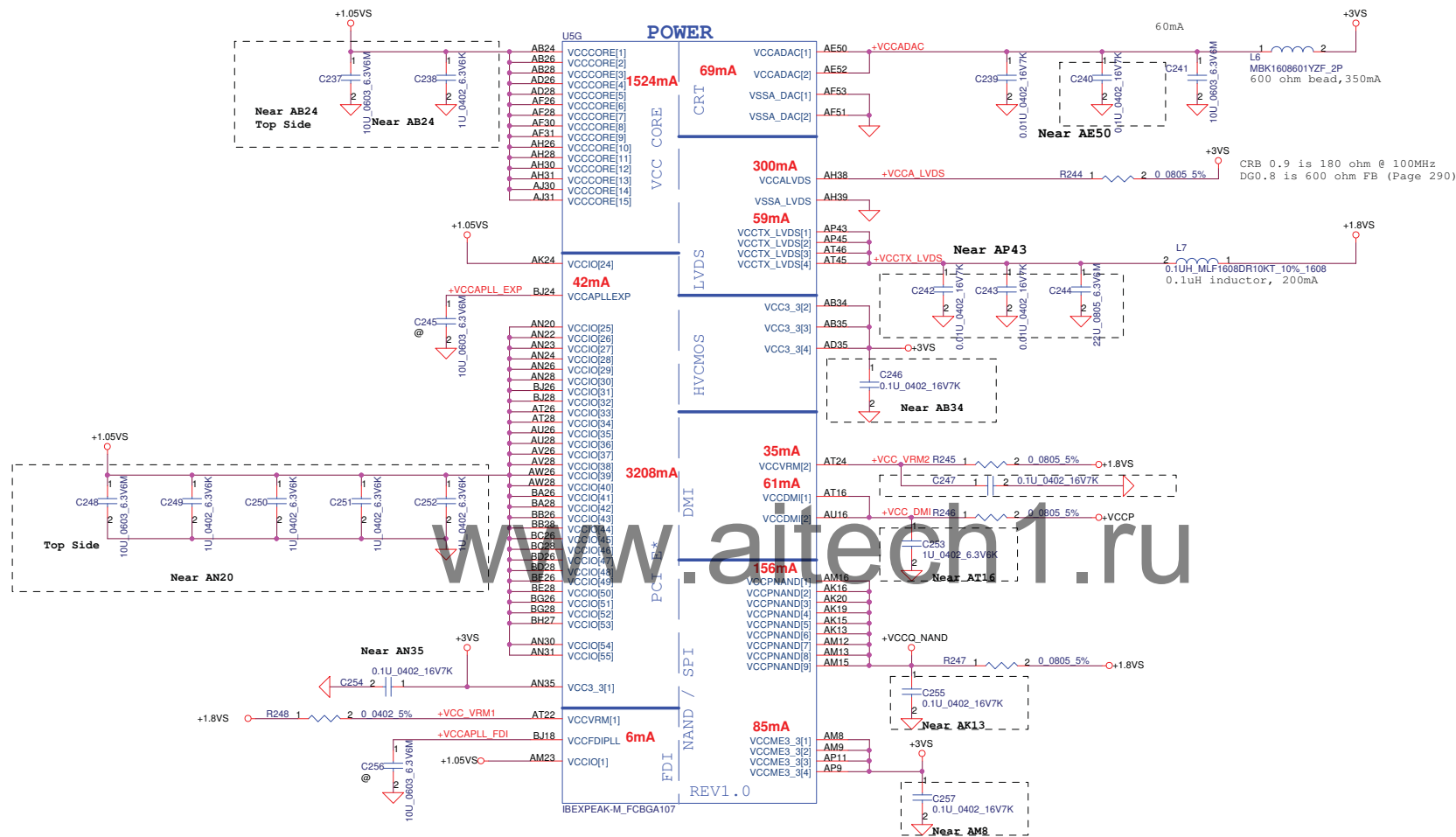
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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	Rev
				Custom	0.1
				Document Number	
				LA-6411P	
				Date	Wednesday, March 31, 2010
				Sheet	16 of 43

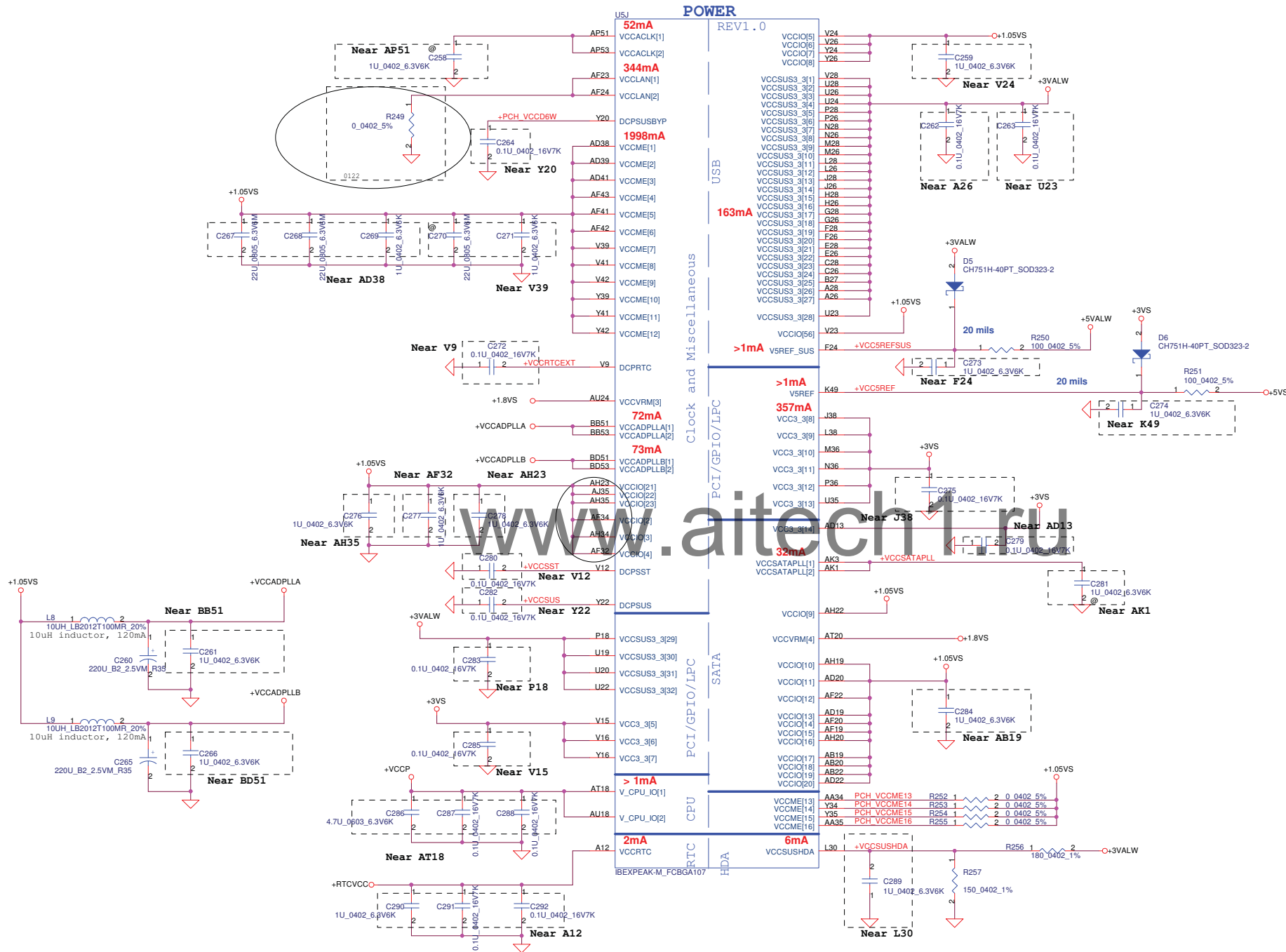




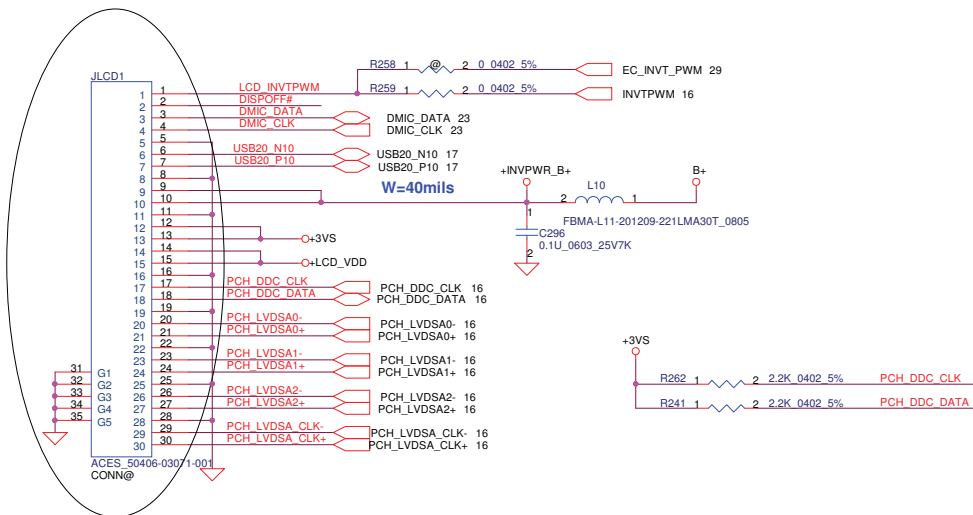
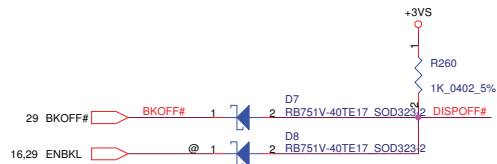
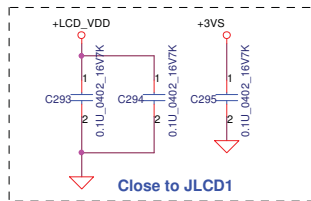
www.itechn1.ru

Security Classification		Compal Secret Data		Title	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	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
				LA-6411P	0.1
				Date: Wednesday, March 31, 2010	Sheet 18 of 43

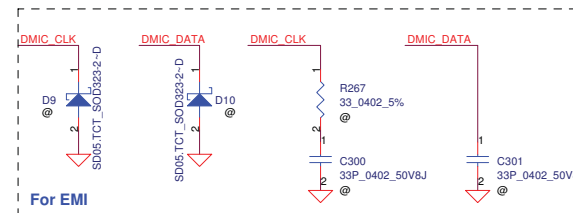
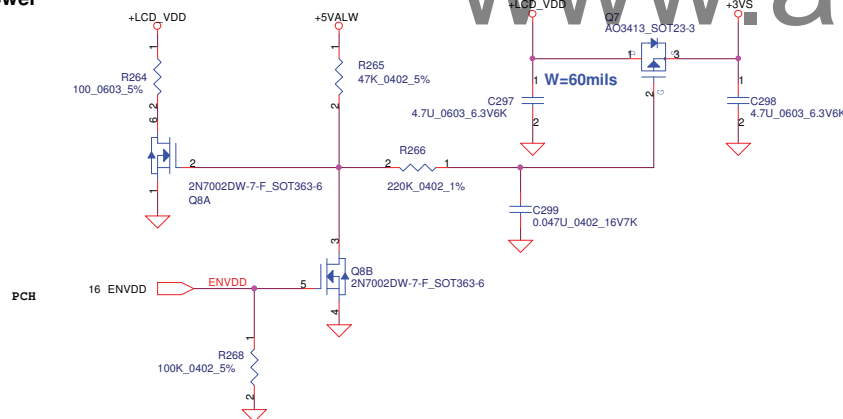








## LCD Power



www.aitech1.ru

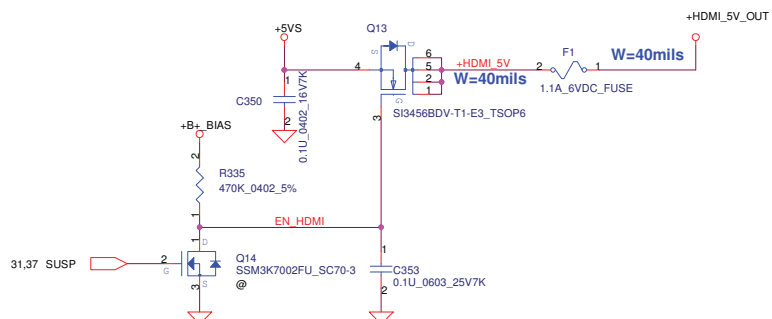
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HAO 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
				LA-6411P	0.1
				Date: Wednesday, March 31, 2010	Sheet 22 of 43





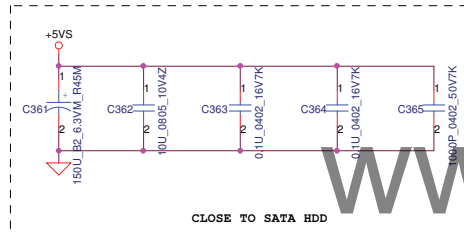
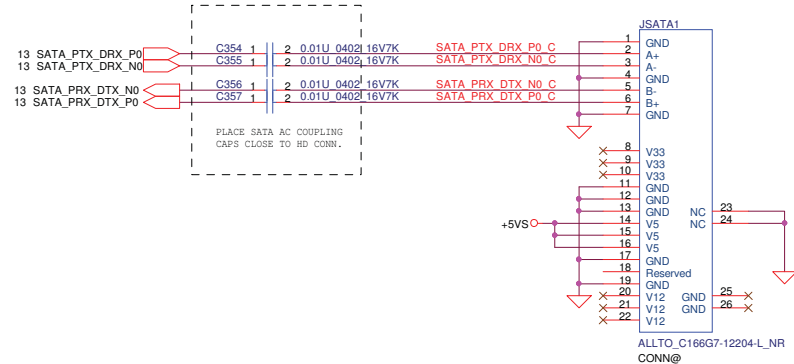
PCH TMSD CK# R304 1 2

pull down 2.2k ohm to fix  
HDMI cannot detect issue.

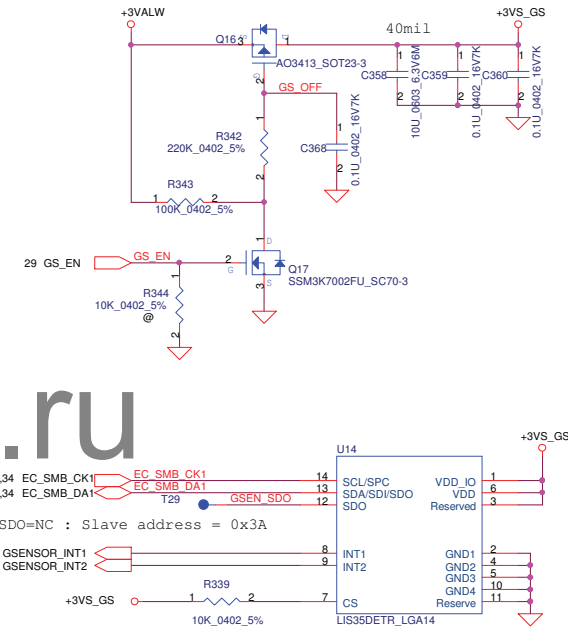


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	HDMI LS & Conn
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF EACH DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Rev	0.1
				Document Number	LA-6411P
Date	Wednesday, March 31, 2010	Sheet	24	of	43

## SATA HDD CONN

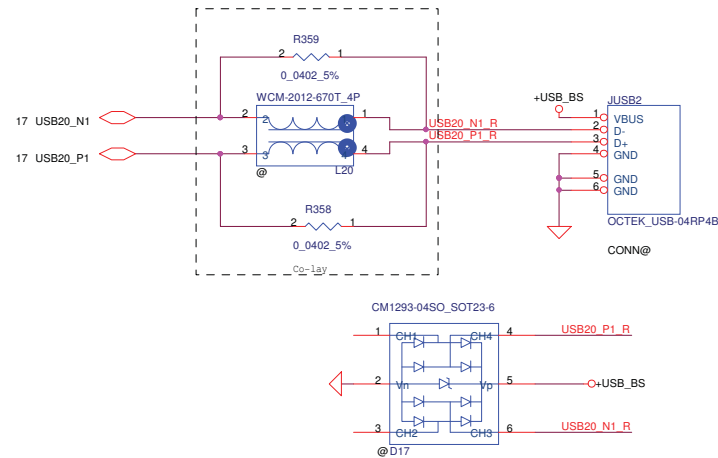
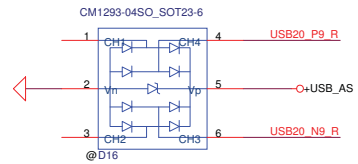


## APS G-Sensor



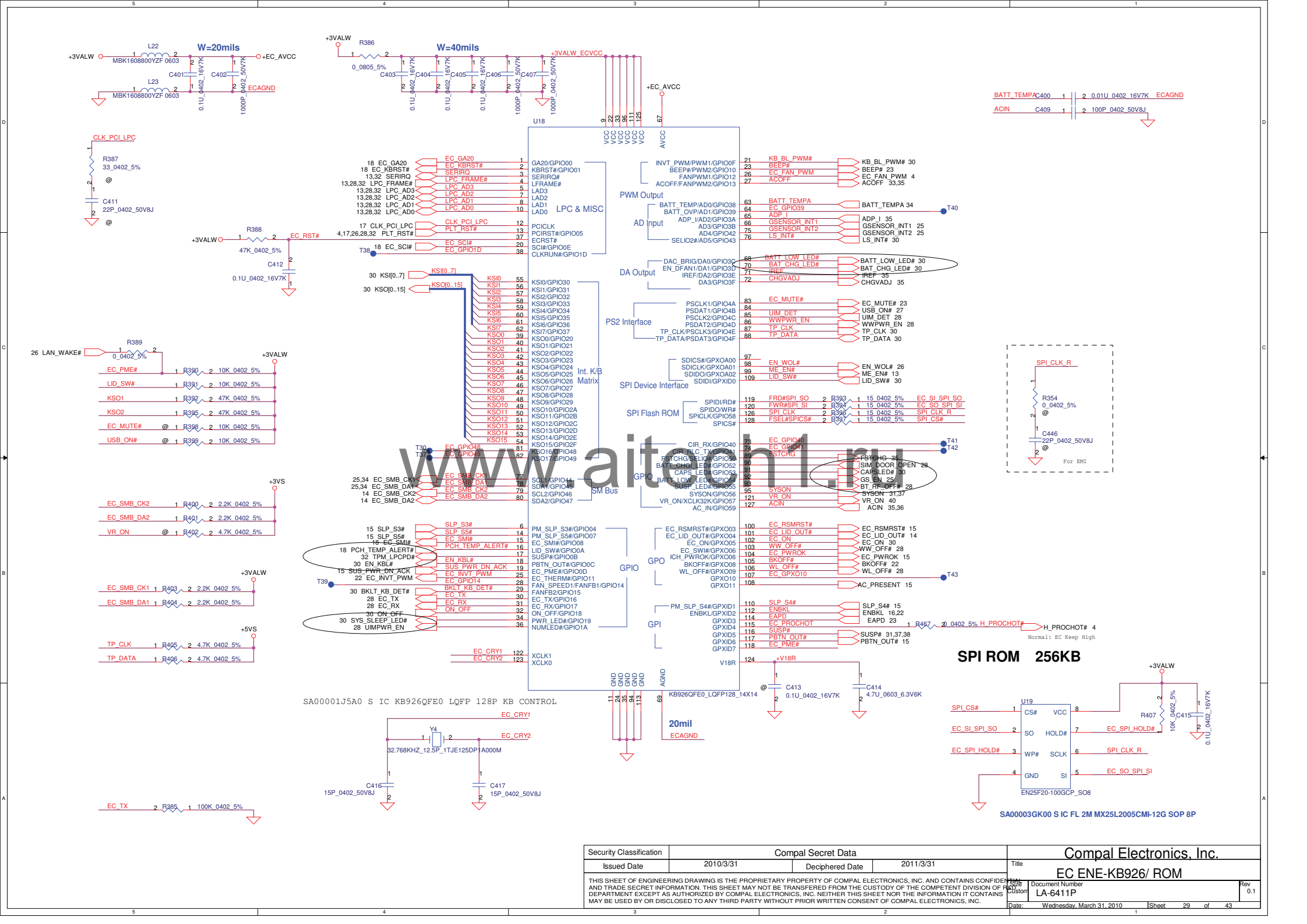
Security Classification		Compal Secret Data		Title	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	SATA HDD/ APS	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HAO 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
				LA-6411P	0.1
				Date: Wednesday, March 31, 2010	Sheet 25 of 43





Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	USB2.0	
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 FACTORY EXAMINATION 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.				Doc Number	Rev
				LA-6411P	0.1
Date: Wednesday, March 31, 2010				Sheet	27 of 43

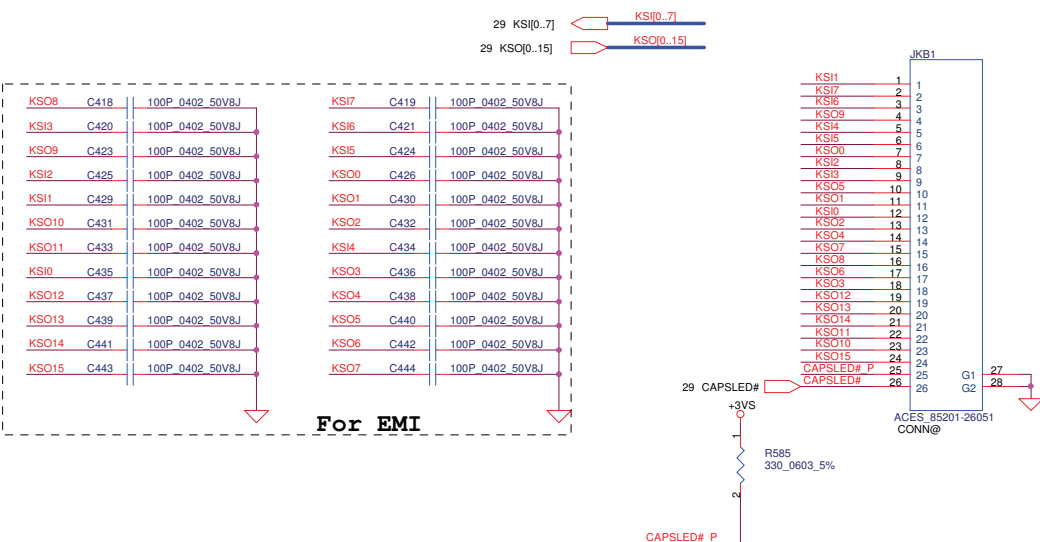




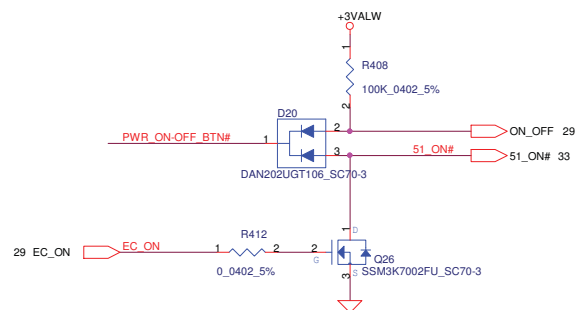
Security Classification		Compal Secret Data		Title	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	EC ENE-KB926/ ROM	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF COMPAL ELECTRONICS, INC. WITHOUT THE WRITTEN CONSENT 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.				Rev	0.1
Date: Wednesday, March 31, 2010				Sheet	29 of 43



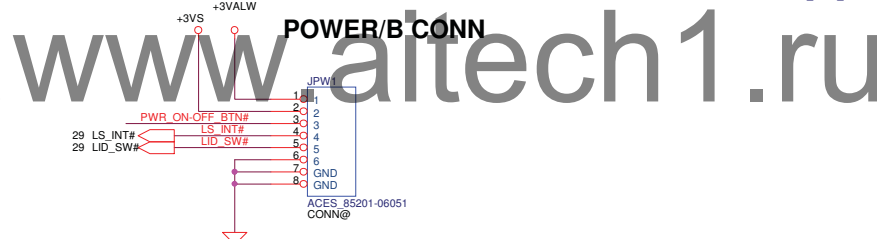
**Int. KB CONN.**



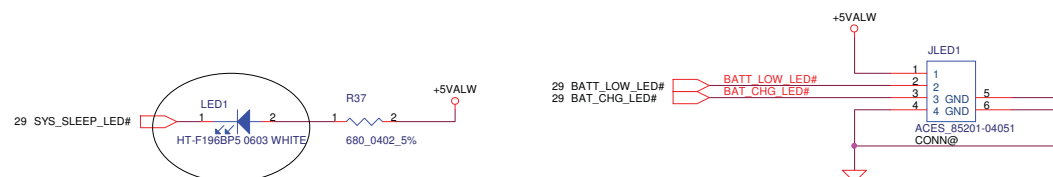
## Power Button



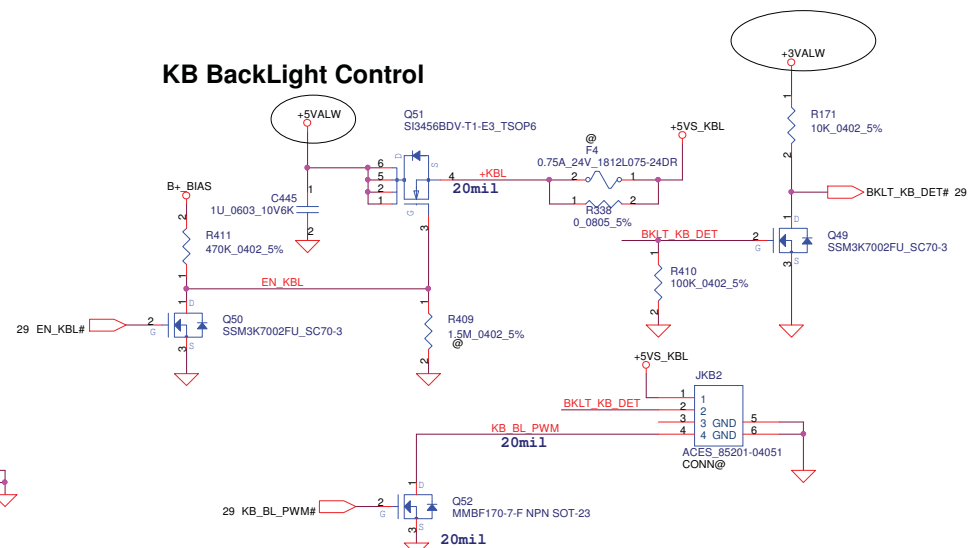
## POWER/B CONN



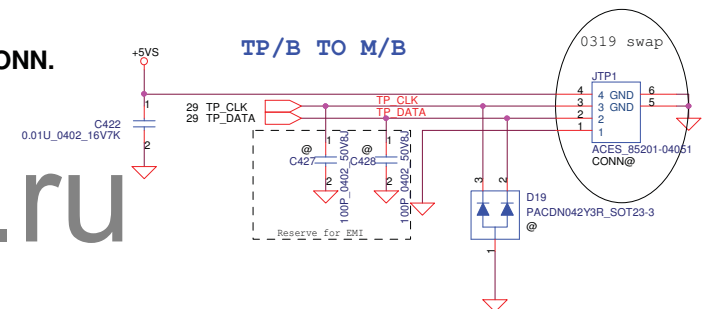
**LED/B CONN**



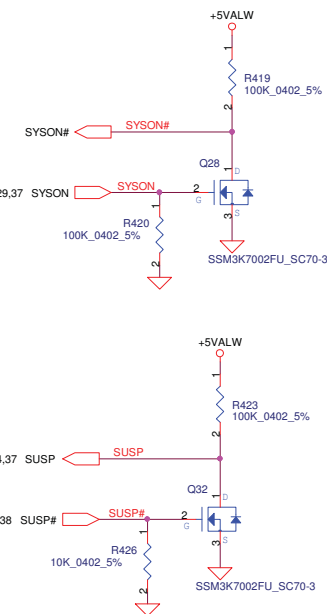
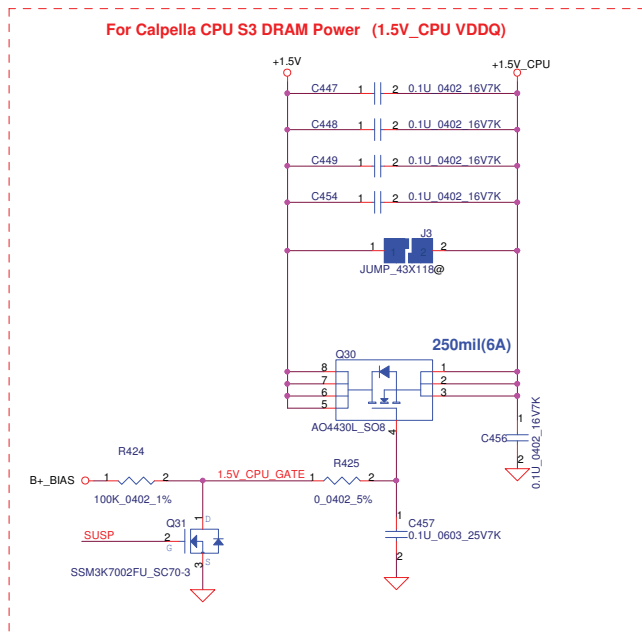
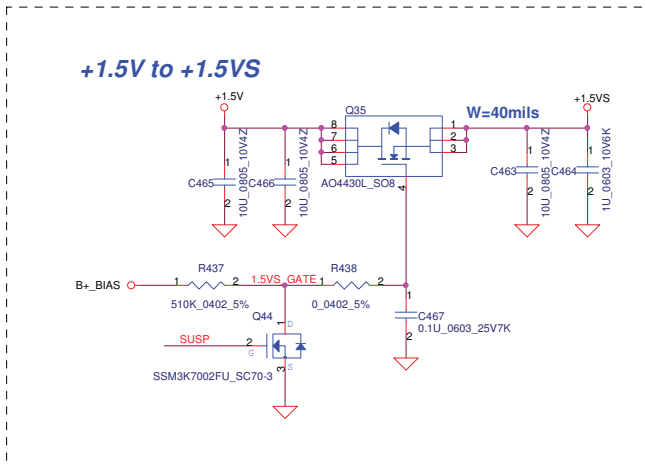
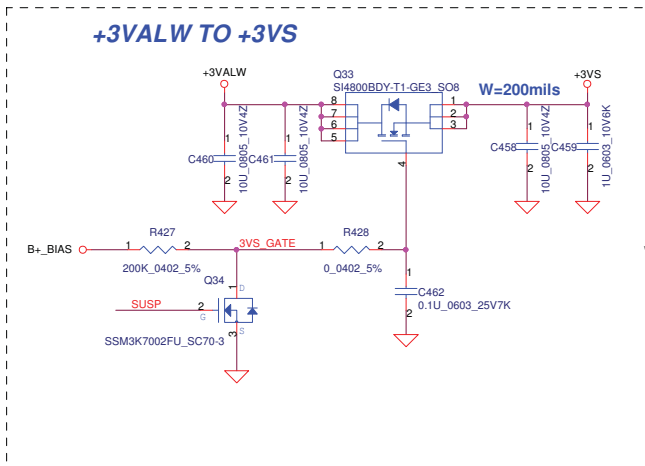
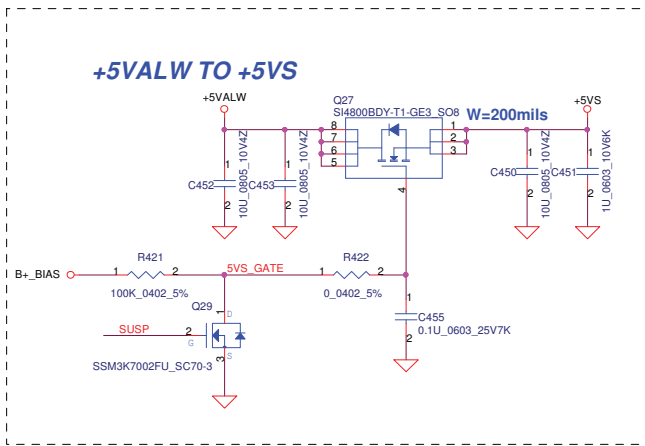
## KB BackLight Control



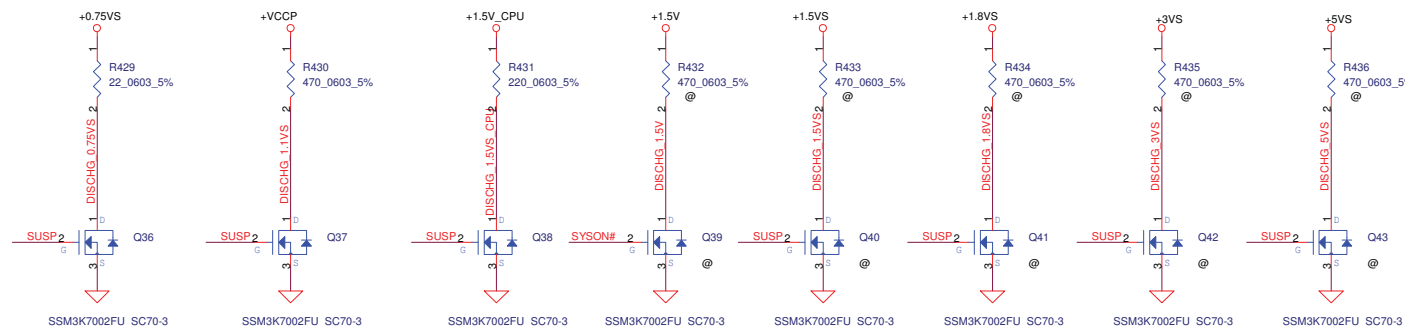
**Touch PAD/B CONN.**



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	KB/ TP/ FUNC/ LED/ALS
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 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
				LA-6411P	0.1
Date	Wednesday, March 31, 2010			Sheet	30 of 43

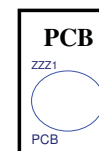
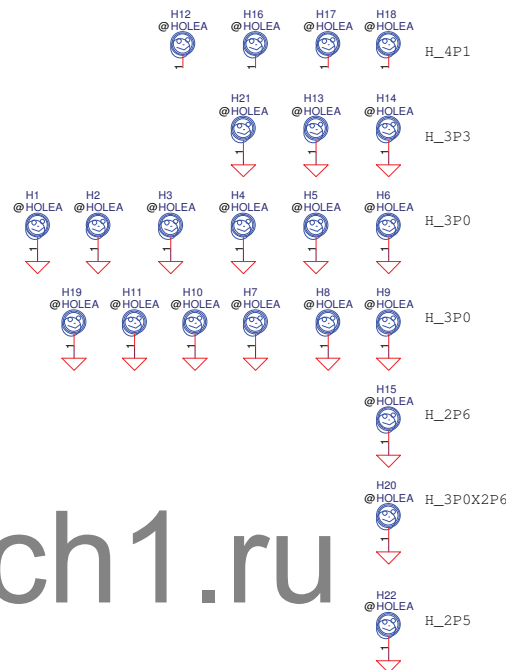
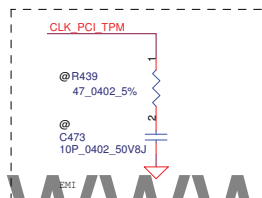
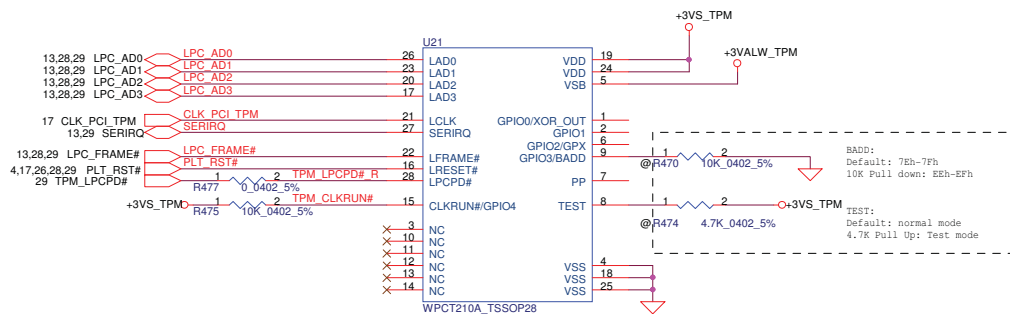
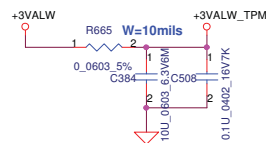
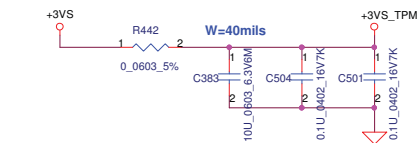


[www.aitech1.ru](http://www.aitech1.ru)



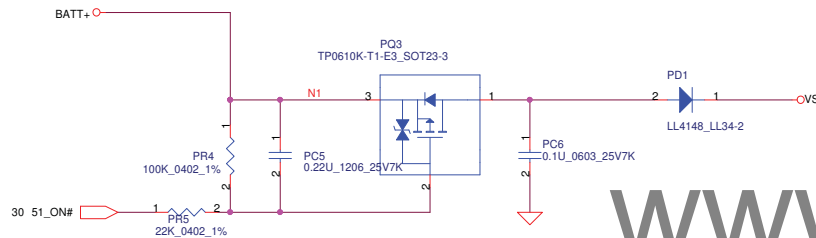
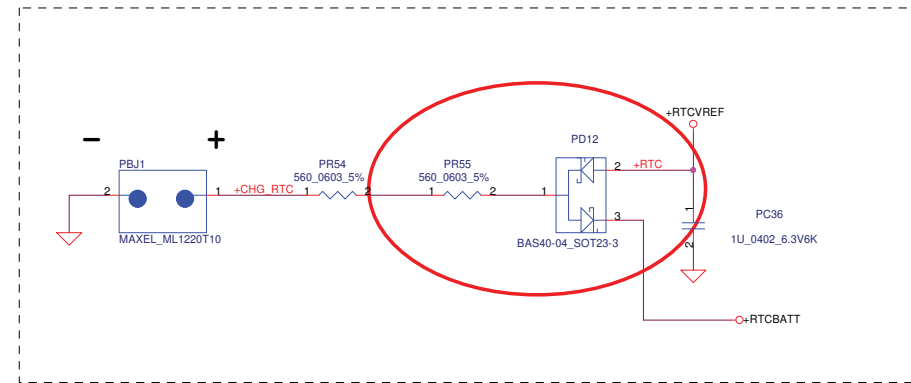
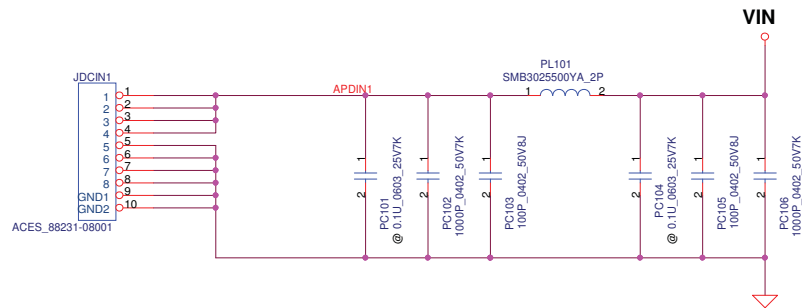
Security Classification		Compal Secret Data		<div>Compal Electronics, Inc.</div> <div>DC/DC INTERFACE</div>	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FACTORY INFORMATION 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.				Doc. Number	Rev.
				LA-6411P	0.1
Date: Wednesday, March 31, 2010				Sheet	31 of 43

# TPM

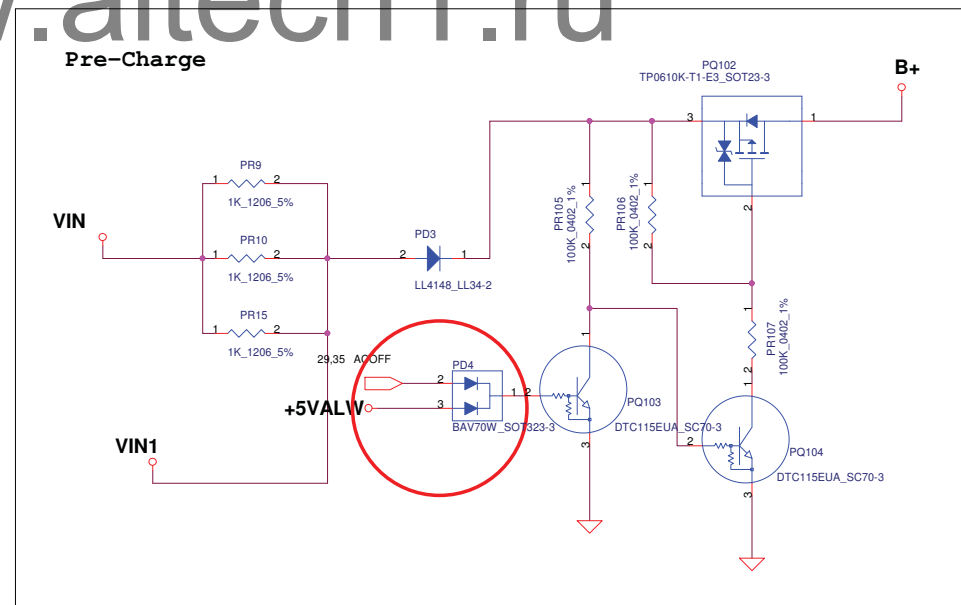
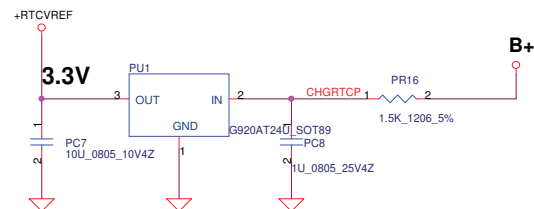


www.aitech1.ru

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title	TPM/ Screw/ FD
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	LA-6411P
				Date	Wednesday, March 31, 2010
				Sheet	32 of 43
				Rev	0.1

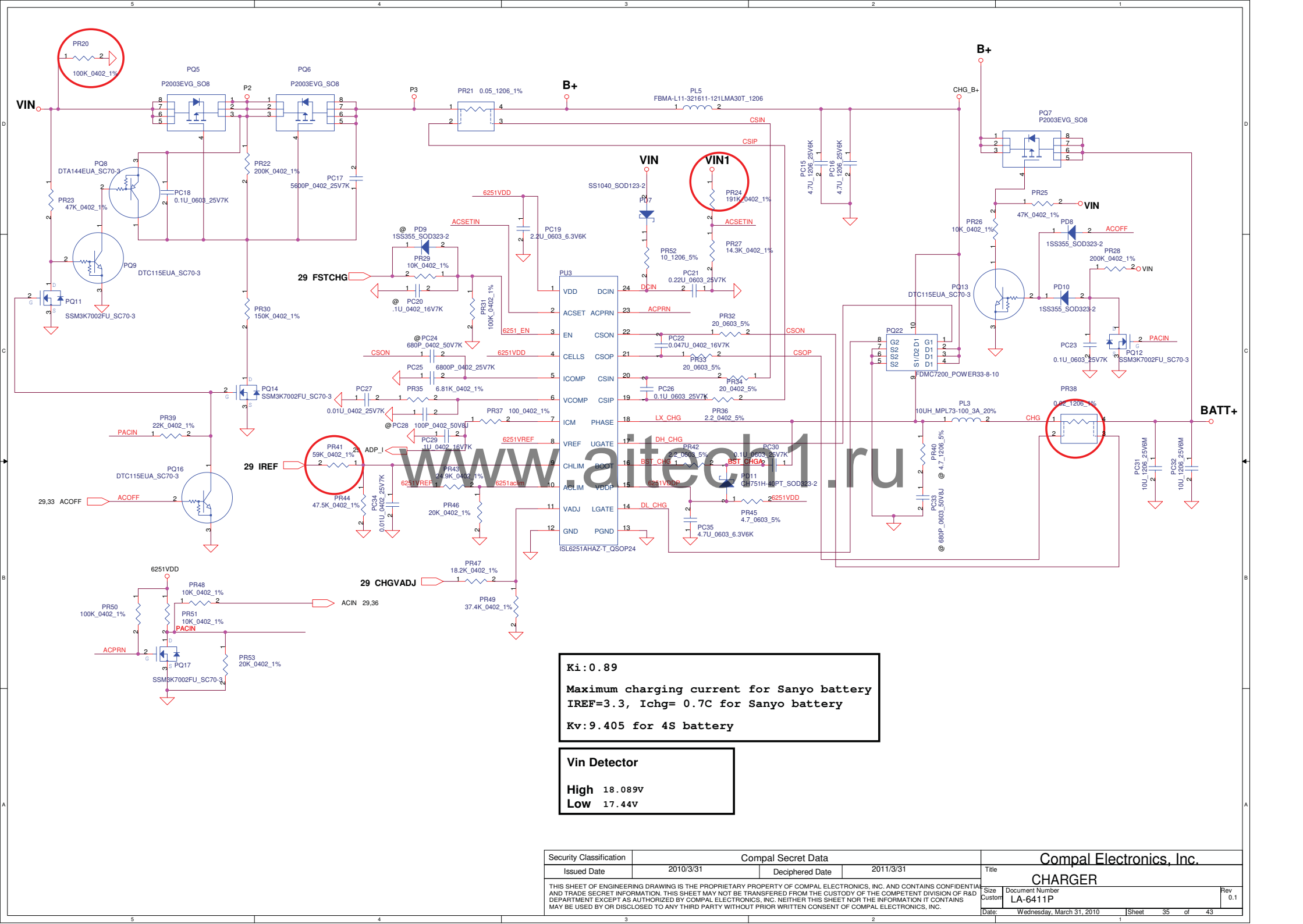


www.aitech1.ru



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	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.				DCIN & DETECTOR	
Size	Custom	Document Number	LA-6411P	Rev	0.1
Date:	Wednesday, March 31, 2010	Sheet	33	of	43

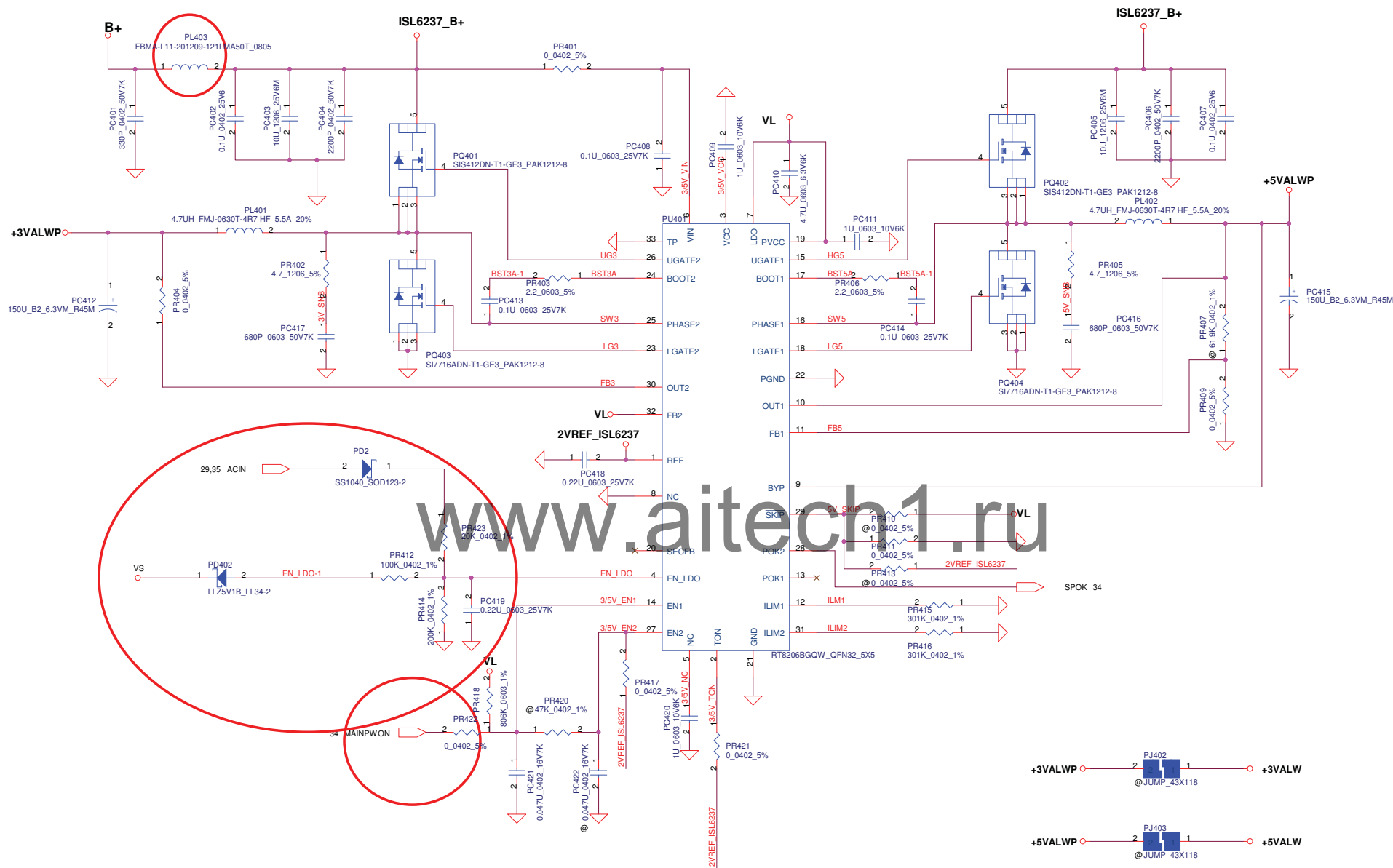




Ki:0.89  
Maximum charging current for Sanyo battery  
IREF=3.3, Ichg= 0.7C for Sanyo battery  
Kv:9.405 for 4S battery

Vin Detector  
High 18.089v  
Low 17.44v

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	CHARGER	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					Rev 0.1
Size Custom	Document Number LA-6411P	Date: Wednesday, March 31, 2010			
Sheet 35		of 43			

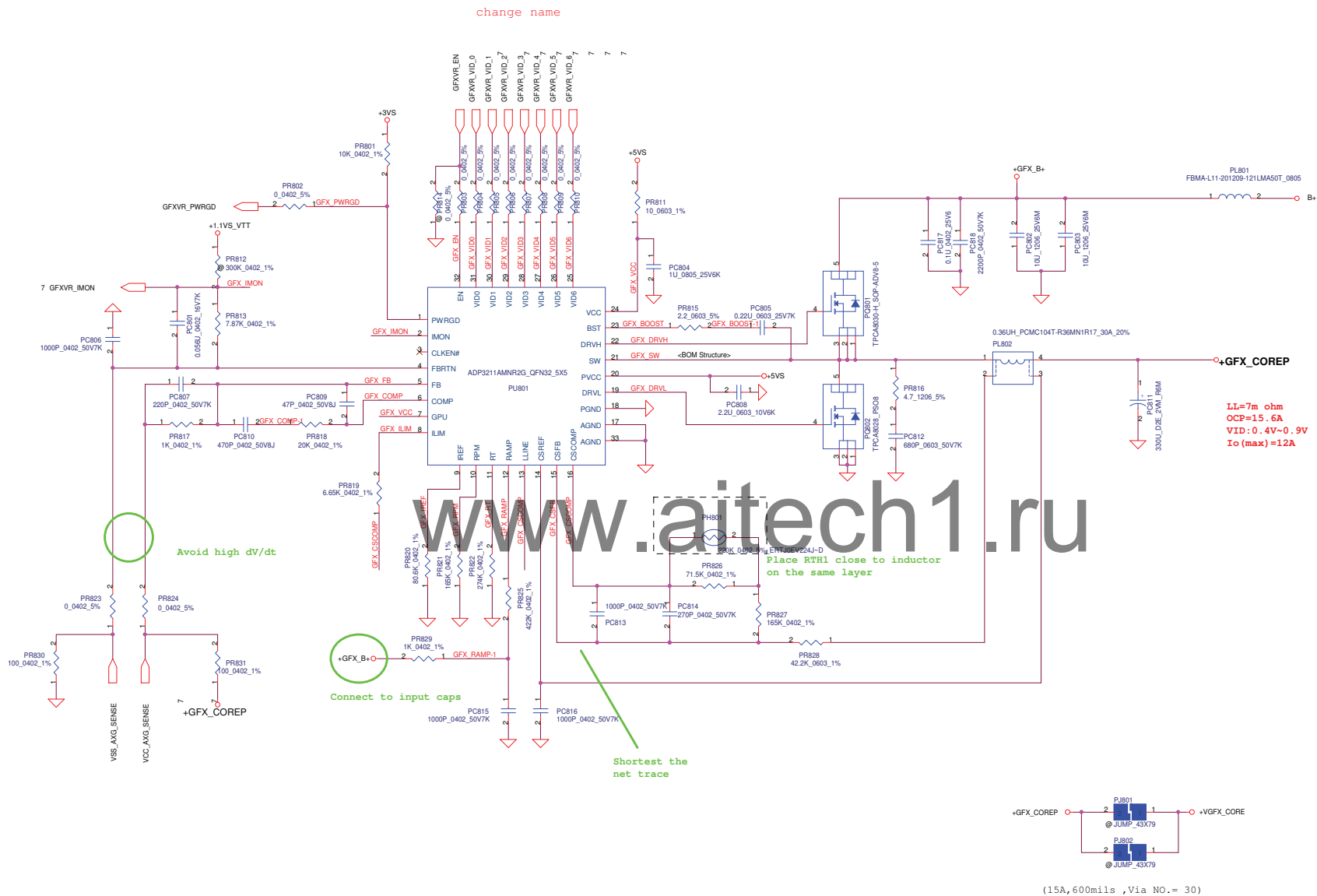


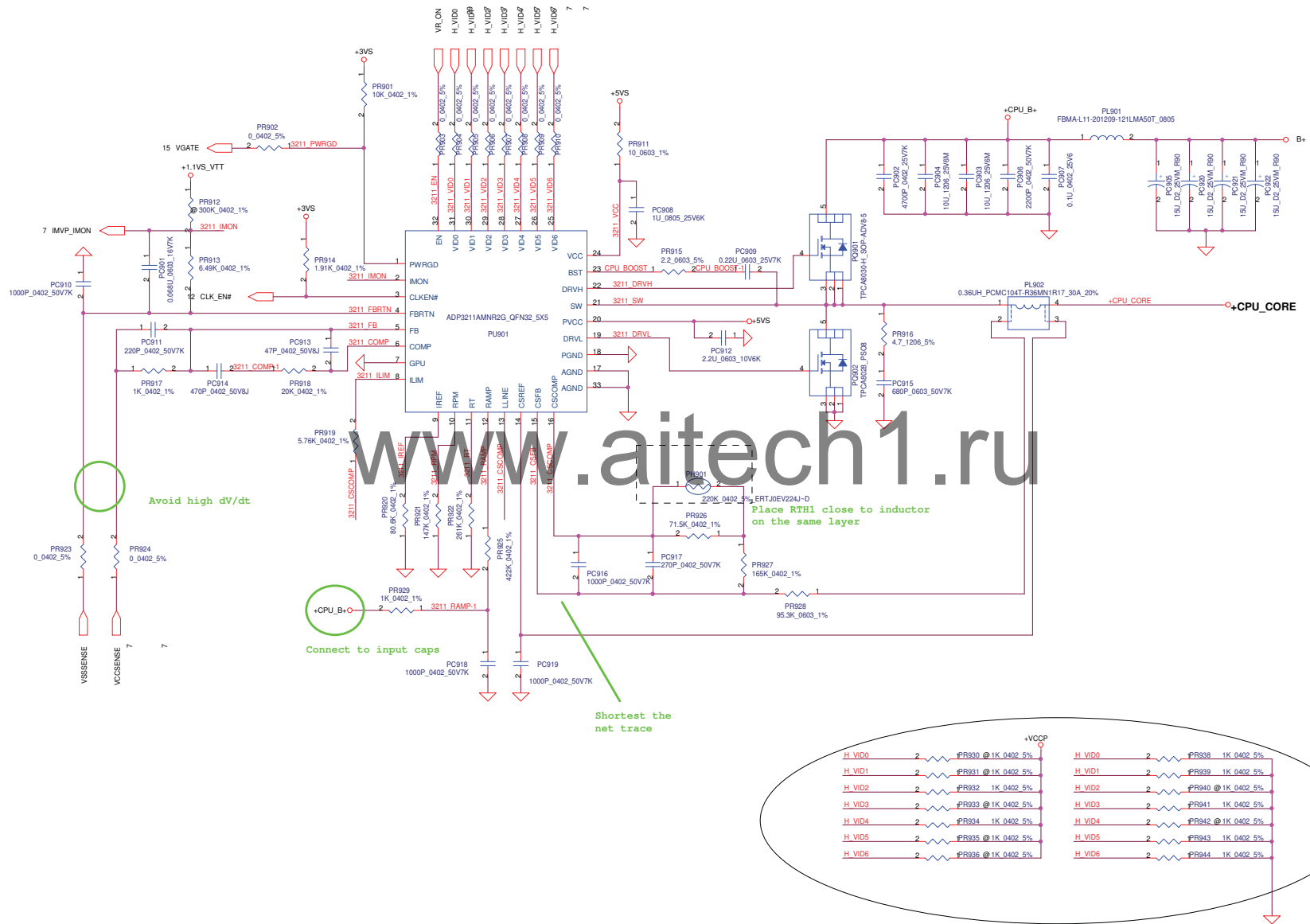
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				3VALW/5VALW
Size Custom	Document Number	LA-6411P		Rev 0.1
Date:	Wednesday, March 31, 2010	Sheet	36	of 43











Auburndale ULV: VID(0-5):001010

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/3/31	Deciphered Date	2011/3/31	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.				+CPU CORE
Size	C	Document Number	LA-6411P	Rev
Date:	Wednesday, March 31, 2010	Sheet	40	of 43

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				20081022	

www.aitech1.ru

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					

www.aitech1.ru

