MODEL NAME: ZAVA1/ZAVC1 PCB NO: DA80011D000 LA-B015P-R1.0

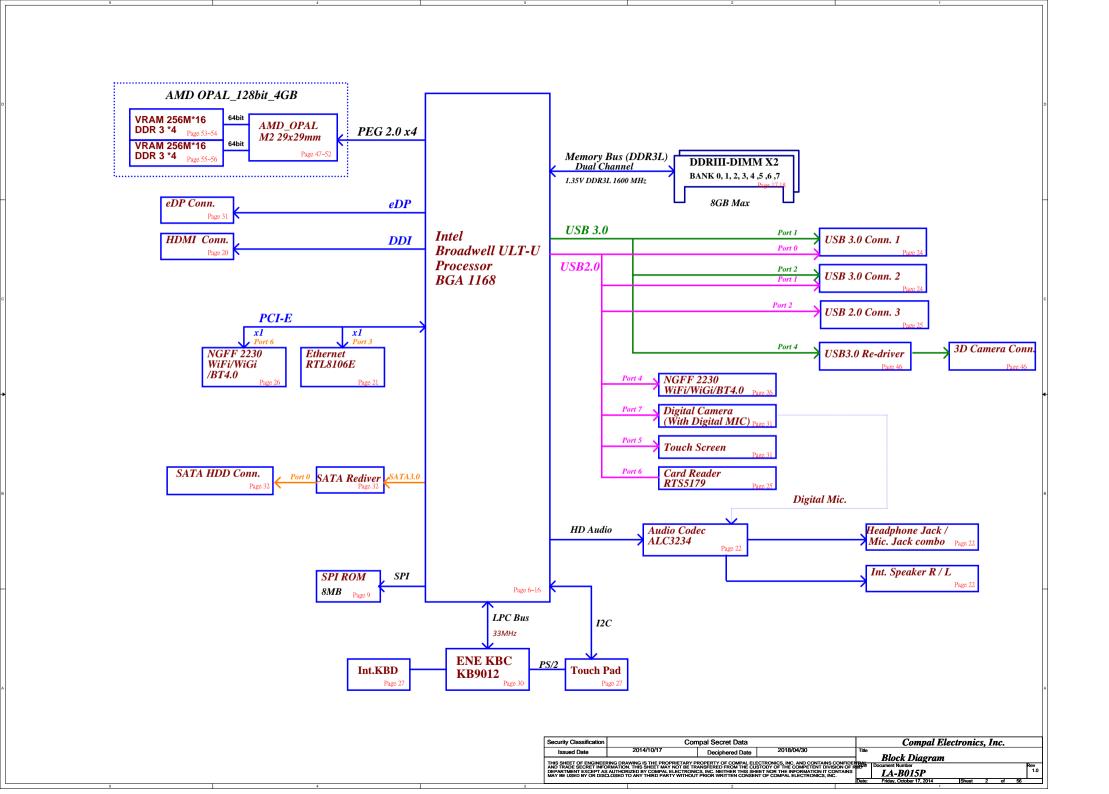
Compal Confidential

Schematic Document

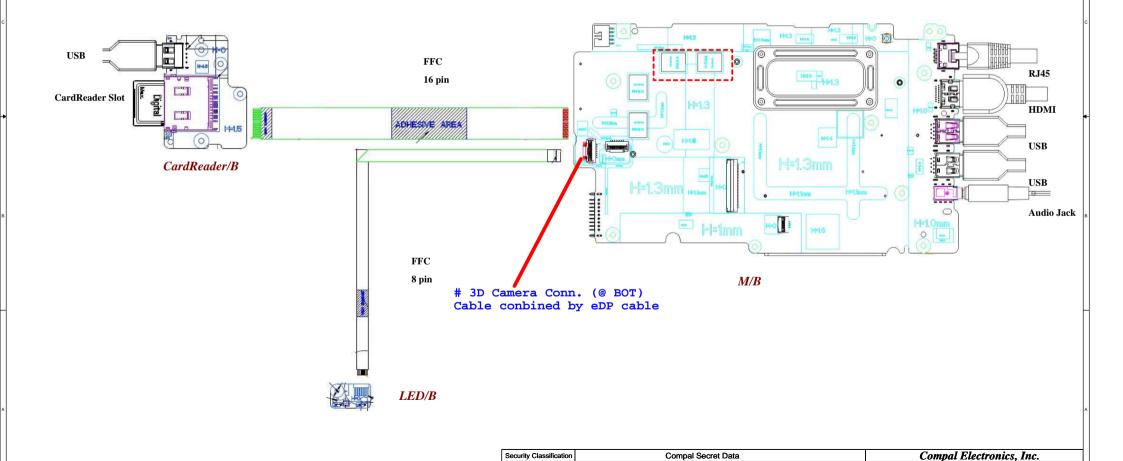
Intel BoardWell ULT ZAVA1/ZAVC1 DIS AMD 25W/M2+DDR3x8

2014-10-17 Rev: 1.0

Security Classification	Co	Compal Secret Data					cs, I	nc.		
Issued Date	2014/10/17	Deciphered Date	2018/04/30	Title	C D					
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				Date:	Friday October 17, 2014	Sheet	- 1	of	56	



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Issued Date

2014/10/17

2018/04/30

MB/DB Drawing
ocument Number
LA-B015P
Friday, October 17, 2014

Deciphered Date

Board ID Table for AD channel

Vcc	3.3V +/- 1%				
Ra	100K +/- 1%				
Board ID	Rb	$\mathtt{V}_{\mathtt{AD_BID}}$ min	V _{AD_BID} typ	V _{AD_BID} max	EC AD3
0	0	0.000V	0.000V	0.300V	0x00 - 0x0B
1	12K +/- 1%	0.347V	0.354V	0.360V	0x0C - 0x1C
2	15K +/- 1%	0.423V	0.430V	0.438V	0x1D - 0x26
3	20K +/- 1%	0.541V	0.550V	0.559V	0x27 - 0x30
4	27K +/- 1%	0.691V	0.702V	0.713V	0x31 - 0x3B
5	33K +/- 1%	0.807V	0.819V	0.831V	0x3C - 0x46
6	43K +/- 1%	0.978V	0.992V	1.006V	0x47 - 0x54
7	56K +/- 1%	1.169V	1.185V	1.200V	0x55 - 0x64
8	75K +/- 1%	1.398V	1.414V	1.430V	0x65 - 0x76
9	100K +/- 1%	1.634V	1.650V	1.667V	0x77 - 0x87
10	130K +/- 1%	1.849V	1.865V	1.881V	0x88 - 0x96
11	160K +/- 1%	2.015V	2.031V	2.046V	0x97 - 0xA3
12	200K +/- 1%	2.185V	2.200V	2.215V	0xA4 - 0xAD
13	240K +/- 1%	2.316V	2.329V	2.343V	0xAE - 0xB7
14	270K +/- 1%	2.395V	2.408V	2.421V	0xB8 - 0xC0
15	330K +/- 1%	2.521V	2.533V	2.544V	0xC1 - 0xC9
16	430K +/- 1%	2.667V	2.677V	2.687V	0xCA - 0xD3
17	560K +/- 1%	2.791V	2.800V	2.808V	0xD4 - 0xDC
18	750K +/- 1%	2.905V	2.912V	2.919V	0xDD - 0xE6
19	NC	3.000V	3.300V	3.300V	0xE7 - 0xFF

SMBUS Control Table

	SOURCE	BATT	Charger	VGA	DIMM	XDP	Thermal Sensor	FFS	
EC_SMB_CK1 EC_SMB_DA1	KB9012	V	V						
EC_SMB_CK2 EC_SMB_DA2	КВ9012			V			V],
SMBCLK SMBDATA	ULT				V			V	
SML0CLK SML0DATA	ULT								
SML1CLK SML1DATA	ULT] .

Symbol Note:



: means Analog Ground

HSW BOARD ID Table

Board ID	UMA	DIS(JET)	DIS(Topaz)	DIS(OPAL)
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

BDW BOARD ID Table

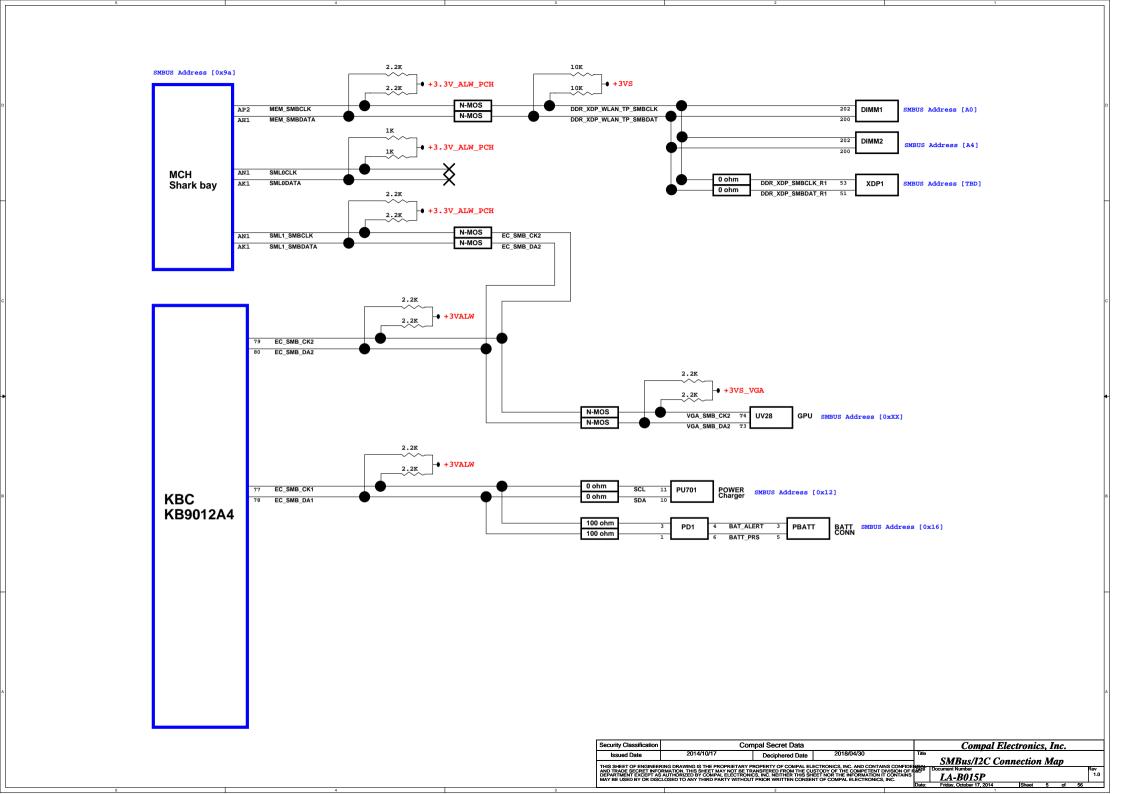
UXDC					
0xE6	Board ID	UMA	DIS(JET)	DIS(Topaz)	DIS(OPAL)
0xFF	0	1.0_3D CAM			
	1		1.0_3D CAM		
	2			1.0_3D CAM	
	3	SSI(BDW)			
	4		SSI(BDW)		
	5			SSI(BDW)	
	6	PT(BDW) SSI 3D CAM			
	7		PT(BDW) SSI 3D CAM		
1	8			PT(BDW) SSI 3D CAM	
1	9	ST(BDW) PT 3D CAM			
1	10		ST(BDW) PT 3D CAM		
Link	11			ST(BDW) PT_3D CAM	
1	12	1.0(BDW) ST 3D CAM			
1	13		1.0(BDW) ST 3D CAM		
J	14			1.0(BDW) ST 3D CAM	
	15				SSI
	16				PT
	17				ST
	18				1.0

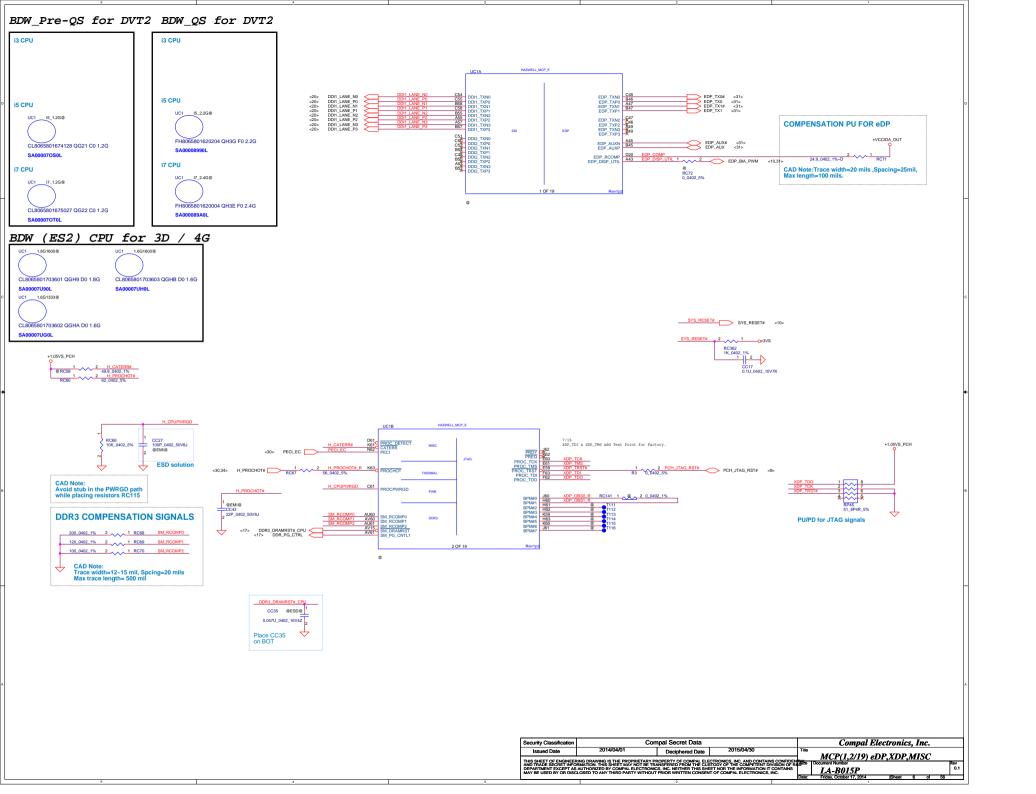
CLOCK SIGN	AL (Diff. 100MHz)
CLKOUT_PCIE0	
CLKOUT_PCIE1	
CLKOUT_PCIE2	10/100 LAN
CLKOUT_PCIE3	MINI Card (WLAN)
CLKOUT_PCIE4	dGPU
CLKOUT_PCIE5	

	Port1	USB connector 1					
	Port2	USB connector 2					
	Port3						
	Port4	3D Camera					
		USB2.0					
	Port0	USB connector 1					
	Port1	USB connector 2					
	Port2	USB connector 3 (D/B)					
	Port3						
	Port4	MINI Card (WLAN)					
	Port5	Touch Screen Panel					
ULT	Port6	Card Reader					
	Port7	Camera					
		PCI EXPRESS					
	Lane 1						
	Lane 2						
	Lane 3	10/100 LAN					
	Lane 4	MINI Card (WLAN)					
	Lane 5	PEG (AMD JET/TOBAZ)					
	Lane 6						
		SATA					
	SATA0	HDD					
	SATA1						
	SATA2						
	SATA3						

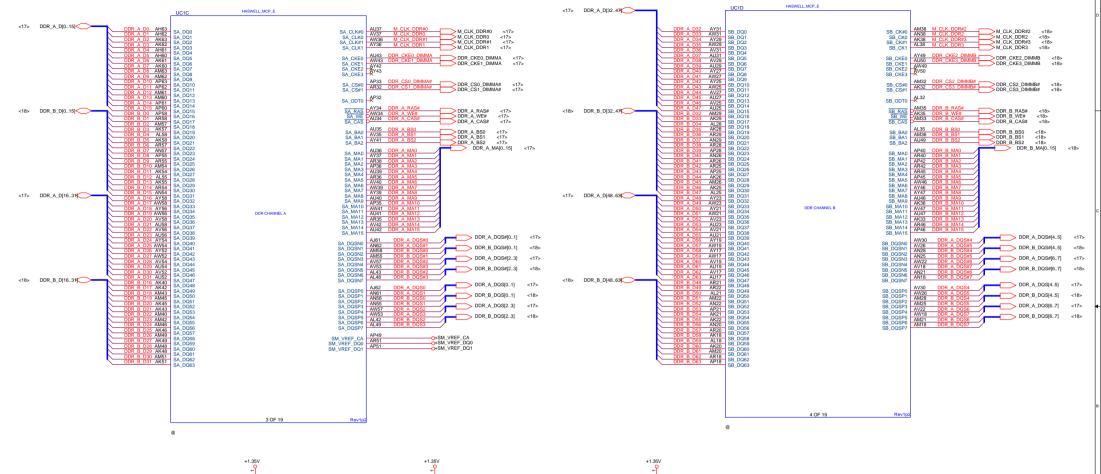
USB3.0

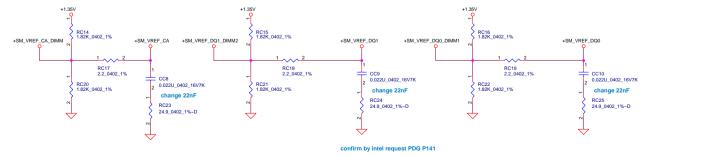
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Issued Date	2014/10/17	Deciphered Date	2018/04/30	Title	
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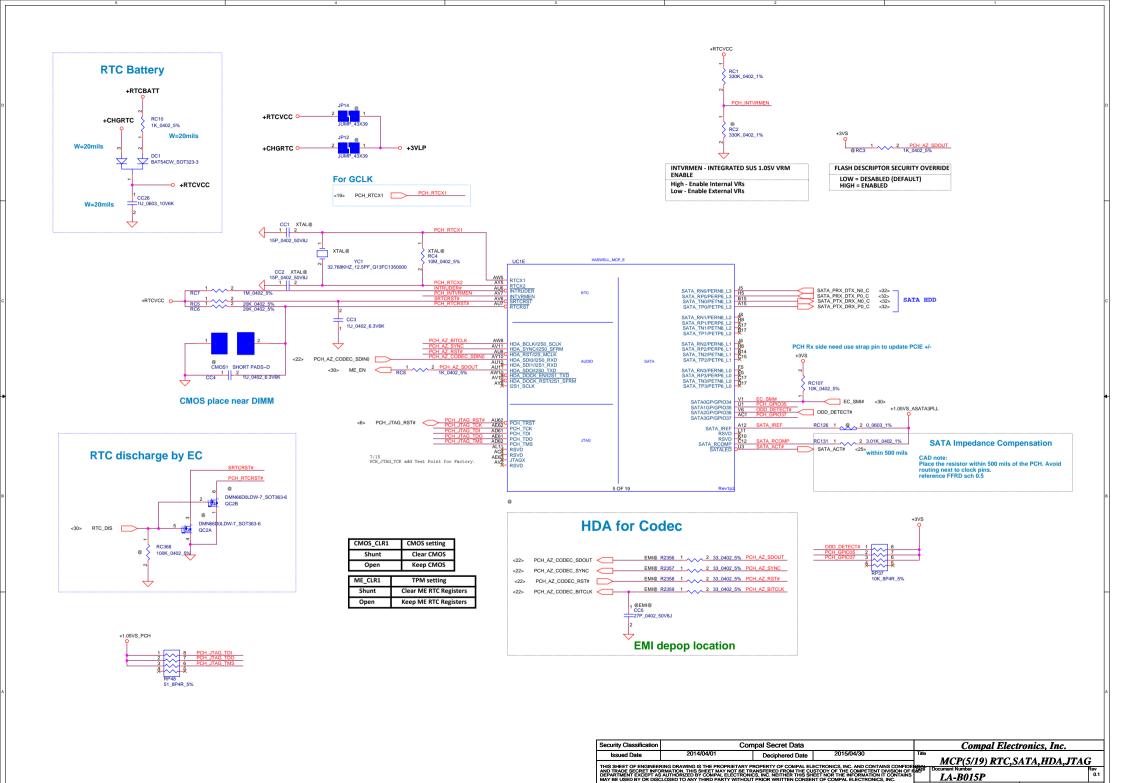


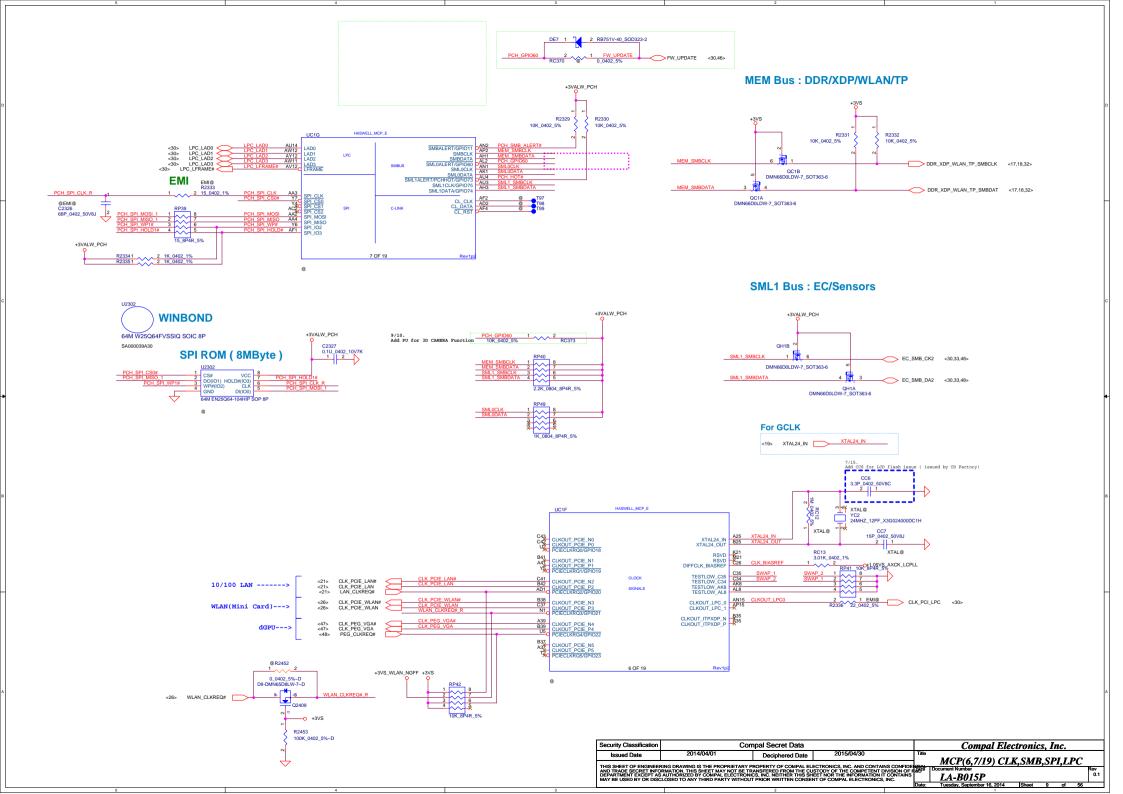
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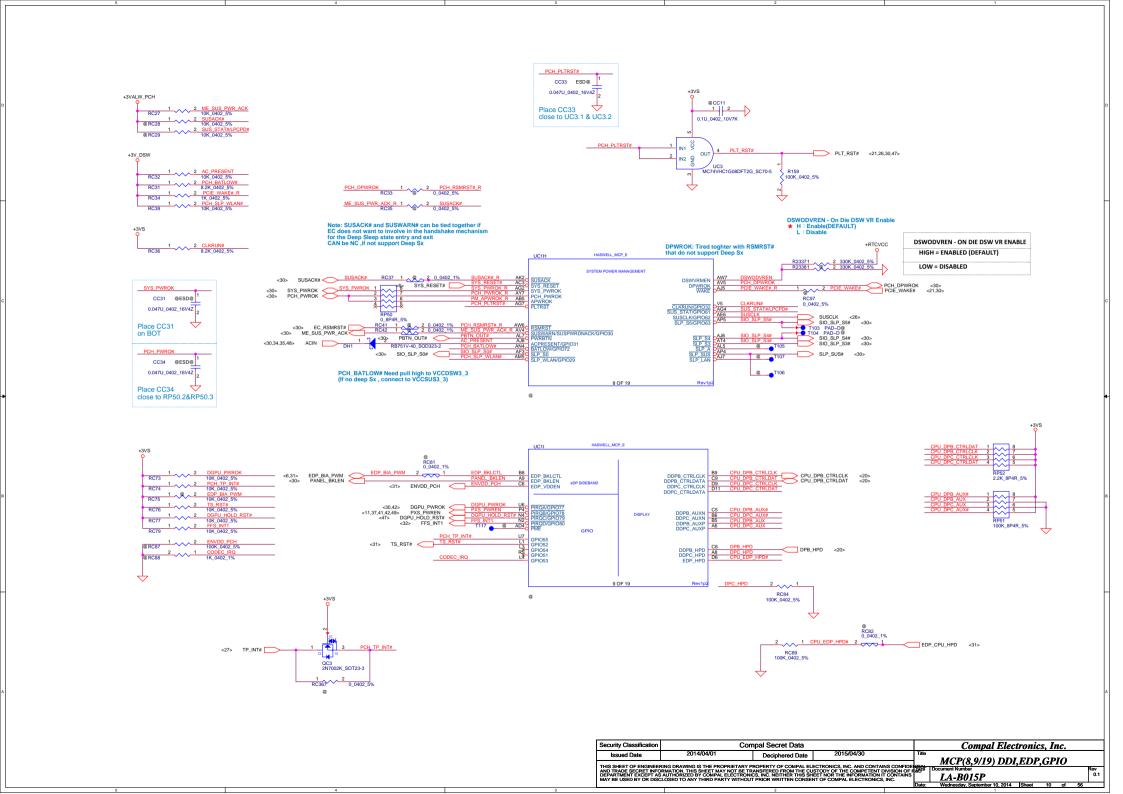


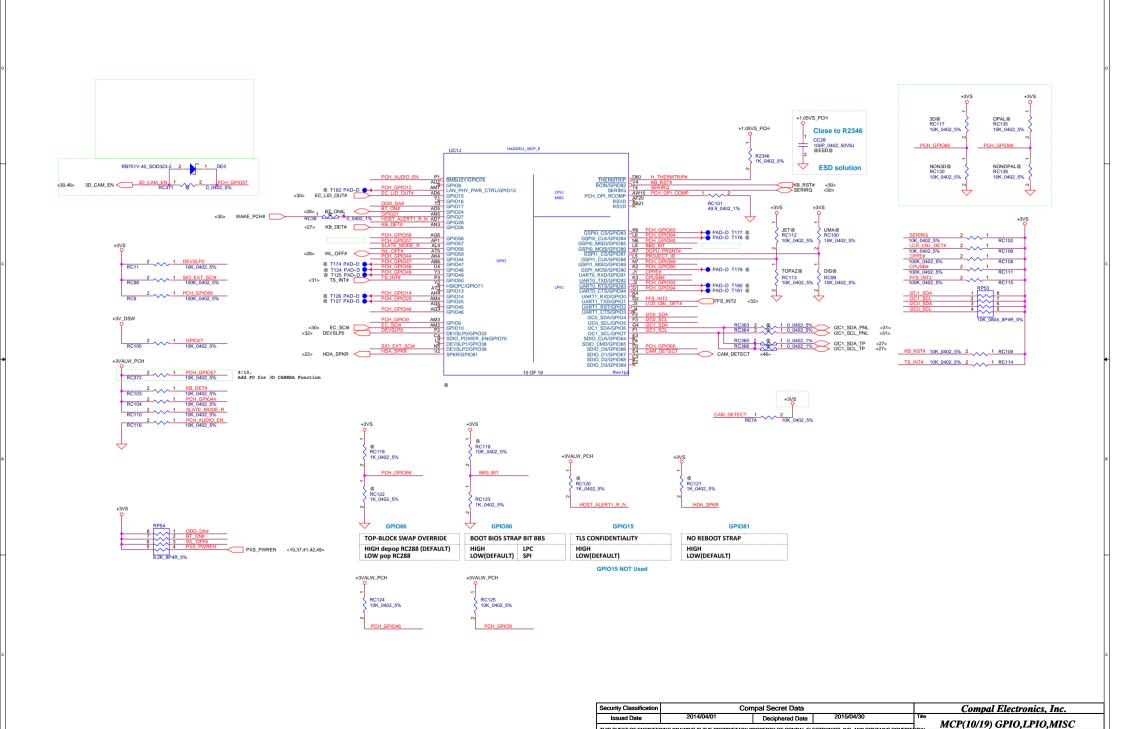


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ſ	Issued Date	2014/04/01	Deciphered Date	2015/04/30	Title	146D/2 4/40) DD1					
ı	THIS SHEET OF ENGINEER	ING DRAWING IS THE PROPRIETARY P	ROPERTY OF COMPAL FL	ECTRONICS INC. AND CONTAINS CONF	IDFINE	MCP(3,4/19) DDI	<u> </u>				
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					Date:	Wednesday, September 10, 2014	Sheet	7	of	56	

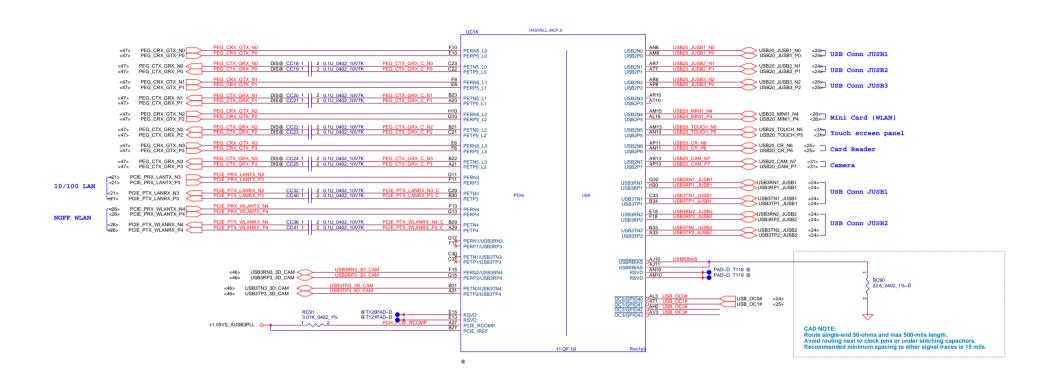


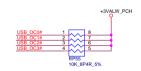




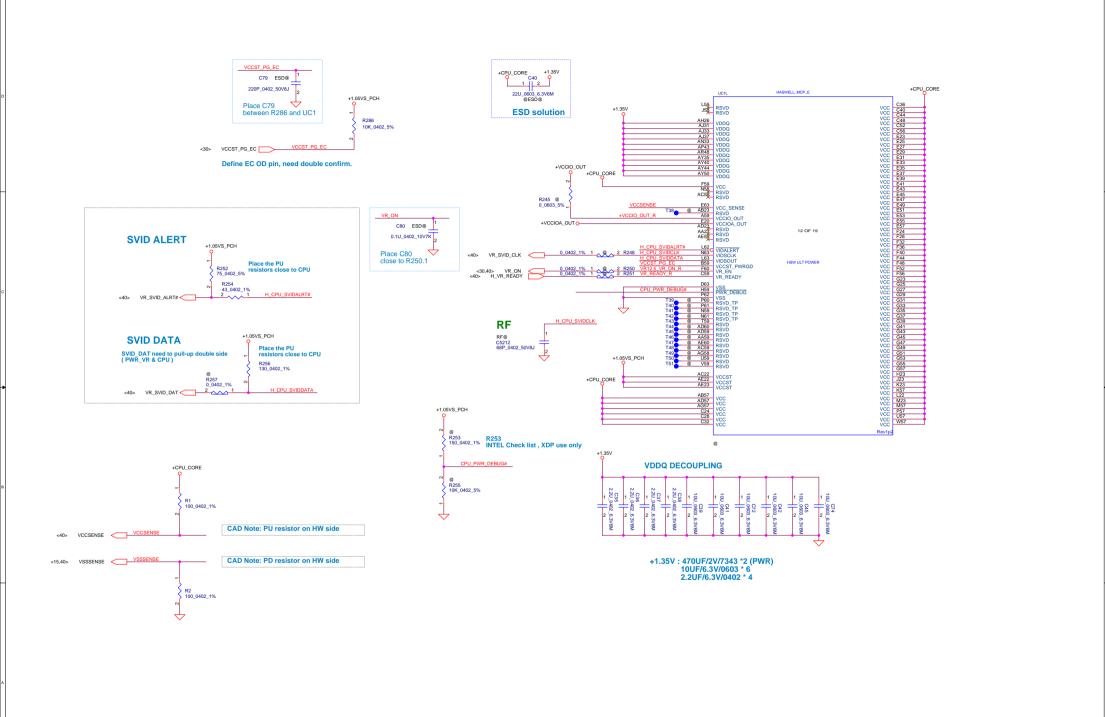


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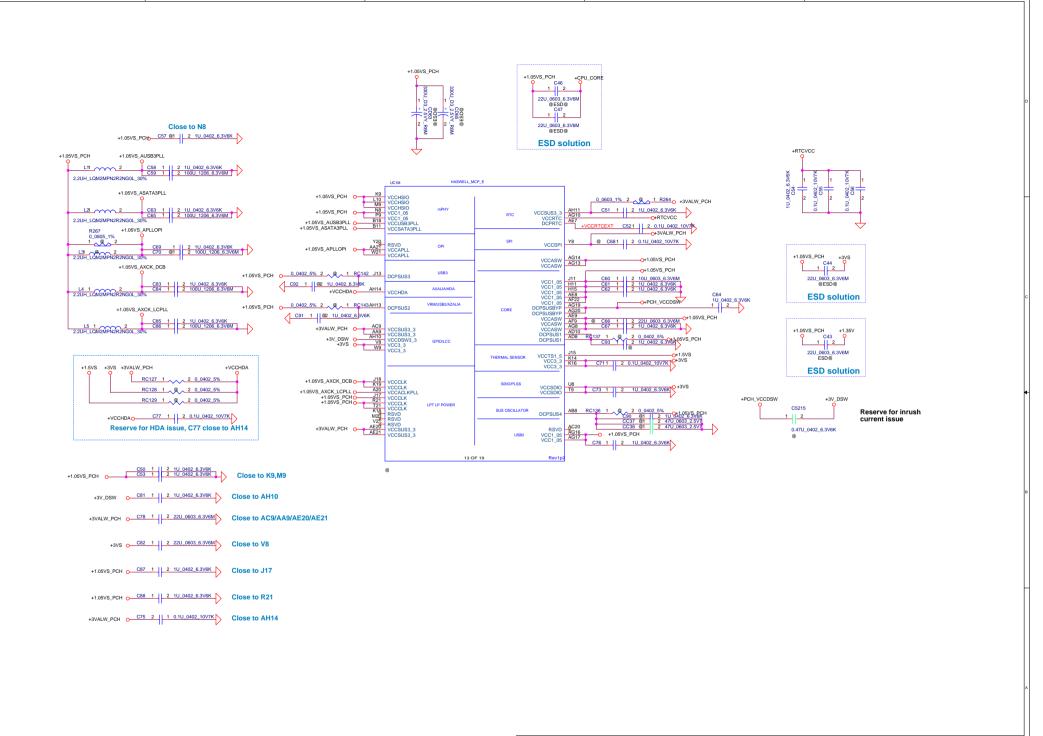




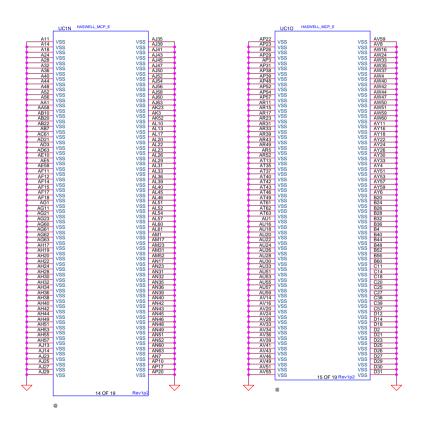
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				Date:	Wednesday, September 10, 2014 Sheet	12	of	56	

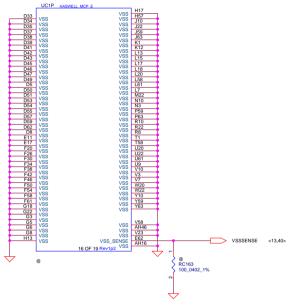


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				Date:	Friday, October 17, 2014	Sheet	13	of	56	•



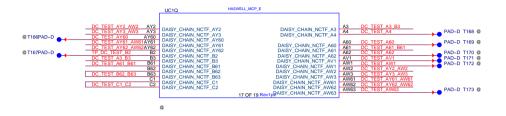
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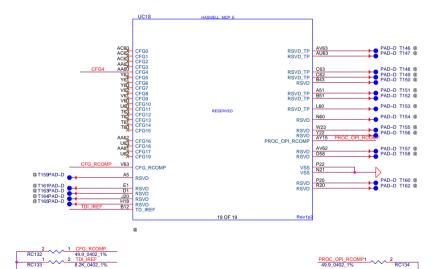


CAD Note: RC163 SHOULD BE PLACED CLOSE TO CPU

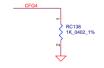
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				Date:	Wednesday, September 10, 2014 Sheet 15	of :	56





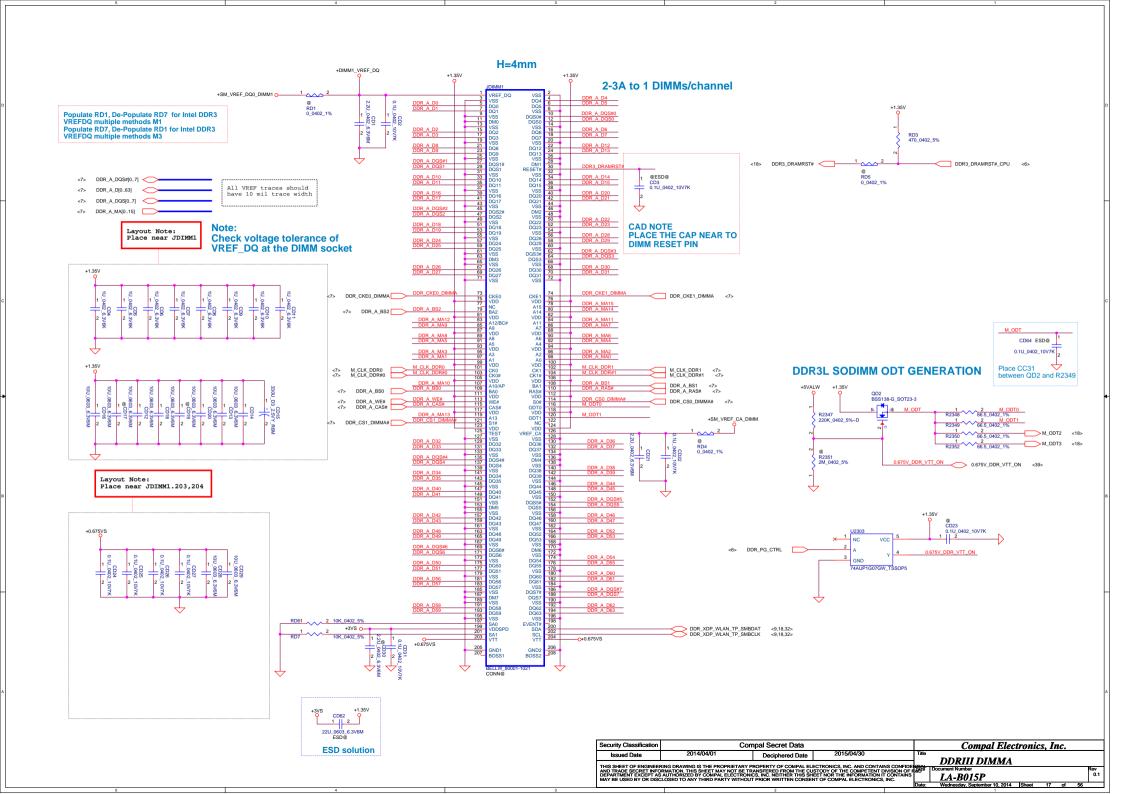


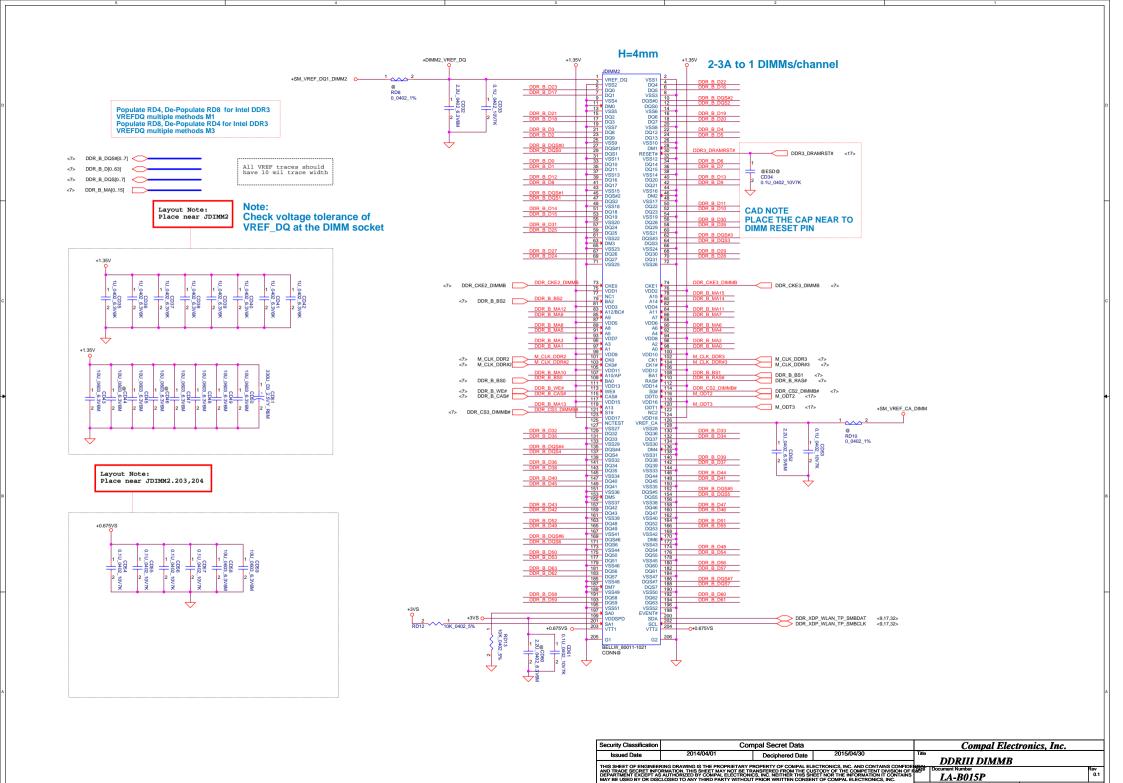
CFG STRAPS for CPU

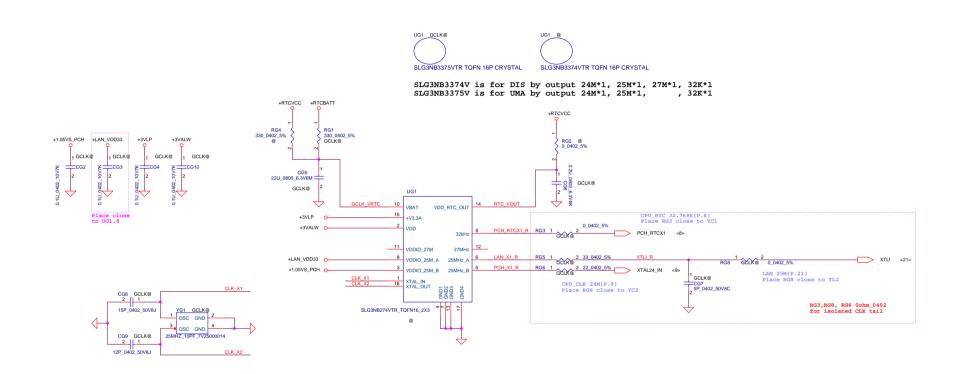


	Display Port Presence Strap
CFG4	1: Disabled; No Physical Display Port attached to Embedded Display Port
	0: Enabled; An external Display Port device is connected to the Embedded Display Port

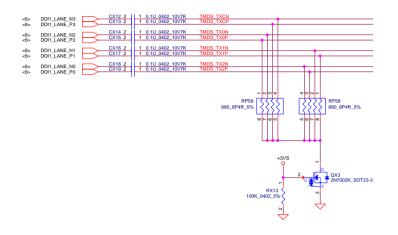
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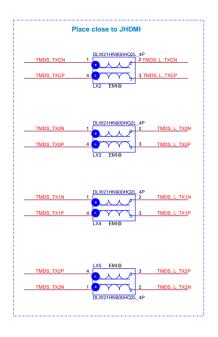


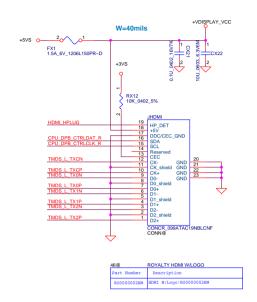


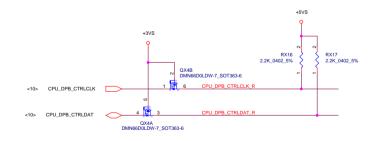


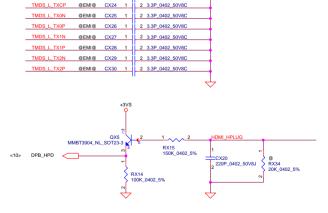
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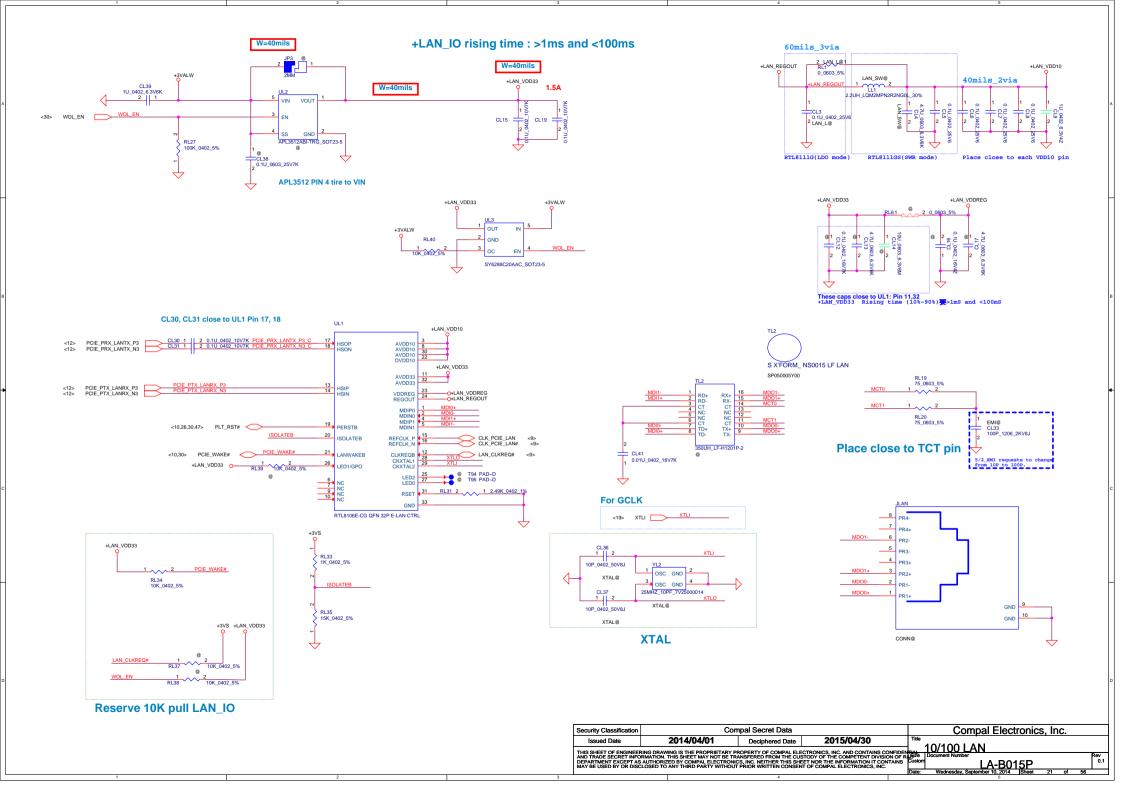


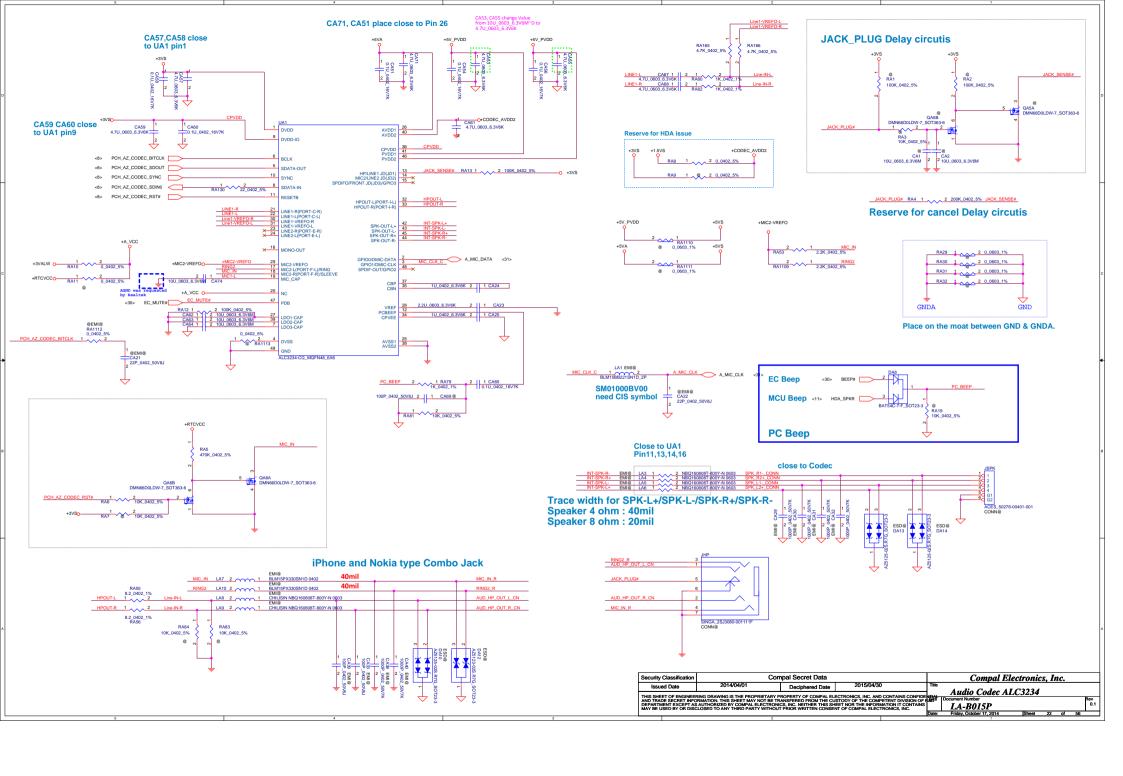


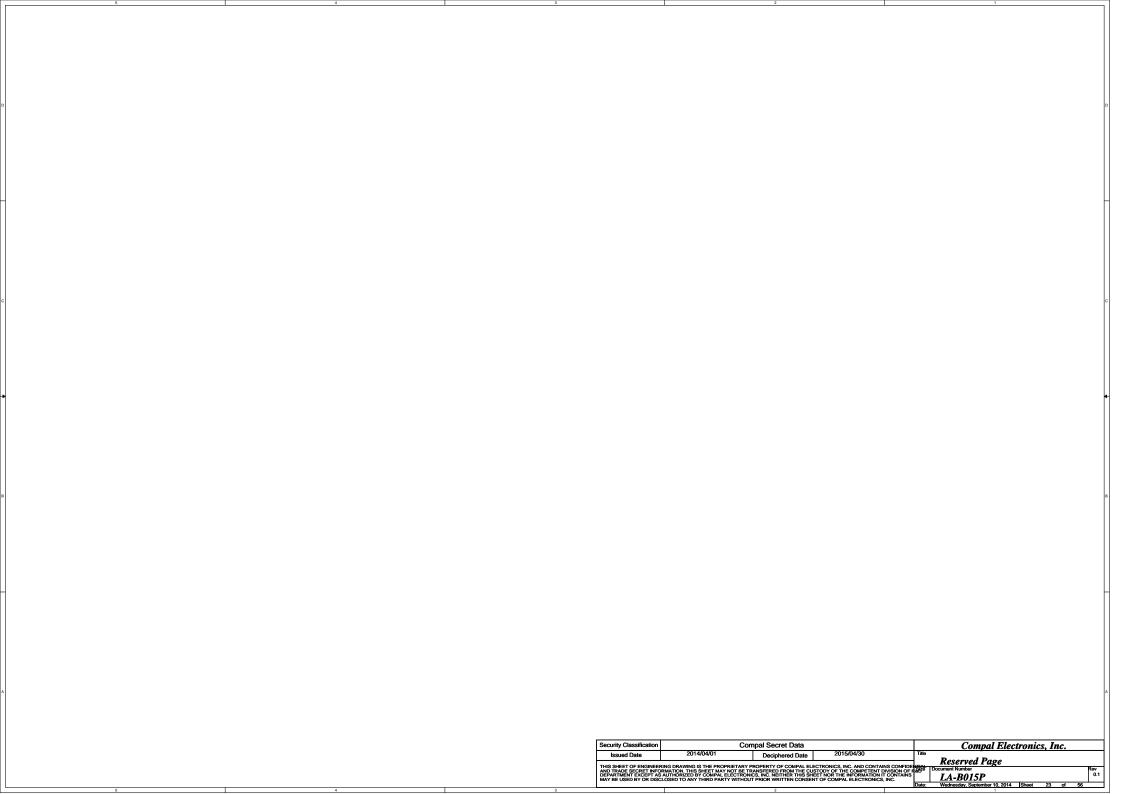


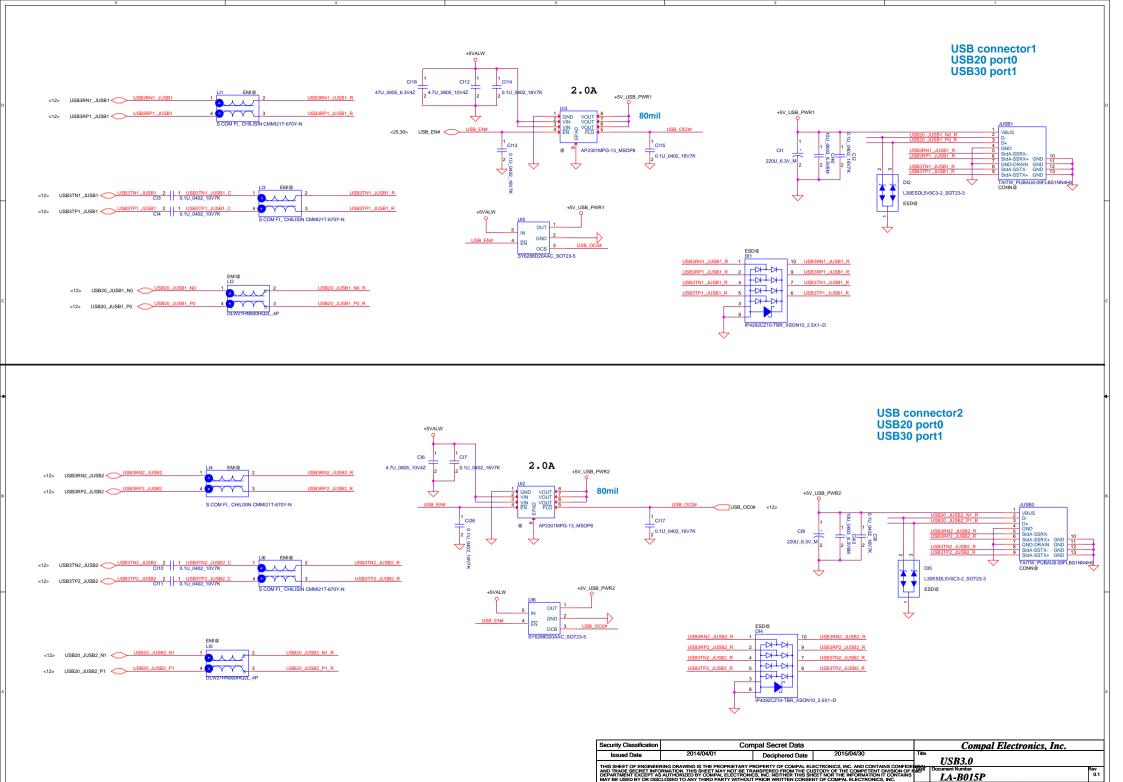
TMDS_L_TXCN @EMI@ CX23 1 2 3.3P_0402_50V8C

Security Classification		npal Secret Data			Compal Electronics, In-	c.	
Issued Date	2014/04/01	Deciphered Date	2015/04/30	Title	HDMI		
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				Date:	Tuesday Sentember 16 2014 Sheet 20 of	56	

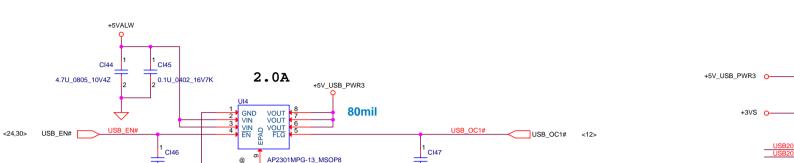




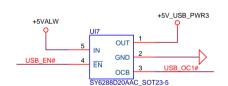


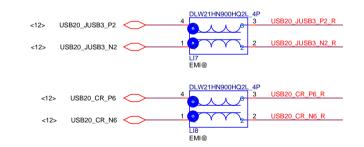


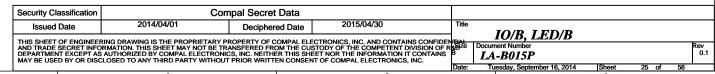
IO to MB CONN Substitute:SP01001FS00 17 GND GND ACES 51524-0160N-001 CONN@ LED/B TO M/B SP01001A900 +3VALW EC +5VS +5VALW G1 G2 ACES_51524-0080N-001 CONN@



0.1U_0402_16V7K





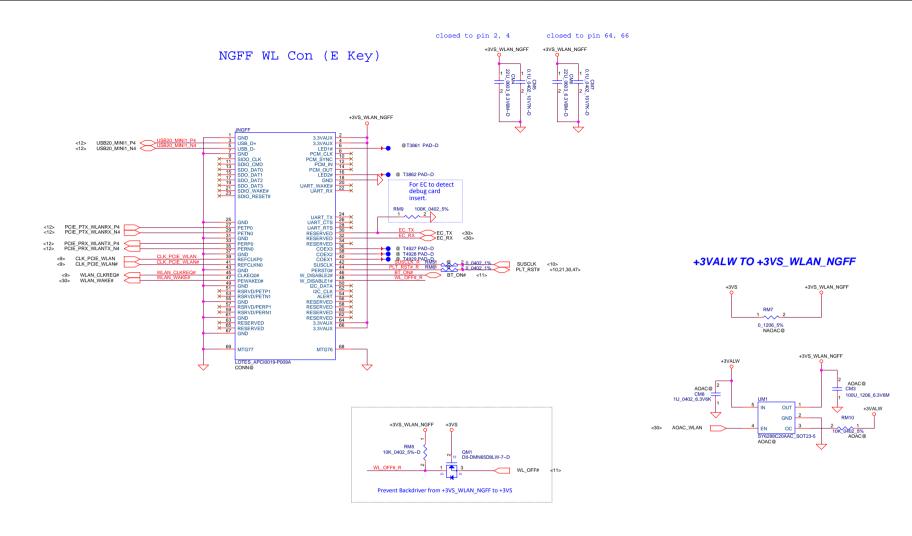


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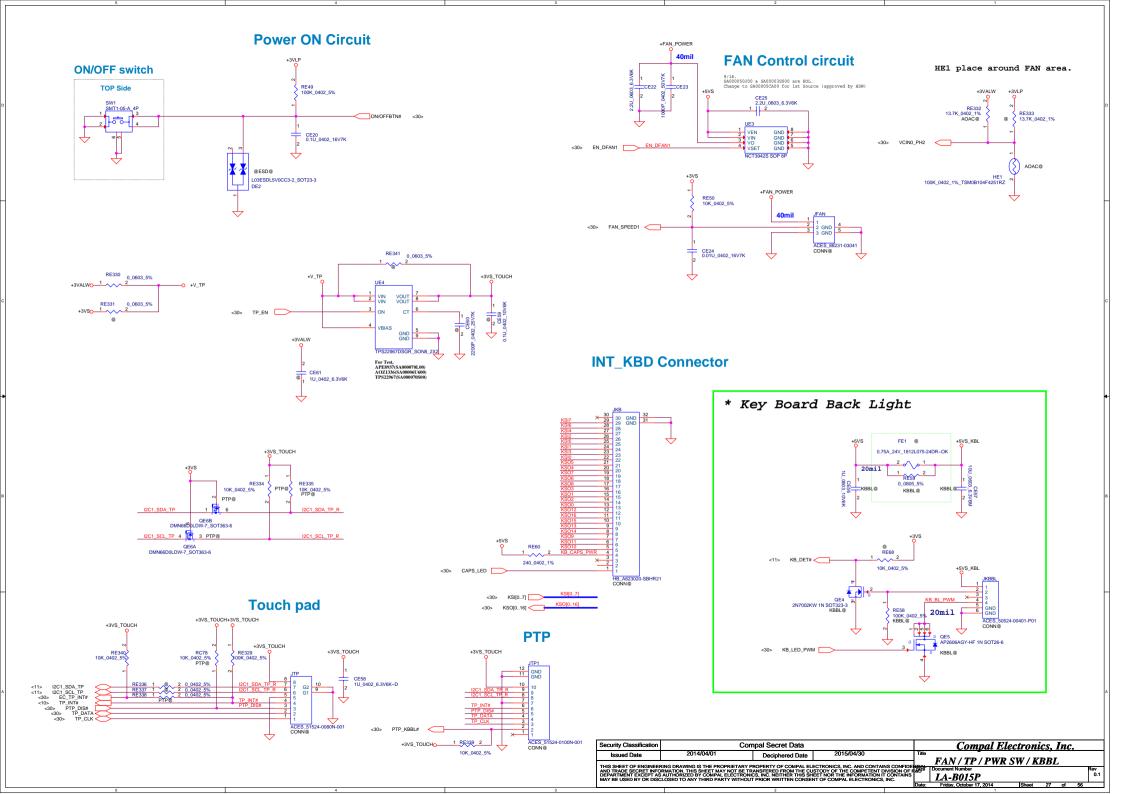
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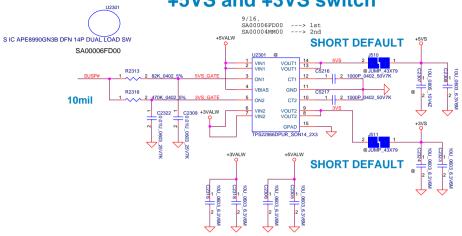
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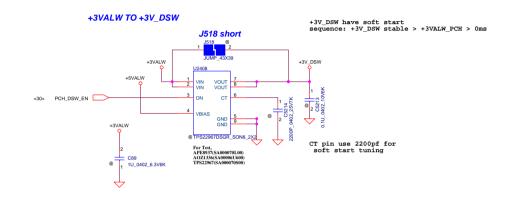


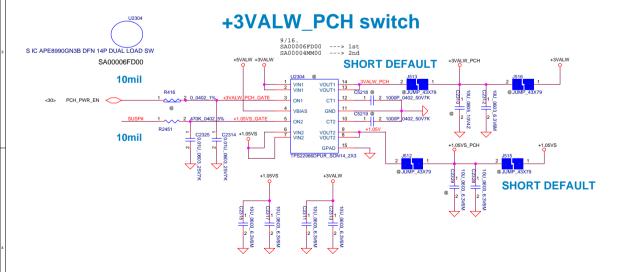
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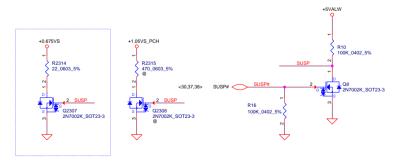


+5VS and +3VS switch





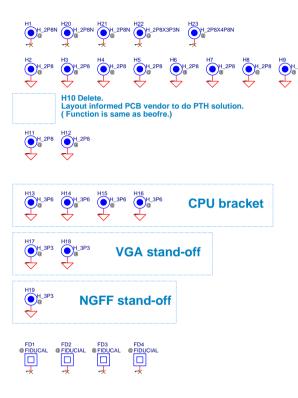




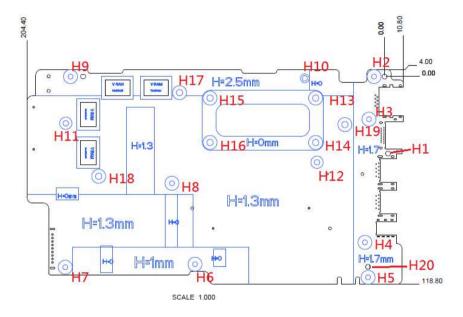
For Intel S3 Power Reduction

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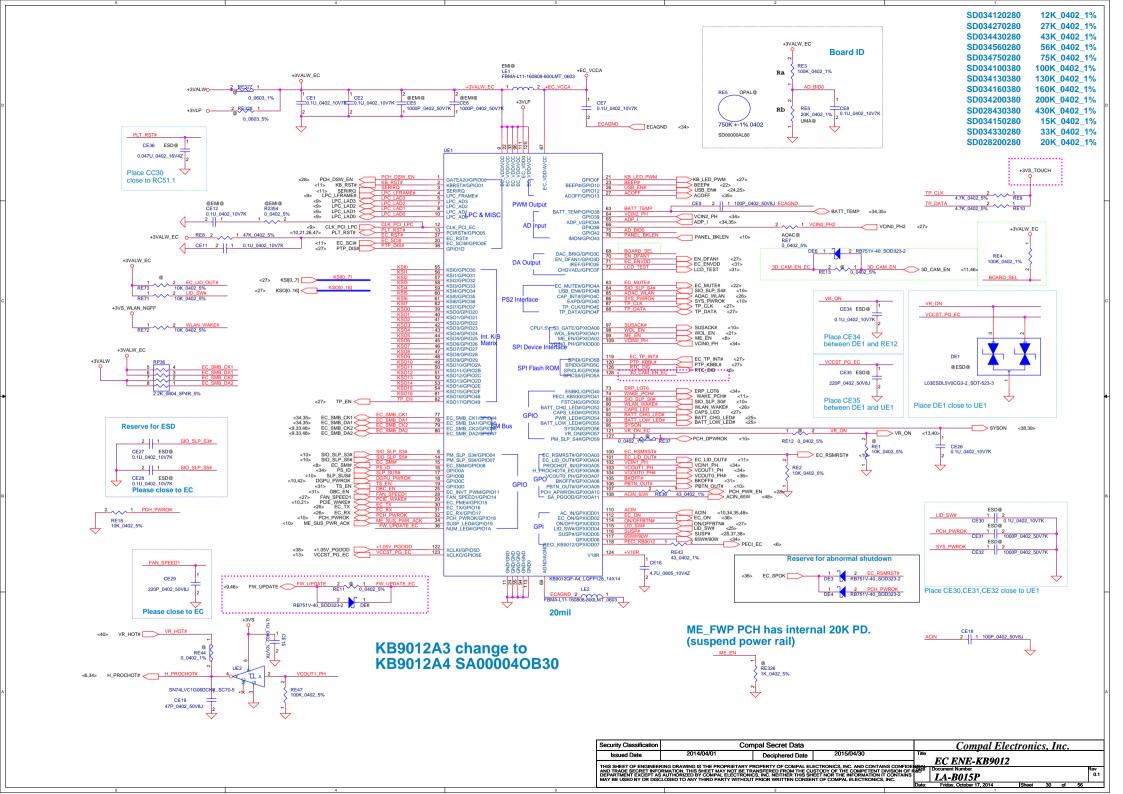
Screw Hole

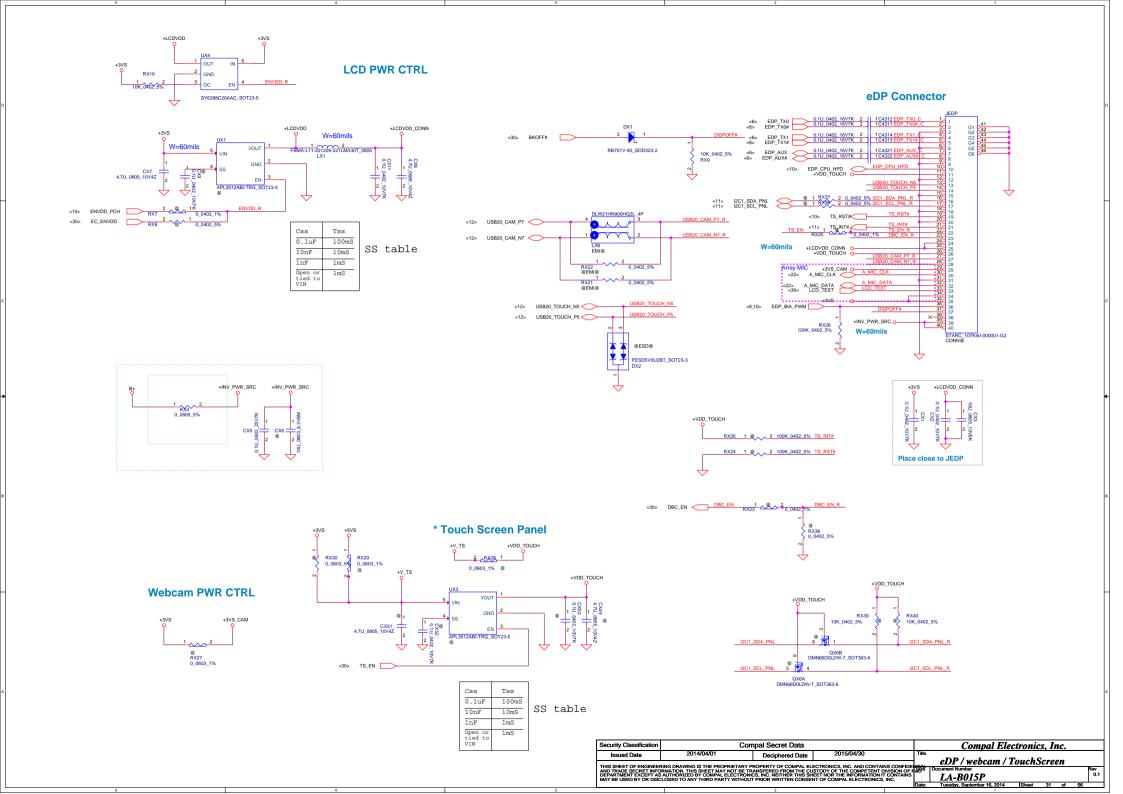




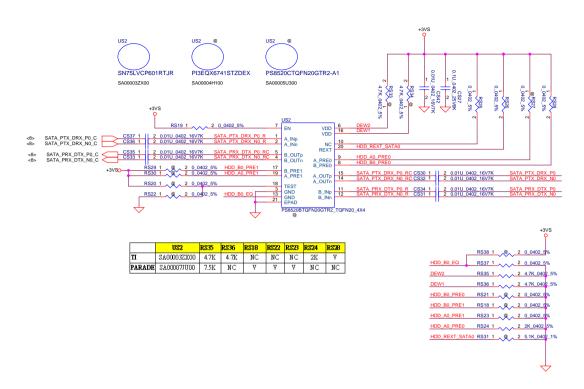


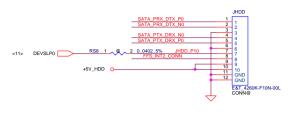
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SATA HDD Connector

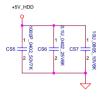


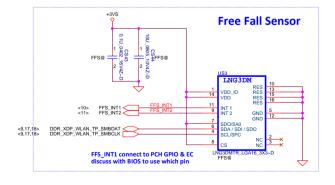


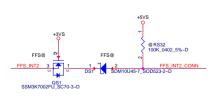
+5V HDD Source



SHORT DEFAULT

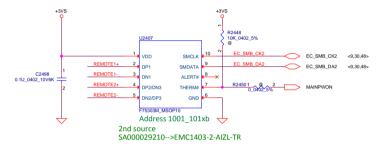


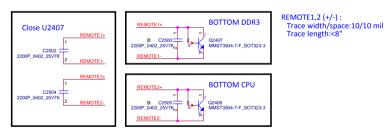




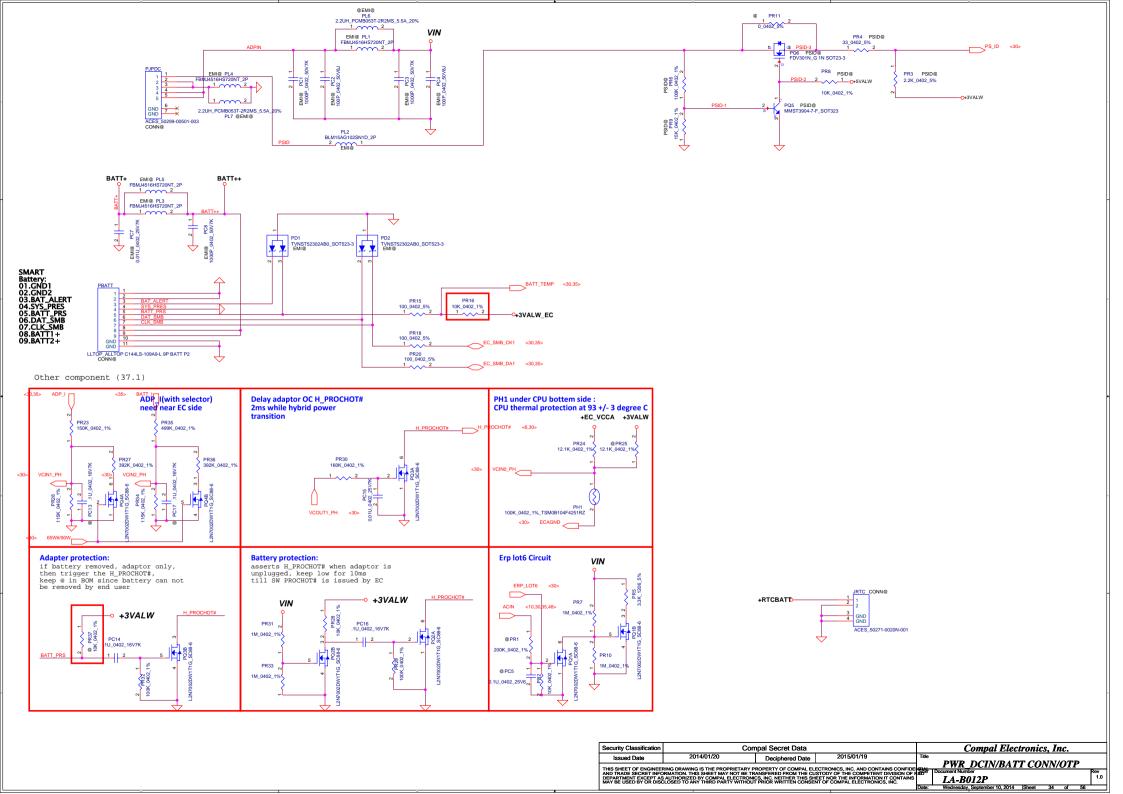
Security Classification	•••	npal Secret Data			Compal Electronics, Inc		
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MAY BE USED BY OR DISC	CLOSED TO ANY THIRD PARTY WITHOUT	PRIOR WRITTEN CONSEI	NT OF COMPAL ELECTRONICS, INC.	Doto:	Worknesday Sentember 10, 2014 Sheet 32 of	- 56	_

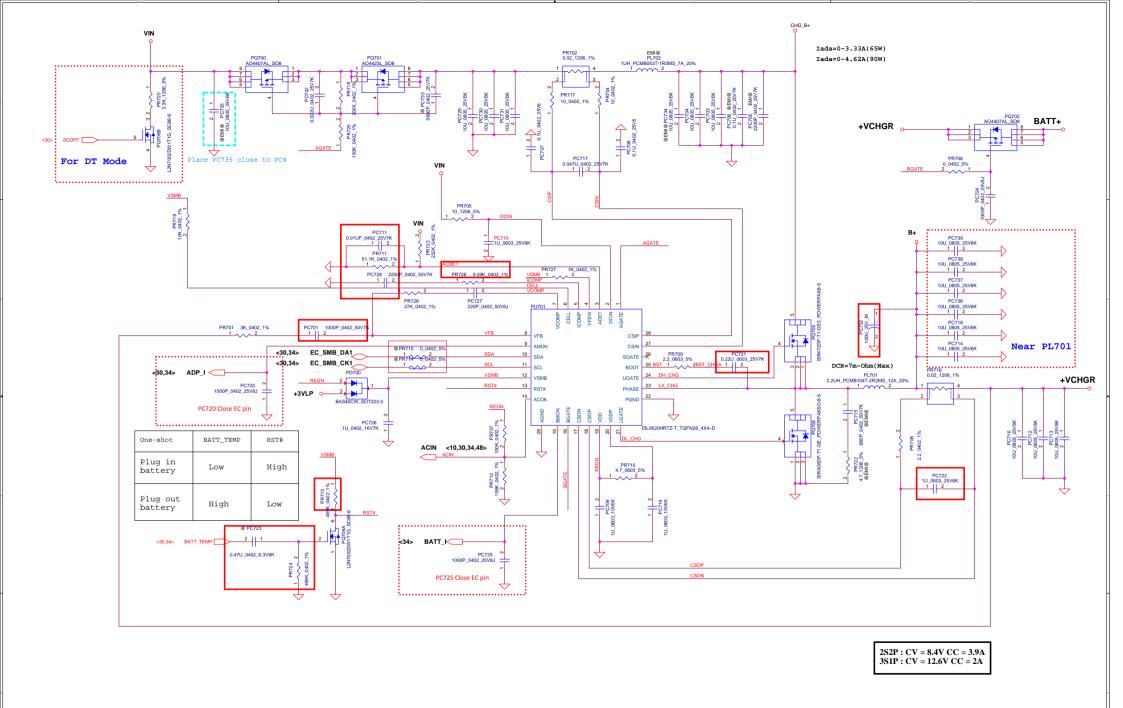
Fintek thermal sensor placed near by TOP DDR3



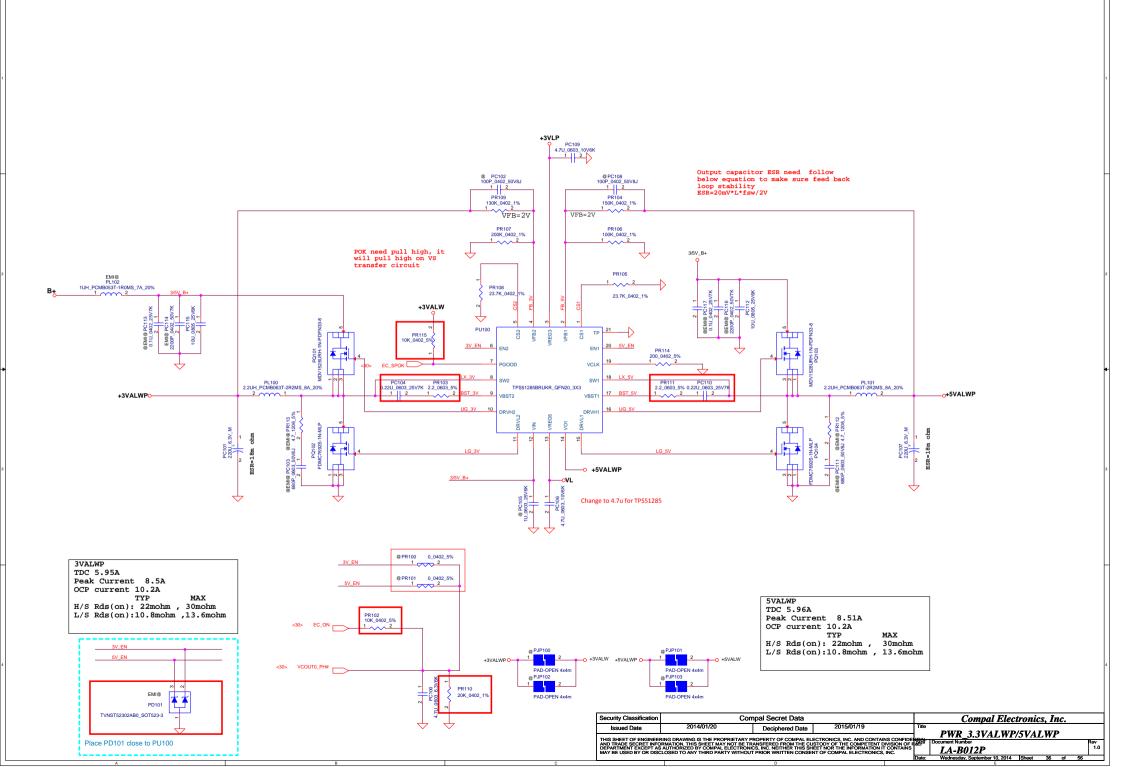


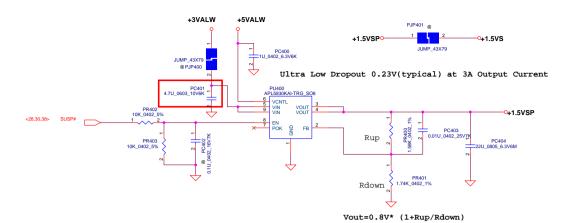
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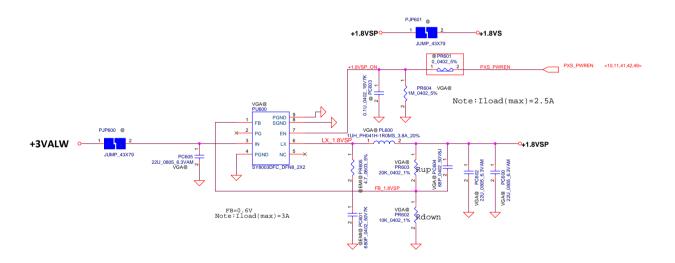




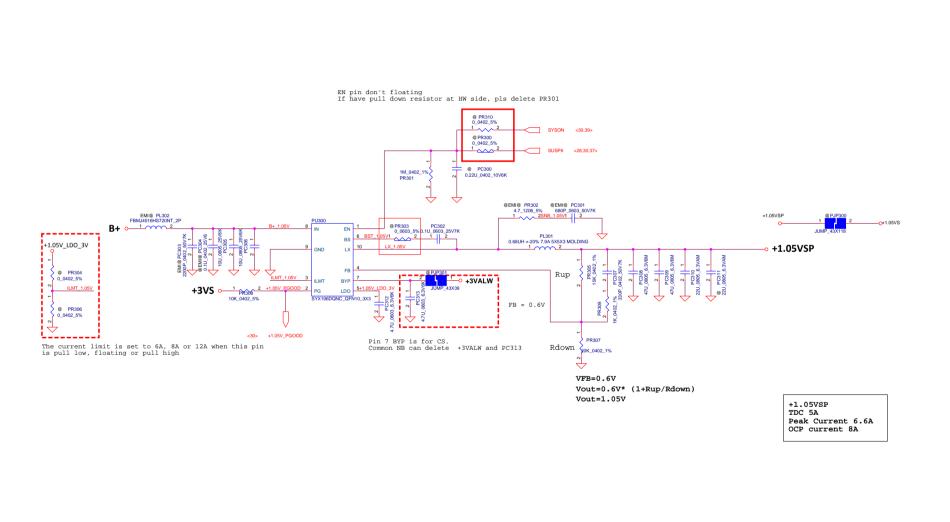
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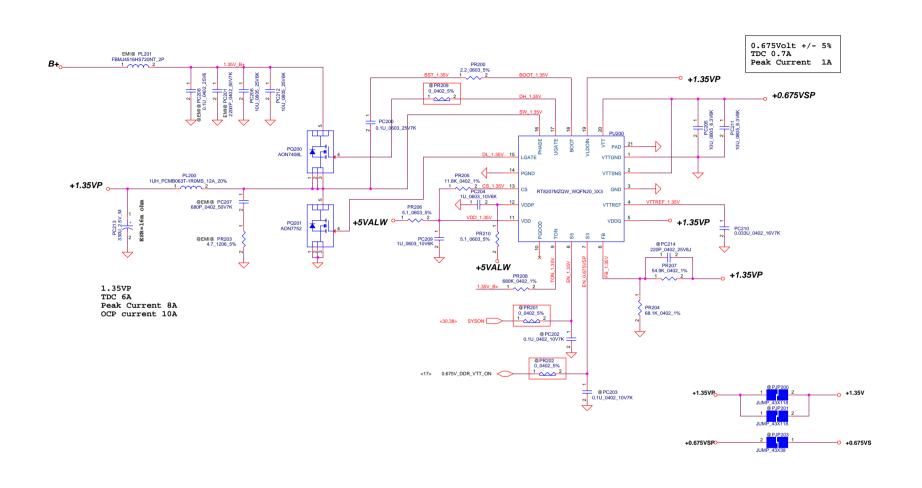


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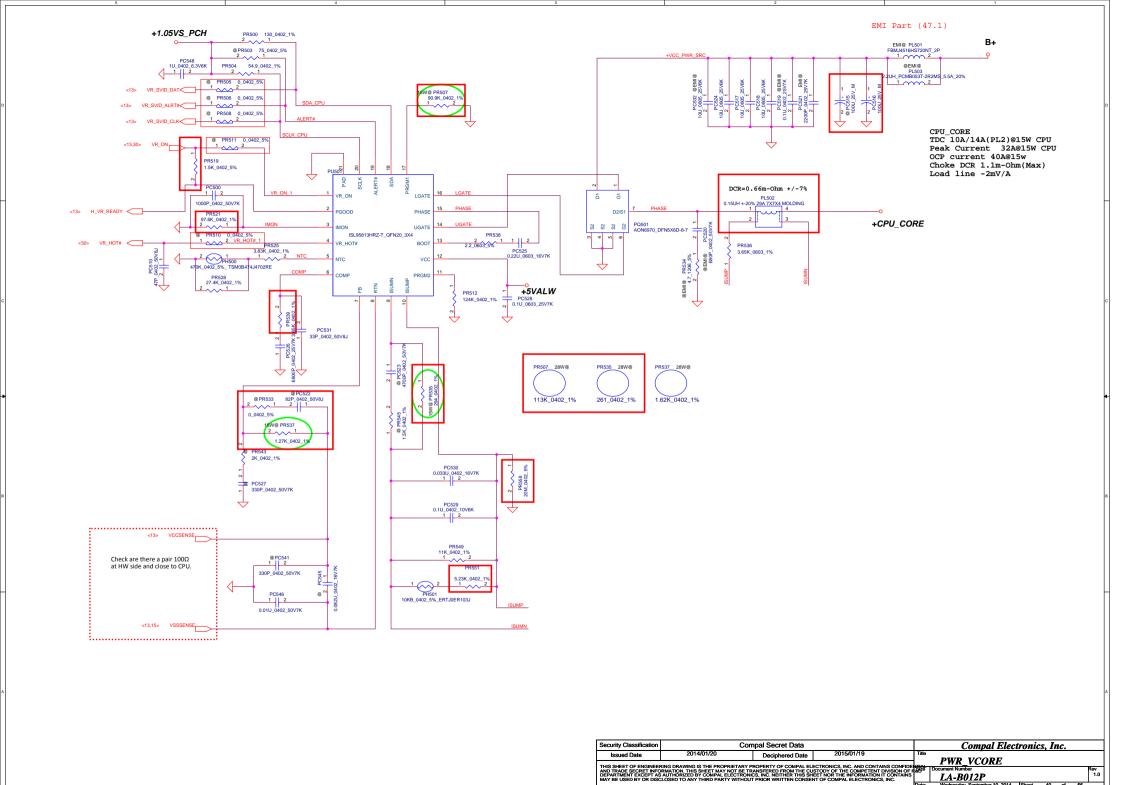
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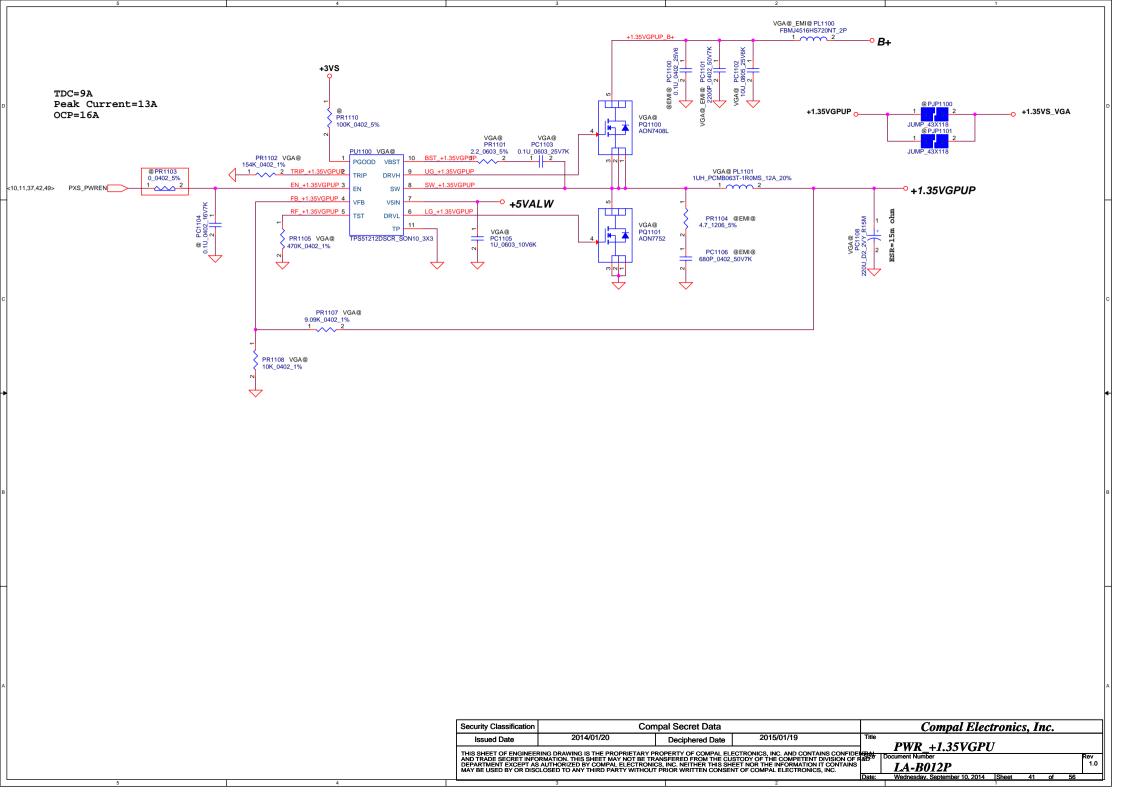
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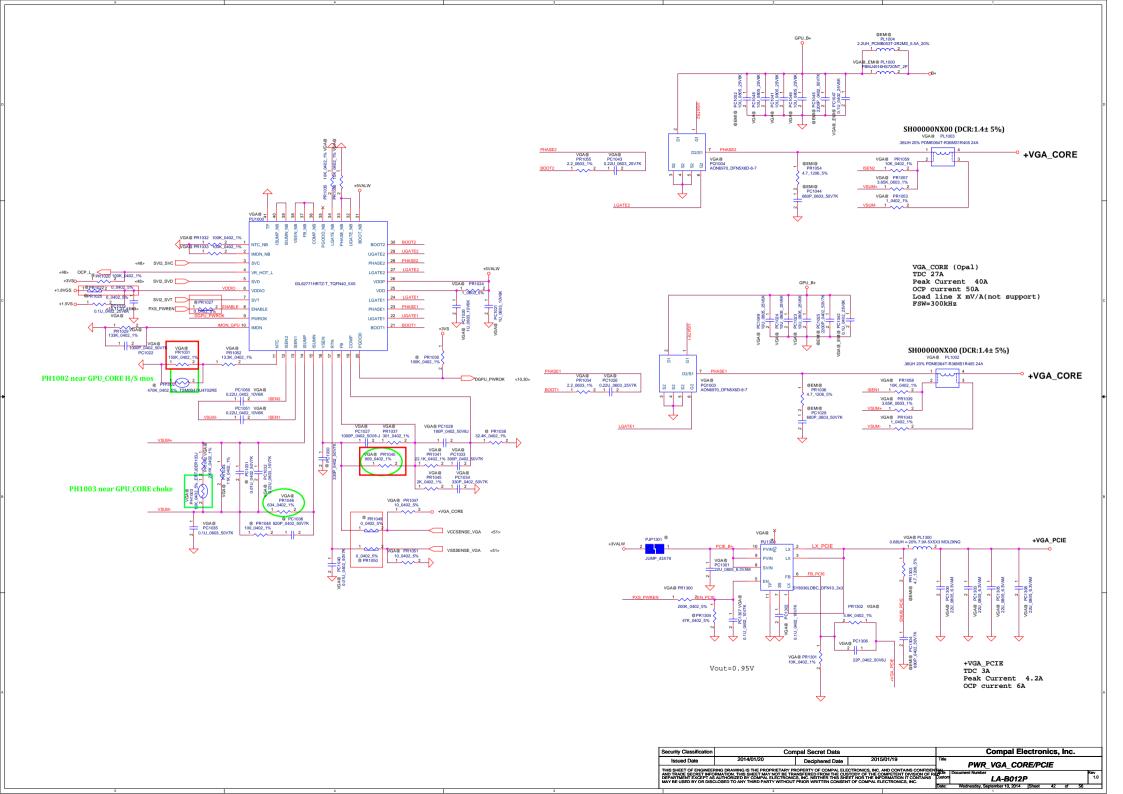
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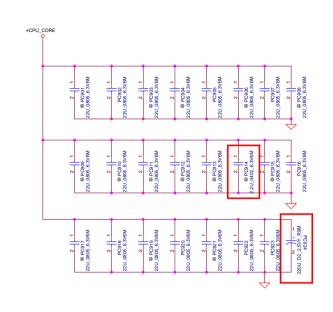


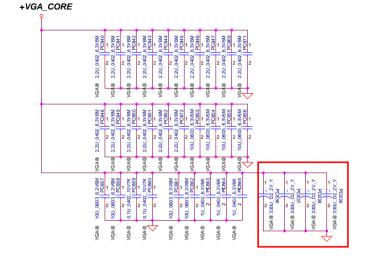
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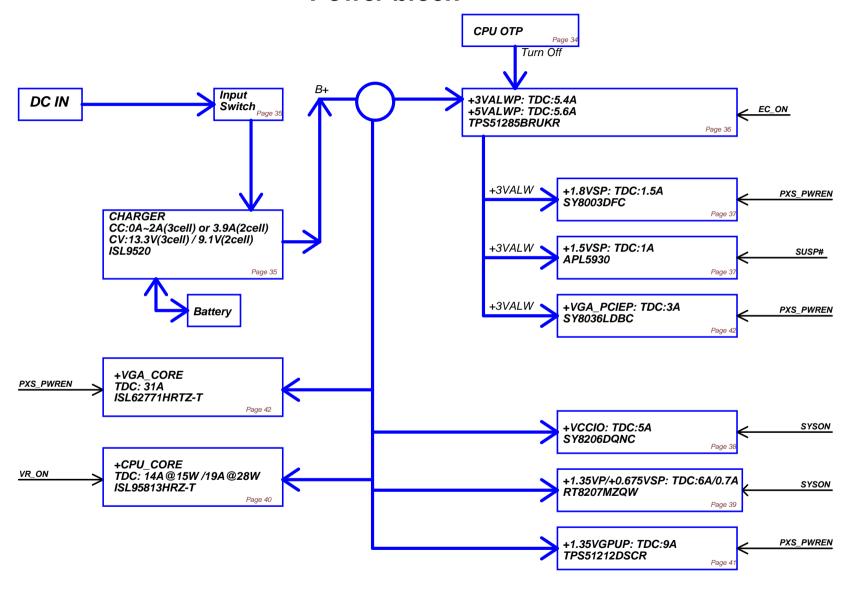








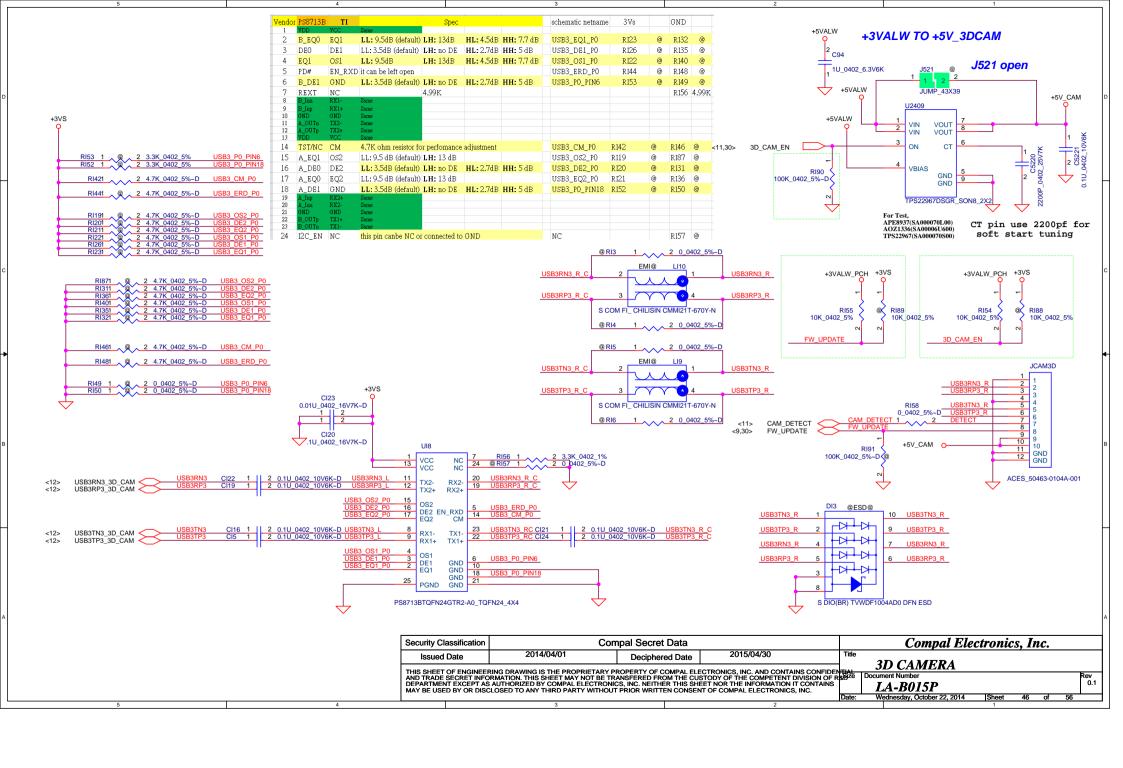
Power block

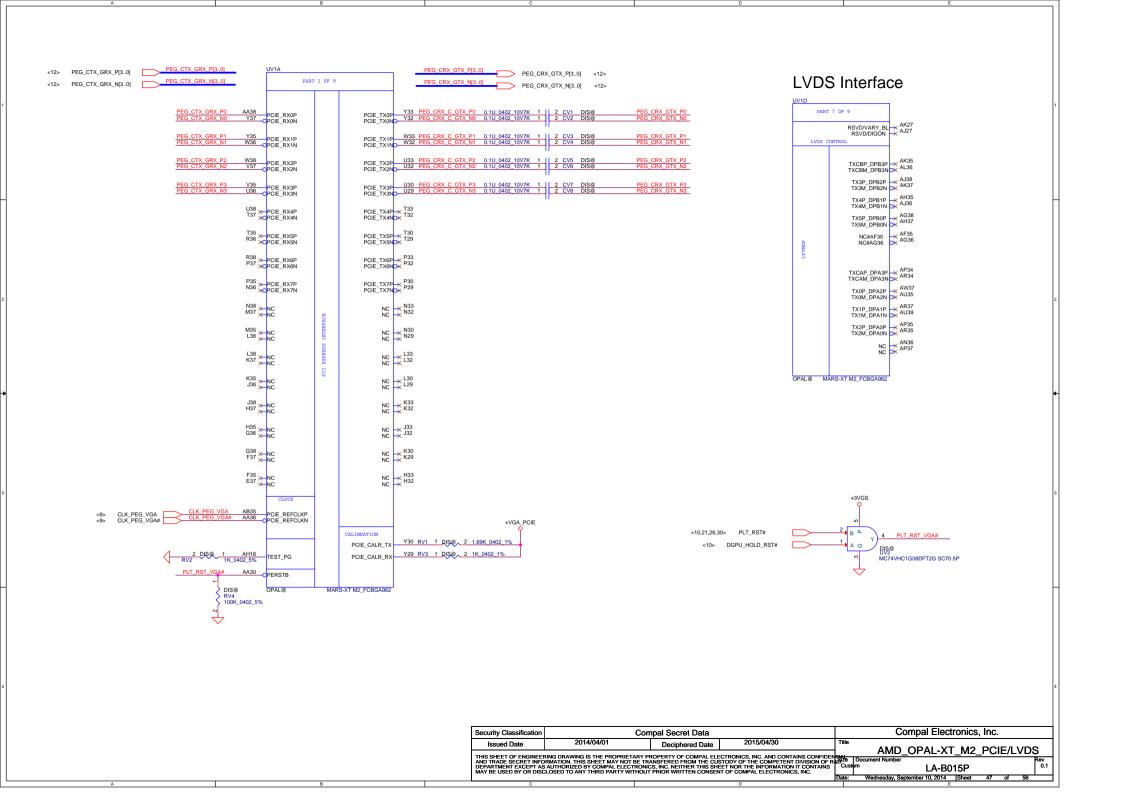


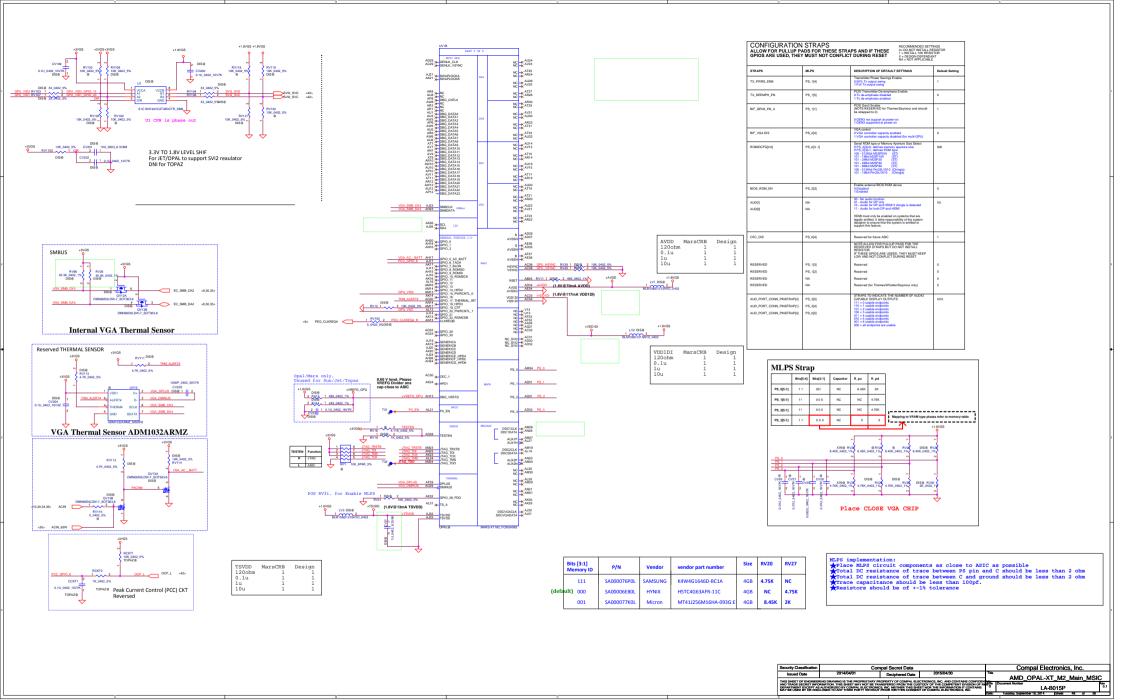
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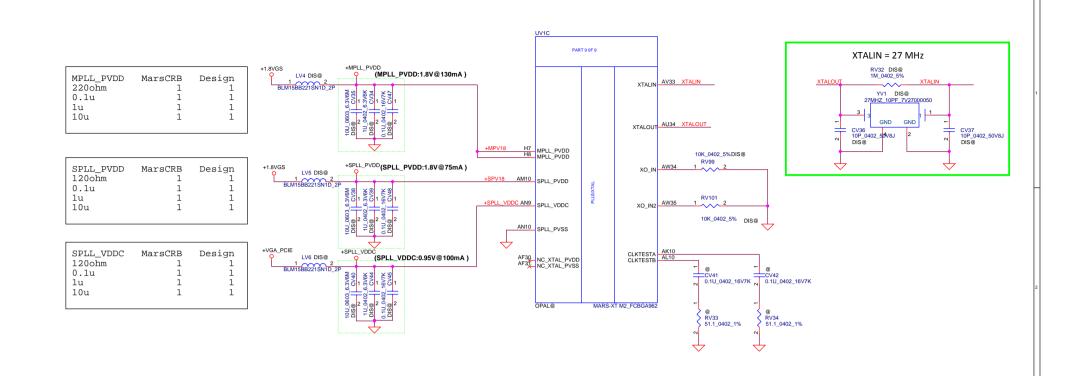
				Versi	on Change List (P. I. R. List)	Page 1	
Item	Page#	 Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	44	DCIN/BATT CONN/OTP	13/10/24	Morris	design change	change PR16 from 100K to 10K add PR37 10K	0.2
2	45	CHARGER	13/10/24	Morris	design change	change PC711 from 1000PF to 0.01uF change PR711 from 49.9K to 51.1K change PR713 from 10K to 499K change PR724 from 100K to 499K change PC721 from 0.047u to 0.22u change PC722 from 0.1u to 1u add PC732 100u	0.2
3	46	3.3VALWP/5VALWP	13/10/24	Morris	design change for solve can't root issue change PC104 from 0.1u to 0.22u change PC110 from 0.1u to 0.22u change PR102 from 2.2K to 10K add PR110 20K		0.2
4	50	Adjust CPU parameter change PR507(15We) from 90.9K to 169K change PR519 from 1.91K to 10K change PR521 from 95.3K to 97.6K change PR539 from 8.06K to 909 change PC515,PC516 from SF000005100 to SF000004M00 change PL502 from SH00000NM00 to SH00000PQ00 change PR535(15We) from 340 to 210 change PR537 from 1.27K to 1.37K change PR537(28We) from 432 to 261 change PR507(28We) from 13K to 205K change PR551 from 2.61K to 5.23K add PC522 82pF add PR533 0-ohm		change PR519 from 1.91K to 10K change PR521 from 95.3K to 97.6K change PR529 from 8.06K to 909 change PC515,PC516 from SF000005100 to SF000004M00 change PL502 from SE00000XM00 to SH00000PQ00 change PR535(15W0) from 340 to 210 change PR537 from 1.27K to 1.37K change PR535(28W0) from 432 to 261 change PR537(28W0) from 113K to 205K change PR551 from 2.61K to 5.23K add PC522 82pF	0.2		
6	52	VGA_CORE/PCIE	13/10/24	Morris	design change from vendor change LL	change PR1040 from 1.24K to 825	0.2
7	53	PROCESSOR DECOUPLING	13/10/24	Morris			0.2
8	45	CHARGER	13/10/28	Morris	design change for plug out battery shut down issue	change PC723 from 0.01uF to 0.47uF change PR728 from 0 to 9.09K change PC728 from 4700pF to 2200pF change PC701 from 220pF to 1000pF	0.2
9	46	3.3VALWP/5VALWP	13/12/12	Morris	design change from EE request	add PR115 10K-ohm	0.3
10	50	VCORE	13/12/12	Morris	design change from Intel recommend	change PR519 from 10K to 1.5K	0.3
11	48	+VCCIO	13/12/13	Morris	design change from EE request	delete PR310 and add PR300 0-ohm	0.3
12	50	VCORE	14/01/20	Morris	adjust CPU parameter	change PR507(15We) from 169K to 90.9K change PR507(28We) from 205K to 113K	1.0
13	53	PROCESSOR DECOUPLING	14/02/13	Morris	design change from thermal request	change PC836 PC837 PC838 PC839 from SGA20331E10 to SGA00006A00	1.0
14	50	VCORE	14/03/03	Morris	design change for VGA thermal issue	change PC836 PC837 PC838 PC839 from SGA20331E10 to SGA00006A00	1.0

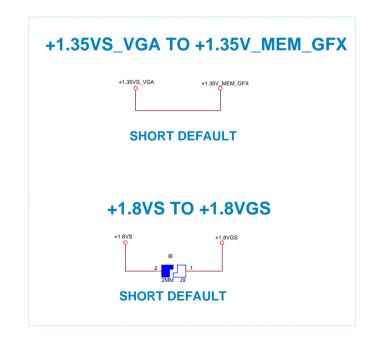
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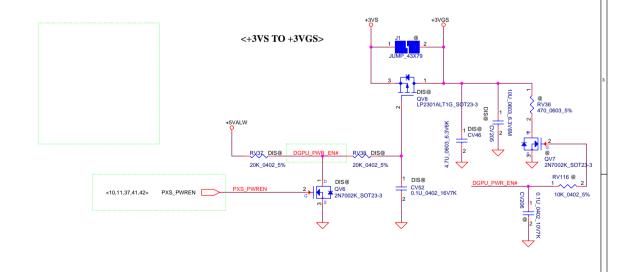












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