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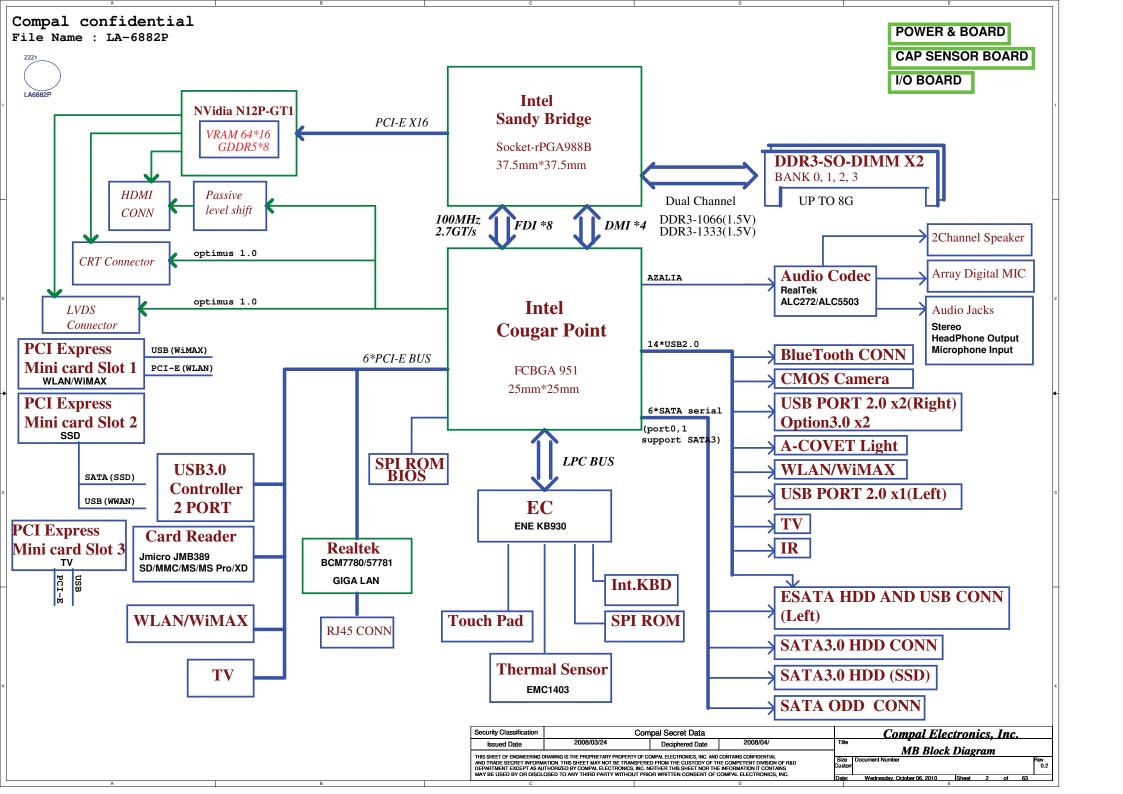
PIQY1 M/B Schematics Document

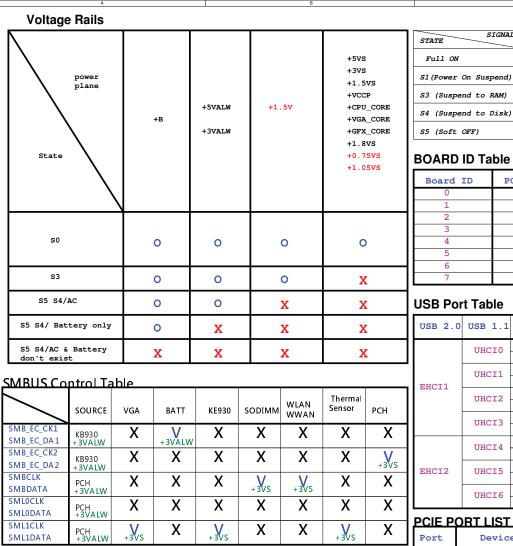
Intel Sandy Bridge Processor with DDRIII + Cougar Point PCH nVIDIA N12P-GT1

2010-10-05

REV:0.2

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C SM Bus	Addres 1 addre	
SML1DATA	PCH +3VALW	+

EC SM Bus2 address

Device		Device	Address
Smart Battery	0001 011X b	Thermal Sensor EMC1403-2	1001_101xb
		Thermal Sensor EMC1402-1	100_1100 b

PCH SM Bus address

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

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

BOARD ID Table

Board ID / SKU ID Table for AD channel

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

1	Vcc	3.3V +/- 5%				
l	Ra/Rc/Re	10K +/- 5%				
l	Board ID	Rb / Rd / Rf	V_{AD_BID} min	V _{AD_BID} typ	V_{AD_BID} max	
l	0	0	0 V	0 V	0 V	EVT
l	1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V	DVT
l	2	18K +/- 5%	0.436 V	0.503 V	0.538 V	PVT
ı	3	33K +/- 5%	0.712 V	0.819 V	0.875 V	MP
l	4	56K +/- 5%	1.036 V	1.185 V	1.264 V	
l	5	100K +/- 5%	1.453 V	1.650 V	1.759 V	
I	6	200K +/- 5%	1.935 V	2.200 V	2.341 V	
	7	NC	2.500 V	3.300 V	3.300 V	

_ . .

USB Port Table

	USB 2.0	USB 1.1	Port	4 External USB Port
1		UHCI0	0	USB Port (Left Side)
l		OHCIO	1	USB Port (Left Side)
		UHCI1	2	USB Port (Right Side)
	EHCI1	OHCII	3	USB Port (Right Side)
1	Encii	UHCI2	4	Camera(3D)
ı			5	Camera
ı			6	
1			7	
ı	EHCI2	UHCI4 UHCI5	8	IR
1			9	Mini Card(WLAN)
ı			10	A Cover Light
1			11	
ı			12	Mini Card(TV)
l		511010	13	Blue Tooth

BOM Structur	e Table
BOM Structure	BTO Item
OPTI@	OPTIMUS part
DIS@	Discrete part
UMA@	UMA part
DIS_ONLY@	Discrete only part
HDMI@	HDMI part (DIS and UMA)
UMA_HDMI@	HDMI part (UMA)
DIS_HDMI@	HDMI part (DIS)
USB20@	USB20 option (Right side 2 ports)
USB30@	USB30 option (Right side 2 ports)
USB30_SUB@	USB30 part at sub-board
TV@	TV module part
TV_SW@	TV module power swith part
NO_TVSW@	No TV module power swith part
USB_CHG@	USB charger part
NO_CHG@	No USB charger part
272@	ALC272 audio codec part
5503@	ALC5503 audio codec part
57780@	BCM57780 LAN part
57781@	BCM57781 LAN part
ACOVER@	A cover light part
BT@	Blue Tooth part
CMOS@	CMOS Camera part
ESATA@	E-SATA part
VENTURA@	NVDIA VENTURA function part
X76@	X76 Level part
S1G@	Samsun VRAM 1G part

Samsun VRAM 2G part

Hynix VRAM 1G part

ME part

Unpop

Port	Device
1	LAN
2	WLAN
7	

2	WLAN
3	
4	USB3.0
5	Card Reader
6	TV
7	
8	

SKU

OPTIMUS	UMA@+DIS@+OPTI@
Discrete only	DIS@+DIS_ONLY@

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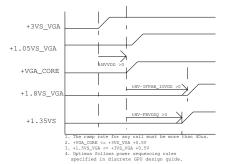
S2G@

H1G@

ME@

VGA and GDDR5 Voltage Rails (N12Px GPIO)

GPIO	I/O	ACTIVE	Function Description
GPIO0	N/A	N/A	
GPIO1	IN	-	Hot plug detect for IFP link C
GPIO2	OUT	н	Panel Back-Light brightness(PWM capable)
GPIO3	OUT	н	Panel Power Enable
GPIO4	OUT	н	Panel Back-Light On/Off (PWM)
GPIO5	OUT	-	GPU VID0
GPIO6	OUT	-	GPU VID1
GPIO7	OUT	N/A	
GPIO8	I/O	-	Thermal Catastrophic Over Temperature
GPIO9	OUT	-	Thermal Alert
GPIO10	OUT	-	Memory VREF Control
GPIO11	I/O	N/A	
GPIO12	IN		AC Power Detect Input (10K pull low)
GPIO13	OUT	N/A	
GPIO14	OUT	N/A	
GPIO15	IN		Hot Plug Detect for IFPE
GPIO16	OUT	N/A	
GPIO17	IN	N/A	
GPIO18	IN	N/A	
GPIO19	IN	N/A	



Performance Mode P0 TDP at Tj = 102 C* (GDDR5)

		GPU (4)	Mem (1,5)	NVCLK /MCLK		NVVDD	ı	FB\ (1.3	VDD i5V)	FBVE (GPU (1.35)	+Mem)	PCI E (1.05\ (6)	xpress /)	I/O an PLLV (1.8V)	DD	I/O an PLLV (1.05)	DD	Oth (3.3	
Prod	ucts	(W)	(W)	(MHz)	(V)	(A)	(W)	(A)	(W)	(A)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)
N12P 64bit 1GB GDD	P-GT1 R5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

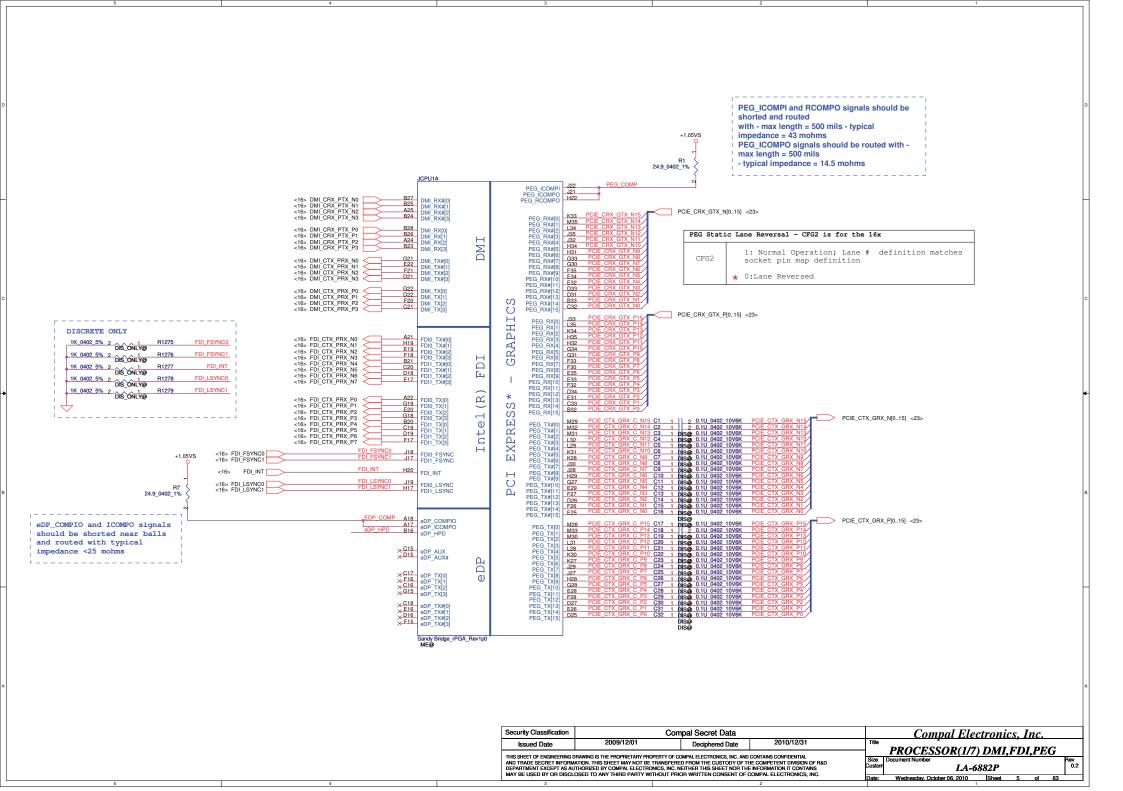
Physical Strapping pin	Power Rail	Logical Strapping Bit3	Logical Strapping Bit2	Logical Strapping Bit1	Logical Strapping Bit0
ROM_SO	+3VS_VGA	XCLK_417	FB_0_BAR_SIZE	SMB_ALT_ADDR	VGA_DEVICE
ROM_SCLK	+3VS_VGA	PCI_DEVID[4]	SUB_VENDOR	SLOT_CLK_CFG	PEX_PLL_EN_TERM
ROM_SI	+3VS_VGA	RAM_CFG[3]	RAM_CFG[2]	RAM_CFG[1]	RAM_CFG[0]
STRAP2	+3VS_VGA	PCI_DEVID[3]	PCI_DEVID[2]	PCI_DEVID[1]	PCI_DEVID[0]
STRAP1	+3VS_VGA	3GIO_PAD_CFG_ADR[3]	3GIO_PAD_CFG_ADR[2]	3GIO_PAD_CFG_ADR[1]	3GIO_PAD_CFG_ADR[0]
STRAP0	+3VS_VGA	USER[3]	USER[2]	USER[1]	USER[0]

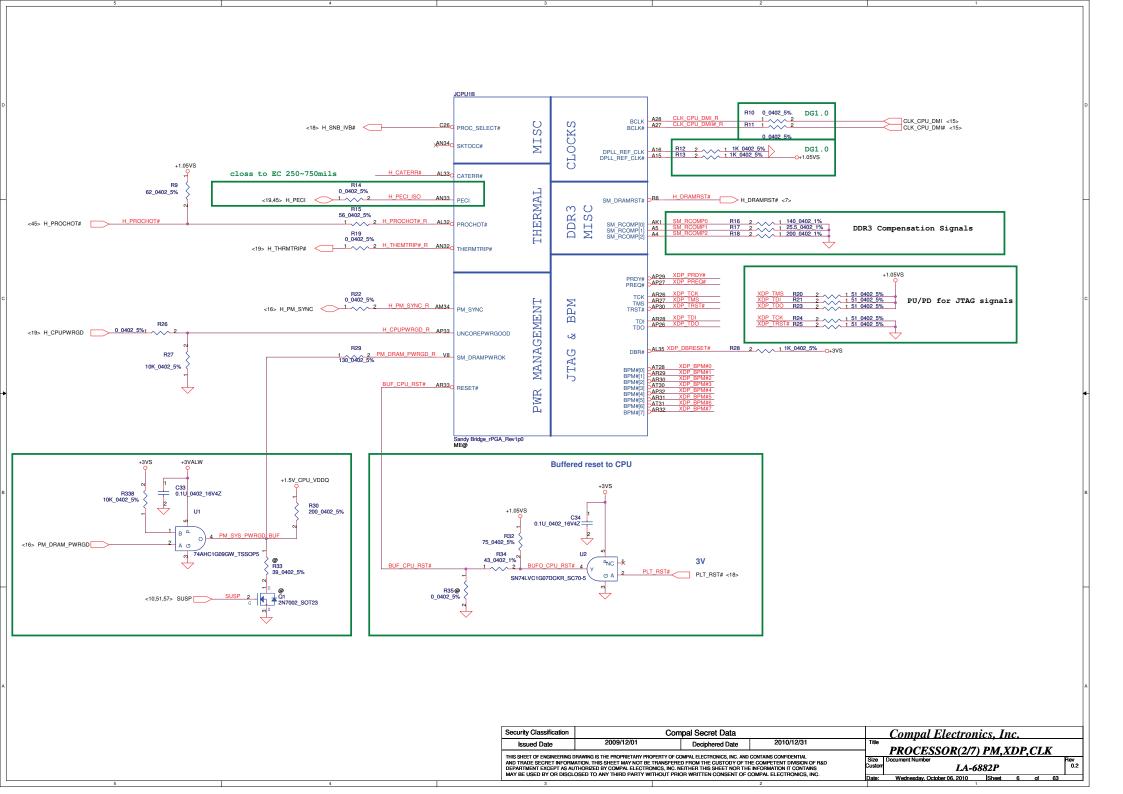
GPIO5 GPIO6

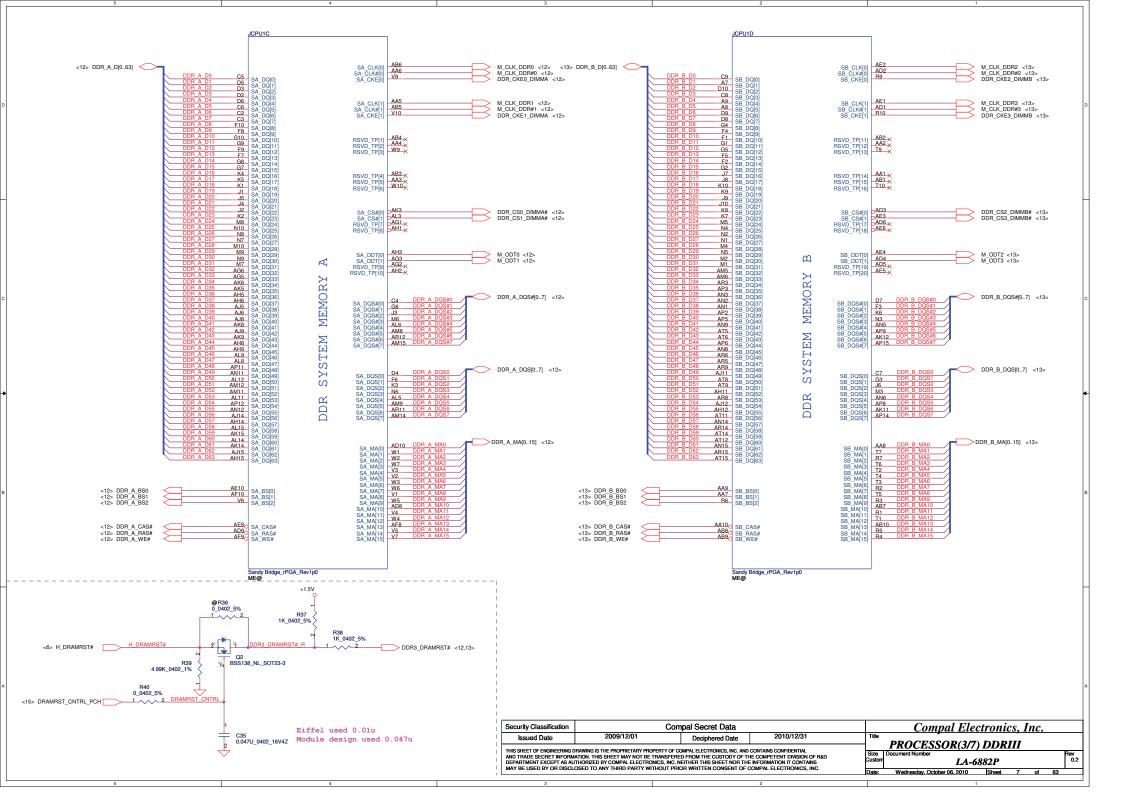
	Device ID
N12P-GT1 (40nm)	0x0DEB

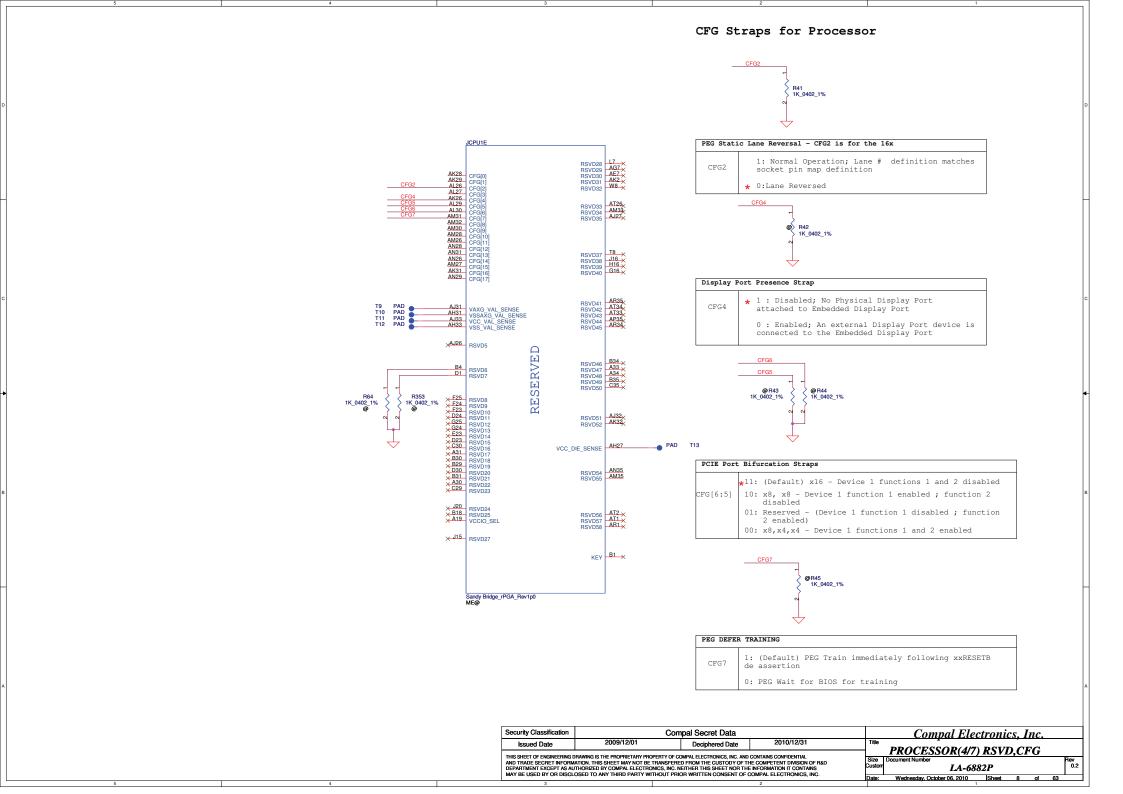
GPU_VID0	GPU_VID1	VGA_CORE	P-State
0	0	0.825V	Deep P12
0	1	0.825V	P8
1	1	1.075V	P0

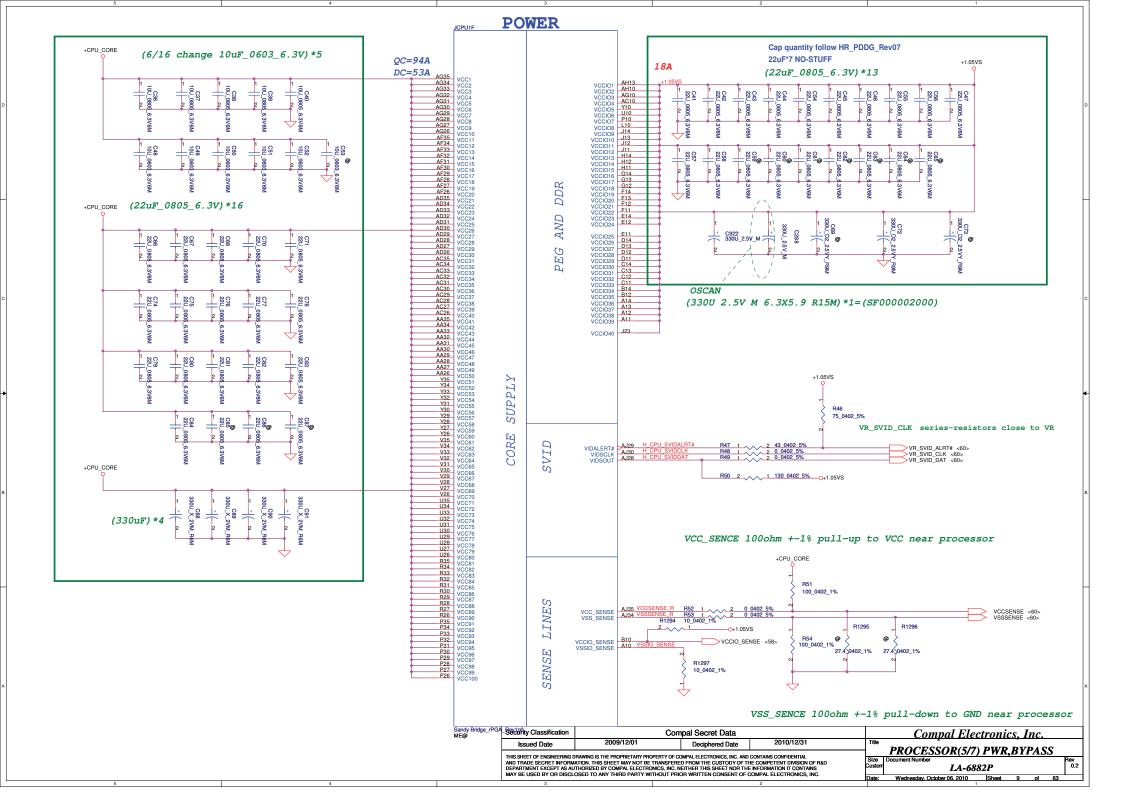
						1		
GPU	FB Memo:	ry (GDDR5)	ROM_SO	ROM_SCLK	ROM_SI	STRAP2	STRAP1	STRAP0
N12P-GT1	Samsung	K4G10325FE-HC04						
	1800MHz (defaul)	32Mx32	PD 10K	PD 15K	PD 20K	PU 20K	PD 35K	PU 45K
	Hynix	H5GQ1H24AFR-T2L						
	1600MHz	32Mx32	PD 10K	PD 15K	PD 15K	PU 20K	PD 35K	PU 45K
,					X76			

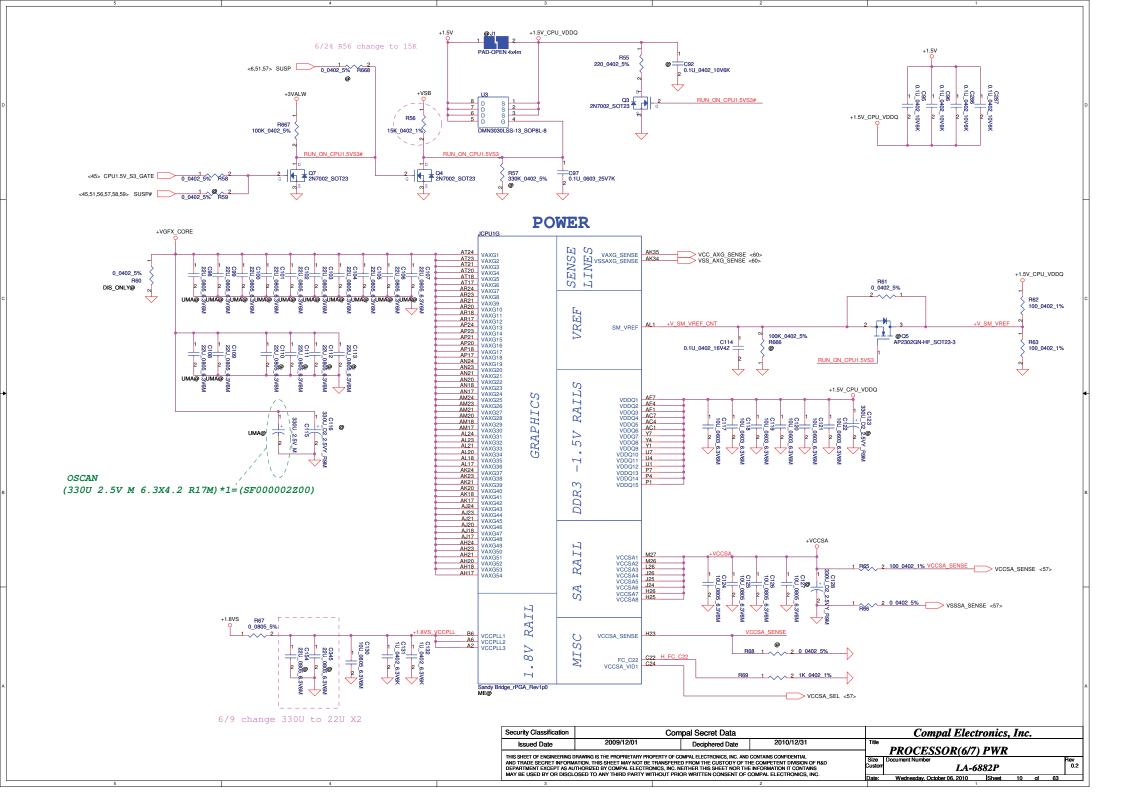


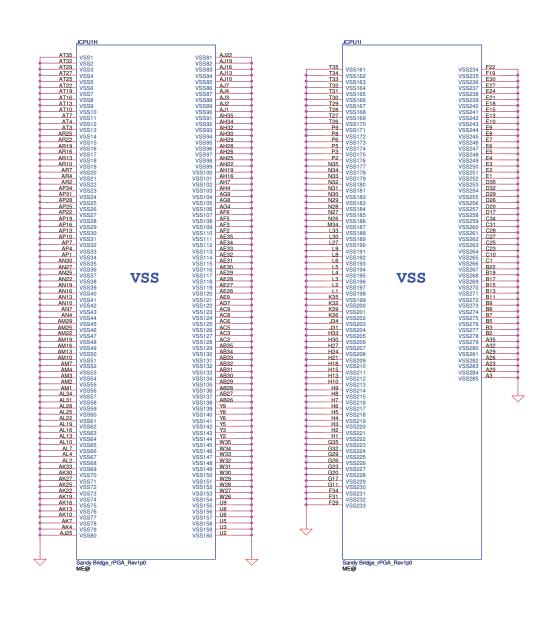




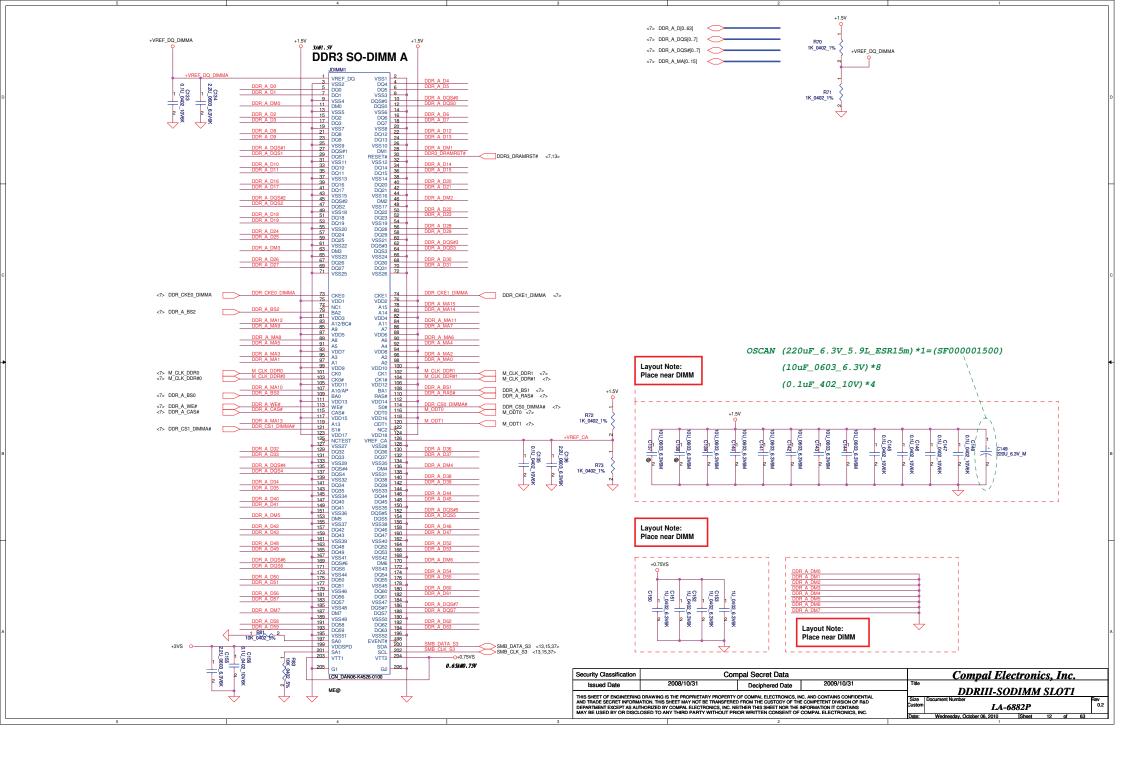


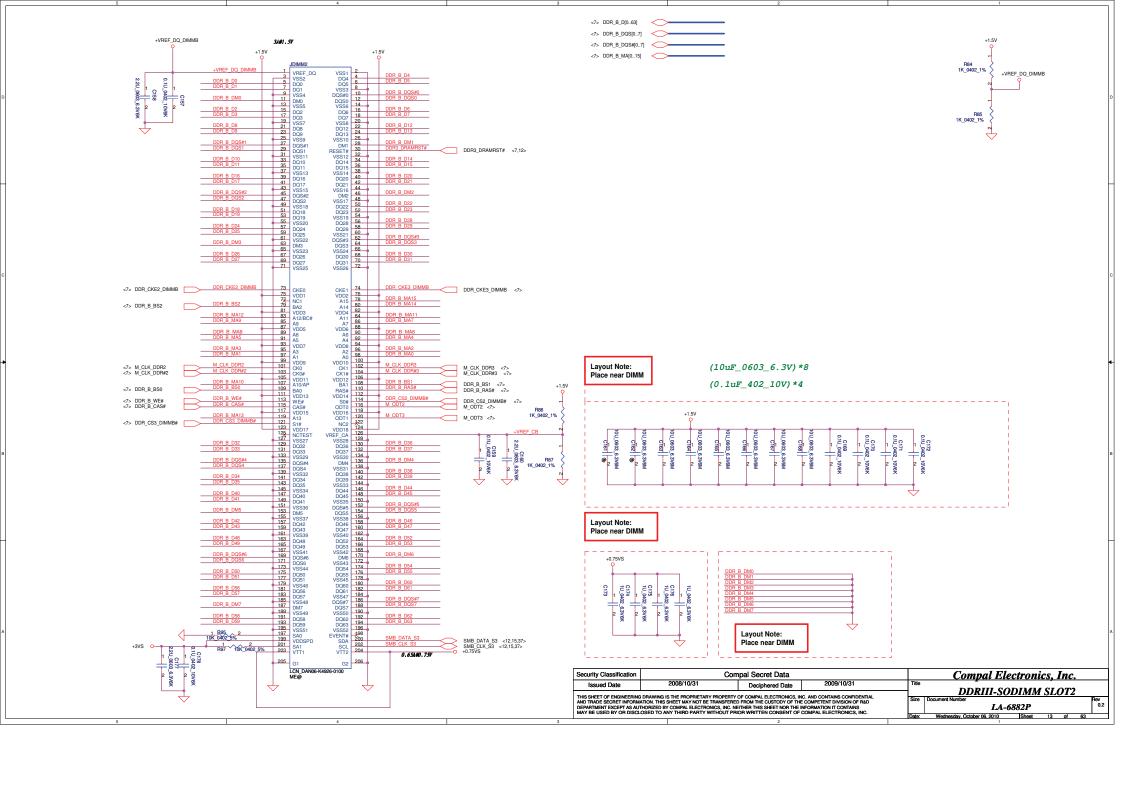


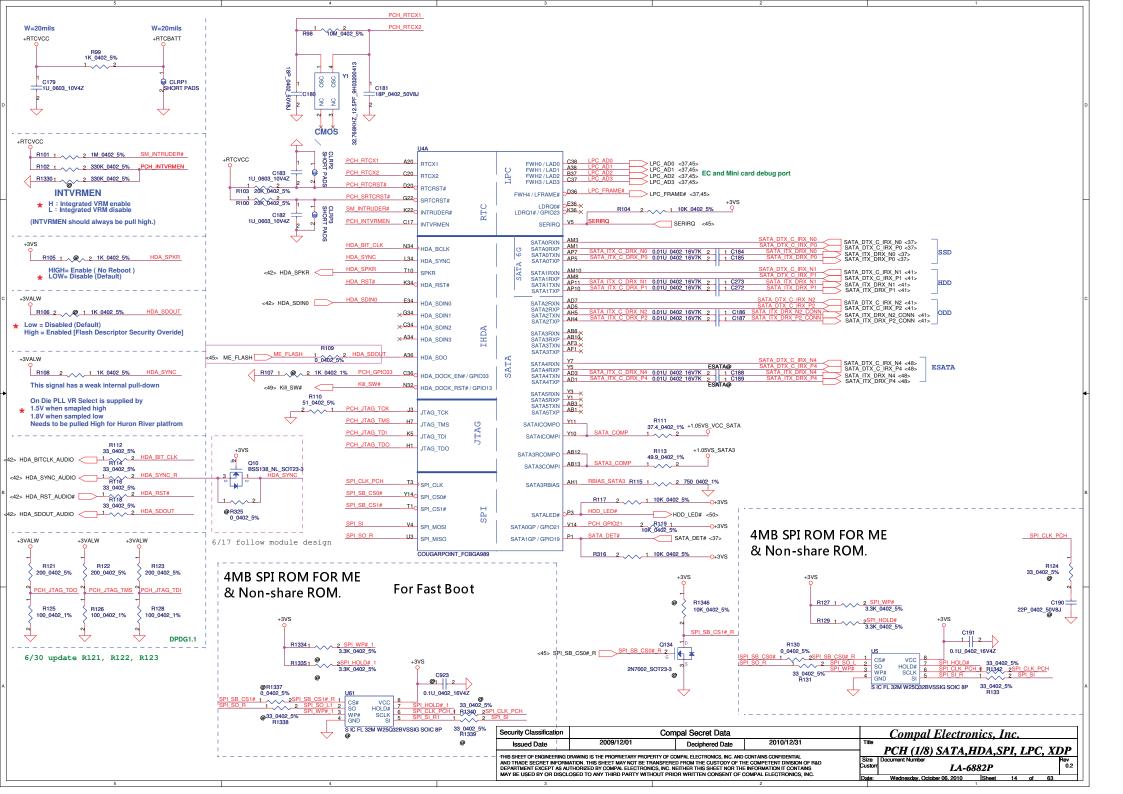


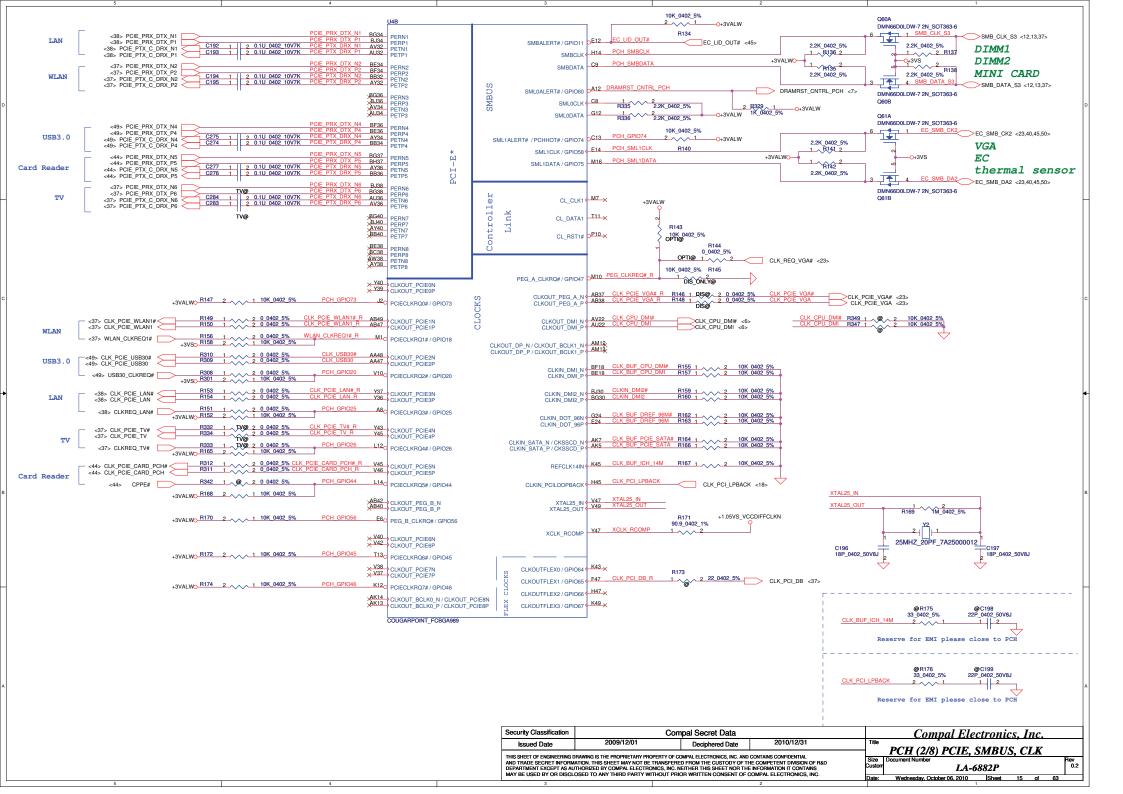


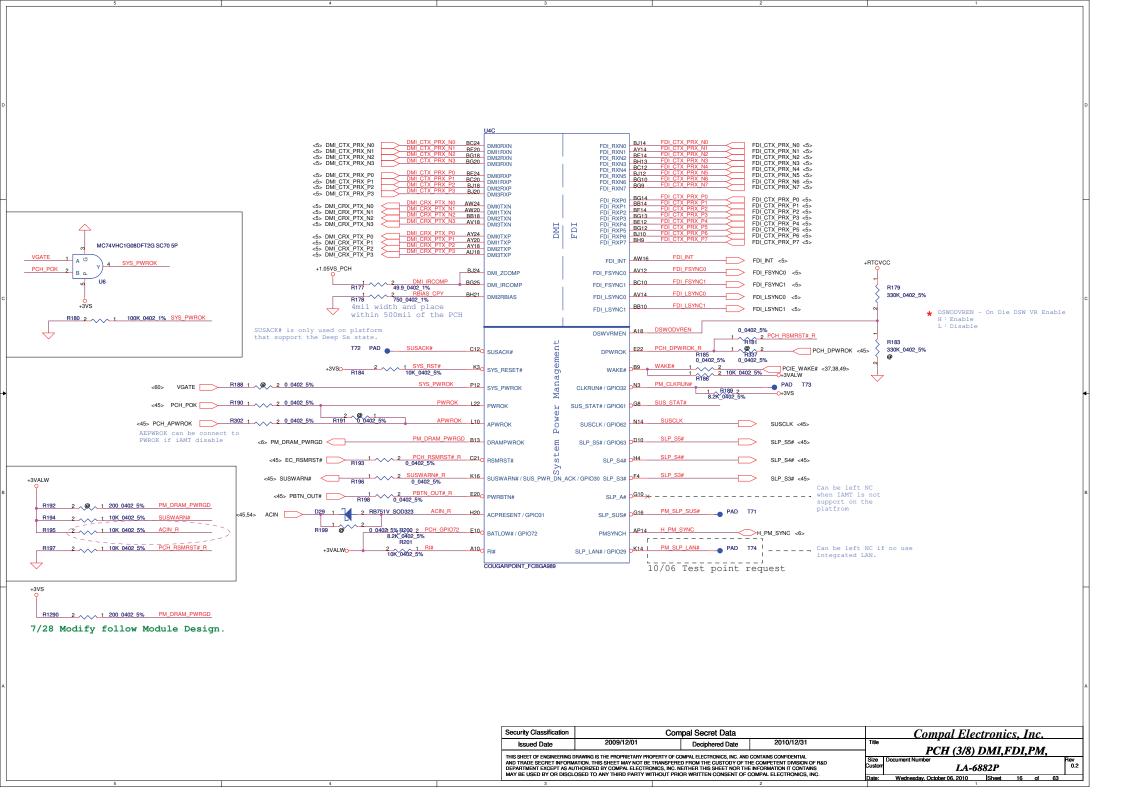
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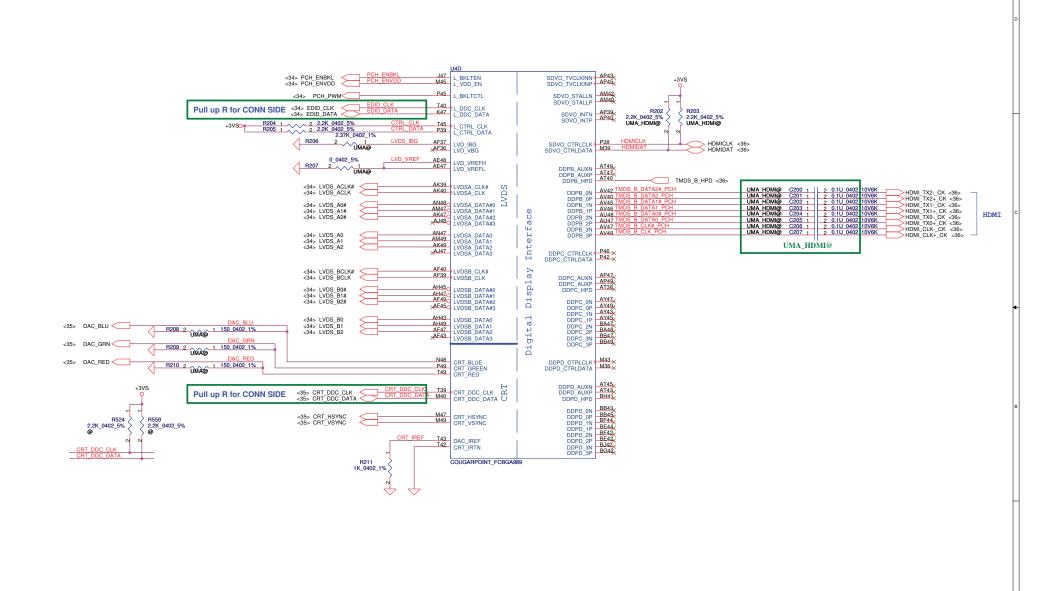




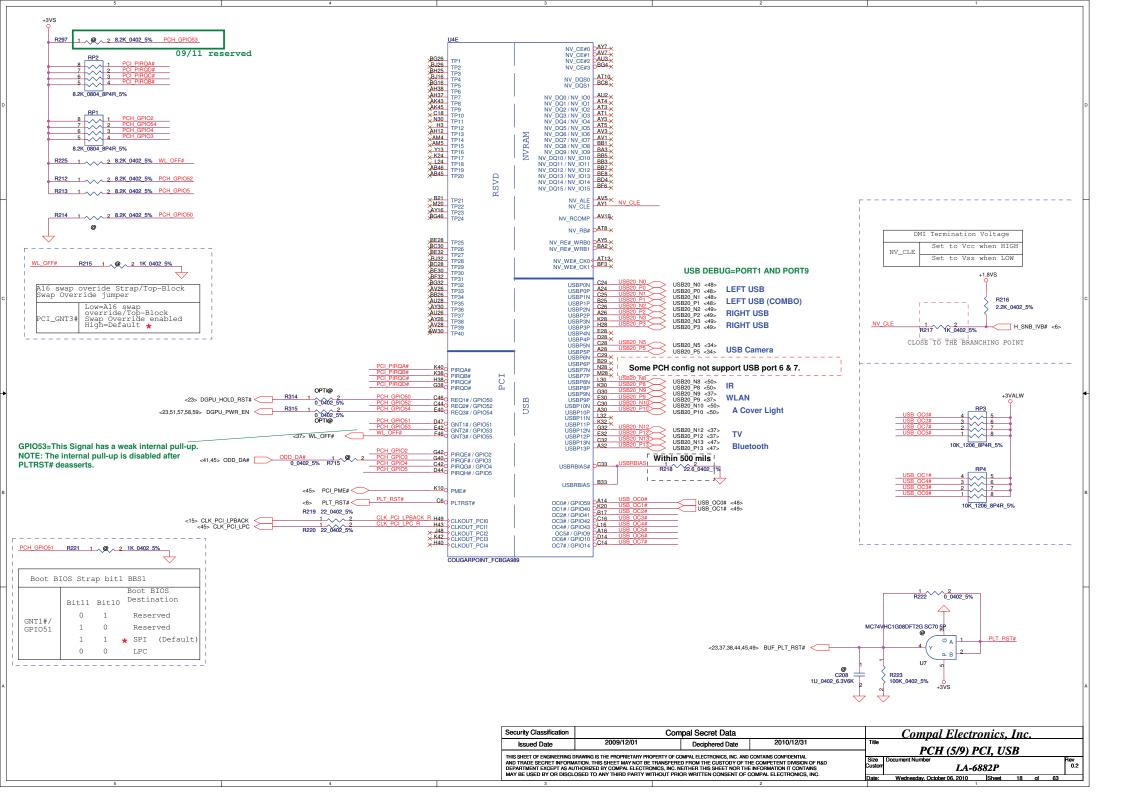


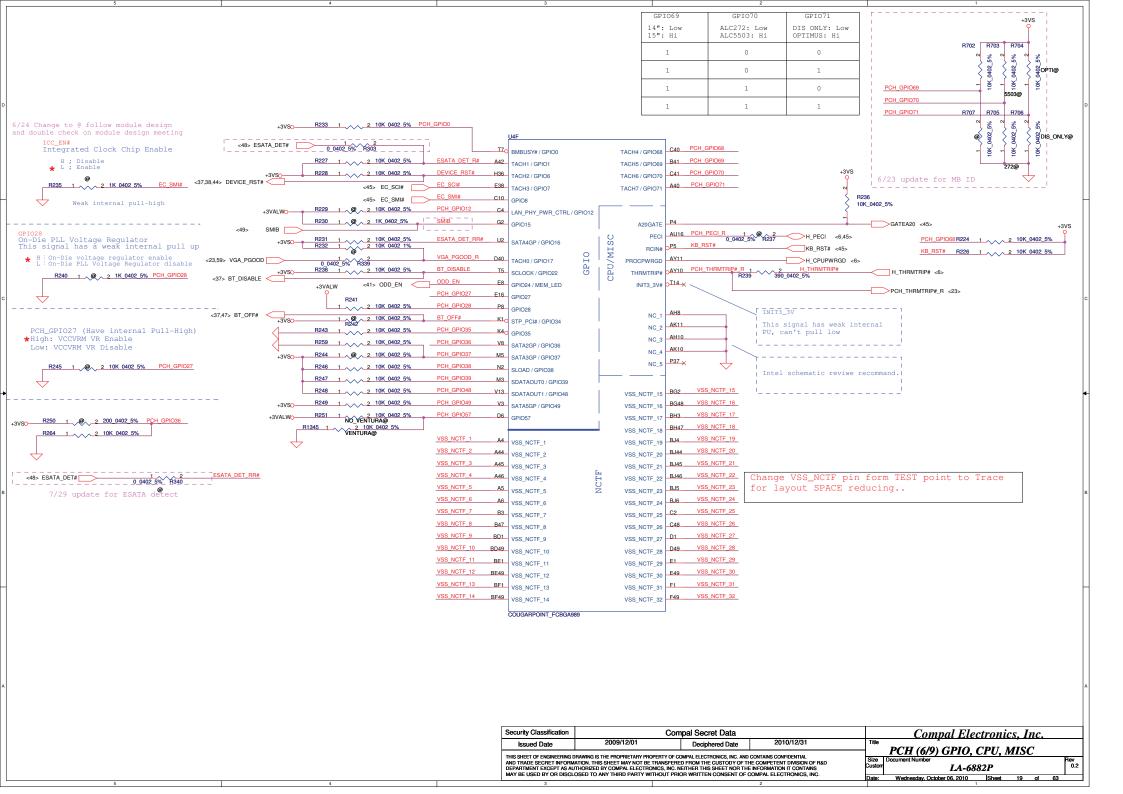


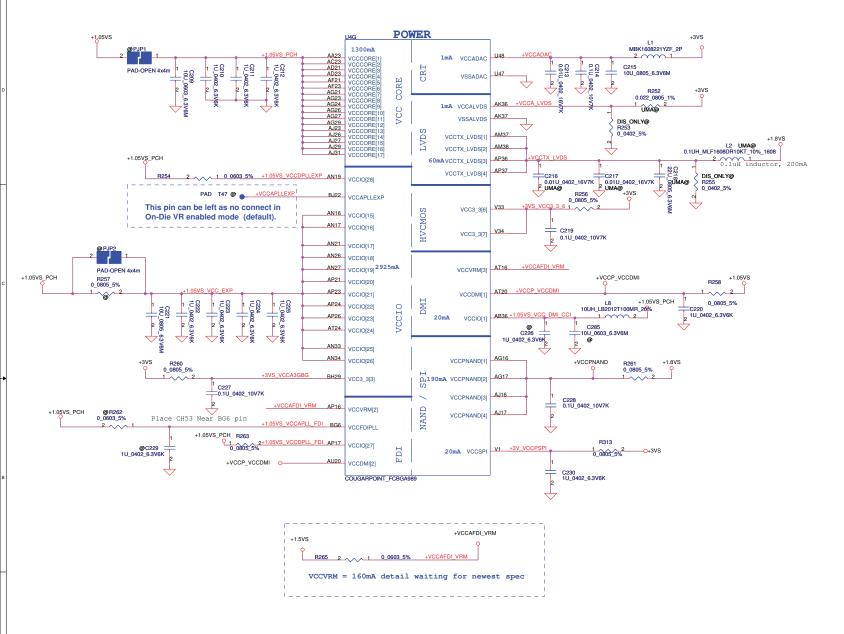




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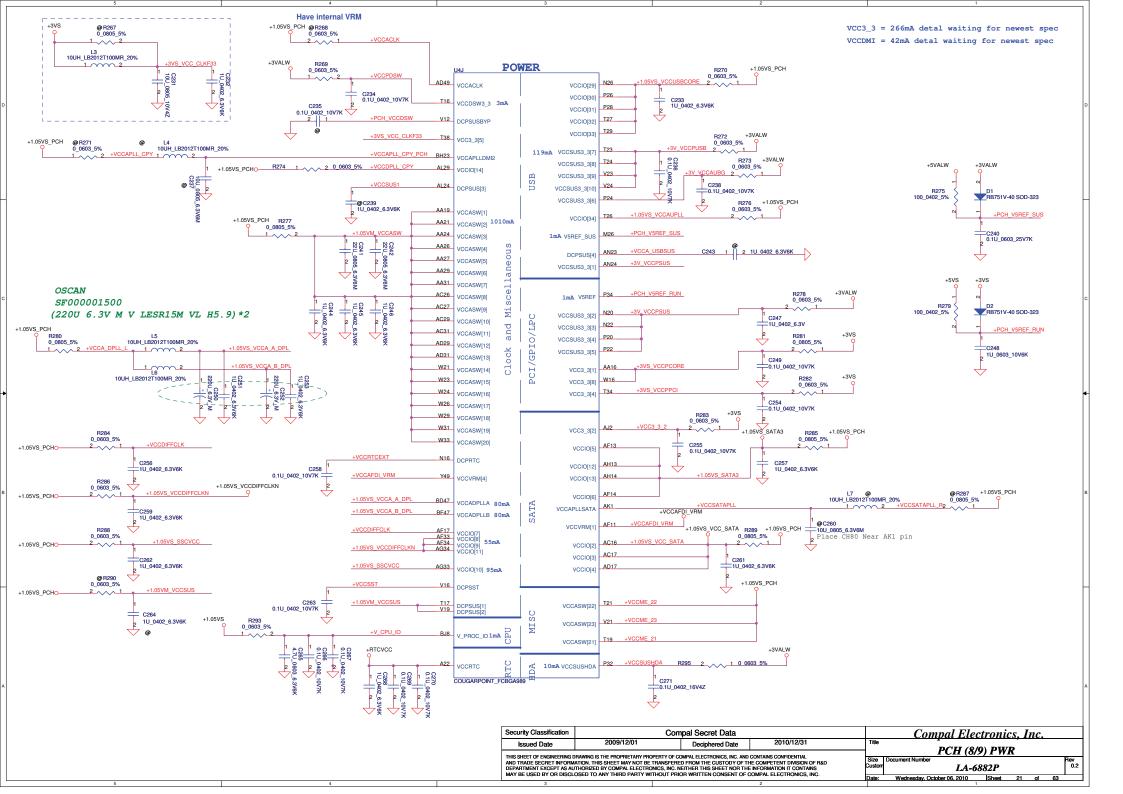


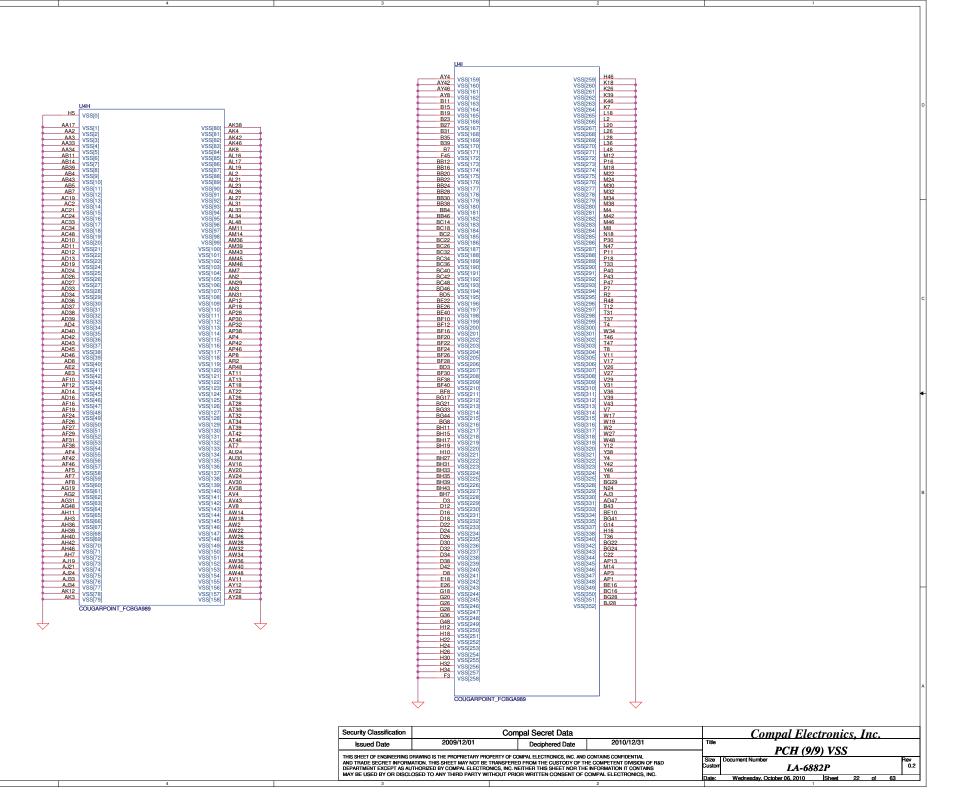


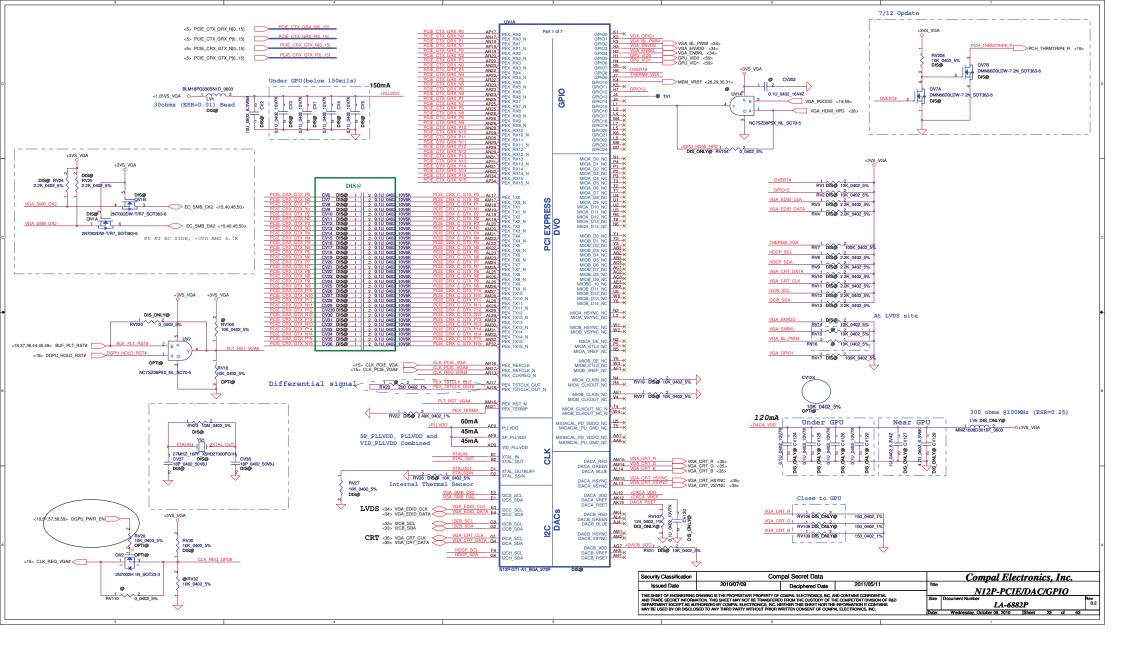


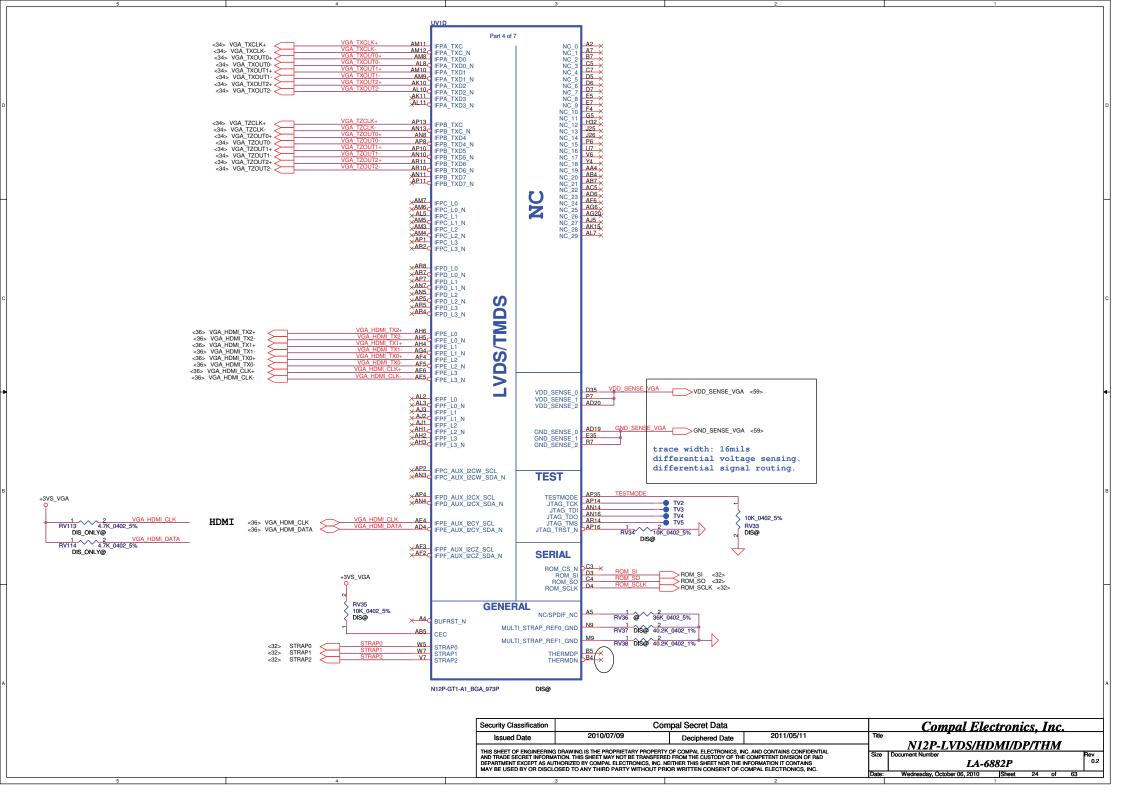
PCH Po	ower Rail	
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_PROC_IO	1.05	0.001
V5REF	5	0.001
V5REF_Sus	5	0.001
Vcc3_3	3.3	0.266
VccADAC	3.3	0.001
VccADPLLA	1.05	0.08
VccADPLLB	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.05	0.042
VccIO	1.05	2.925
VccASW	1.05	1.01
VccSPI	3.3	0.02
VccDSW	3.3	0.003
VccpNAND	1.8	0.19
VccRTC	3.3	6 uA
VccSus3_3	3.3	0.119
VccSusHDA	3.3 / 1.5	0.01
VccVRM	1.8 / 1.5	0.16
VccCLKDMI	1.05	0.02
VccSSC	1.05	0.095
VccDIFFCLKN	1.05	0.055
VccALVDS	3.3	0.001
VccTX_LVDS	1.8	0.06

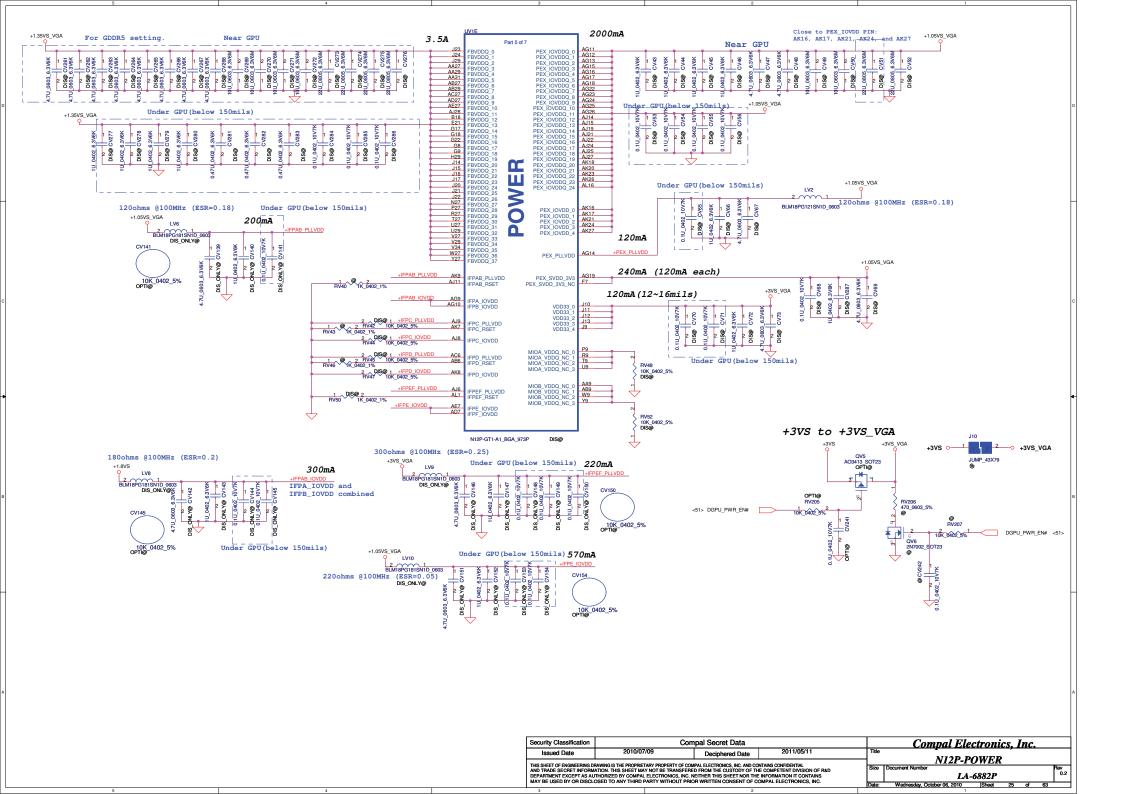
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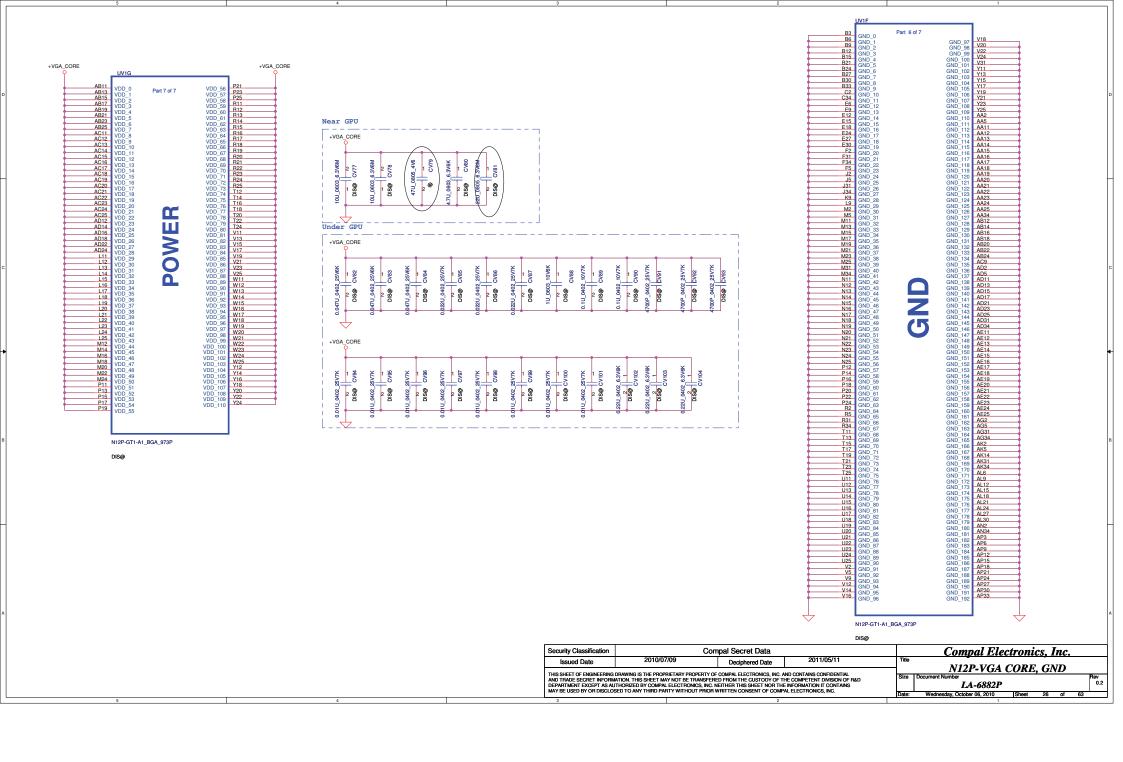


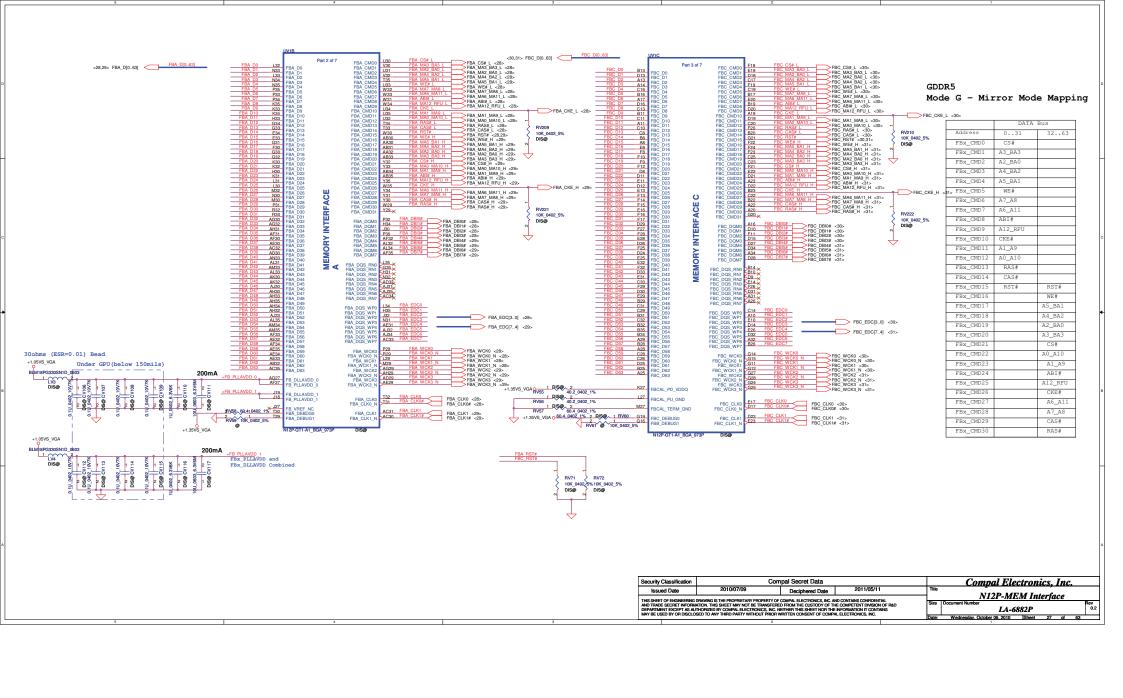


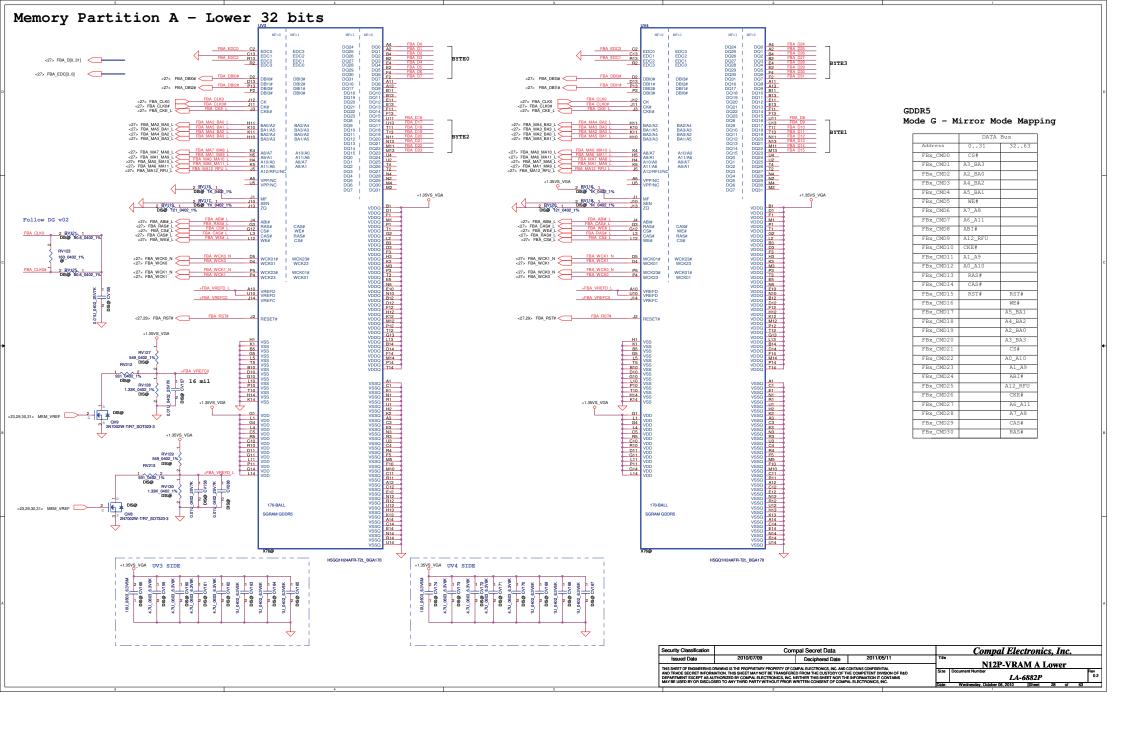


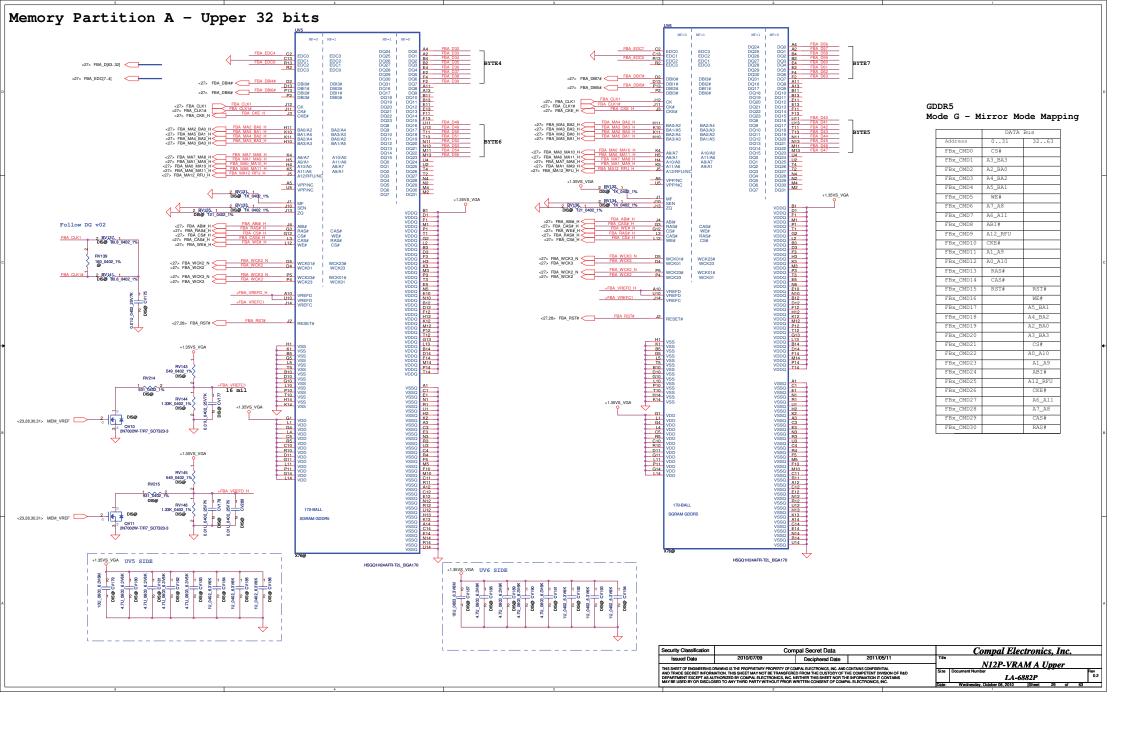


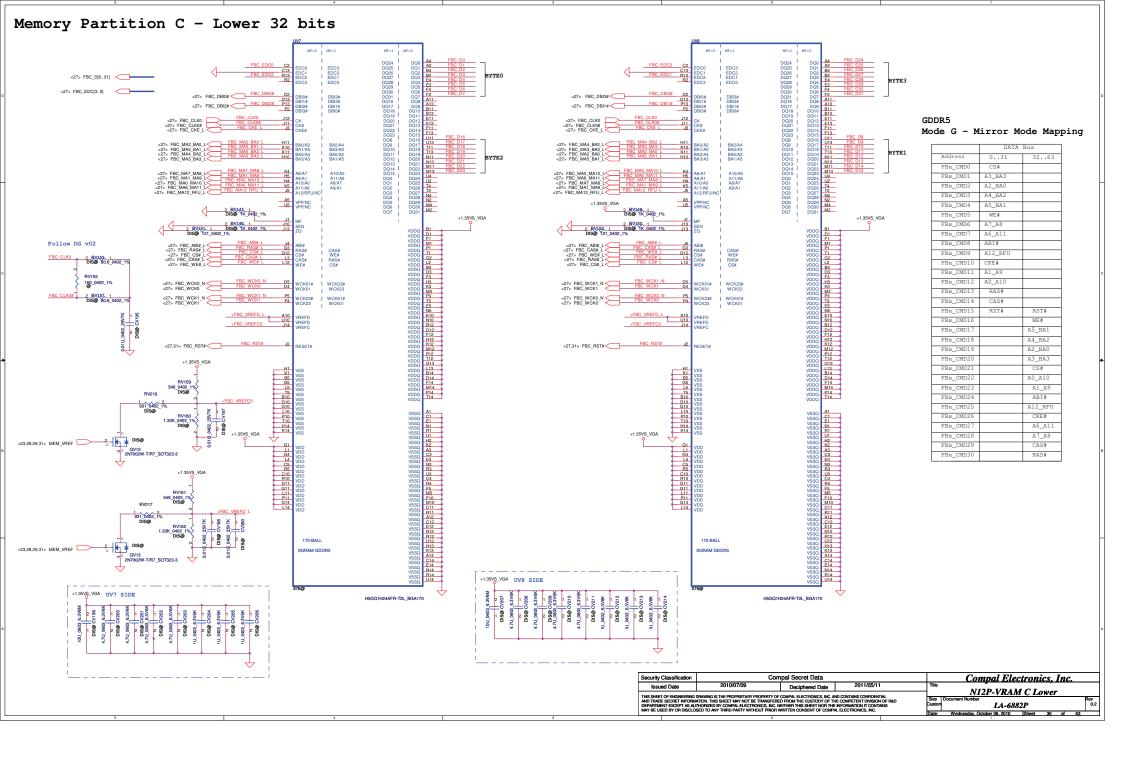


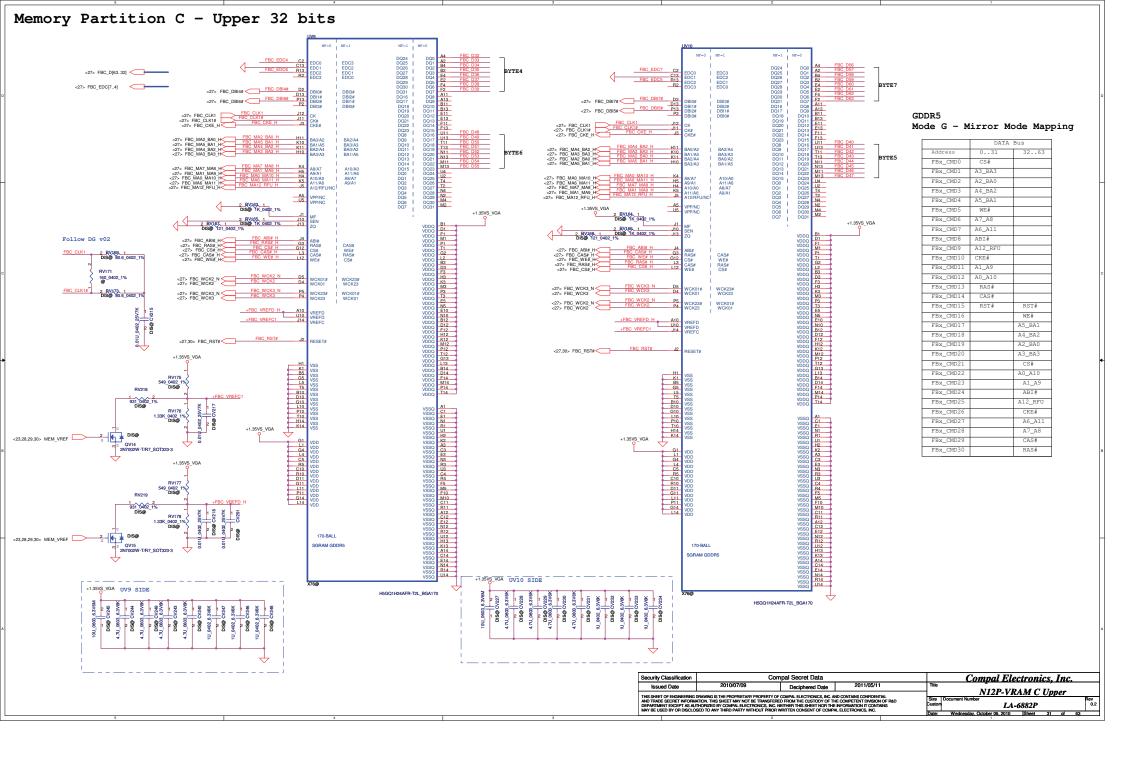


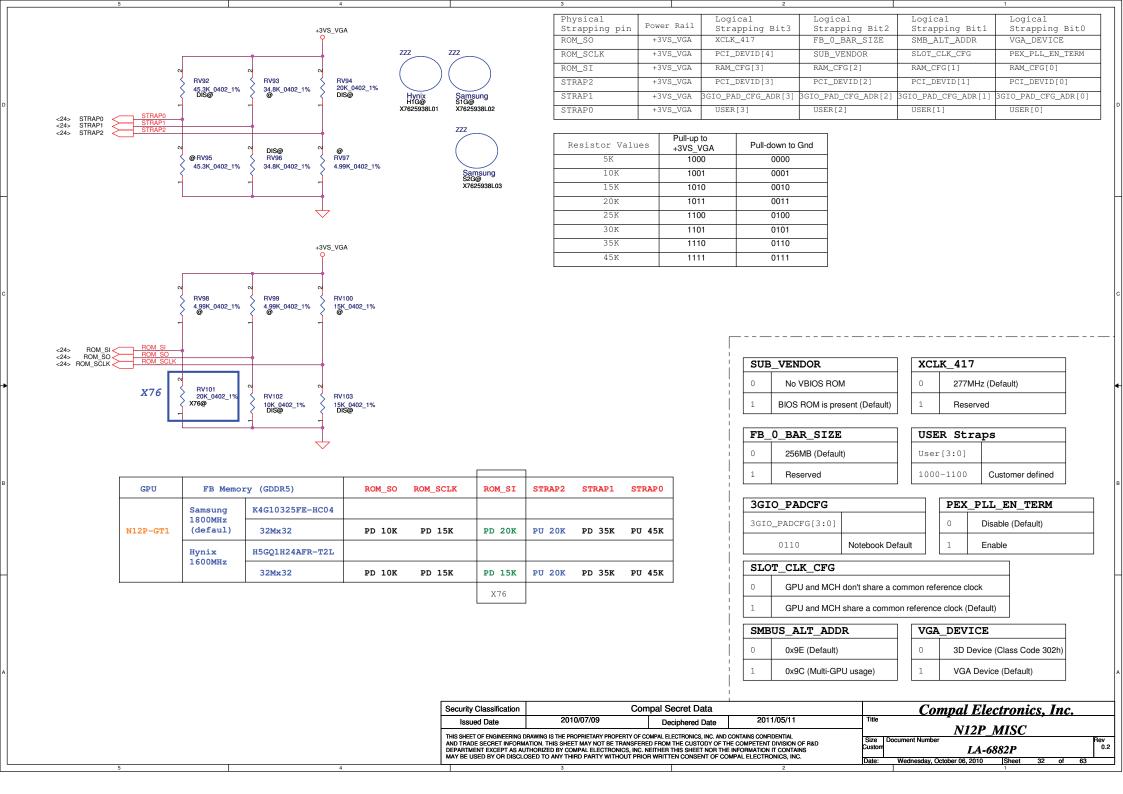




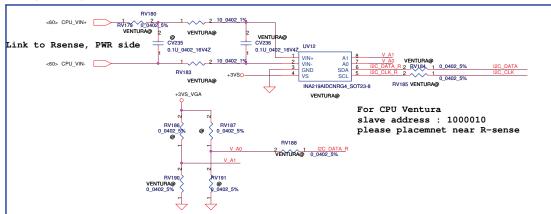


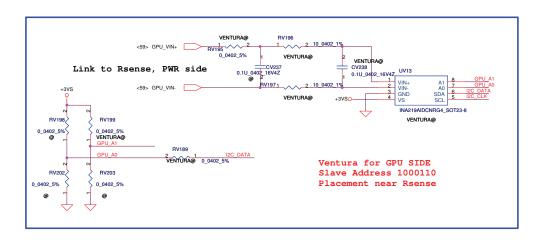


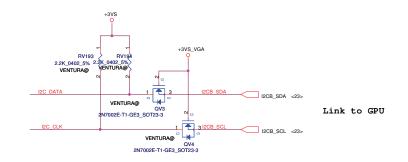




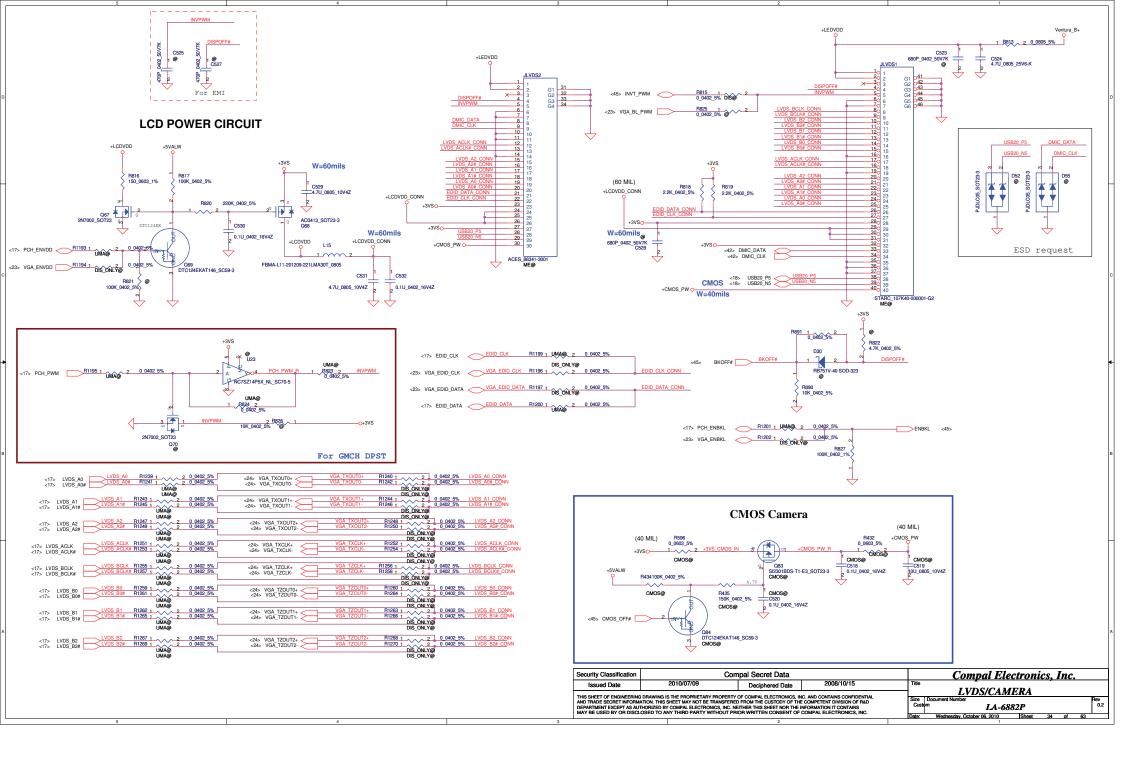
TOP side (under inductor)

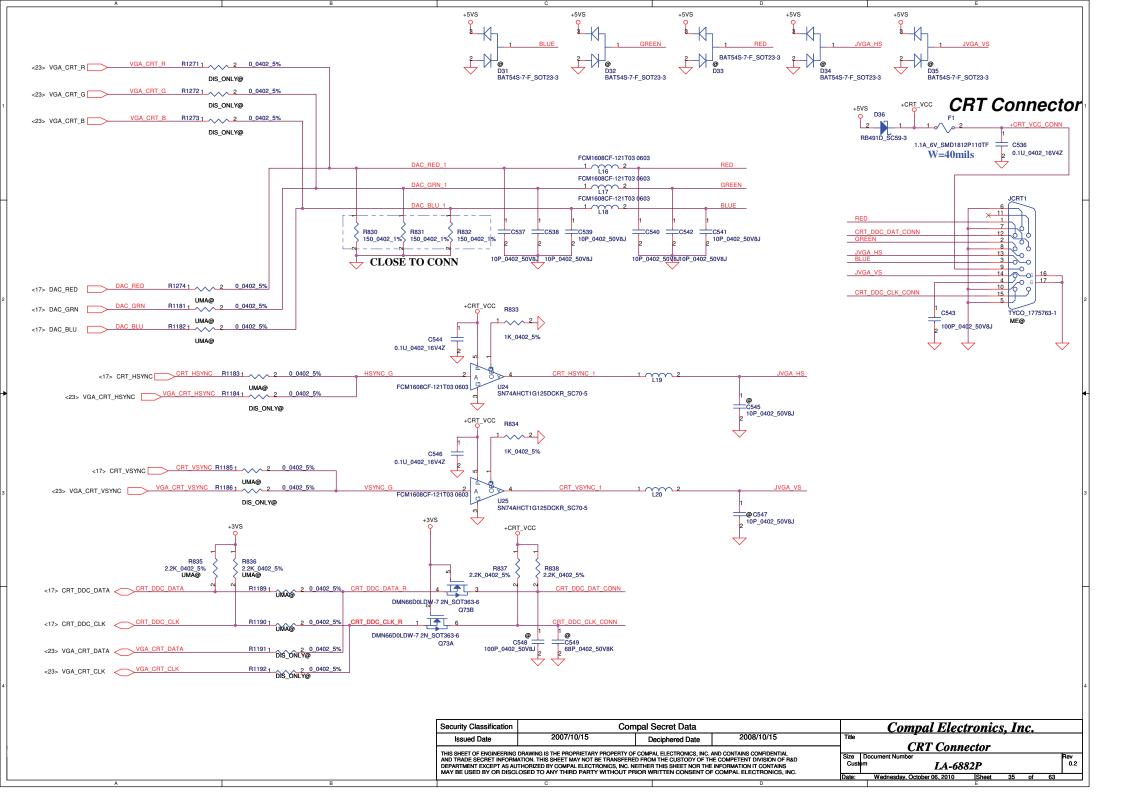


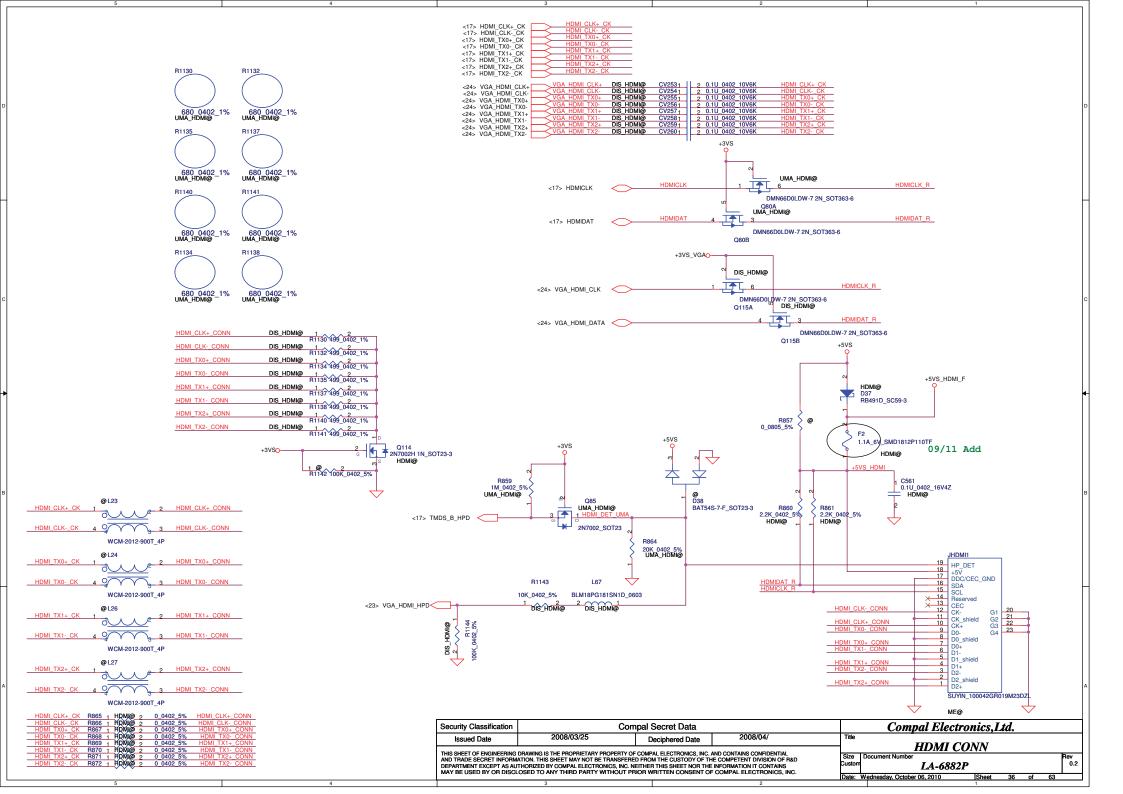


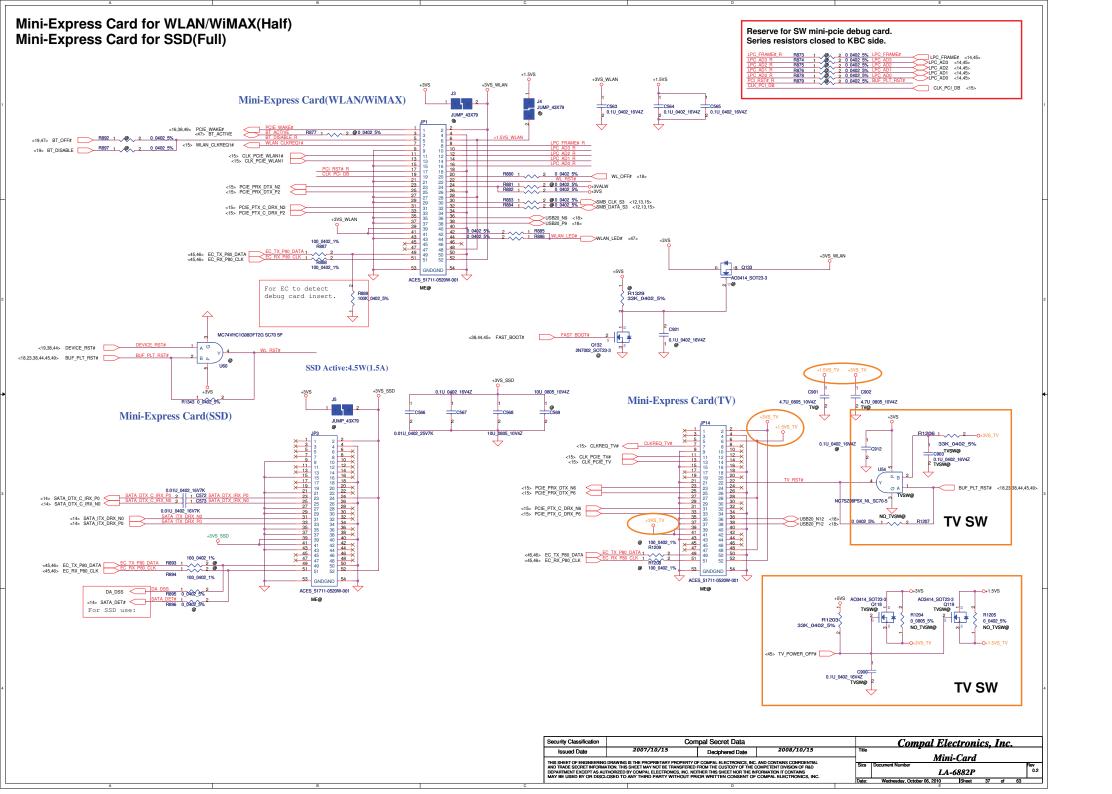


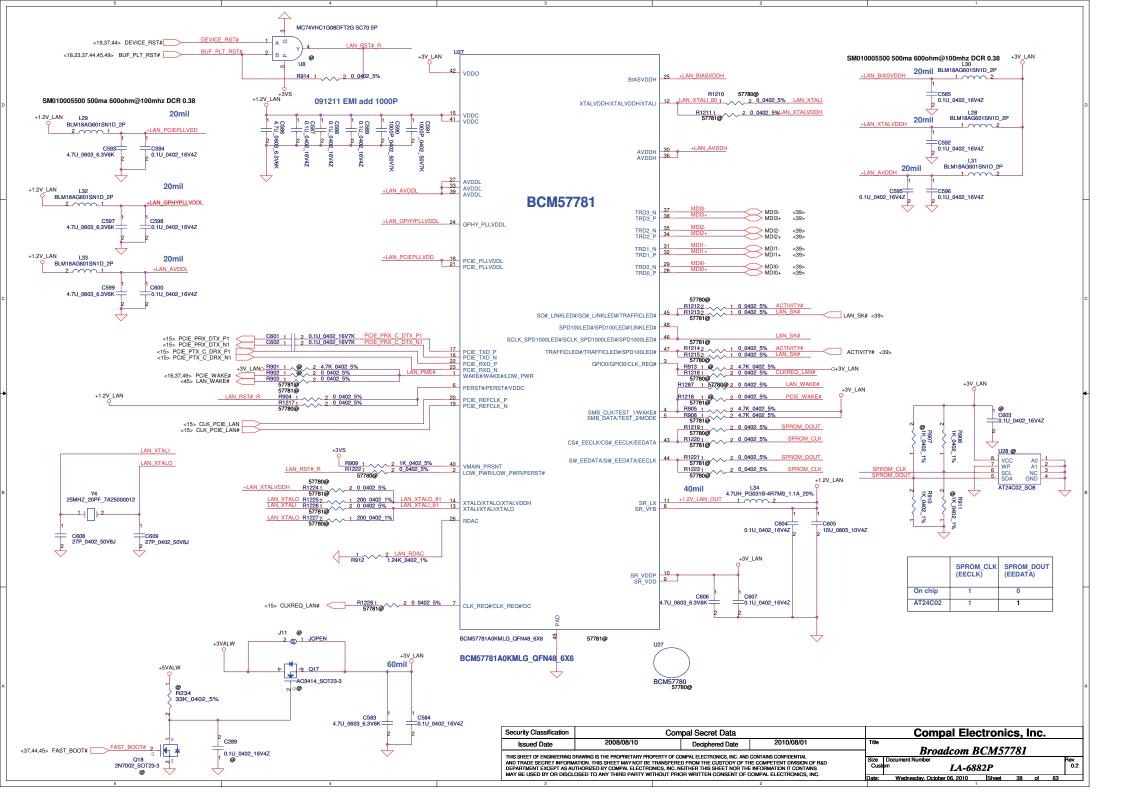
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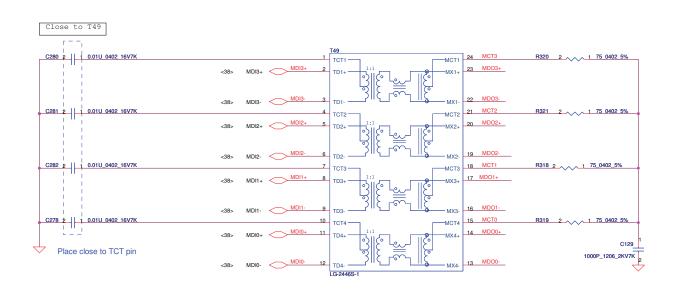




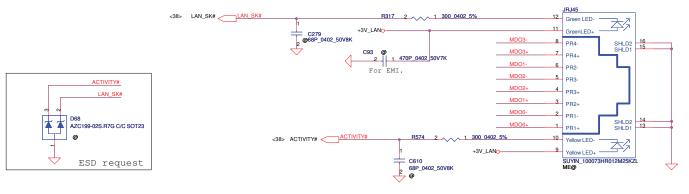




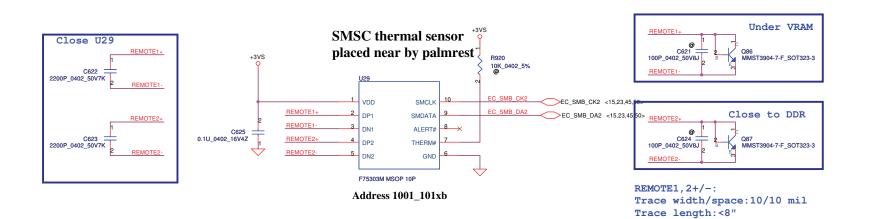


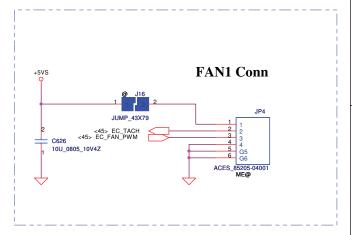






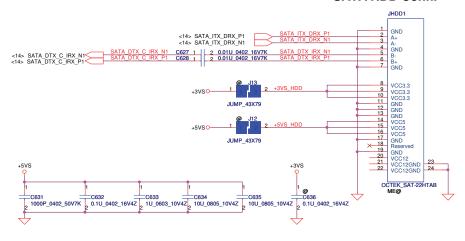
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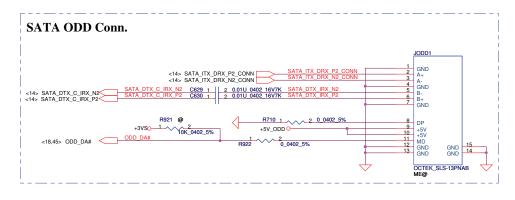




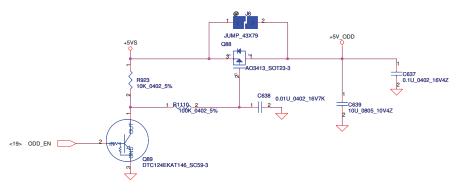
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SATA HDD Conn.

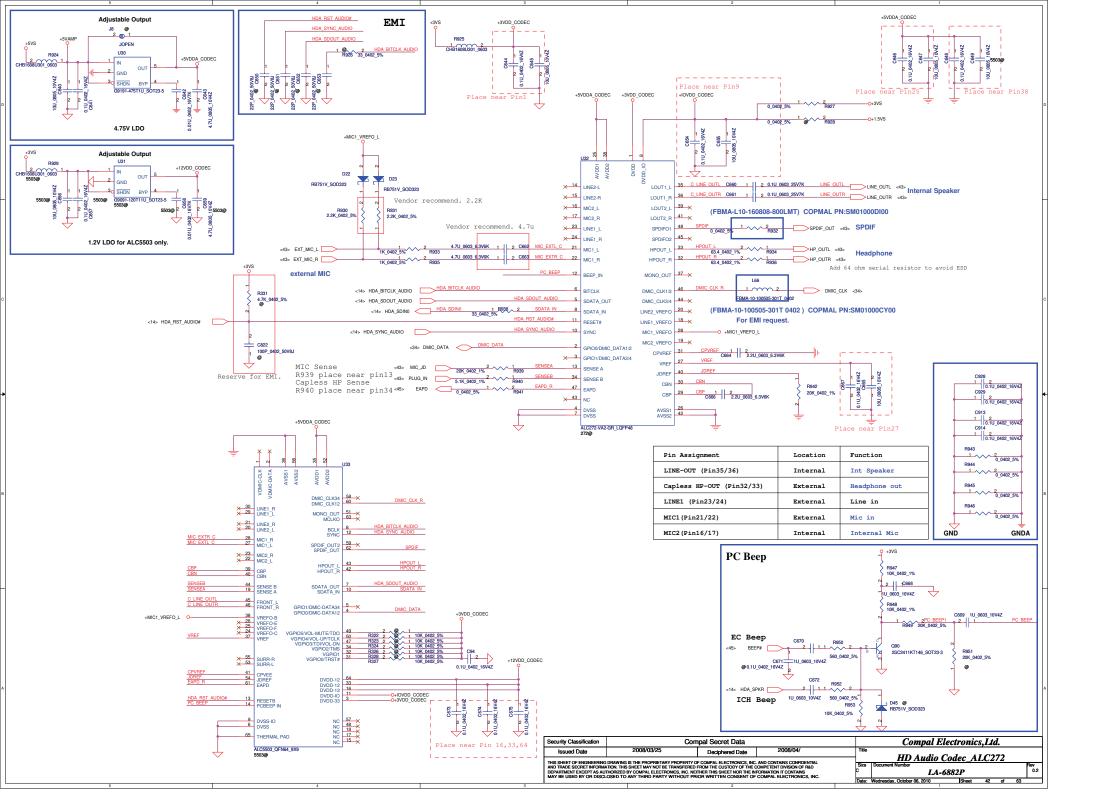


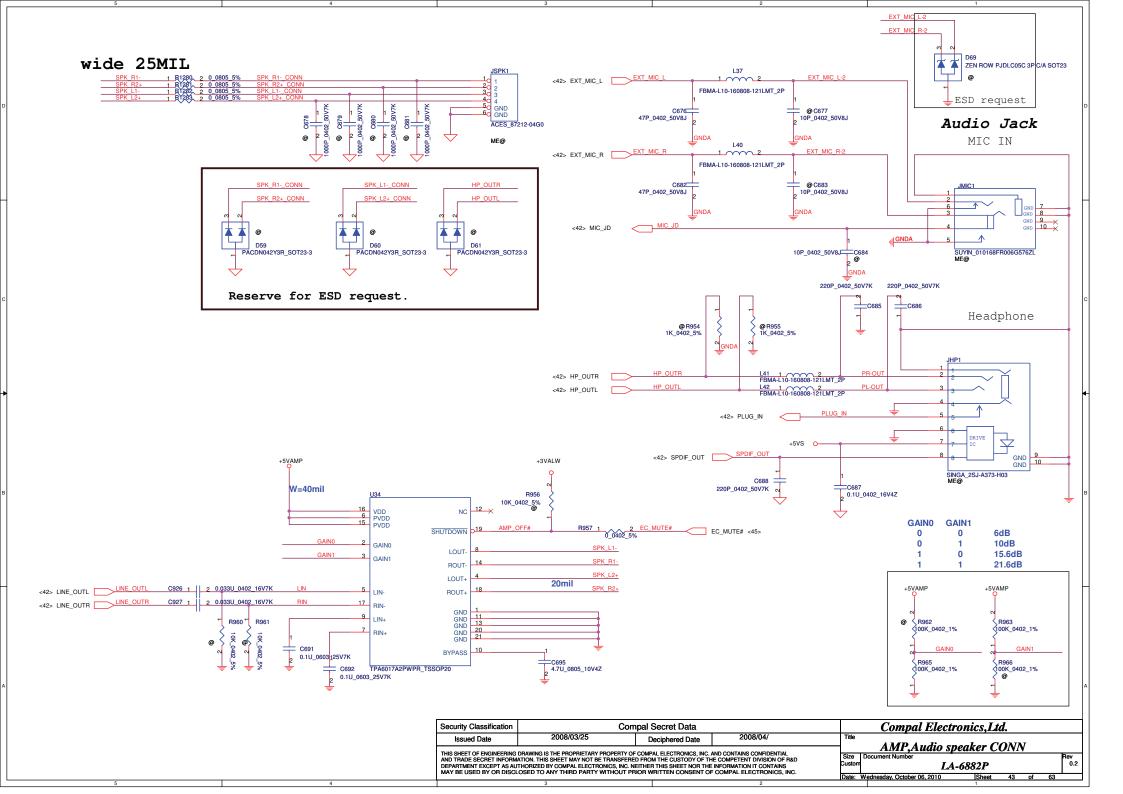


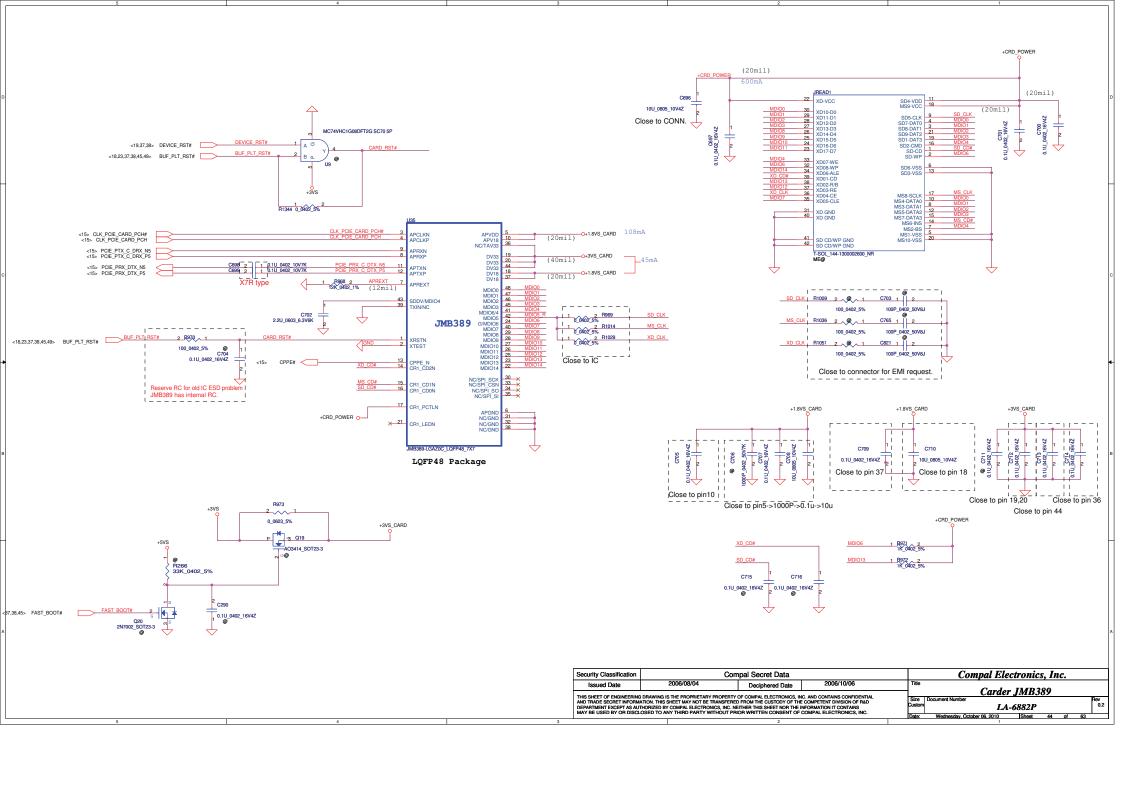
ODD Power Control

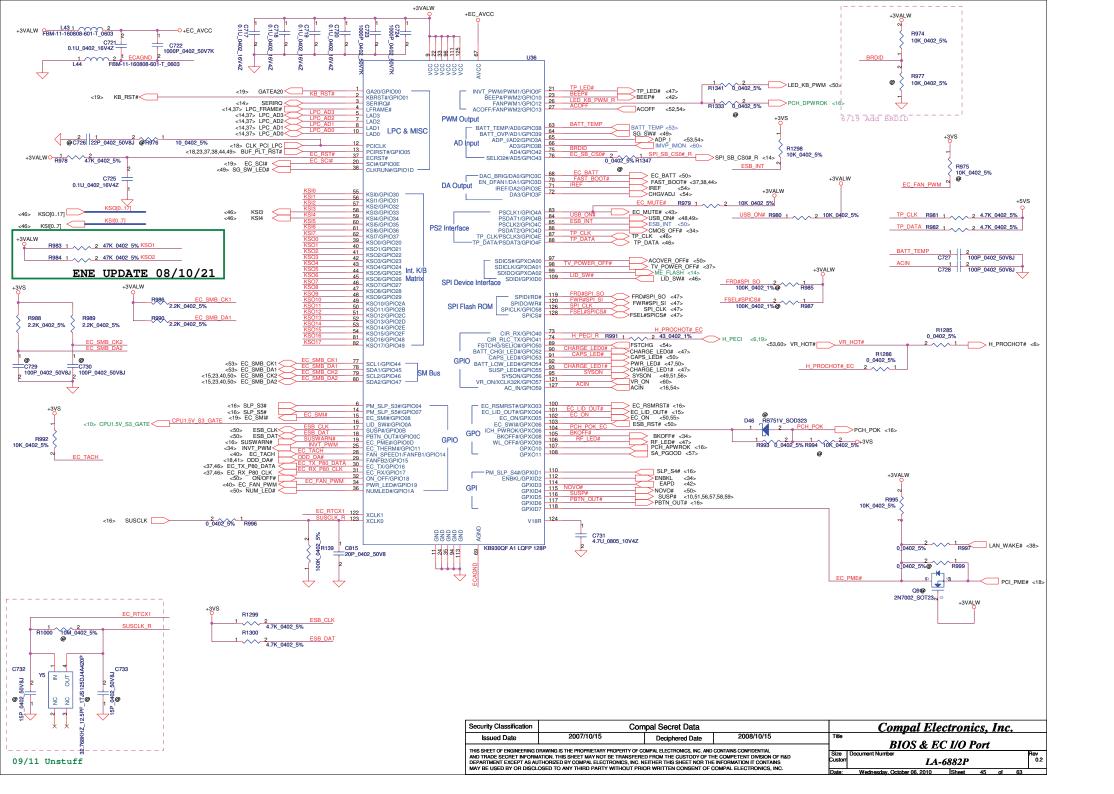


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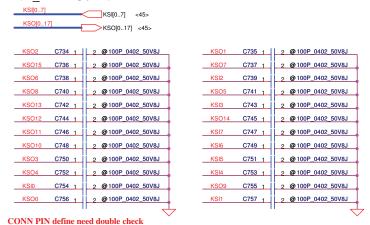


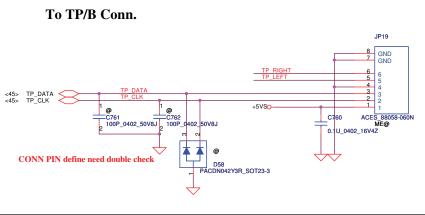


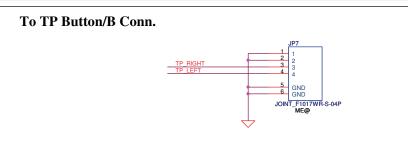


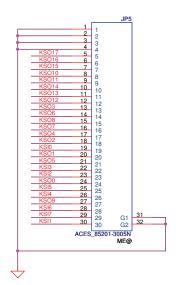


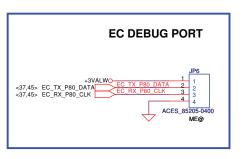




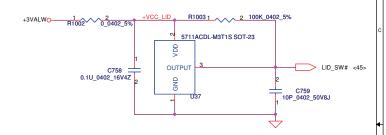






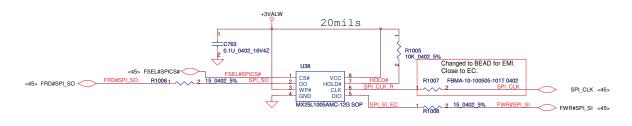


Lid Switch



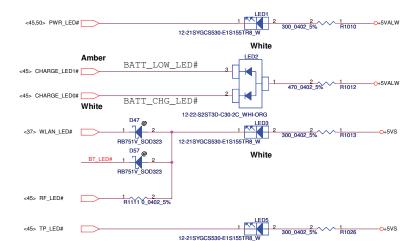
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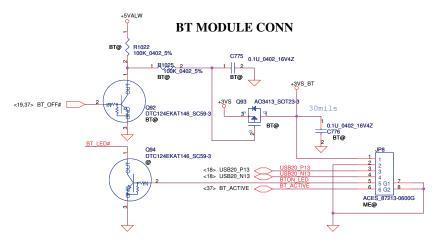
FOR EC 128KB SPI ROM (150mil PACKAGE) P/N: SA00002C100

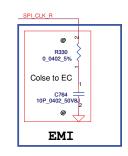


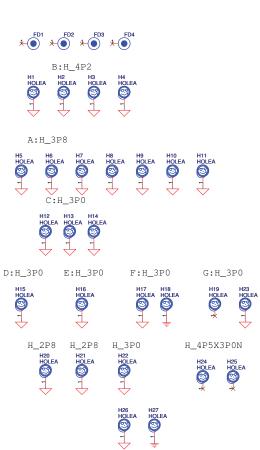
LED

White

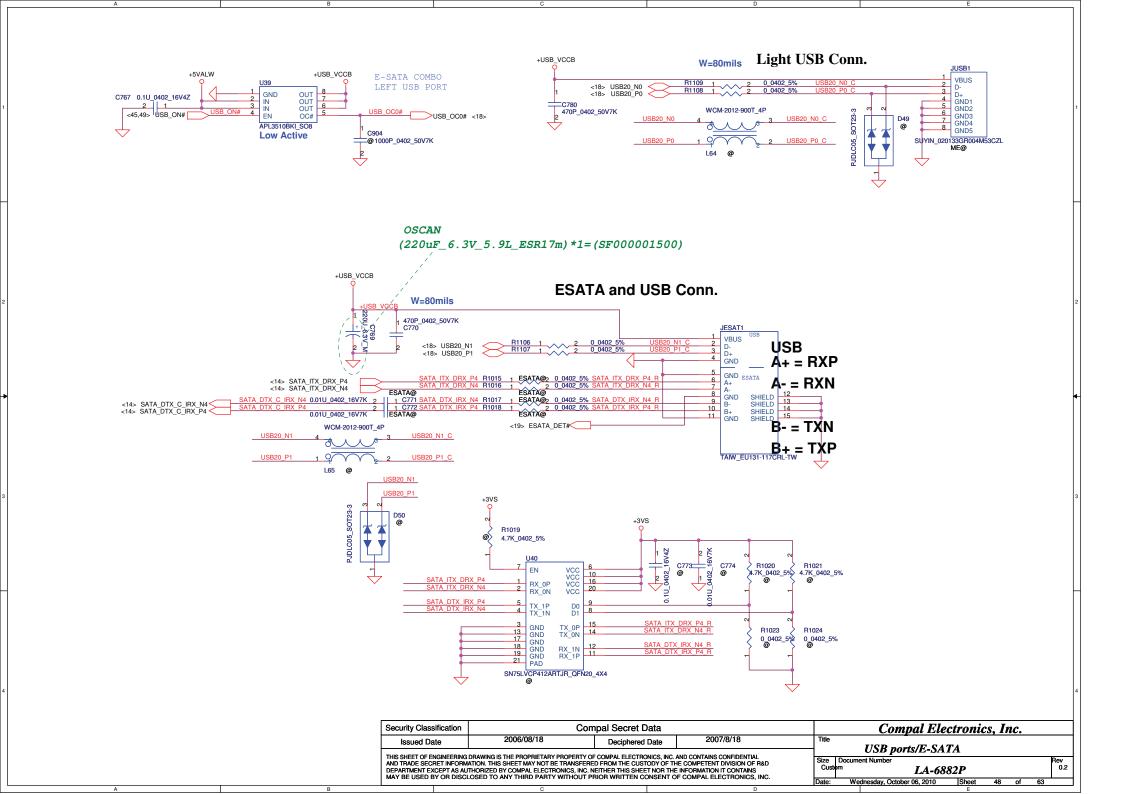


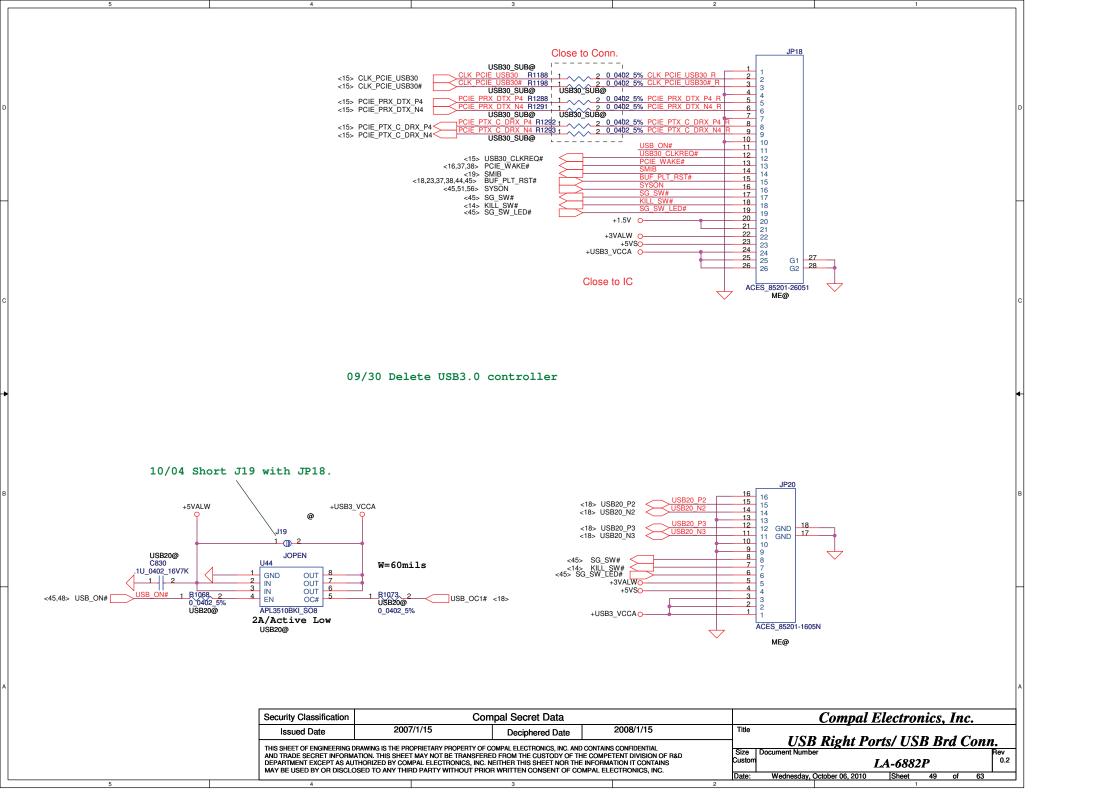


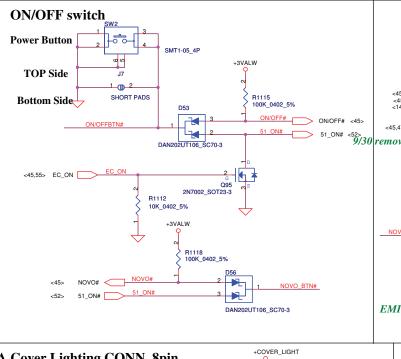


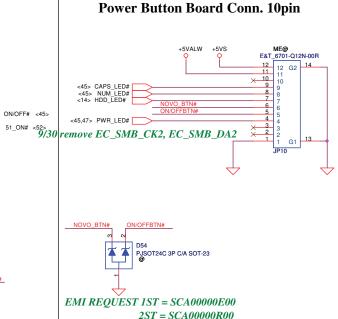


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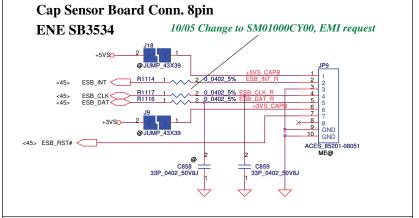


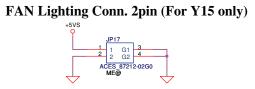




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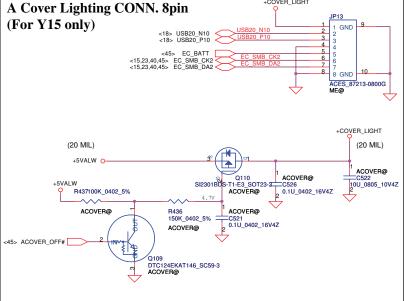


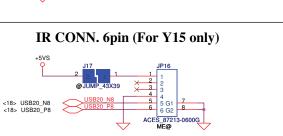


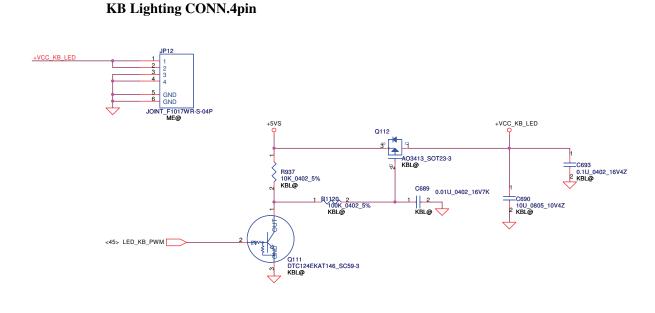
Compal Electronics, Ltd.

other IO connector

LA-6882P







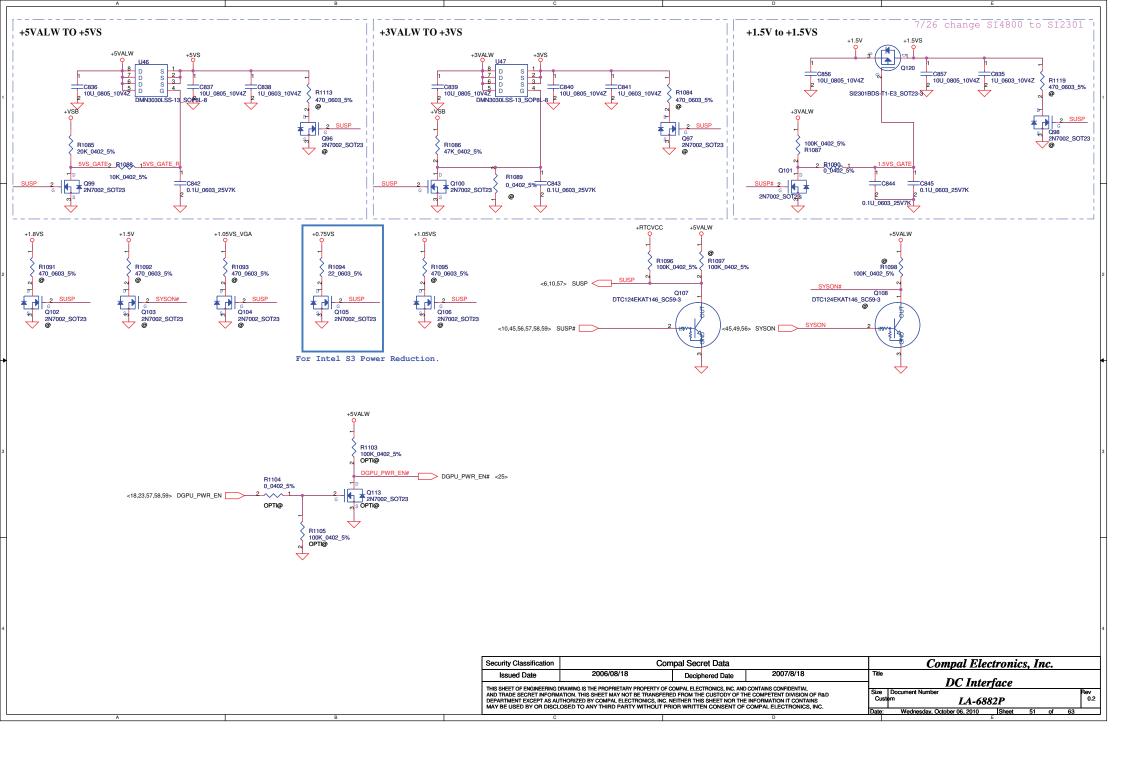
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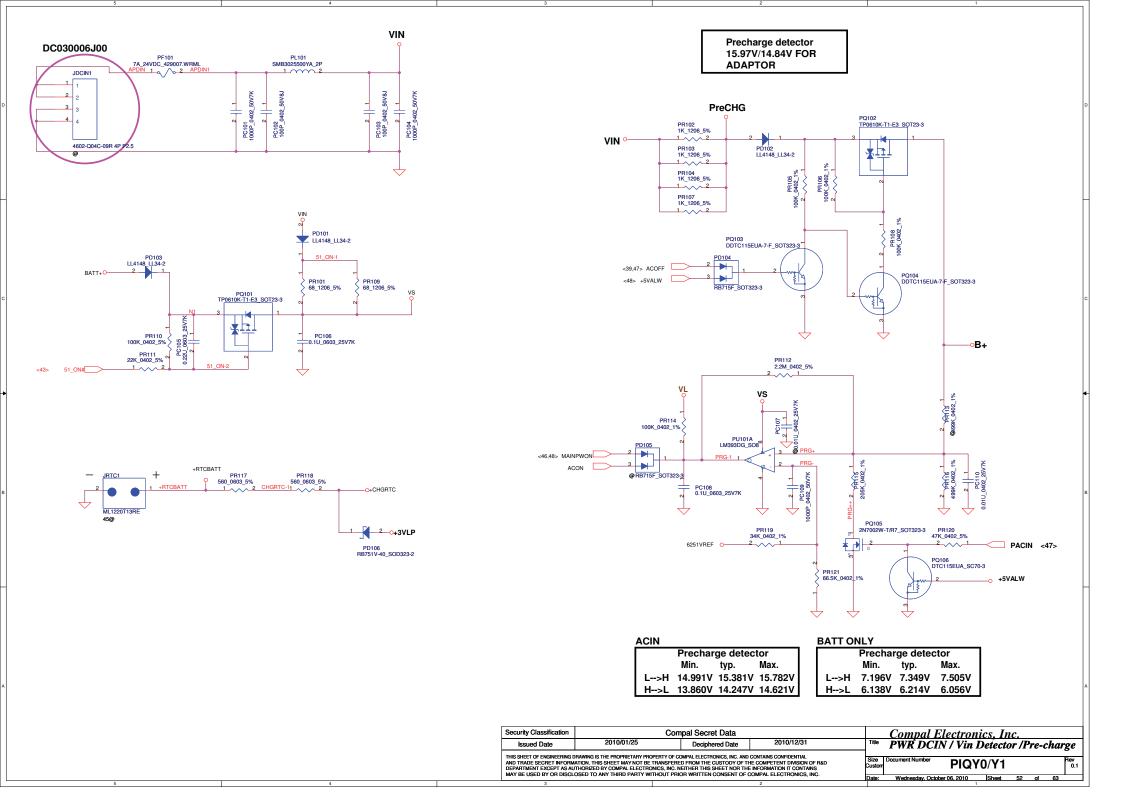
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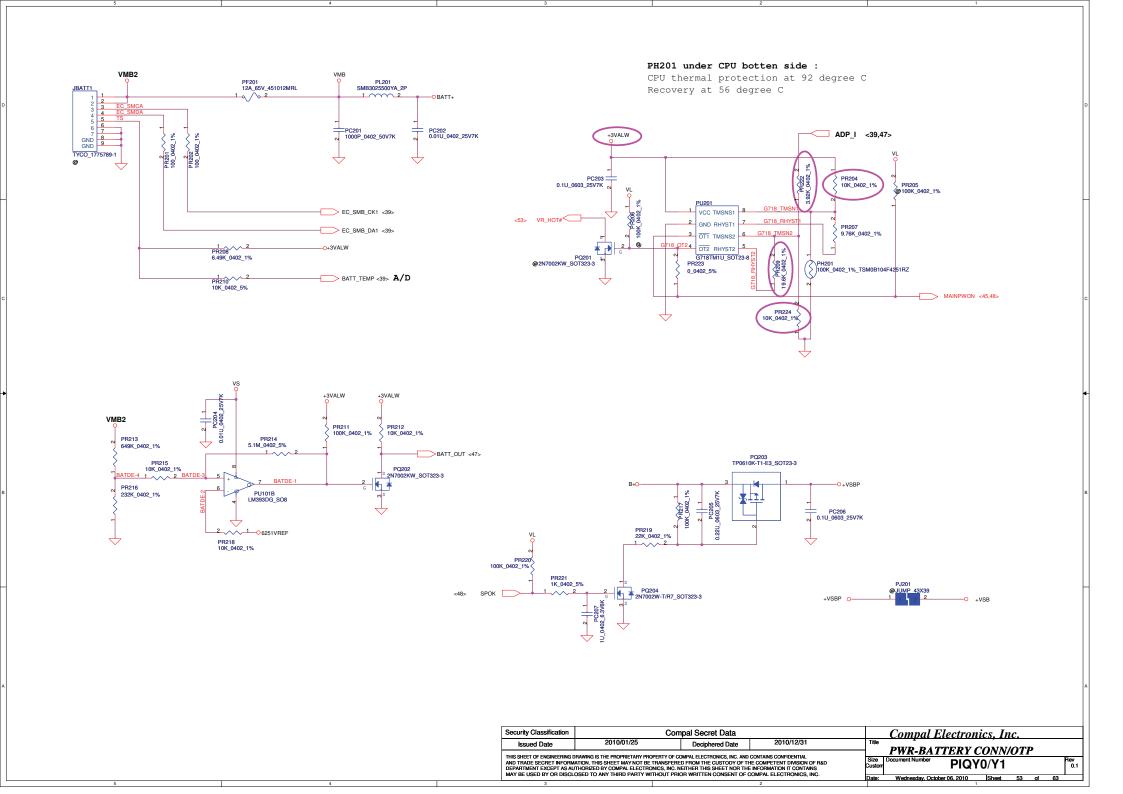
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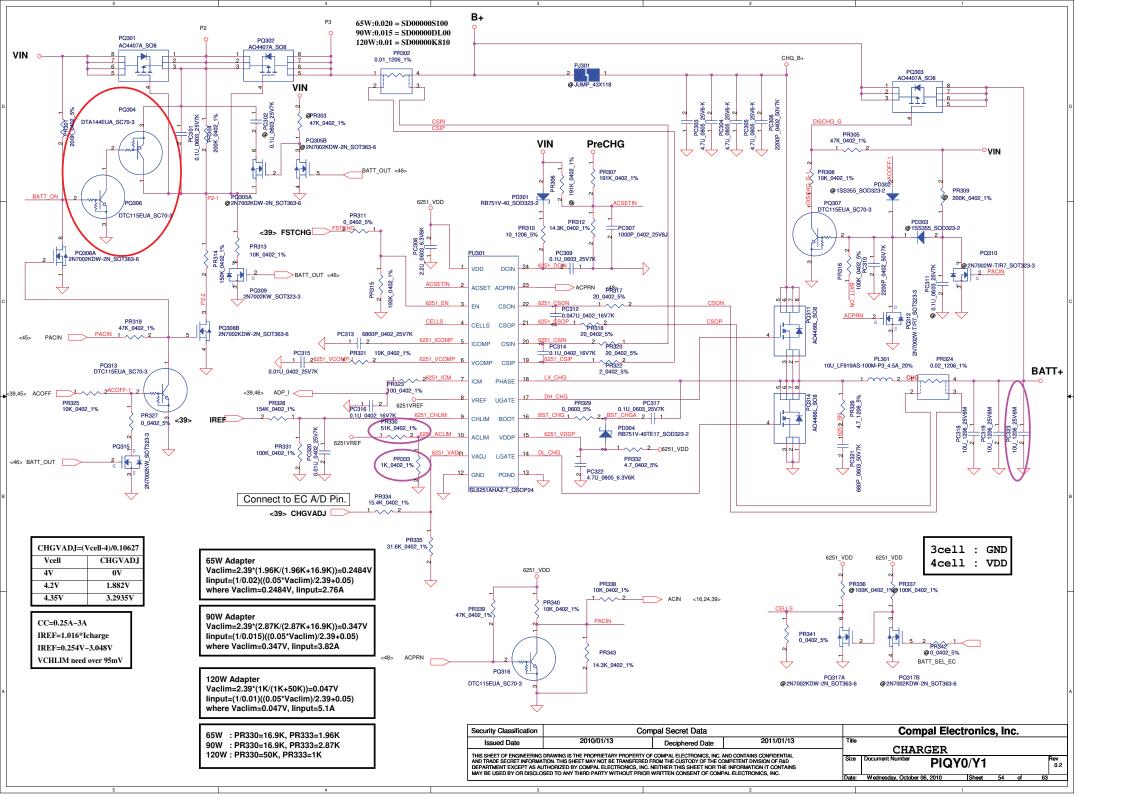
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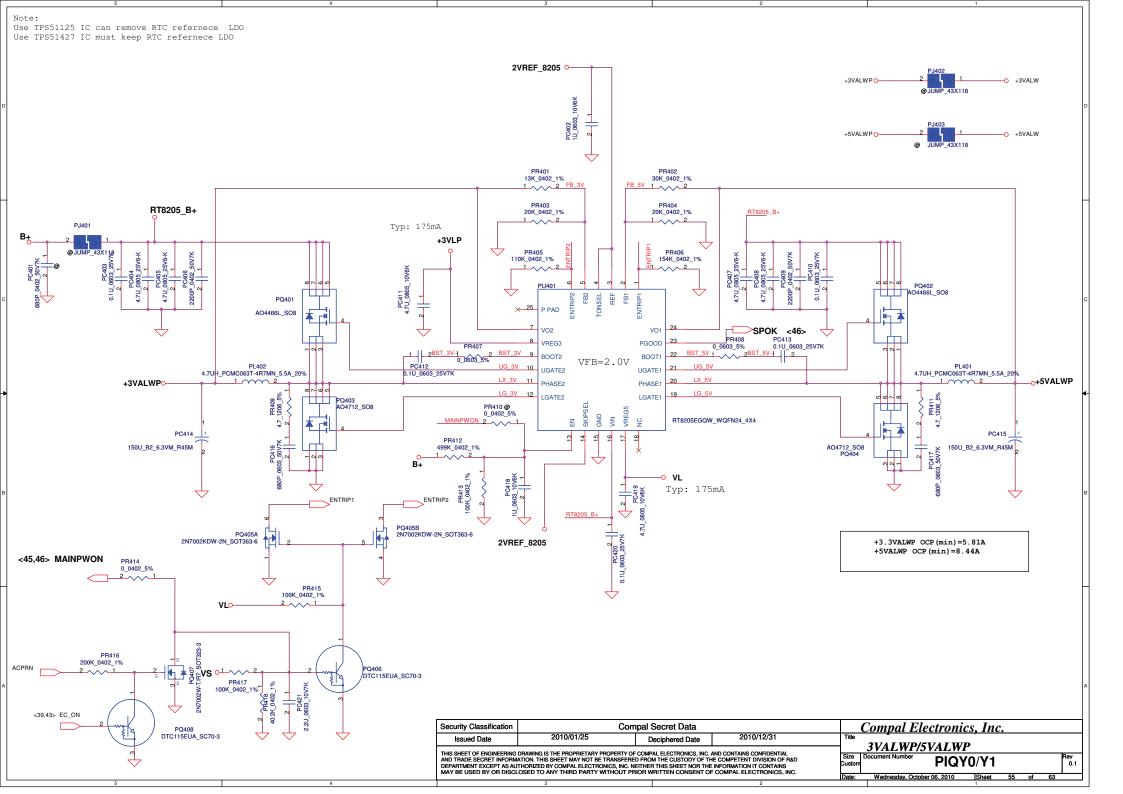
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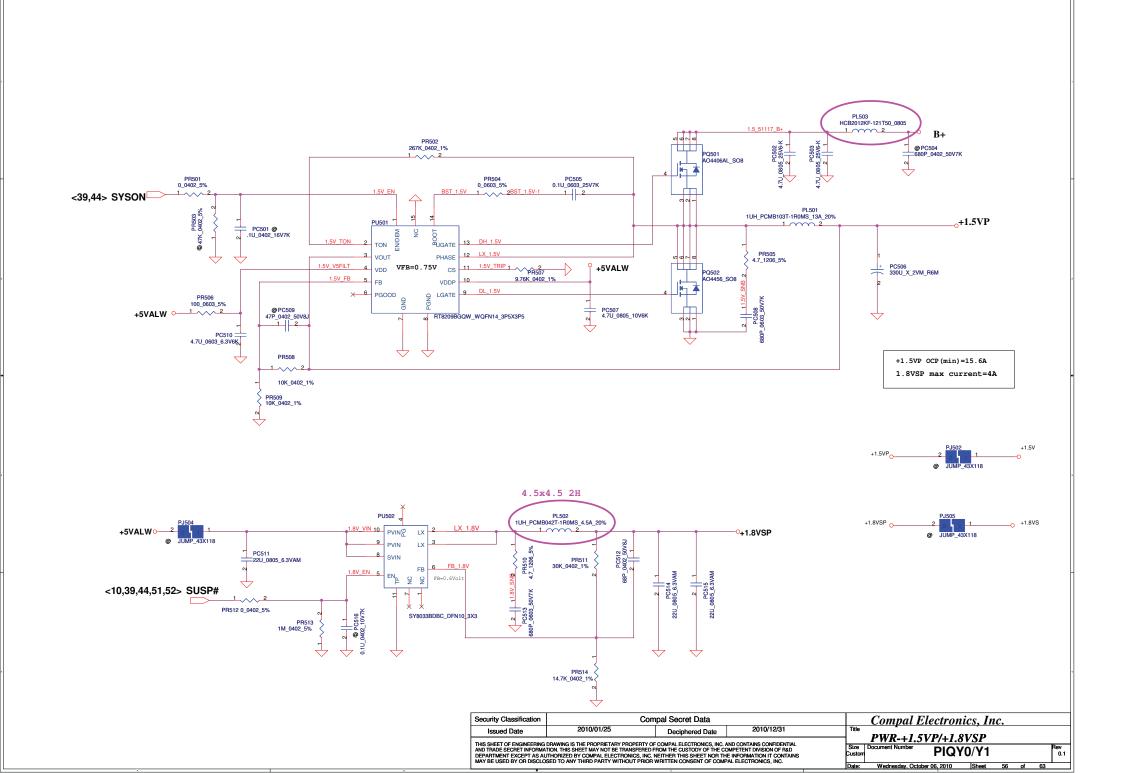


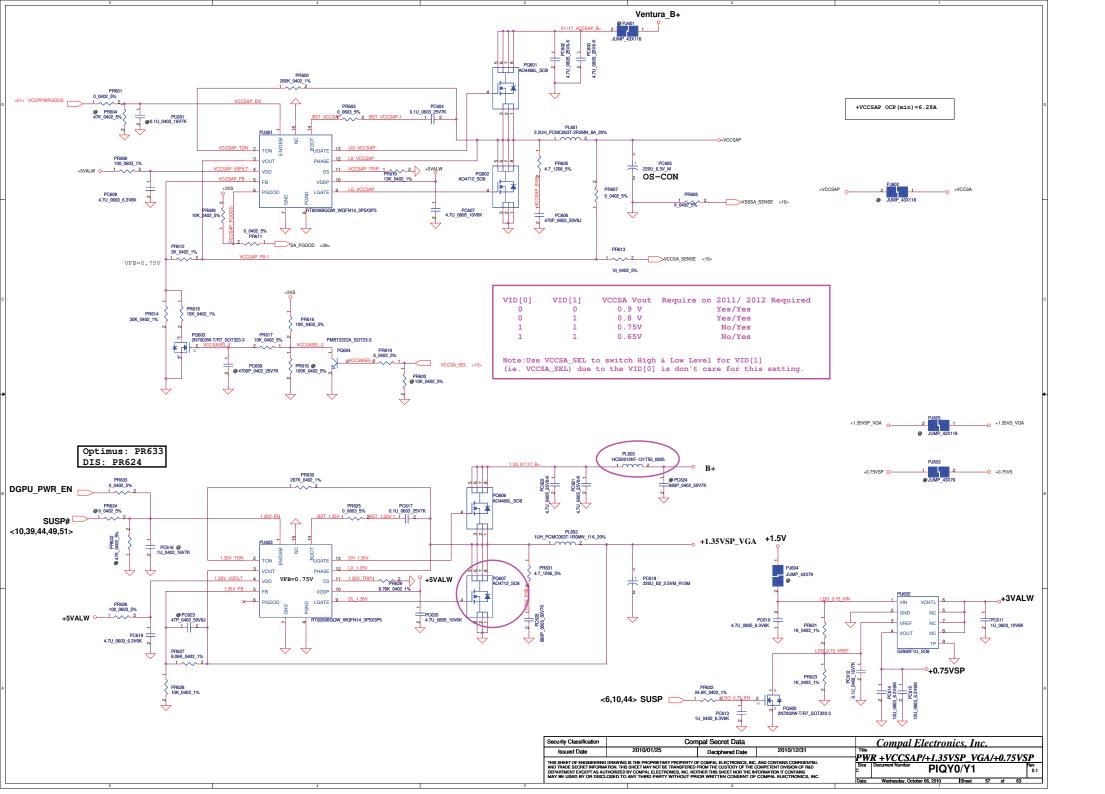


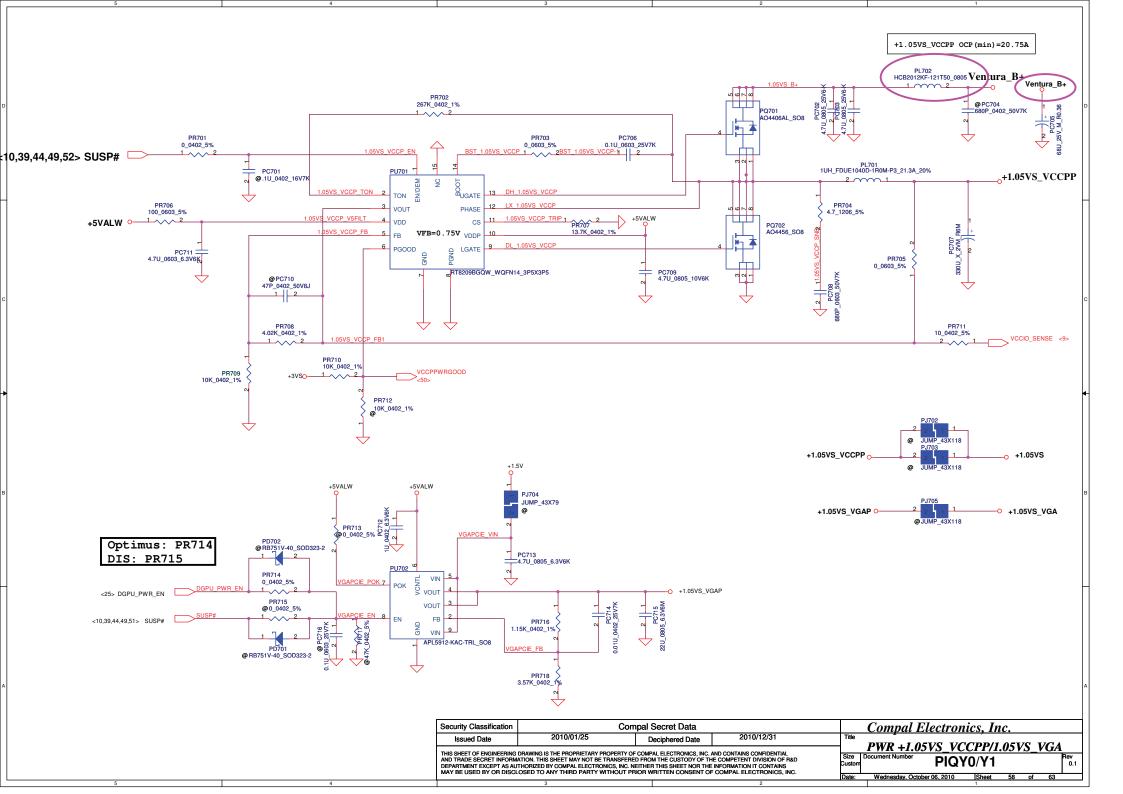


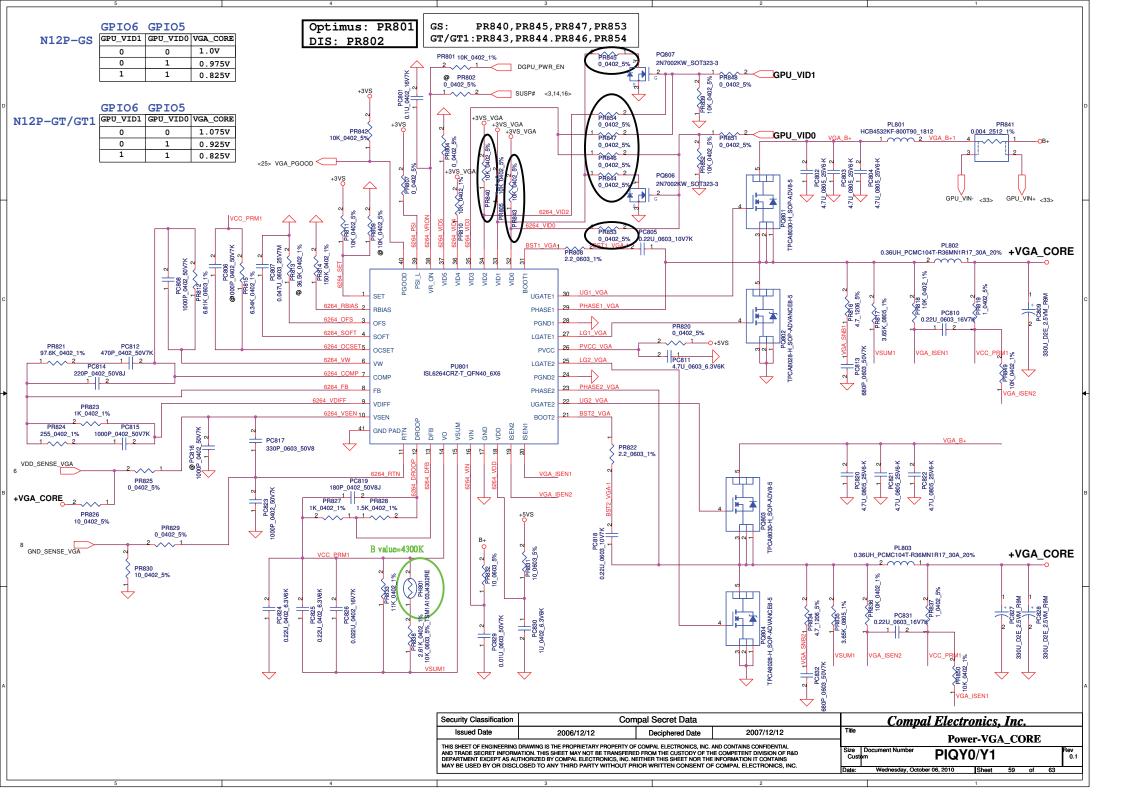


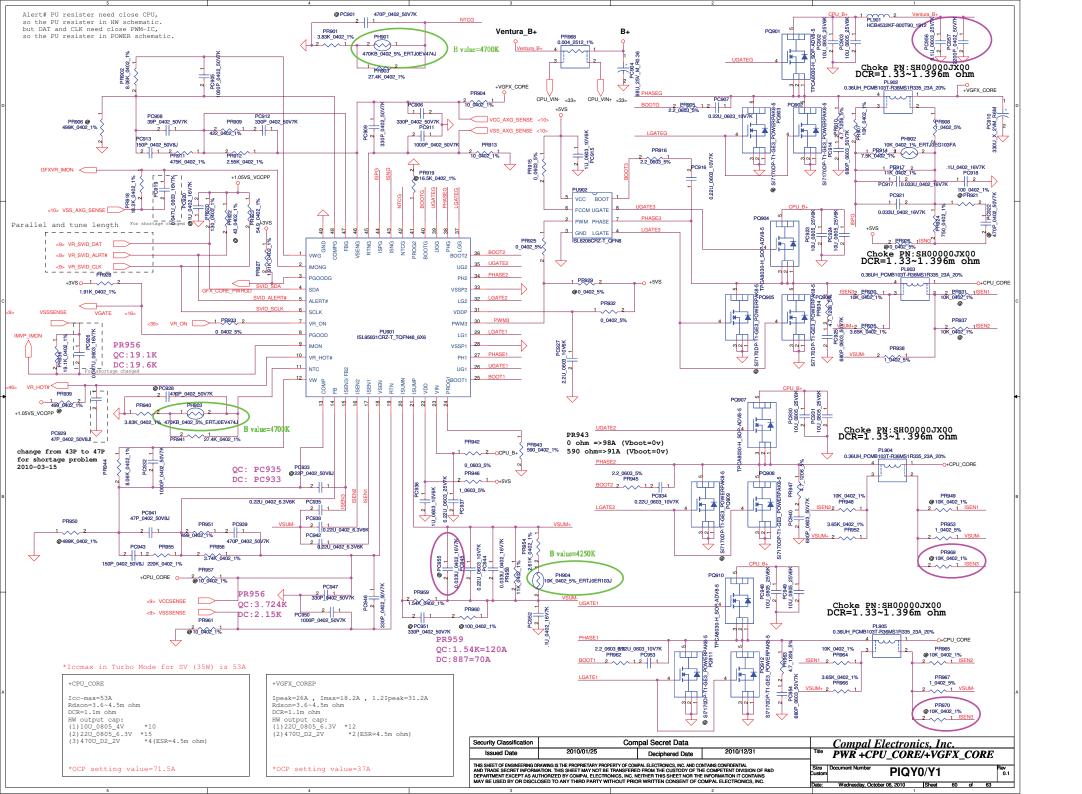










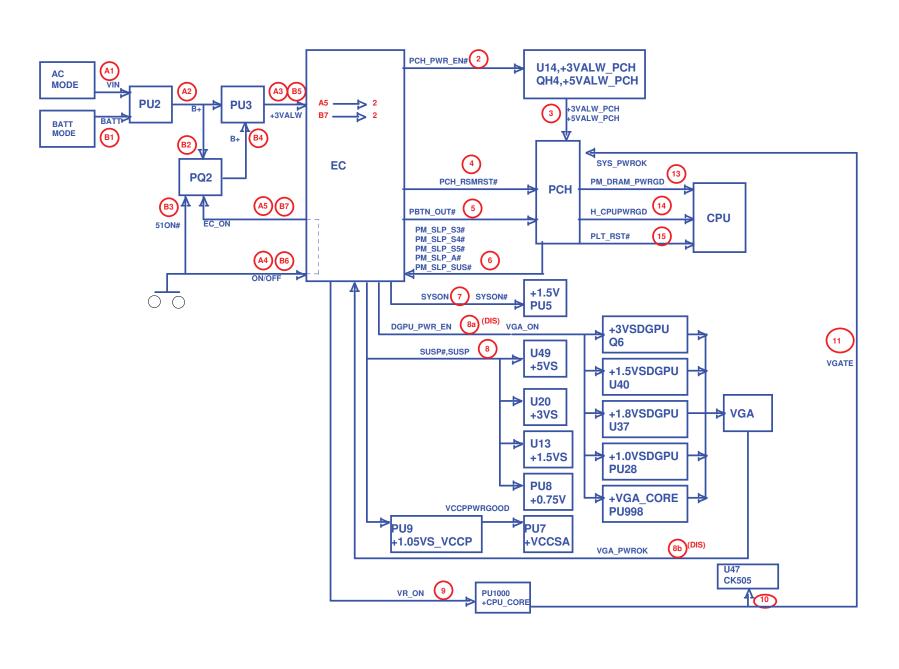


Version change list (P.I.R. List)				Page 1 of 1 for PWR						
Item	Reason for change	PG#			Modify List	701 1 111	Da	te Phase		
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PIQY1 HW PIR List

	NO DATE	PAGE	MODIFICATION LIST	PURPOSE
	1	P18	Reserve R297	Reserve pull down for PCH GP1053.
	2	P18	Exchange SATA port0 & port1	For fast boot function.
D	3	P50	Change KB light control circuit	Change KB light control from PWM to on/off.
	4	P36	Add F2 (poly-fuse)	For HDMI port diode protection.
	5	P19	Stuff R303, unstuff R340	Change ESATA_DET# to GPI01.
	6	P49	Stuff R1068, reserve R1071, R1072, R1099, Q121	Reserve USB3.0 power swicth control inverter circuit.
	7	P48	Add R1154	For CHG_ON# pull down.
	8	P45	Stuff R996, R139, C815, unstuff R1000, C732, C733, Y5	Change EC CLK from crystal to SUSCLK.
	9	P37	Add U60, Q132, C921, R1329, Q133, R1328	Add WLAN power switch circuit
	10	P09	Add C922	Add C922 to place at CPU sdie.
	11	P21	Add R1330	Add for INTVREN control
	12	P47	Modify LED1, LED2, LED3, LED5	Change LED type
	13	P45	Modify TP_LED#, PCH_DPWROK and LED_KB_PWM link	Change LED_KB_PWM to U36. pin26 GPI012.
	14	P18	Delete EN_CARD_PW#, EN_WOL#	Add FAST_BOOT# to replace EN_CARD_PW# and EN_WOL#
	15	P48	Delete USB charger circuit	Remove USB charger function
	16	P47	Modify H5, H6, H7 size	From H_3P0 to H_3P8
	17	P42	Change C660, C661 from 3300p to 0.1u	For 100Hz High Pass filter
	18	P43	Replace R958, R959 to C926, C927 0.033u	For 100Hz High Pass filter
	19	P50	Remove EC_SMB_CK2, EC_SMB_DA2 link to JP13	Remove light sensor function
	20	P42	Add C928, C929	EMI Request
	21	P49	Add J19	for USB30, USB20 colayout design
			Modify J18, J20	for USB30, USB20 colayout design
	22	P14	Add Q134, R1347, R1346	Add for Fast boot SPI ROM selection by EC.
	23	P37, P44	Add R1344, R1343	Added for WLAN and CARD reader Reset signal.
	24	P19	Add R1345	Added for VENTURA detection.

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