Compal Confidential

Lotus M/B Schematics Document

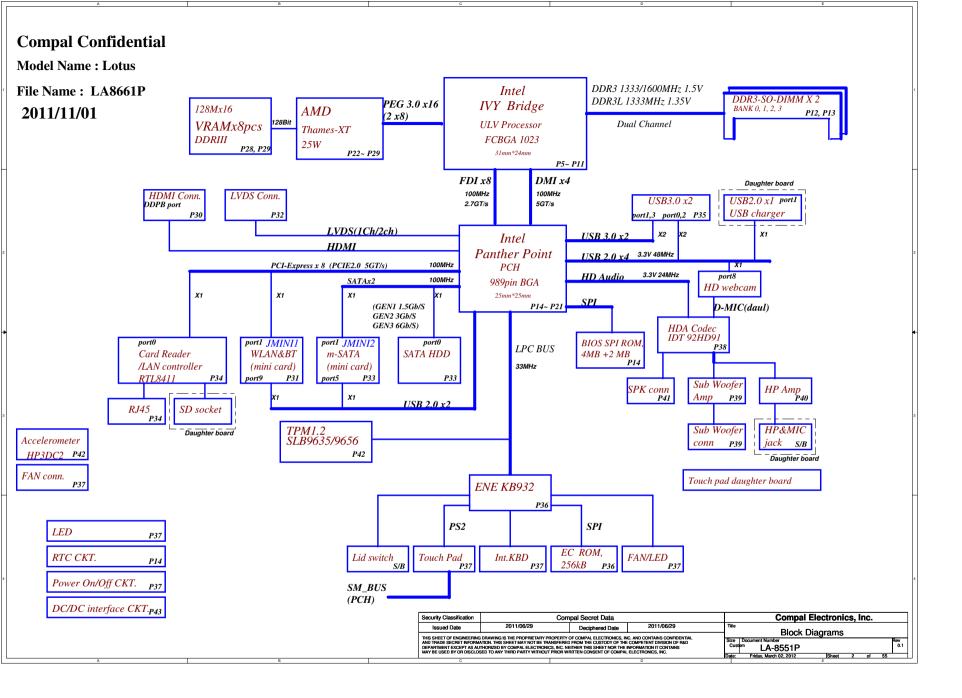
14": Elise; 15.6" Exige

Intel Ivy Bridge ULV Processor with DDRIII + Panther Point

Date: 2011/10/27

Version 0.1

| Security Classification | Compal Secret Data 2011/06/29 | | | Compal Electronics, Inc. | |
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| Issued Date | 2011/06/29 | Deciphered Date | Block Diagrams | | |
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QAU30/50 (LA-8661P Ver:0.1)

Voltage Rails

| Power Plane | Description | S1 | S3 | S5 |
|--------------|--|-----|-----|-----|
| VIN | Adapter power supply (19V) | N/A | N/A | N/A |
| BATT+ | Battery power supply (12.6V) | N/A | N/A | N/A |
| B+ | AC or battery power rail for power circuit. | N/A | N/A | N/A |
| +CPU_CORE | Core voltage for CPU | ON | OFF | OFF |
| | | ON | OFF | OFF |
| +VGFX_CORE | Core voltage for UMA graphic | ON | OFF | OFF |
| +0.75VS | +0.75VP to +0.75VS switched power rail for DDR terminator | ON | OFF | OFF |
| +1.05VS VCCP | +V1.05SP to +1.05VS VCCP switched power rail for CPU | ON | OFF | OFF |
| +VCCP | +VCCP (1.05V) power for PCH | ON | OFF | OFF |
| +1.5V | +1.5VP to +1.5V power rail for DDRIII (1.35V OR 1.5V) | ON | ON | OFF |
| +1.5VS | +1.5VS switched power rail | ON | OFF | OFF |
| +1.8VS | (+5VALW) to 1.8V switched power rail to PCH | ON | OFF | OFF |
| +3VALW | +3VALW always on power rail | ON | ON | ON' |
| +3VALW_EC | +3VALW always to KBC | ON | ON | ON' |
| +LAN_IO | +3VALW to +LAN_IO power rail for LAN | ON | ON | ON' |
| +3V_PCH | +3VALW to +3V_PCH power rail for PCH (Short Jumper) | ON | ON | ON' |
| +3VS | +3VALW to +3VS power rail | ON | OFF | OFF |
| +5VALW | +5VALWP to +5VALW power rail | ON | ON | ON' |
| +5V_PCH | +5VALW to +5V_PCH power rail for PCH (Short resister) | ON | ON | ON' |
| +5VS | +5VALW to +5VS switched power rail | ON | OFF | OFF |
| +VSB | B+ to +VSB always on power rail for sequence control | ON | ON | ON' |
| +RTCVCC | RTC power | ON | ON | ON |
| | RTC power that this power plane is ON only with AC power available, otherwise | | ON | Ľ |

| 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 |

| Power Plane | Description | S1 | S3 | S5 |
|-------------|-------------|----|-----|-----|
| +VGA_CORE | GPU power | PX | OFF | OFF |
| +3VGS | GPU power | PX | OFF | OFF |
| +1.8VGS | GPU power | PX | OFF | OFF |
| +1.5VGS | GPU power | PX | OFF | OFF |
| +1.0VGS | GPU power | PX | OFF | OFF |

EC SM Bus1 address

Device Address
Smart Battery
G-sensor 0x50/0x52

EC SM Bus2 address

PCH (Reserve)

PCH SM Bus address

BY SKU

9635@ 9656@

CPUUMA1@

CPUUMA2@

M2G@ S2G@

CPUDIS@

X76@

TPM

DDR DIMMO DDR DIMM1 Mini Card1 Address

Mini Card2 TP module

| 5 |
|----|
| Р |
| PC |
| PC |
| |

SMBUS Control Table

CLKOUT_PCIE5

CLKOUT PCIE6

CLKOUT_PCIE7

CLKOUT_PEG_B

None

None

None

None

| | SOURCE | BATT | WLAN MIINI1 | BATT Charger | TP | SODIMM | EC_SMB_CK2 EC_SMB_DA2 | PCH_SML1CLK PCH_SML1DATA | G-Sensor | GPU | HP AMP |
|-----------------------------|--------|------|----------------|-----------------|----|--------|--------------------------|-----------------------------|----------|-----|--------|
| EC_SMB_CK1 EC_SMB_DA1 | KB930 | v | | V | | | , | | v | | |
| EC_SMB_CK2 EC_SMB_DA2 | KB930 | | | | | | • | v | | v | v |
| PCH_SMBCLK PCH_SMBDATA | PCH | | @ | | V | v | | | | | |
| PCH_SMLOCLK PCH_SMLODATA | PCH | | | | | | | | | | |
| PCH_SML1CLK PCH_SML1DATA | PCH | | | | | | V | | | | |

| CLKOUT | DESTINATION |
|--------|-------------|
| PCI0 | PCH_LPBACK |
| PCI1 | PCI_LPC |
| PCI2 | None |
| PCI3 | None |
| PCI4 | None |
| | |

| SATA | DESTINATION |
|-------|---------------|
| SATA0 | SATA, JHDD1 |
| SATA1 | m-SATA,JMINI2 |
| SATA2 | None |
| SATA3 | None |
| SATA4 | None |
| SATA5 | None |
| | |

| | DIFFERENTIAL | DESTINATION | FLEX CLOCKS | DESTINATION |
|-----|--------------|-------------------------|-------------------------------------|-------------|
| | CLKOUT PCIE0 | PCIE LAN CARD READER | CLKOUTFLEX0 | None |
| | _ | CARD READER | CLKOUTFLEX1 | None |
| | CLKOUT_PCIE1 | mini WLAN | CLKOUTFLEX2 | None |
| CLK | CLKOUT_PCIE2 | None | CLKOUTFLEX3 | DGPU_PRSNT# |
| | CLKOUT_PCIE3 | None | Symbol Note: : means Digital Ground | |
| | CLKOUT_PCIE4 | None | | |

| | Option | @ | CONN@ | USB30@ | PX@ | UMA@ | DIS@ | THA@ |
|---|--------|---|-------|--------|-----|------|------|------|
| ĺ | UMA | Х | Х | V | х | V | х | Х |
| ĺ | DIS | х | Х | ٧ | V | х | V | ٧ |

| USB 3.0 | Port | 2 External USB Port |
|---------|------|------------------------|
| | 1 | USB3.0 (left Side) |
| | 2 | None |
| | 3 | USB3.0 (left Side) |
| | 4 | None |

3 External

USB Port USB2.0 (left Side) USB2.0 (right Side) USB2.0 (left Side)

None

None None

None

None

None None

None

None

Mini Card(WLAN& BT)

| : means Analog Ground | | | | | | | |
|-----------------------|--------|--------|--------|--------|--|--|--|
| Project ID | 30UMA@ | 30DIS@ | 50UMA@ | 50DIS@ | | | |
| | | | | | | | |

| PCB | LA-8661P | LA-8662P |
|------|----------|----------|
| . 02 | PX@ | UMA@ |

| Security Classification | rity Classification Compal Secret Data | | | | Com | pal Electronic | s, Inc. | | |
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USB Port Table

EHCI1

EHCI2

USB 2.0 USB 1.1 Port

UHCI1

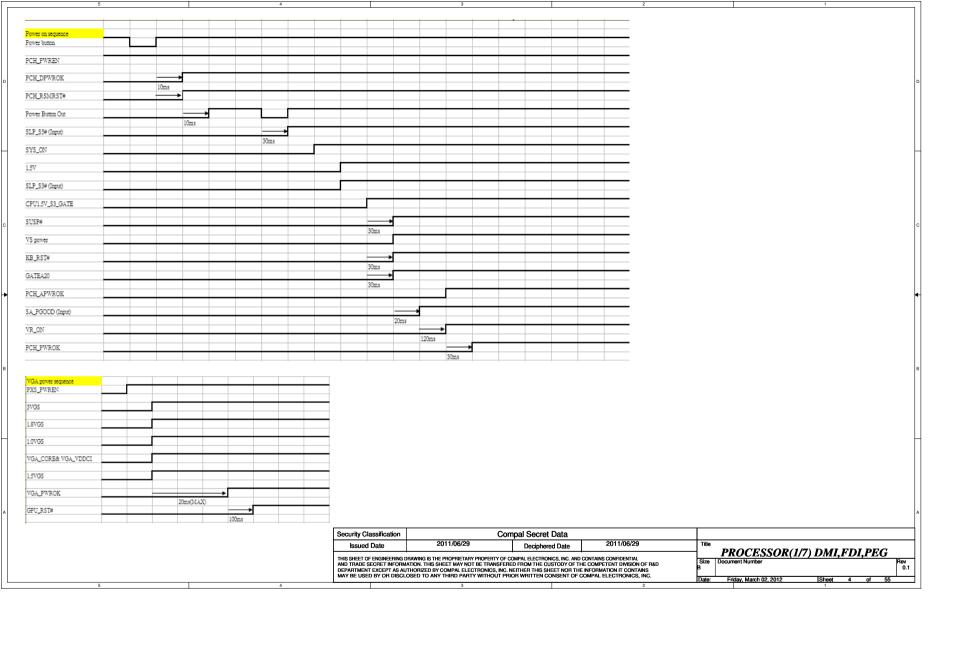
UHCI2

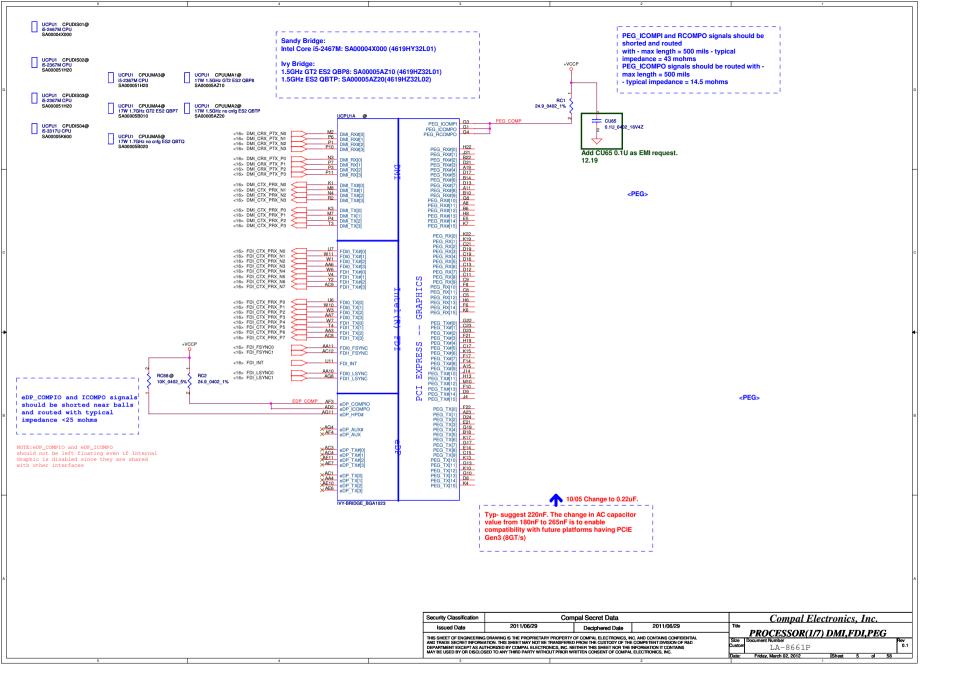
UHCI3

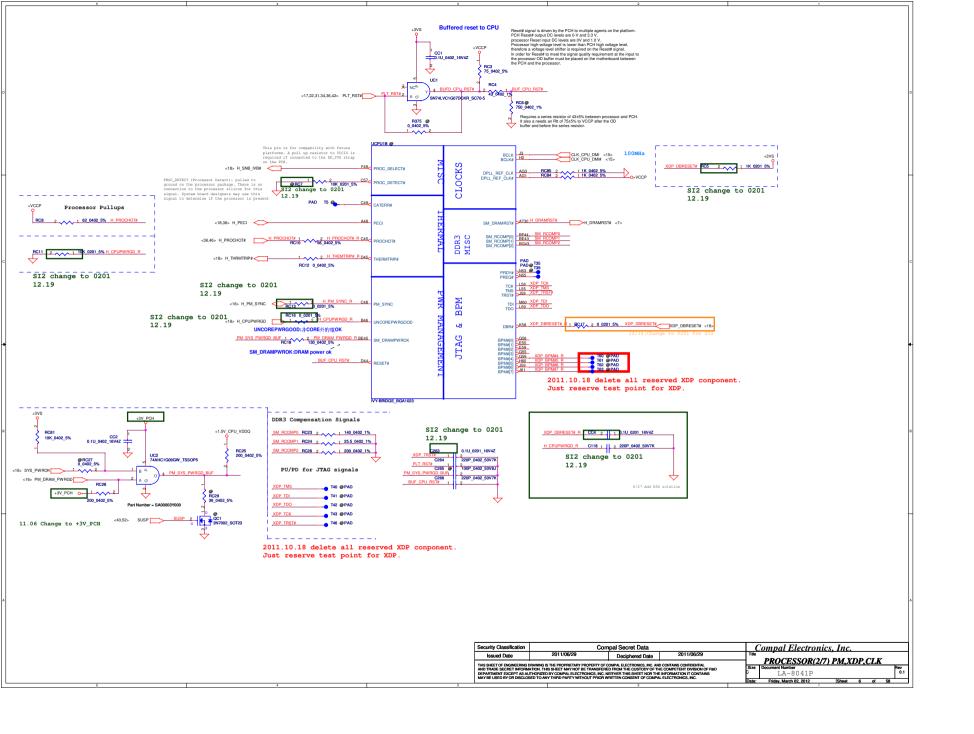
UHCI4

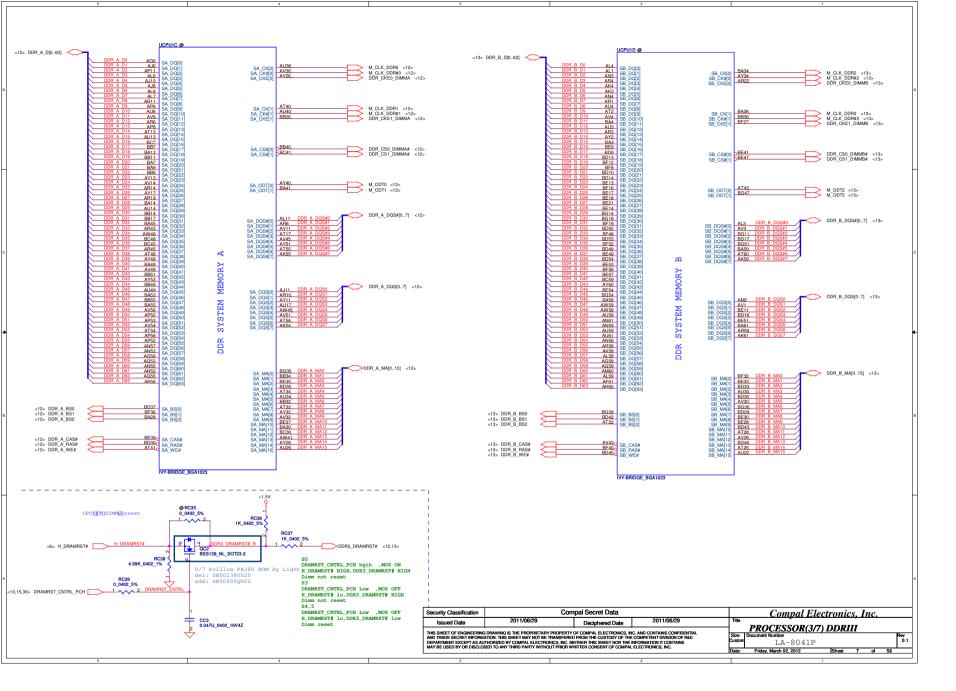
UHCI5

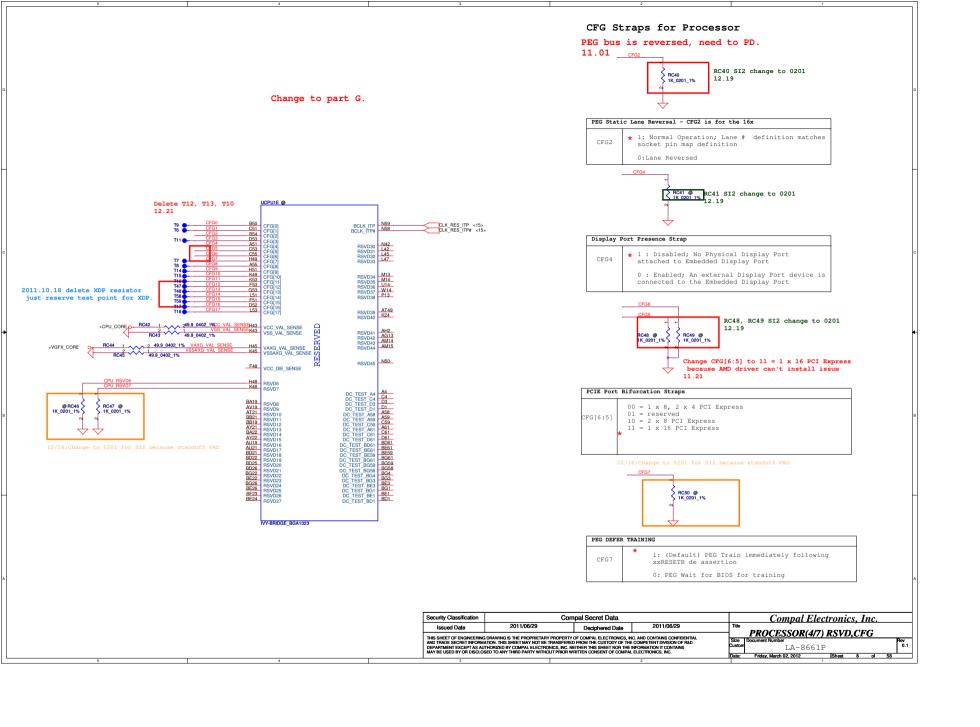
UHCI6

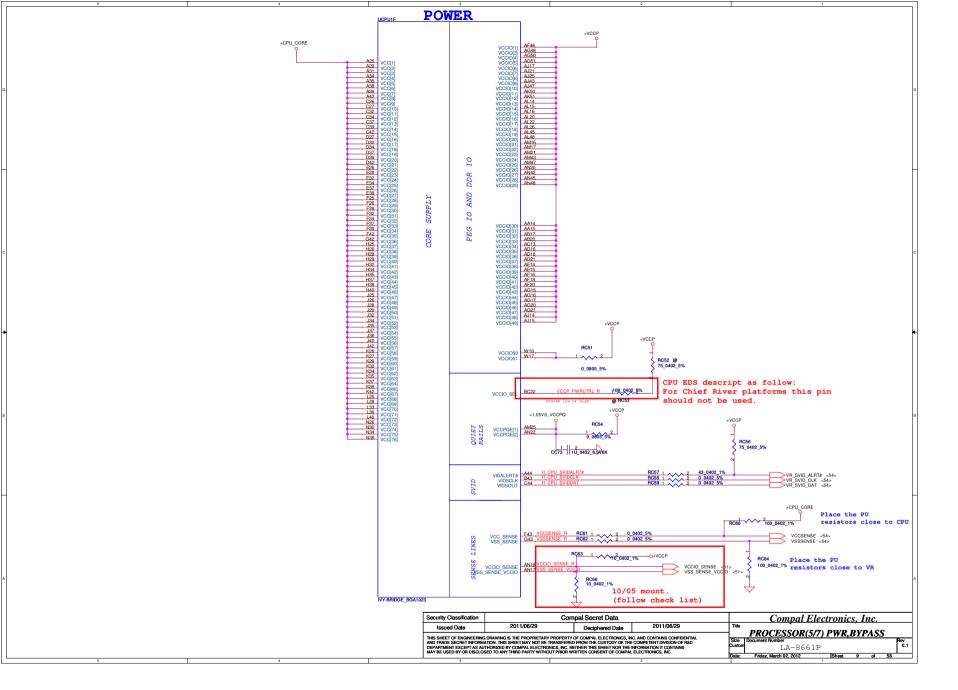


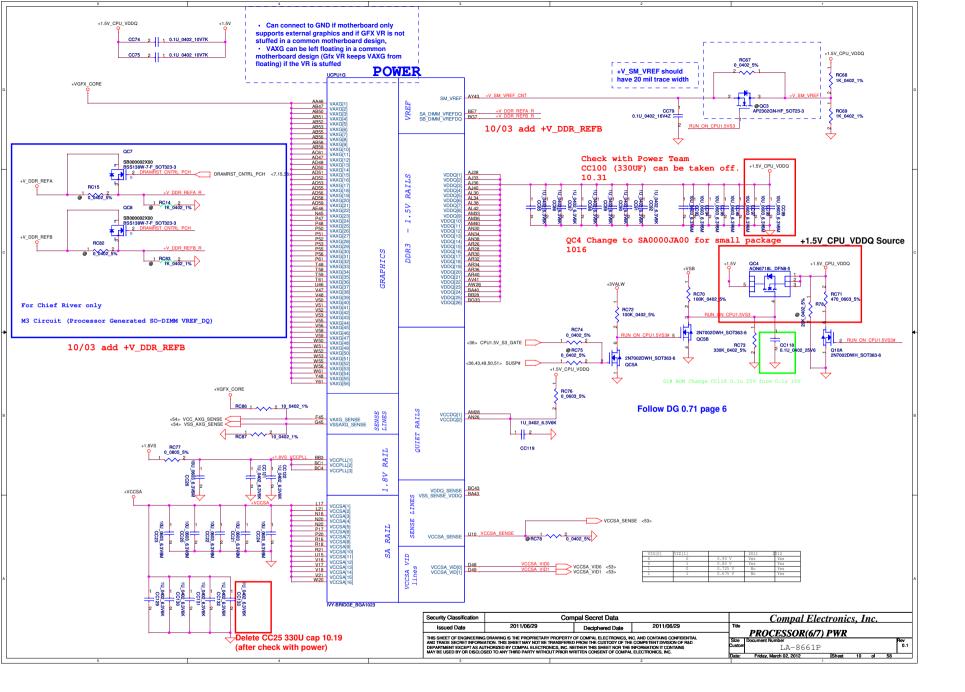


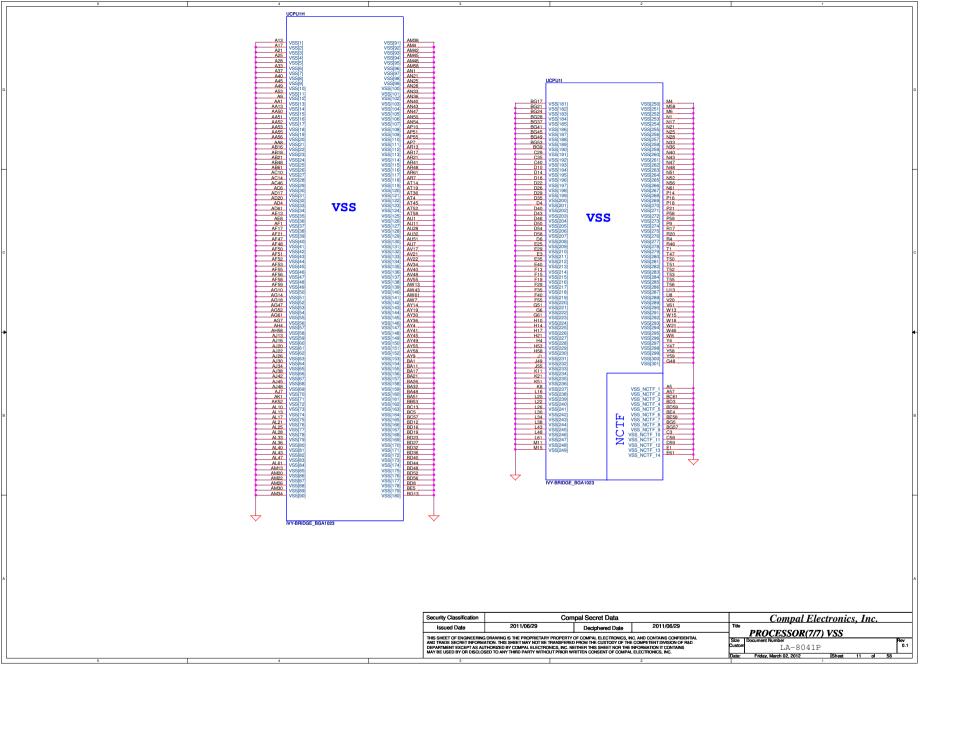


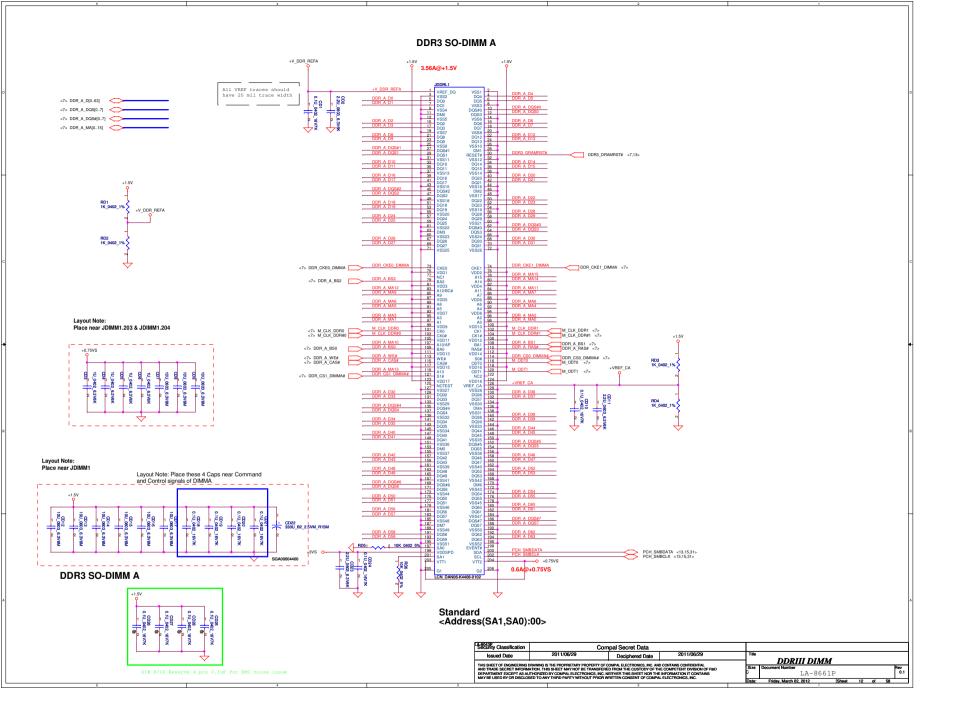


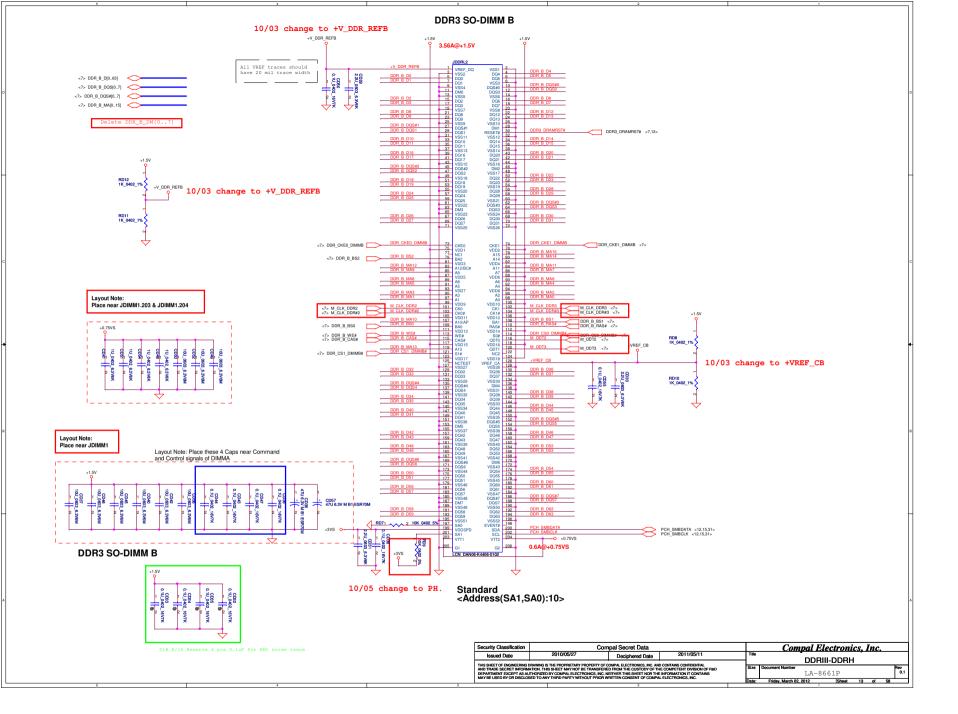


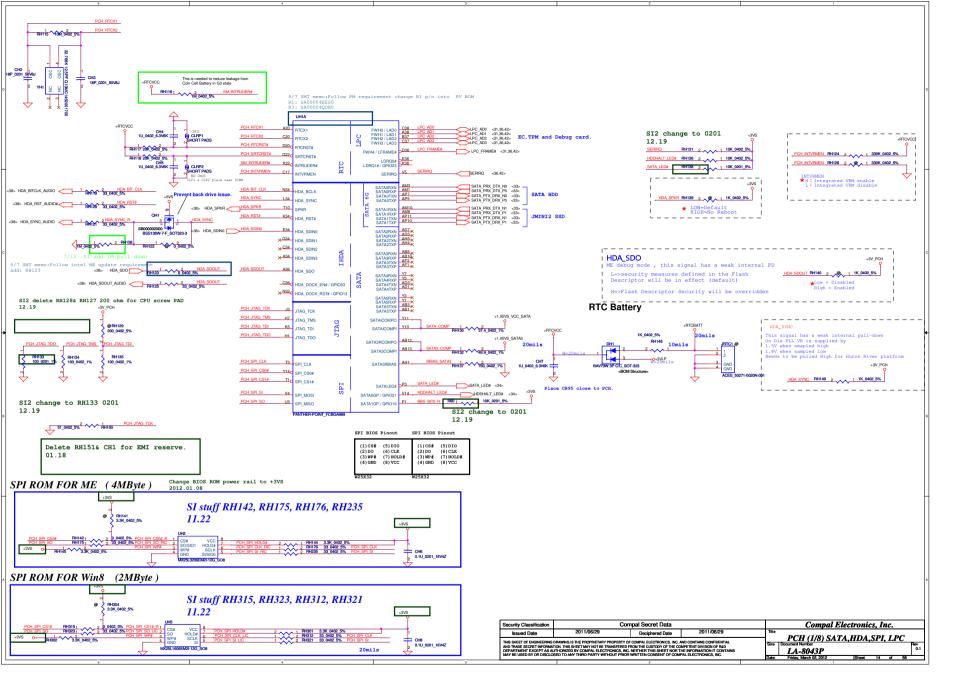


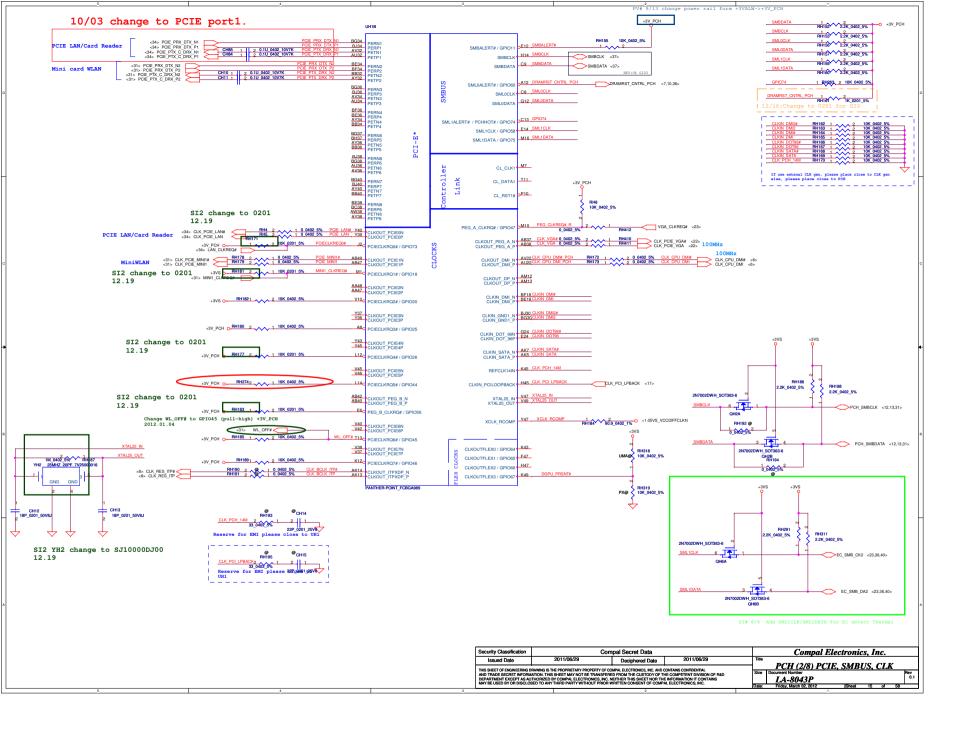


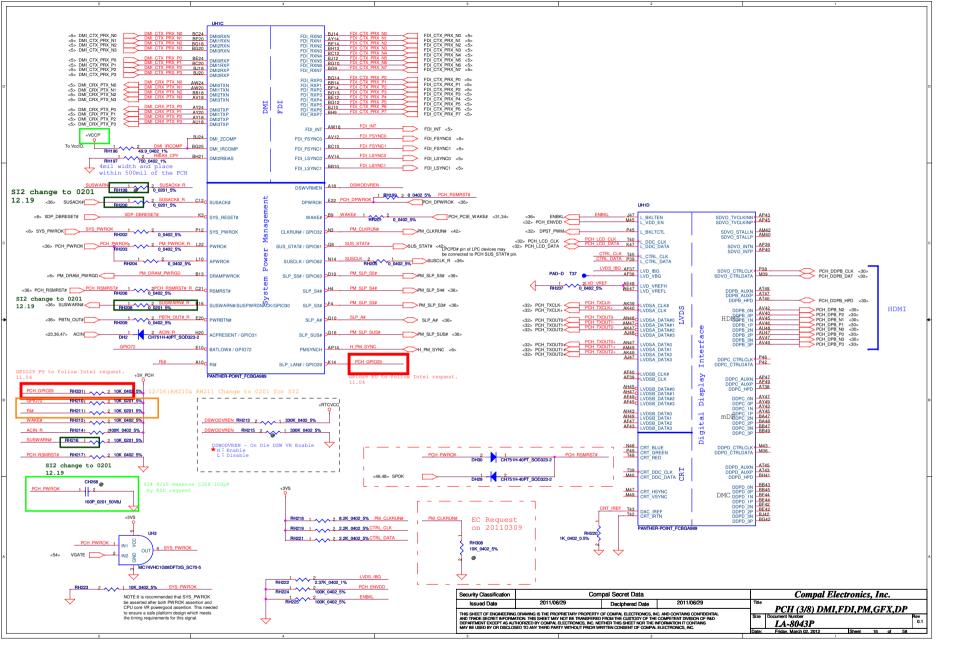


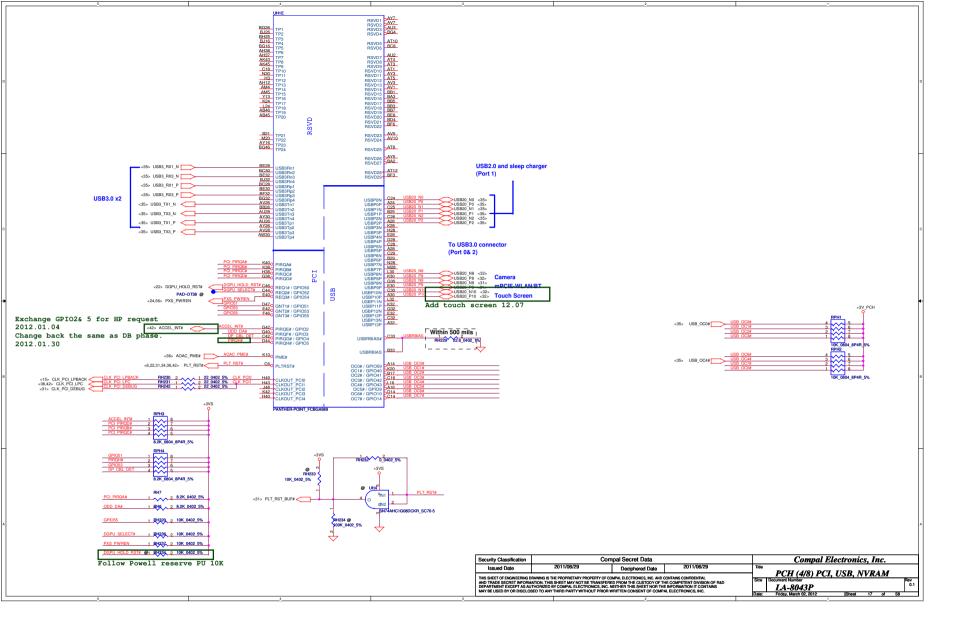


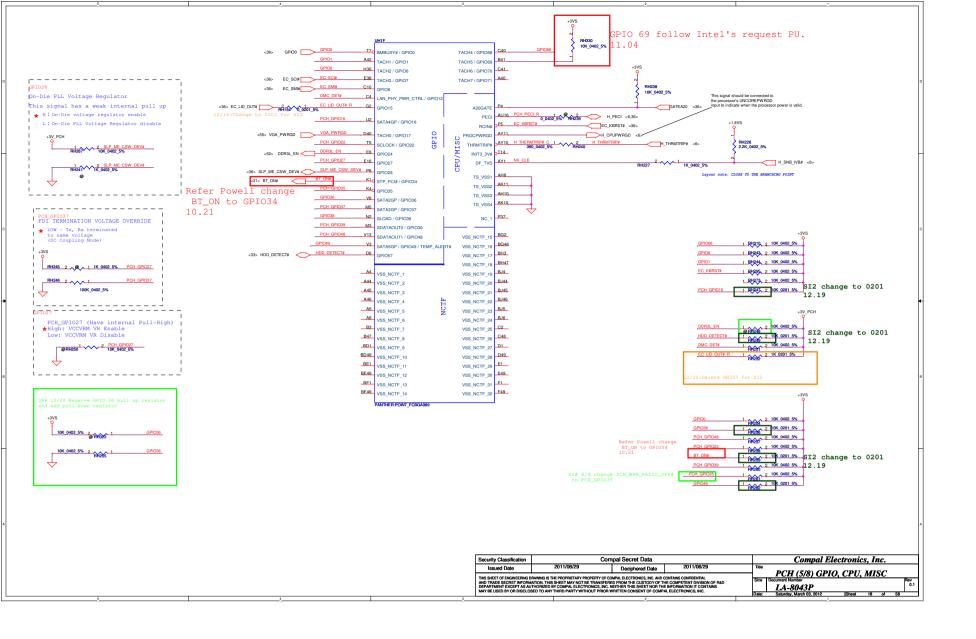


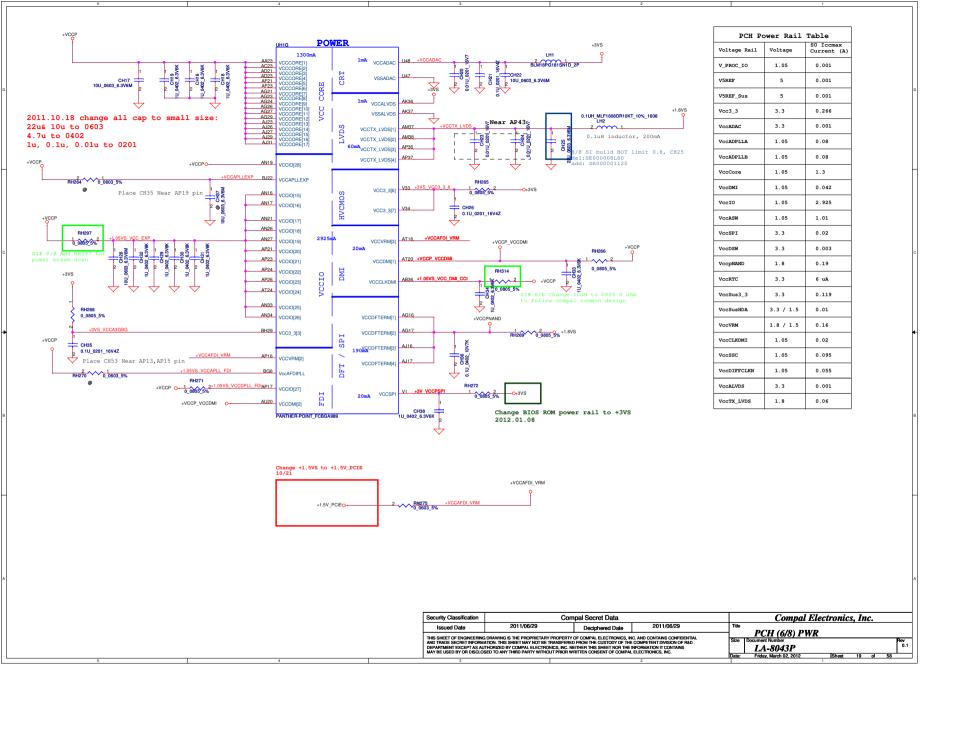


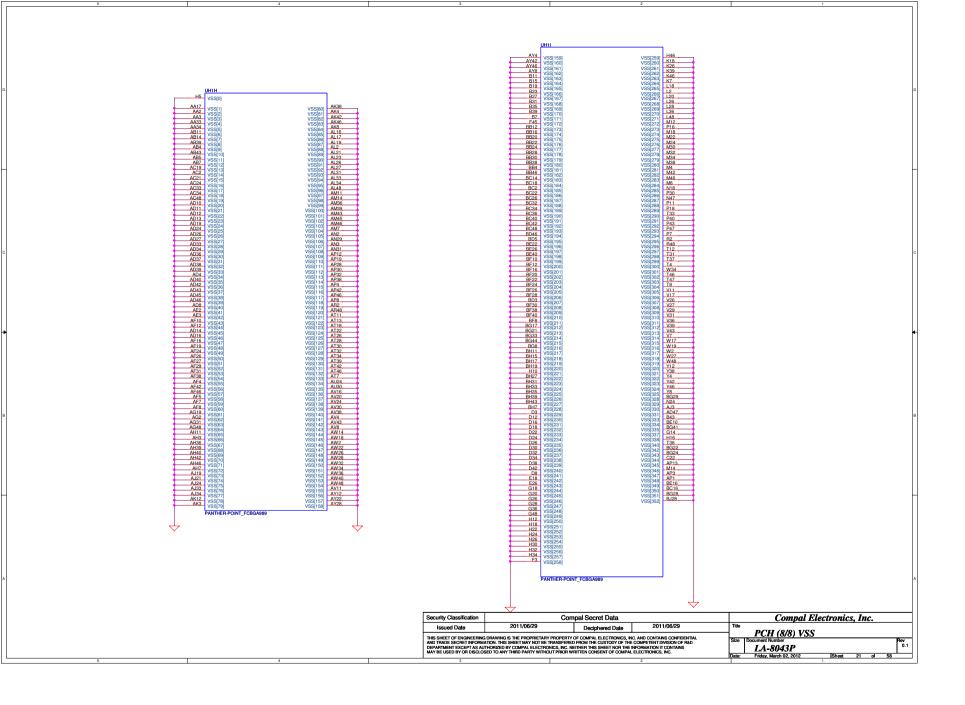


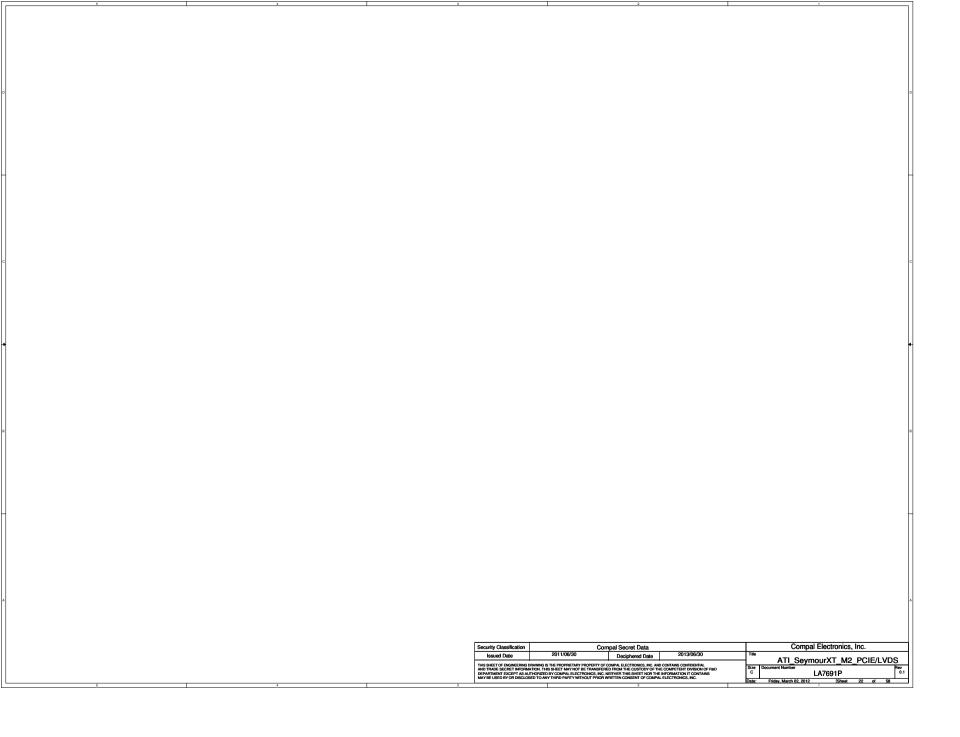


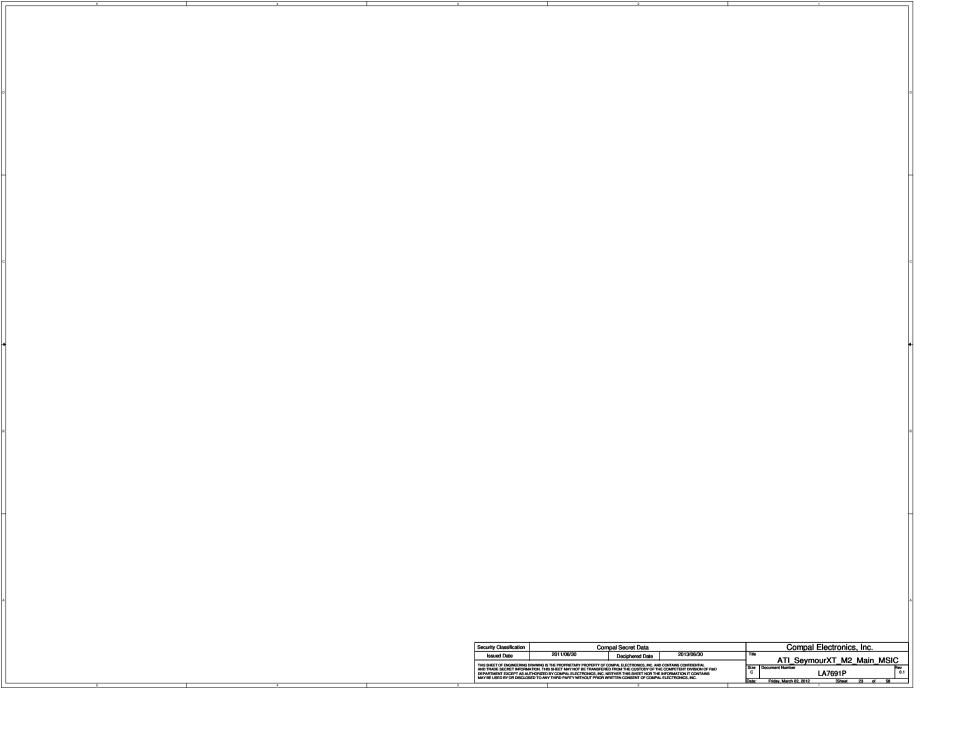












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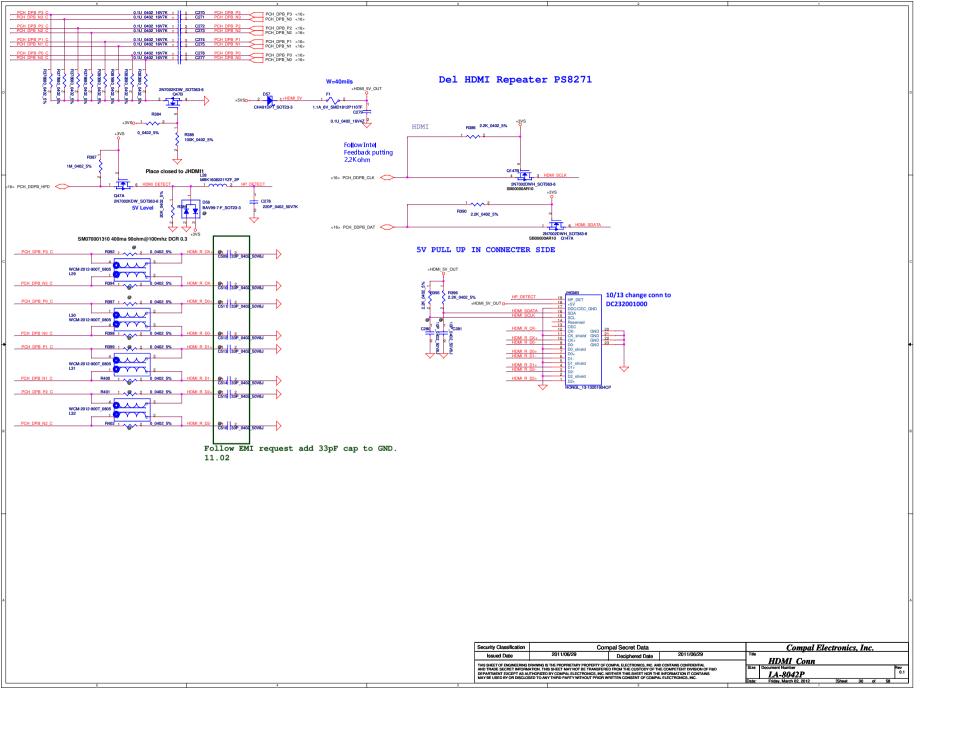
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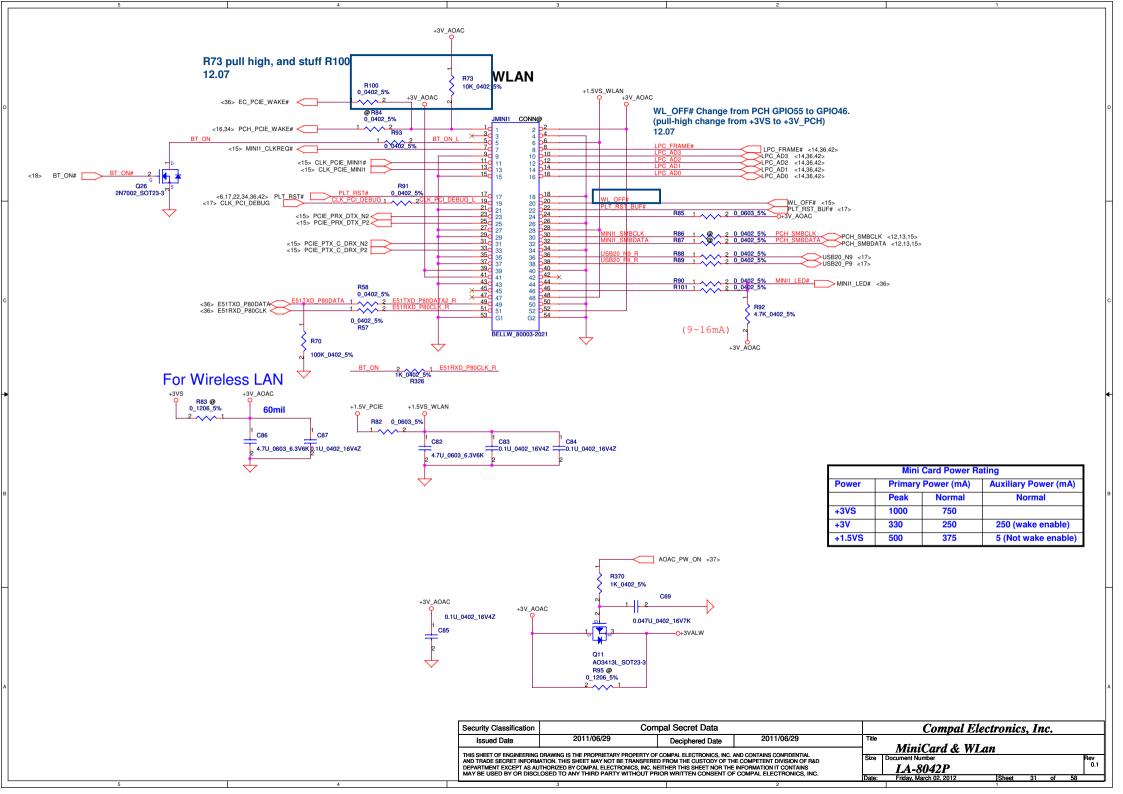
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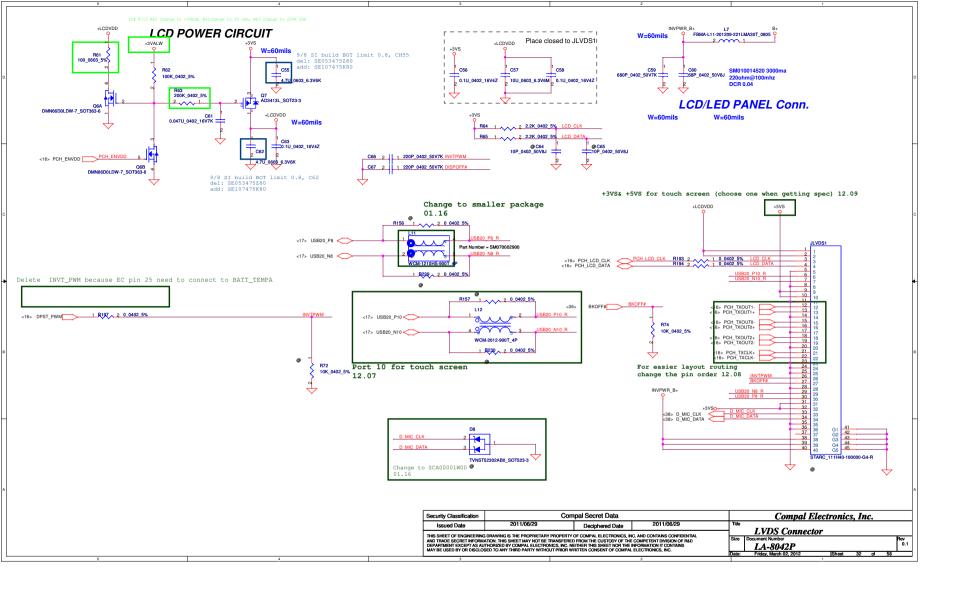
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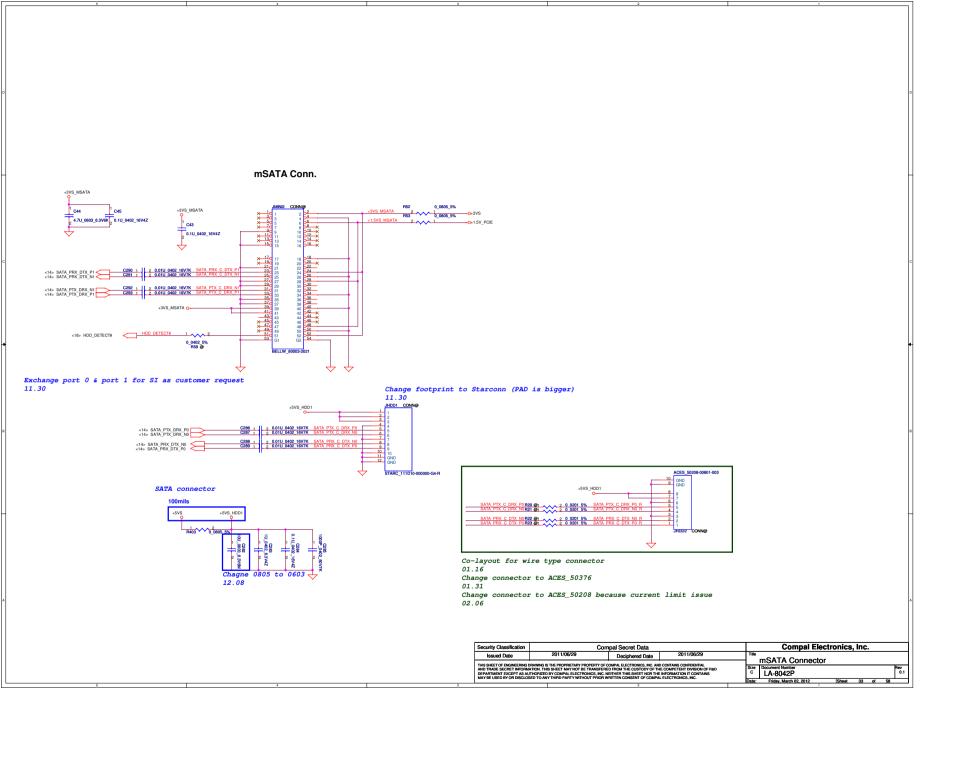


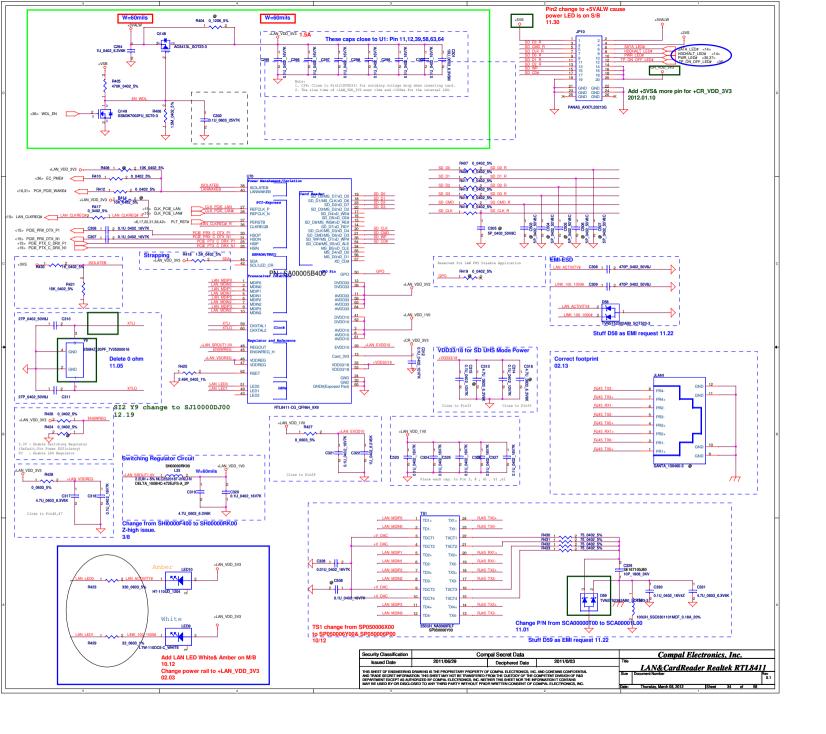


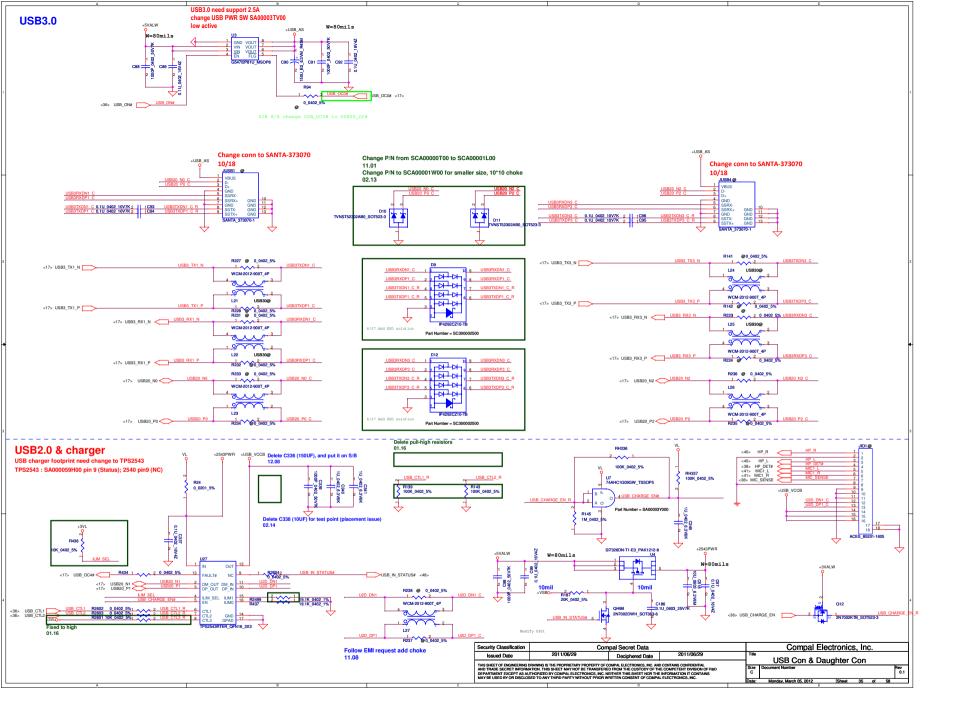


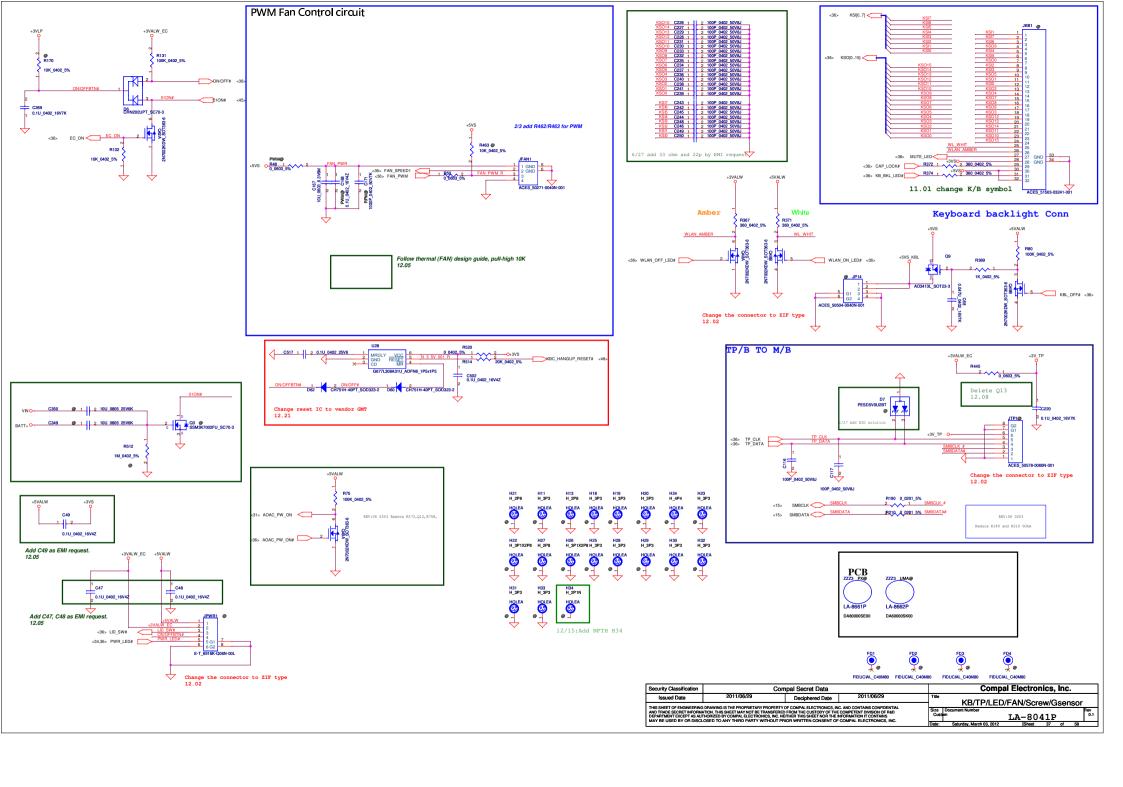


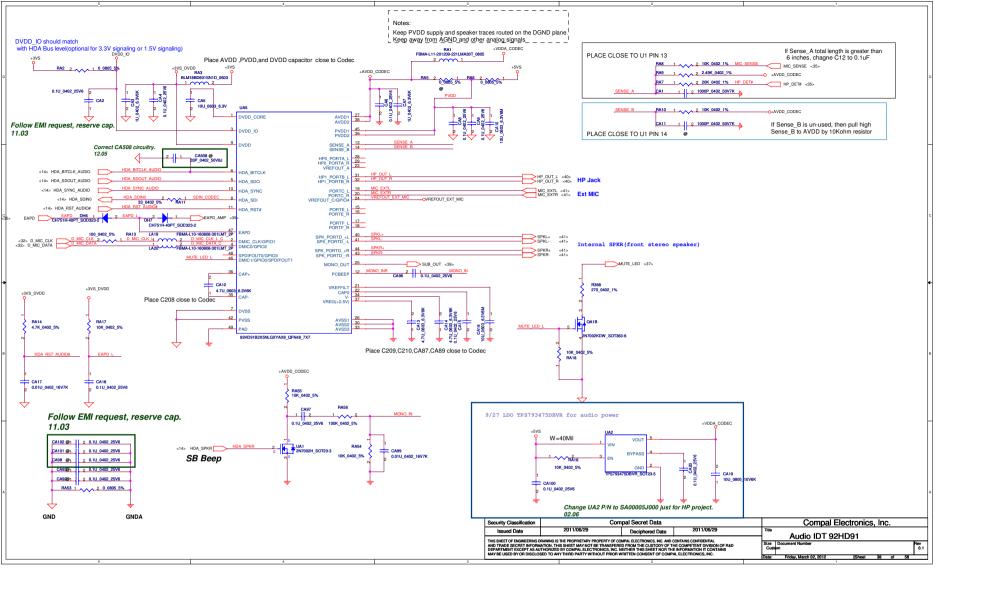


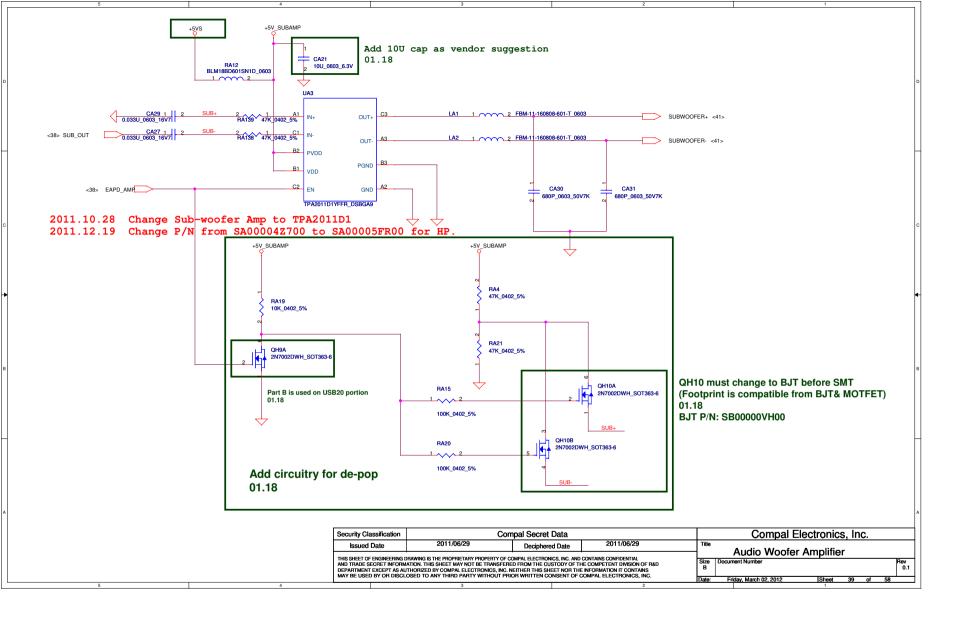


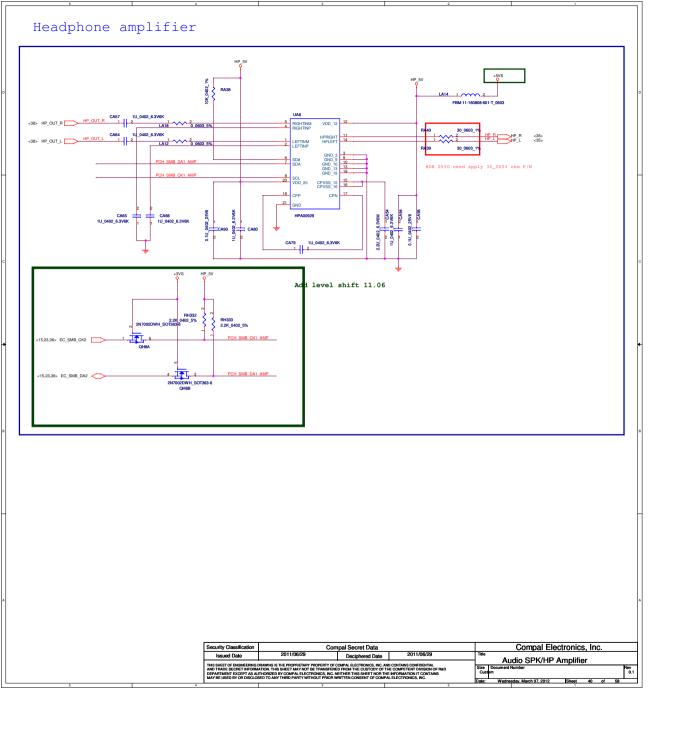


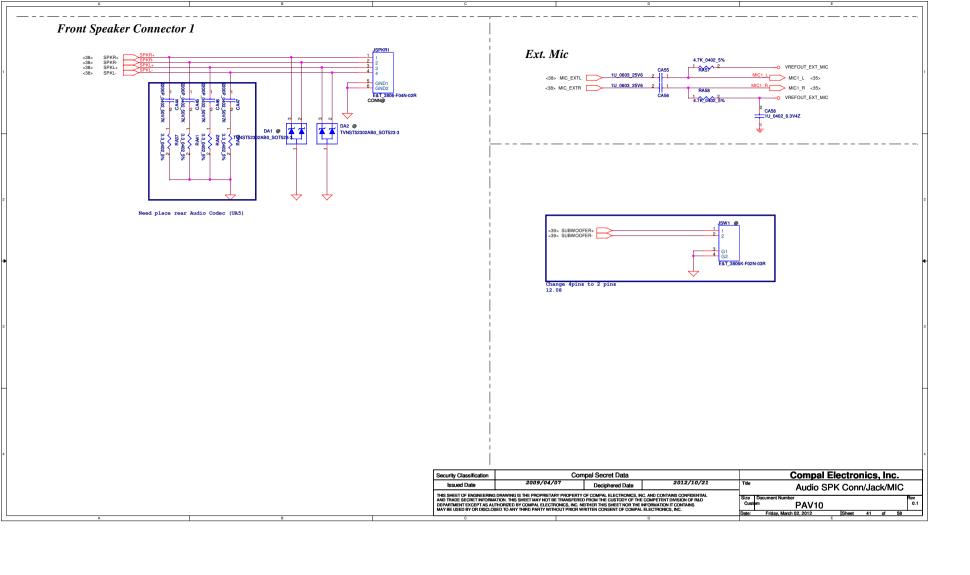


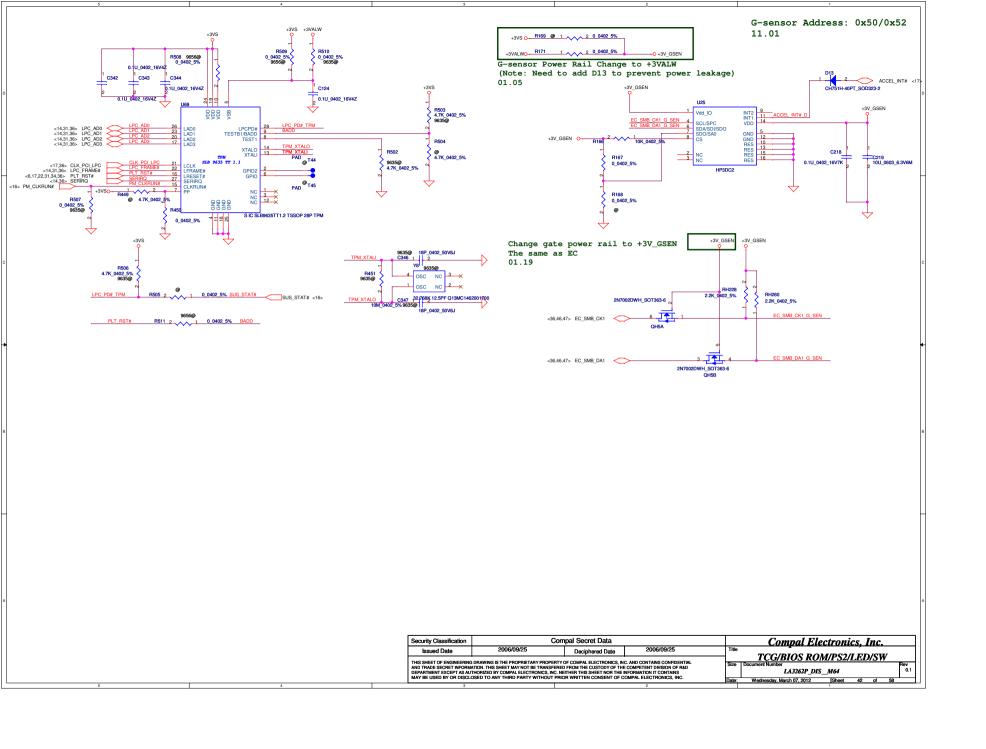


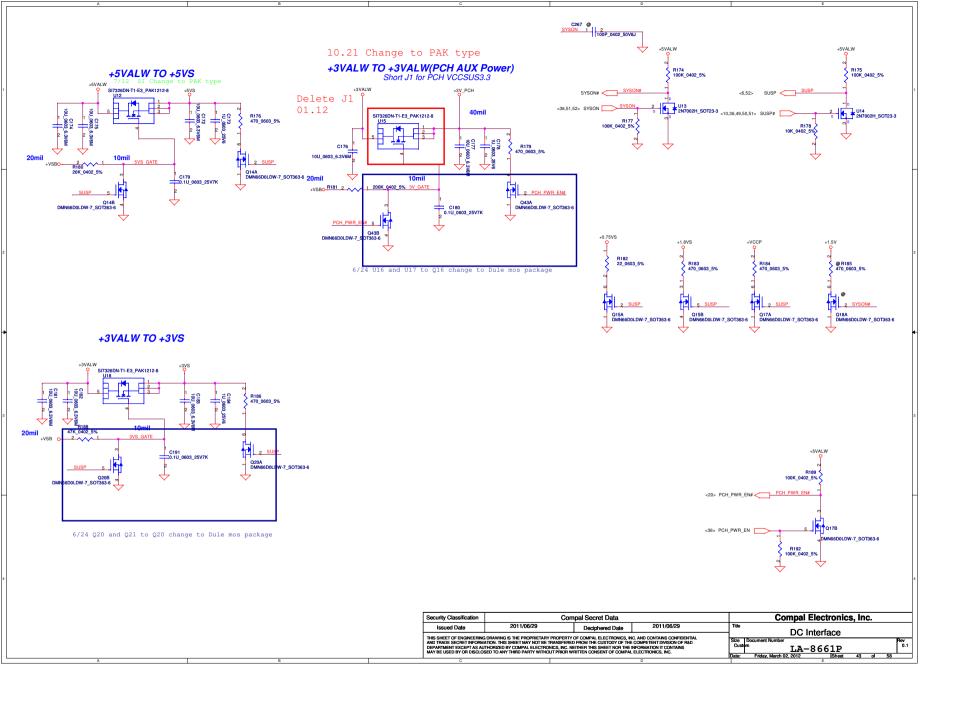






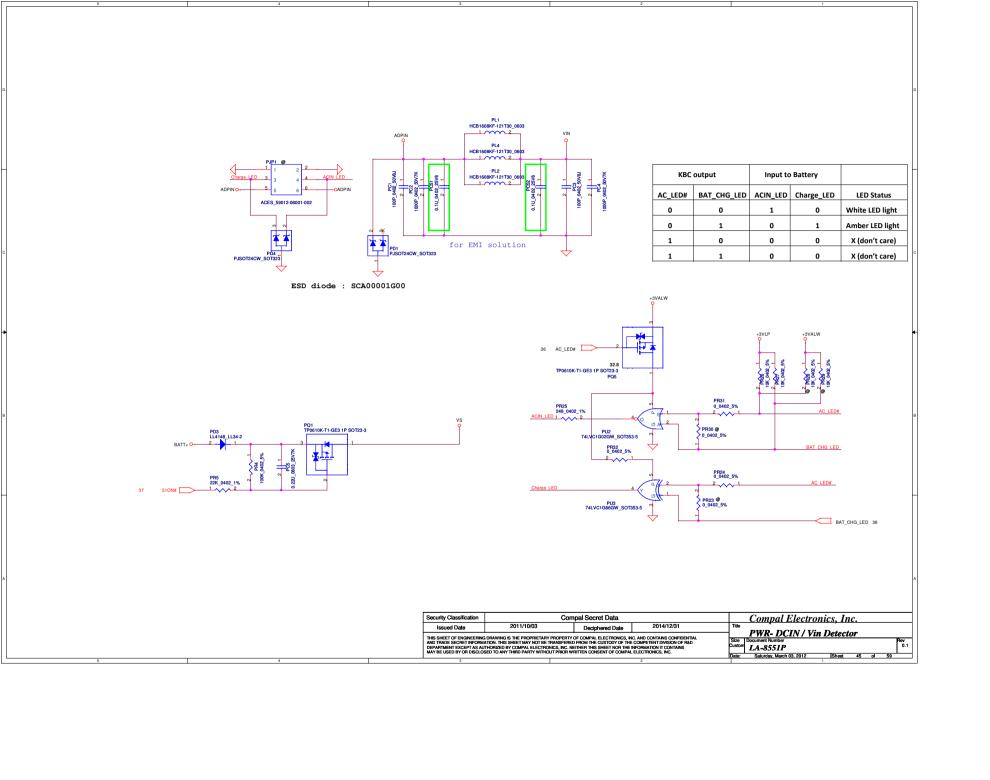


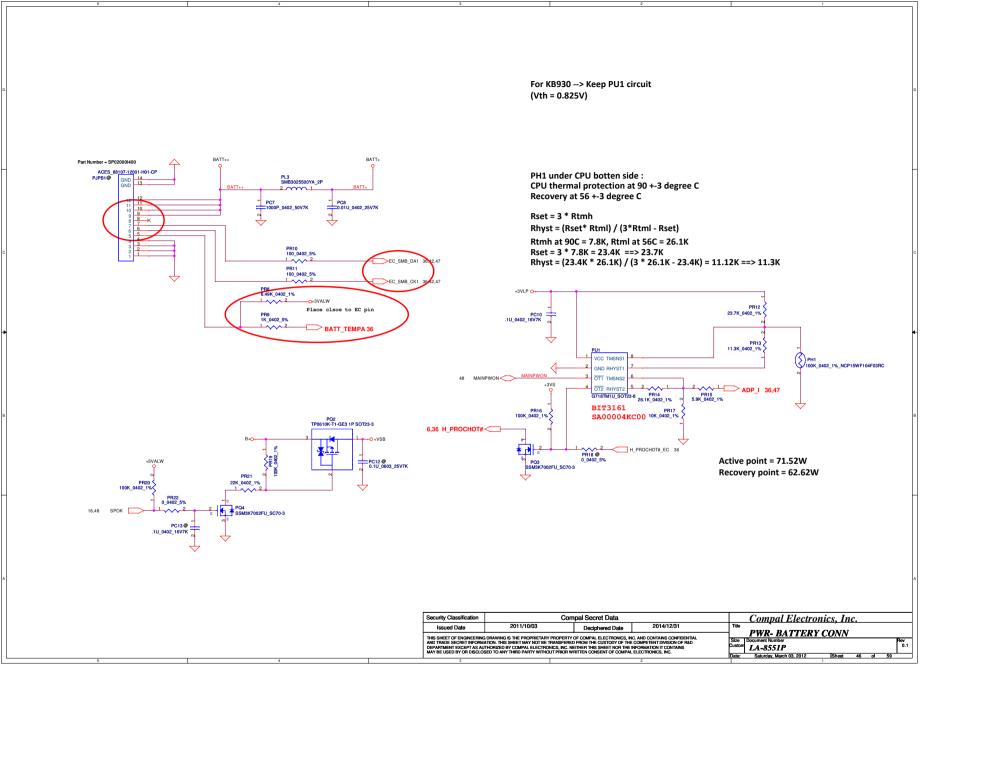


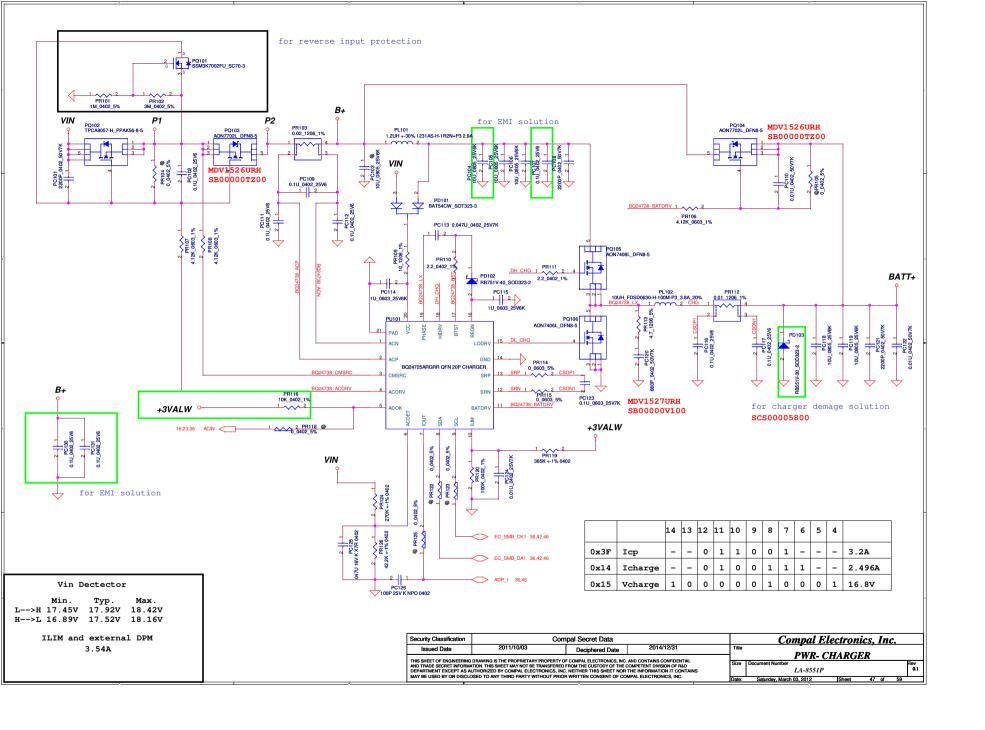


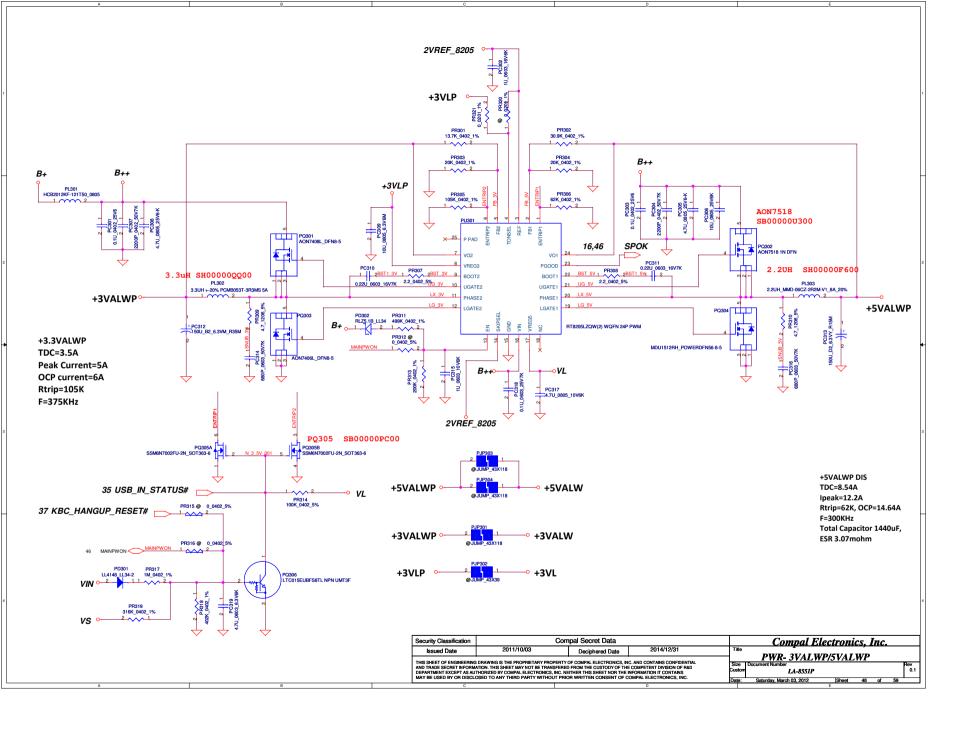
| _ | | 0 | 4 | 1 3 | 1 | | |
|---|-----|---|--------------------------|------------------|---|---|--|
| | | QAZ60 Strap pin Table | | @:un_install | | _ | |
| | | Netname | setting | BOM config | | - | |
| ı | | CFG2 | 1 | RC40 @ | 1: Normal Operation; Lane # definition matchessocket pin map definition 0: Lane Reversed | | |
| | | CFG4 | 1 | RC41 @ | 1 : Disabled; No Physical Display Portattached to Embedded Display Port 0 : Enabled; An external Display Port device is connected to the Embedded Display Port | | |
| | | CFG[6:5] | [6:5] 0 1 RC49 RC48 @ | | 11: (Default) x16 - Device 1 functions 1 and 2 disabled 10: x8, x8 - Device 1 function 1 enabled; function 2 disabled 01: Reserved - (Device 1 function 1 disabled; function 2 enabled) 00: x8,x4,x4 - Device 1 functions 1 and 2 enabled | | |
| ı | | CFG7 | 1 | RC50 @ | 1: (Default) PEG Train immediately following xxRESETB de assertion D: PEG Wait for BIOS for training | | |
| | | PCH_INTVRMEN H RH124 H Integrated VRM enable L Integrated VRM disable | | | | | |
| | | HDA_SPKR | L | RH139 @ | H:No Reboot L:Default | | |
| | | HDA_SYNC | н | RH149 | This signal has a weak internal pull-downOn Die PLL VR is supplied by H:1.5V when smapled high L:1.8V when sampled low Needs to be pulled High for Huron River platfrom | | |
| | | HDA_SDOUT | L | RH140 @ | ME debug mode , this signal has a weak internal PD L=>security measures defined in the Flash Descriptor will be in effect (default) H=>Flash Descriptor Security will be overridden | | |
| | РСН | DSWODVREN | н | RH213 RH215 @ | On Die DSW VR Enable H: Enable L: Disable | _ | |
| | | SLP_ME_CSW_DEV# | н | RH267 RH241 @ | On-Die PLL Voltage Regulator This signal has a weak internal pull up H: On-Die voltage regulator enable L: On-Die PLL Voltage Regulator disable | 1 | |
| | | РСН_БРІОЗ7 | L | RH245 @ RH246 | FDI TERMINATION VOLTAGE OVERRIDE L: Tx, Rx terminated to same voltage(DC Coupling Mode) | | |
| | | GPIO27 | н | RH250 @ | PCH_GPI027 (Have internal Pull-High) H: VCCVRM VR Enable L: VCCVRM VR Disable | | |
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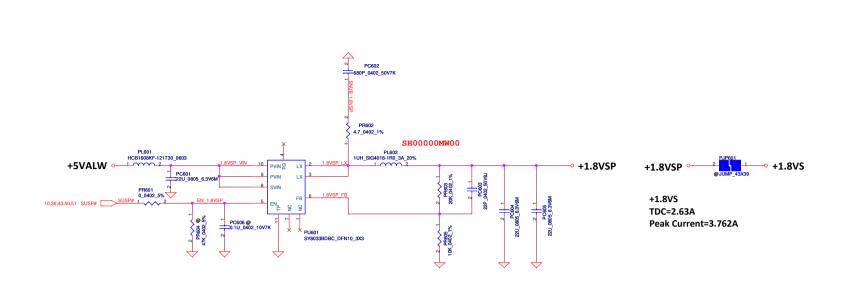
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| THIS SHEET OF ENGINEEDING | DRAWING IS THE PROPRIETARY PROPI | | Strap pin table | | | | | | |
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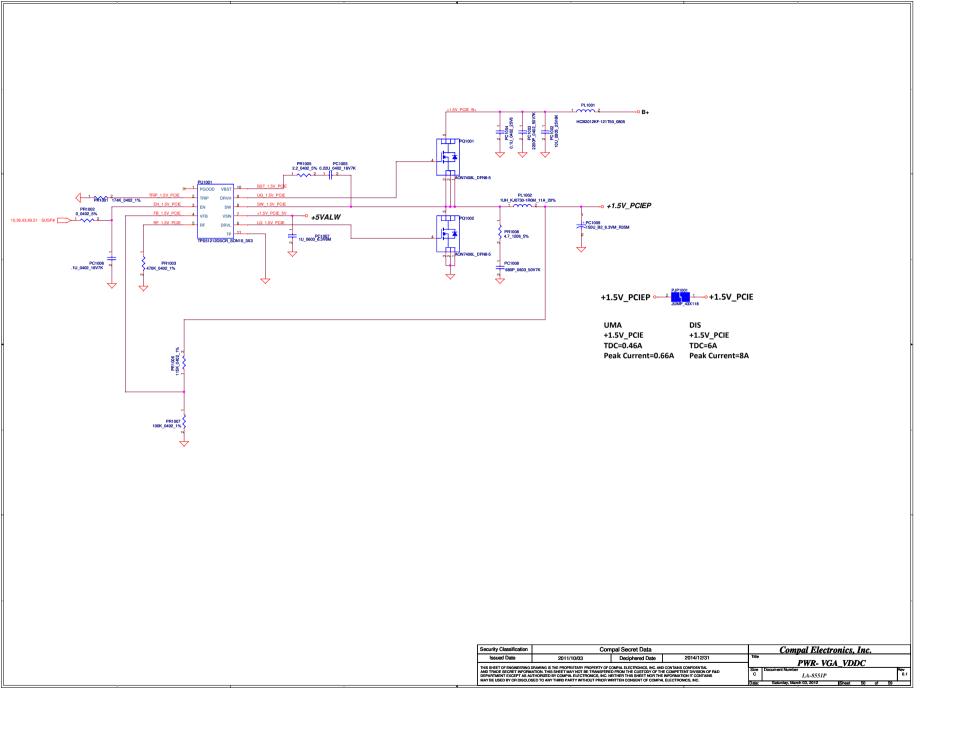


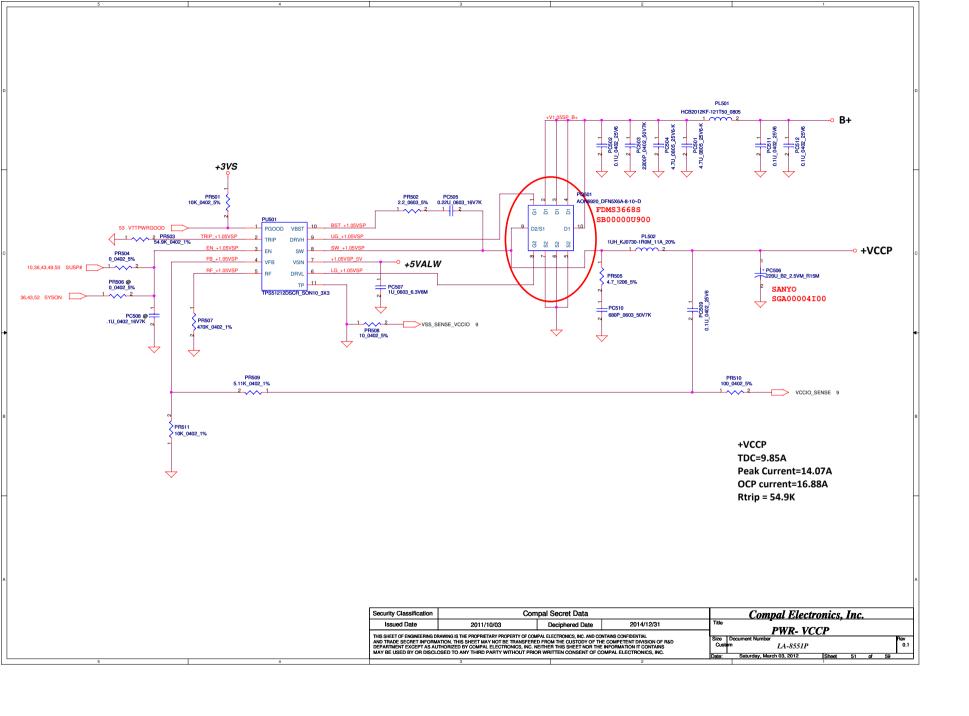


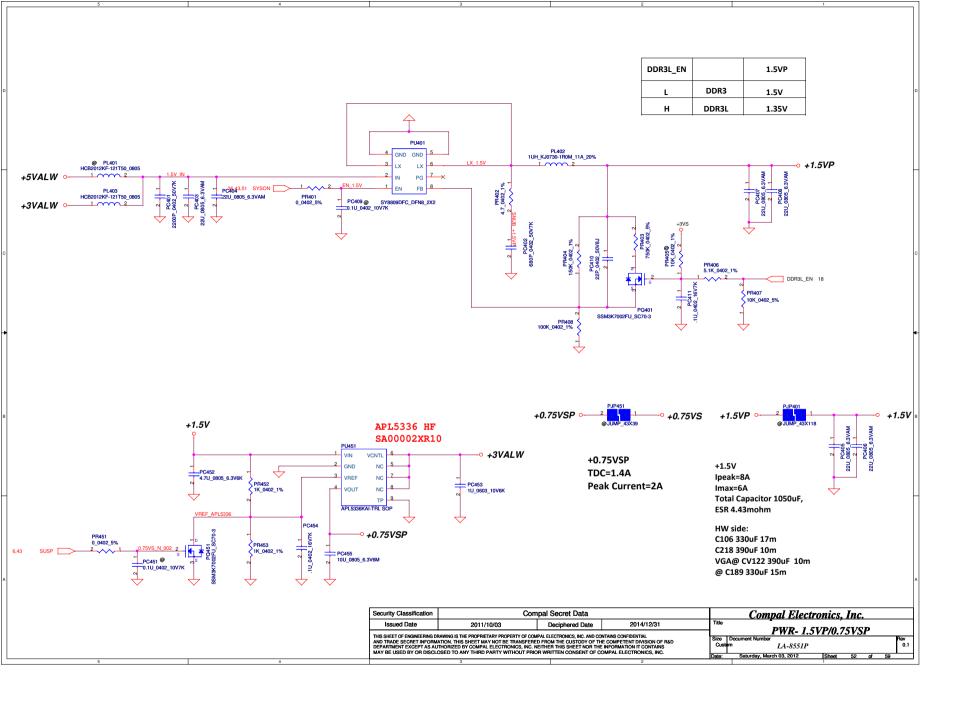


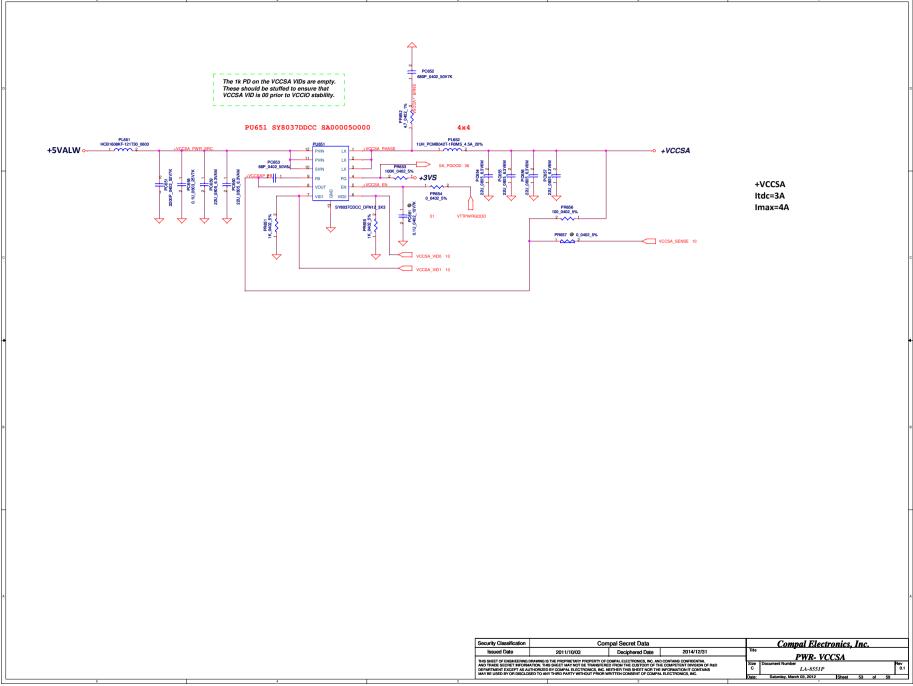


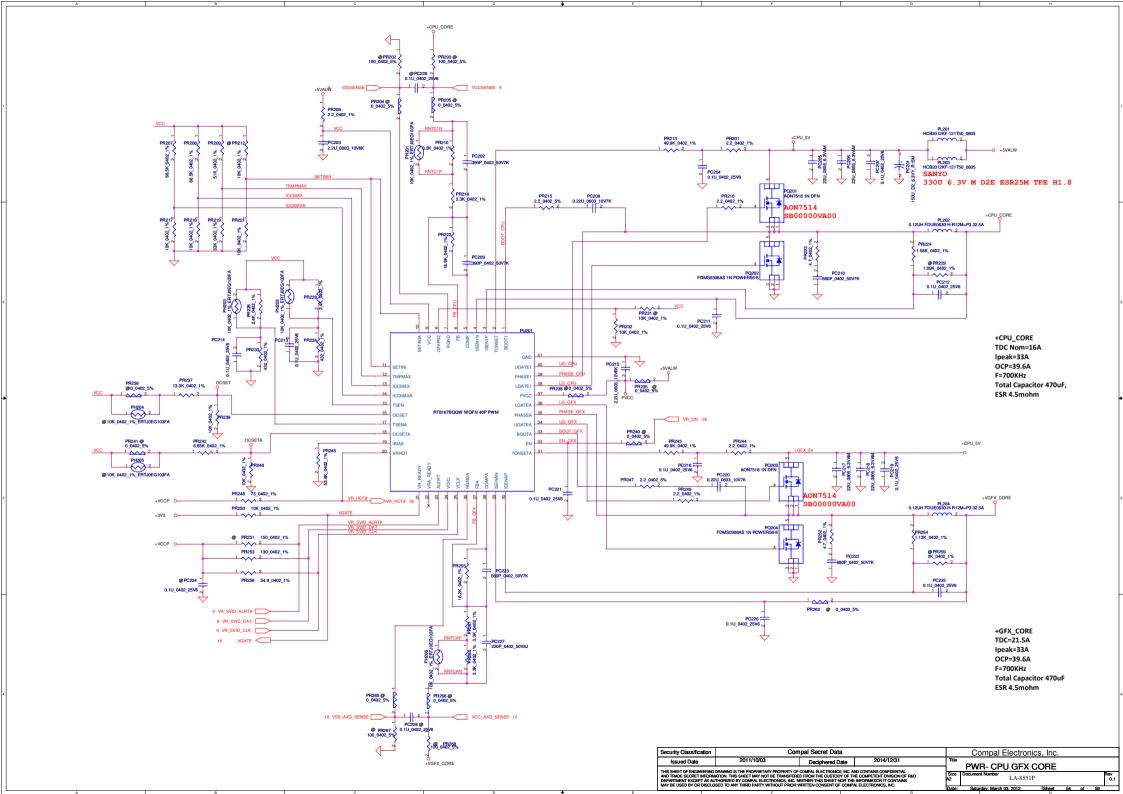
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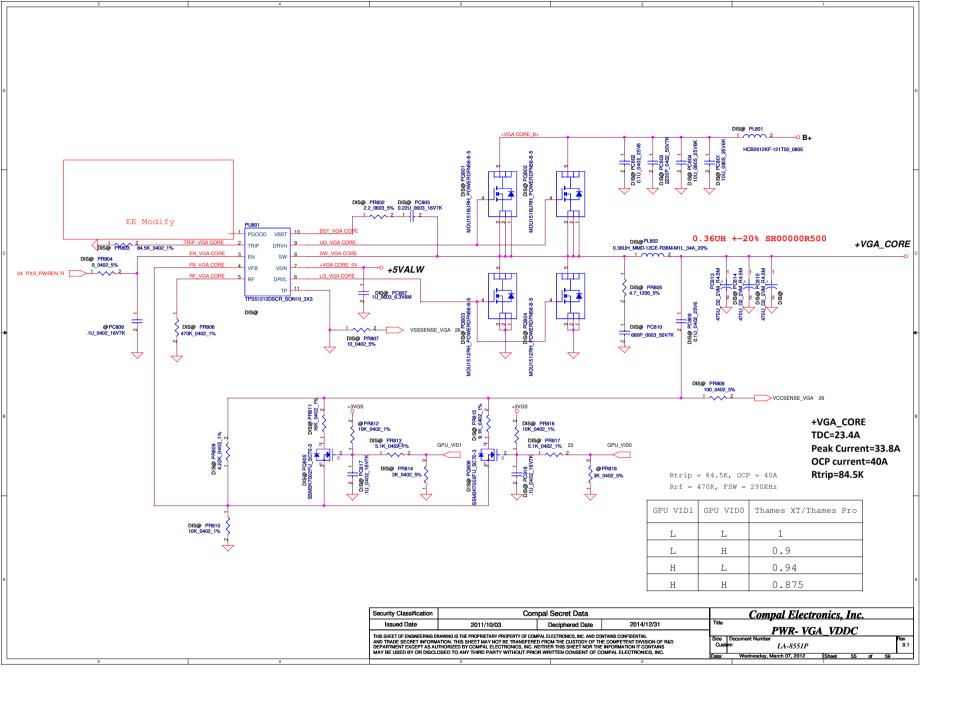


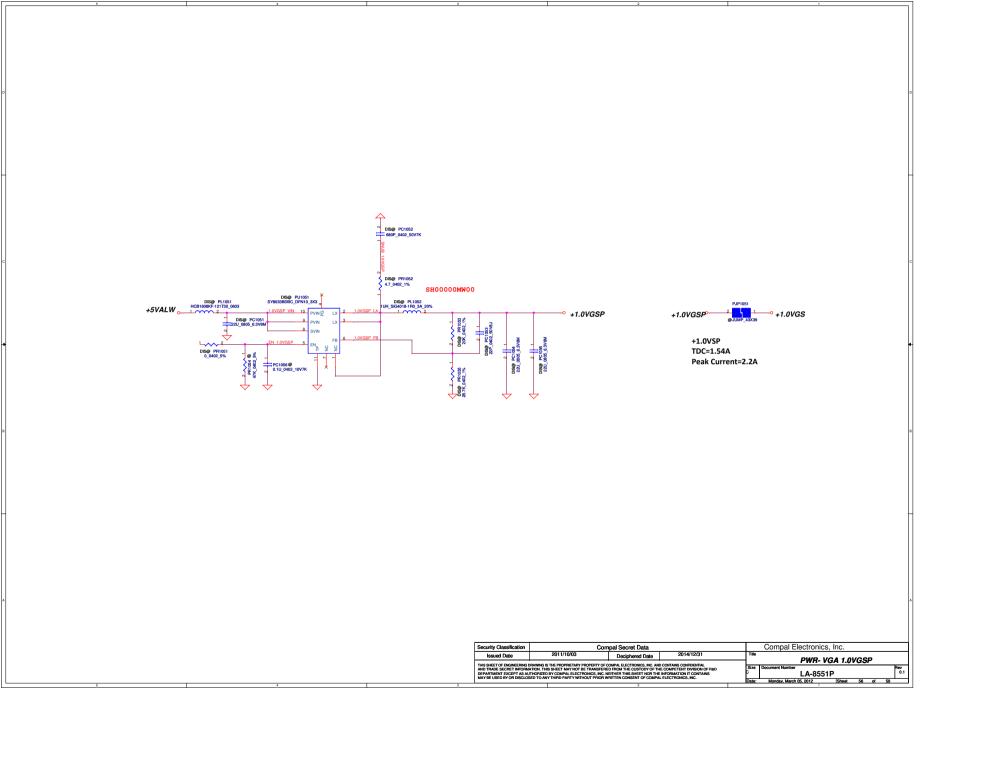


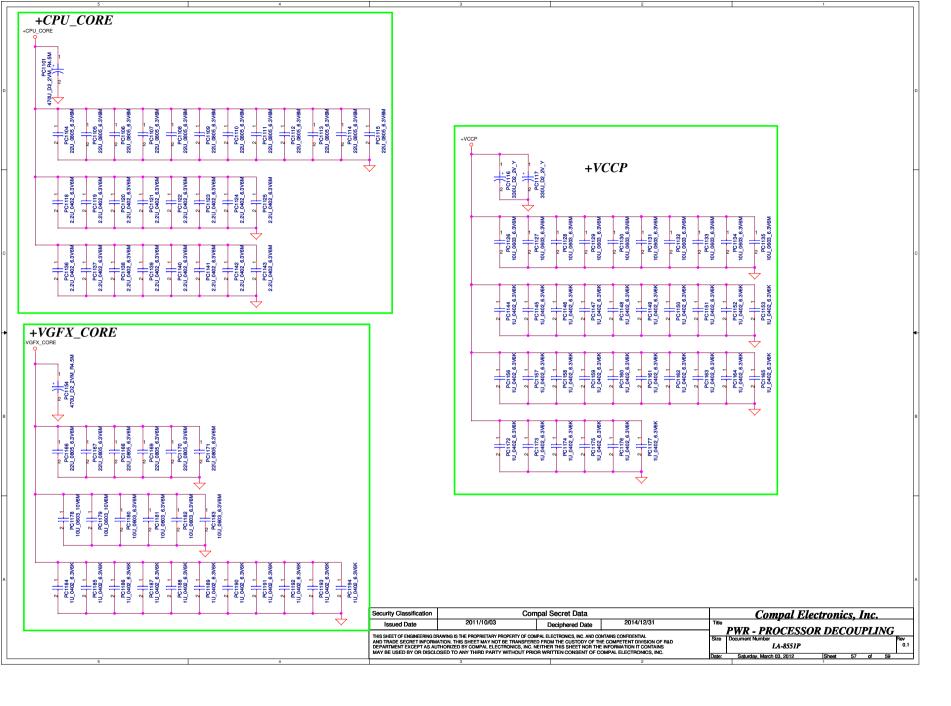


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| 1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 | Page # 47 47 47 47 47 47 47 47 47 47 50, 52 53 52 56 | change PC111 to 0402 remove PR121 change PR124 to 270K, PR126 to 42.2K change PR125 to 0.047uF change PR125 to 0.047uF change PR191 to 365K change PR111 to 0ohm add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AON7518 change PQ1001, FU401 from SY8036HDBC to SY8036L | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | Request Owner | Issue Description For layout space Oohm, not needed change Vin detector setting FAE review recommand modify charge Ilimit to 3.54A | Solution Description | Rev. |
|--|--|--|--|------------------|--|---|----------|
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | 47 47 47 47 47 47 47 46 46 46 46 47 50, 52 53 | remove PR121 change PR124 to 270K, PR126 to 42.2K change PR125 to 0.047uF change PR125 to 0.0hm, PC126 to 100pF change PR119 to 365K change PR111 to 0.0hm add FL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PG302 to AON7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | Oohm, not needed change Vin detector setting FAE review recommand modify charge Ilimit to 3.54A | | |
| 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 | 47 47 47 47 47 47 47 46 46 46 46 47 50, 52 53 | remove PR121 change PR124 to 270K, PR126 to 42.2K change PR125 to 0.047uF change PR125 to 0.0hm, PC126 to 100pF change PR119 to 365K change PR111 to 0.0hm add FL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PG302 to AON7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | Oohm, not needed change Vin detector setting FAE review recommand modify charge Ilimit to 3.54A | | |
| 3 4 4 5 5 6 6 7 8 8 9 9 110 111 112 113 114 115 116 117 | 47 47 47 47 47 47 46 46 46 46 47 50, 52 53 | change PR124 to 270K, PR126 to 42.2K change PR125 to 0.047uF change PR125 to 0.04m, PC126 to 100pF change PR119 to 365K change PR111 to 00hm add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AQN7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | change Vin detector setting FAE review recommand modify charge Ilimit to 3.54A | | |
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| 5 5 7 7 8 8 9 9 10 0 11 1 1 1 1 2 2 1 3 3 4 4 1 5 5 6 6 1.7 | 47 47 47 47 46 46 46 47 50, 52 53 | change PR125 to Oohm, PC126 to 100pF change PR119 to 365K change PR111 to Oohm add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AON7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | modify charge Ilimit to 3.54A | | |
| 0 0 0 1 1 2 3 4 4 5 6 | 47 47 47 46 46 46 47 50, 52 53 | change PR119 to 365K change PR111 to Oohm add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change P302 to AON7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | modify charge Ilimit to 3.54A | | |
| 0 1 2 3 4 5 6 | 47 46 46 46 47 50, 52 53 | change PR111 to Oohm add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AON7518 | 2011/11/28 2011/11/28 2011/11/28 2011/11/28 | | | | |
| 0 1 2 3 4 5 6 7 | 47 46 46 46 47 50, 52 53 | add PL101 delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AQN7518 | 2011/11/28 2011/11/28 2011/11/28 | | | | |
| .00 11 .22 .3 .4 .5 .6 .7 | 46 46 46 47 50, 52 53 52 | delete PD5, PD6 SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AQN7518 | 2011/11/28 2011/11/28 | | | | |
| 10 11 12 13 14 15 16 | 46 46 47 50, 52 53 52 | SMC, SMD exchange delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AON7518 | 2011/11/28 | | | | |
| 111 112 113 114 115 116 117 | 46 47 50, 52 53 | delete pin8 and pin5, add battery temp sense at pin5. change PQ302 to AON7518 | | | imbedded battery, ESD diode is not needed | | |
| 12 13 14 15 16 | 47 50, 52 53 52 | add battery temp sense at pin5. change PQ302 to AON7518 | 2011/11/28 | | | | |
| 13 14 15 16 17 | 50, 52 53 52 | | | | EC request to need one detect pin if SMB communication fail. | | |
| 14 15 16 17 | 53 52 | | 2011/11/28 | | | | |
| 15 16 17 | 52 | | | | | | |
| 16 17 | | change PU651 from SY8037DCC to SY8037ADCC | 2011/11/28 | | | | |
| 17 | | add PQ401, PR406, PR407, PC411 | 2011/11/28 | | | | |
| | | change PR1055 to 28.7K | 2011/11/28 | | for correct 1.0V voltage | | |
| | 54 | change PL202, PL204 to SH00000PP00, 0.12uH | 2011/11/28 | | | | |
| 18 | 54 | change PU201 to RT8167, SA00005AU00 | 2011/11/28 | | | | |
| 19 | 54 | change PQ201, PQ203 to AON7518, SB00000U300 | 2011/11/28 | | | | |
| 20 | 54 | change PQ202, PQ204 to FDMS0308AS, SB00000U400 | 2011/11/28 | | | | |
| 21 | 55 52 | change PL802 to 0.36uH, SH00000HD00 | 2011/11/28 2011/11/29 | | | | |
| 23 | | change PU401 to SY8809DFC change PD2, PD301 DIO CD4148WN-1 1206 | 2011/11/29 | | | | |
| 24 | 45, 48 51 | add PC511, PC512 | 2011/11/29 | | For cost and layout space | | |
| 25 | 54 | change PL201 to 0805, and add PL203 | 2011/12/11 | | | | |
| 26 | 48 | add PR320 | 2011/12/11 | | tune frequency | | |
| 27 | 55 | change PC813, PC814, PC815, PC816 tp 330uF 9m | 2011/12/11 | | tune frequency | | |
| 28 | 47 | change PQ101 to SB000009610 | 2011/12/11 | | | | |
| 29 | 54 | change PR210, PR214, PR261, PR264 to 3.3K; PR222 to 15.8K; PR255 to 10.5K; PC202, PC209 to 270p; PC223 to 220p; PC227 to 560p; PR224, PR254 to 1.82K; PR207 to 127K | 2011/12/11 | | Fine tune CPU, GFX transient | | |
| 30 | 47, 54 | change PR111, PR110, PR216, PR249 to 2.2 ohm | 2011/12/12 | | For EMI solution | | |
| 31 | 53, 56 | change PL602, PL1052 to SH00000MW00 | 2011/12/12 | | For crack issue | | |
| 32 | 55 | change PL802 to SH00000HQ00 | 2011/12/12 | | For thermal solution | | |
| 33 | 48 | change PL303 to SH000000N00 | 2011/12/12 | | For thermal solution | | |
| 34 | 47 | change PR114, PR115 to 0 ohm | 2011/12/14 | | Prevent charger damaged by negative output voltage | | |
| 35 | 54 | change PR207 to 66.5K | 2011/12/14 | | For GFX GT2 current limit | | |
| 36 | 54 | change PR237 to 23.7K +-1% 0402 | 2011/12/23 | | | | |
| 37 | 54 | change PR241 to 1/16W 0 +-5% 0402 | 2011/12/23 | | | | |
| 38 | 54 | change PR242 to 23.7K +-1% 0402 | 2011/12/23 | | | | |
| 39 | 47 | change PQ103, PQ104 to SB00000TZ00 | 2011/12/23 | | | | |
| 40 | 47, 48 | change PQ106, PQ303 to SB00000H700 | 2011/12/23 | | | | |
| 41 | 54 | change PR210,PR261,PR264 to 3.3K +-1% 0402 | 2011/12/23 | | | | |
| 42 | 53 | change PL651 to SY8037CDCC | 2012/1/11 | | For latch mode | | |
| 43 | 57 | change PC1180, PC1181, PC1182, PC1183 to SE000005T80 | 2012/1/11 | | For height limit | | |
| 44 | 46 | Delete PC11 | 2012/1/12 | | For ME request | | |
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| | Version Change List (P. I. R. List) Page 2 | | | | | | | | | | | | |
|----------|---|---|-----------|------------------|--|---|--|----------|--|--|--|--|--|
| Item_ | Page# | Title | Date | Request Owner | Issue Description | Solution I | Description | Rev. | | | | | |
| D | | | | | | | | • | | | | | |
| 45 | 47 | change PR114 to 10, PR115 to 6.8ohm, add PD103 | 2012/1/30 | + | For Charger issue | | | | | | | | |
| 46 | 47 | Add PC130, PC131, PC104, PC107 | 2012/1/30 | | For EMI solution | | | | | | | | |
| 47 | 48 | Add PR321 | 2012/1/30 | | Choose working frequency to improve efficiency and the | ermal | | | | | | | |
| 48 | 50 | change 1.5VPCIE Circuit | 2012/1/30 | | Change input voltage form 5V to 19V to slove thermal i | issue | | | | | | | |
| 49 | 52 | Add PL403 | 2012/1/30 | | Choose input voltage to slove thermal issue | | | | | | | | |
| 50 | 54 | Change PR224 to1.58Kohm, PC209 to 220PF, PC202 to 390PF, PR222 to 16.9Kohm, PR237 to 21.5K | 2012/1/30 | | Base on SI layout, FAE review recommand value | | | | | | | | |
| 51 | 48 | change PL303 to SH00000F600 | 2012/1/30 | | For thermal issue | | | | | | | | |
| 52 | 45 | Delete PD2, PR2, PR3, PC6 | 2012/1/30 | | For Layout space | | | | | | | | |
| 53 | 47, 48, 54 | Change PQ302, PQ201, PQ203 to AON7514 | 2012/1/30 | | For efficiency | | | | | | | | |
| 54 | 51 | Delete PJP501 | 2012/1/30 | | For Layout space | | | | | | | | |
| 55 | 55 | Change PC813, PC814, PC815 to 470uF, delete PC8 Change PL802 0.36uF to 13*13*3.5 size | | | For thermal issue | | | | | | | | |
| c 56 | 55 | Add PC820, PC821, PC822 | 2012/1/30 | | For VGA transient voltage | | | | | | | | |
| 57 | 57 47 | Change PC1180, PC1181, PC1182, PC1183 to SE000005T80 change PQ102 to TPCA8057 | 2012/1/30 | | For ME request | | | | | | | | |
| 59 | 54 | change PC223 to 560pF, PC227 to 220pF | 2012/2/17 | | For FAE suggesstion | | | | | | | | |
| 60 | 48 | change PQ302 to AON7518 | 2012/2/17 | | For efficiency | | | | | | | | |
| 61 | 55 | change PL802 to 13*13*3 size | 2012/2/17 | | For thermal solution | | | | | | | | |
| 62 63 | 47 54 | change PR114, PR115 to 0 ohm, PD103 to SCS00005800 change PC201 to 330uF | 2012/2/17 | | For HP and soucer request For acoustic solution | | | | | | | | |
| 0.5 | 34 | change rozor to sour | 2012/2/17 | | FOI ACOUSTIC SOLUTION | | | | | | | | |
| 64 | 45 | change LED circuit | 2012/2/23 | | | | | | | | | | |
| 65 | 48 | change PL303 to 3.3uH $10*10*3H$, PC313 to 150U_B2_6.3VM_R35M, remove 5V output jumper | 2012/2/23 | | For thermal solution | | | | | | | | |
| 66 | 53 | change PU651 to SY8037DDCC | 2012/2/23 | | For ULV CPU and latch mode | | | | | | | | |
| 67 | 55 | change PR812 and PR816 power to +3VGS | 2012/2/23 | | For leakage issue | | | | | | | | |
| 68 | 45 | change LED circuit | 2012/2/29 | | | | | | | | | | |
| в 69 | 54 | change PC209 to 390pF, PR237 to 13.3Kohm, PR254 to 1.13Kohm, PR255 to 16.2Kohm, PR242 to 6.65Kohm | 2012/2/29 | | Base on PV layout | | | | | | | | |
| 70 | 45 | change PL1, PL2 to 0603 size, add PL4 | 2012/2/29 | | EMI request | | | | | | | | |
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