

COMPAL CONFIDENTIAL

MODEL NAME : *NIM00*  
PCB NO : *LA5461P(DA60000DD10) DAZ09L00100*  
BOM P/N : *46174031L01*

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Argos M/B  
Schematics Document

2009-06-24

REV:1.0

@X7618431L01 Parade HDMI LS  
@X7618431L02 ST HDMI LS

PCB1  
JBL00  
LS-3807P REV0  
Sniffer/B  
PCB 042 LA-5461P REV0.2 B

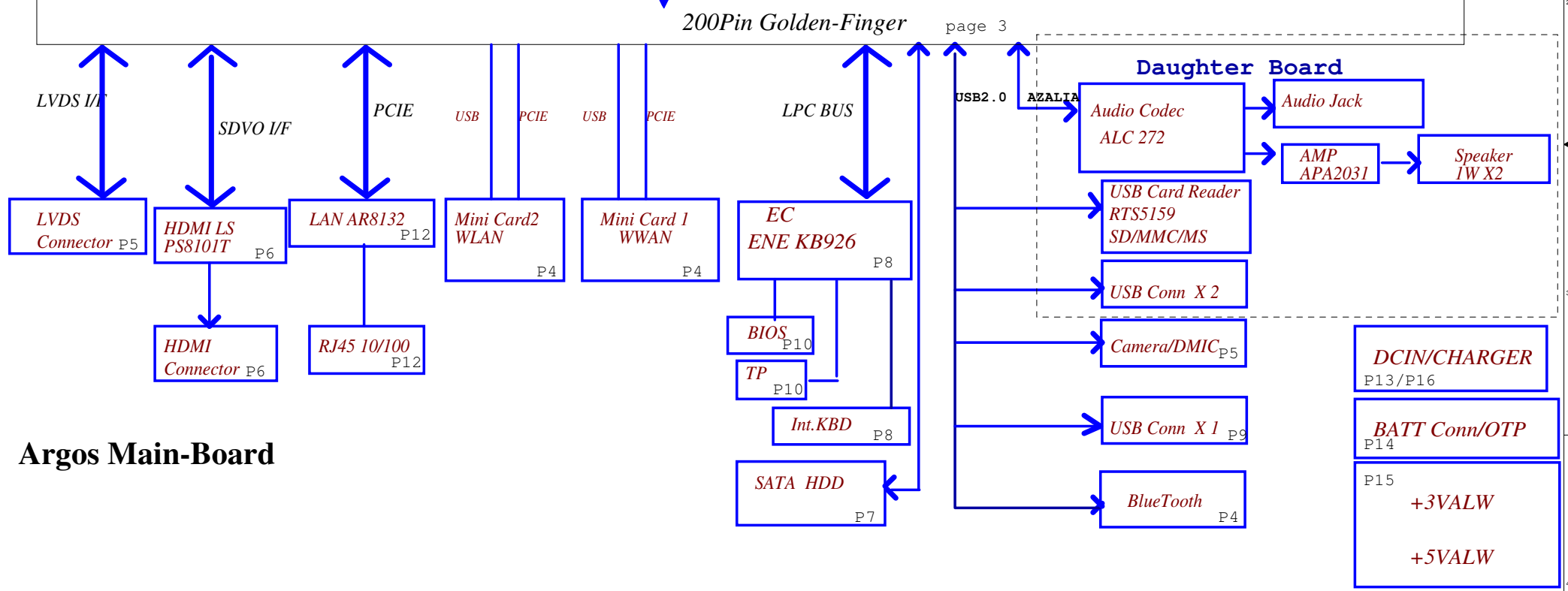
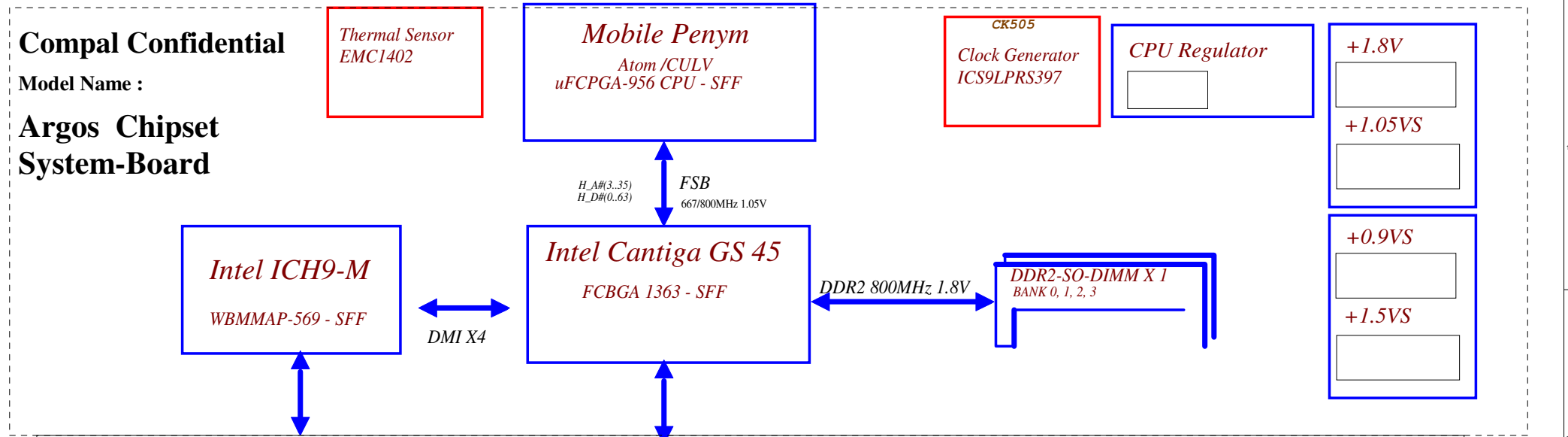
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Model Name :

## Argos Chipset System-Board



## Argos Main-Board

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| Block Diagram                 |                          |               |
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Voltage Rails    O MEANS ON    X MEANS OFF

| power plane<br>State           | +B | +5VALW<br>+3VALW | +5VS<br>+3VS<br>+1.8VS<br>+1.5VS |
|--------------------------------|----|------------------|----------------------------------|
| S0                             | O  | O                | O                                |
| S1                             | O  | O                | O                                |
| S3                             | O  | O                | X                                |
| S5 S4/AC                       | O  | O                | X                                |
| S5 S4/ Battery only            | O  | X                | X                                |
| S5 S4/AC & Battery don't exist | X  | X                | X                                |

| USB Port | Device      |
|----------|-------------|
| 0        | USB Right 1 |
| 1        | USB Right 2 |
| 2        | USB Left    |
| 3        | NC          |
| 4        | WLAN        |
| 5        | WWAN        |
| 6        | Bluetooth   |
| 7        | Camera      |
| 8        | Cardreader  |
| 9        | NC          |
| 10       | NC          |
| 11       | NC          |

| SATA Port | Device |
|-----------|--------|
| 0         | HDD    |
|           |        |
|           |        |
|           |        |

| PCIE Port | Device |
|-----------|--------|
| 1         | LAN    |
| 2         | JWLAN1 |
| 3         |        |
| 4         | JWWAN1 |
| 5         |        |
| 6         |        |

I2C / SMBUS ADDRESSING

| DEVICE                 | HEX | ADDRESS  |
|------------------------|-----|----------|
| DDR SO-DIMM 0          | A0  | 10100000 |
| CLOCK GENERATOR (EXT.) | D2  | 11010010 |

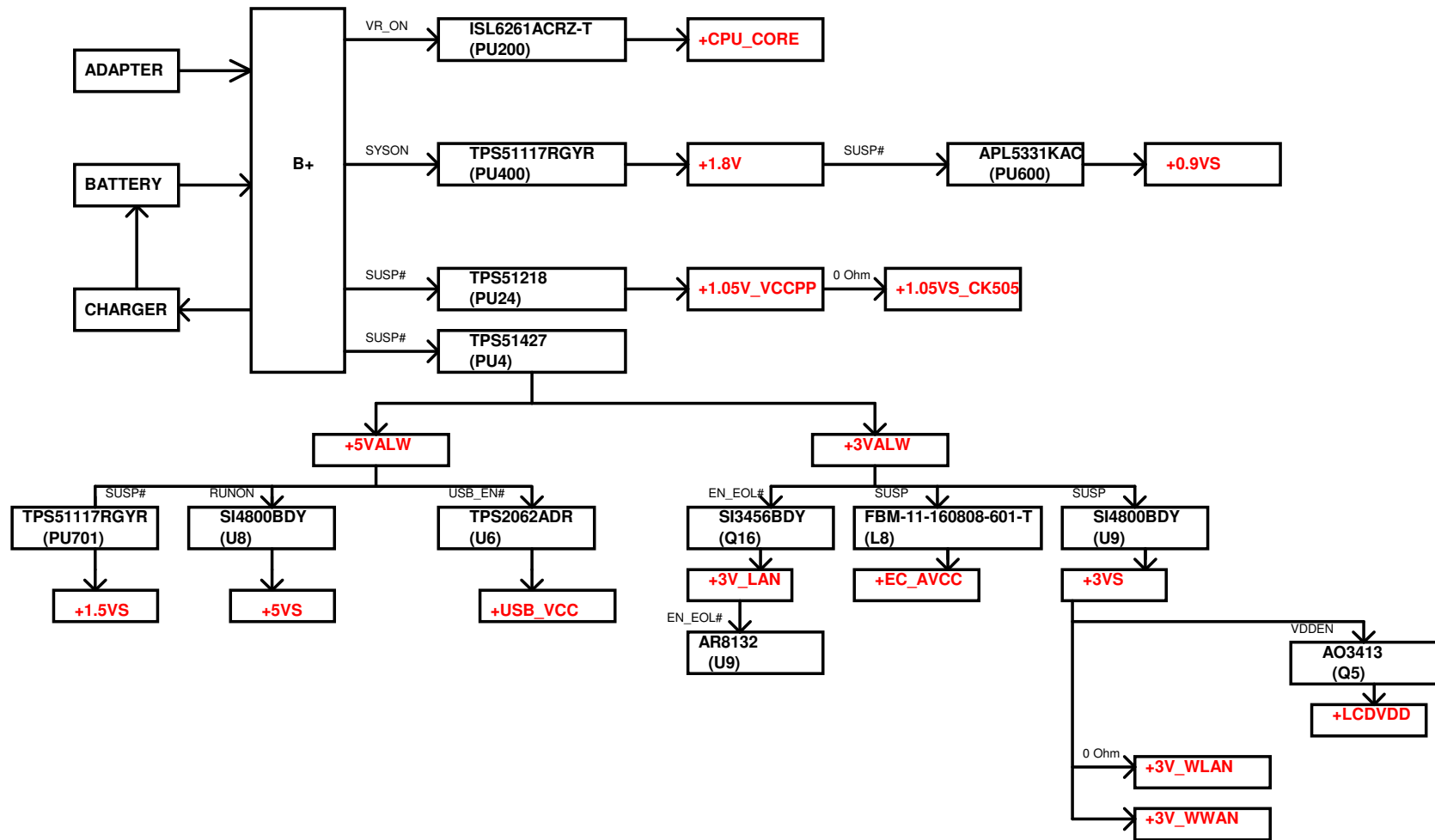
SMBUS Control Table

|                            | SOURCE  | INVERTER | BATT | SERIAL EEPROM | THERMAL SENSOR (CPU) | SODIMM | CLK CHIP | MINI CARD | LCD |
|----------------------------|---------|----------|------|---------------|----------------------|--------|----------|-----------|-----|
| SMB_EC_CK1<br>SMB_EC_DA1   | KB926   | X        | V    | X             | X                    | X      | X        | X         | X   |
| SMB_EC_CK2<br>SMB_EC_DA2   | KB926   | X        | X    | X             | V                    | X      | X        | X         | X   |
| SMB_CK_CLK1<br>SMB_CK_DAT1 | ICH9    | X        | X    | X             | X                    | V      | V        | V         | X   |
| LCD_CLK<br>LCD_DAT         | Cantiga | X        | X    | X             | X                    | X      | X        | X         | V   |

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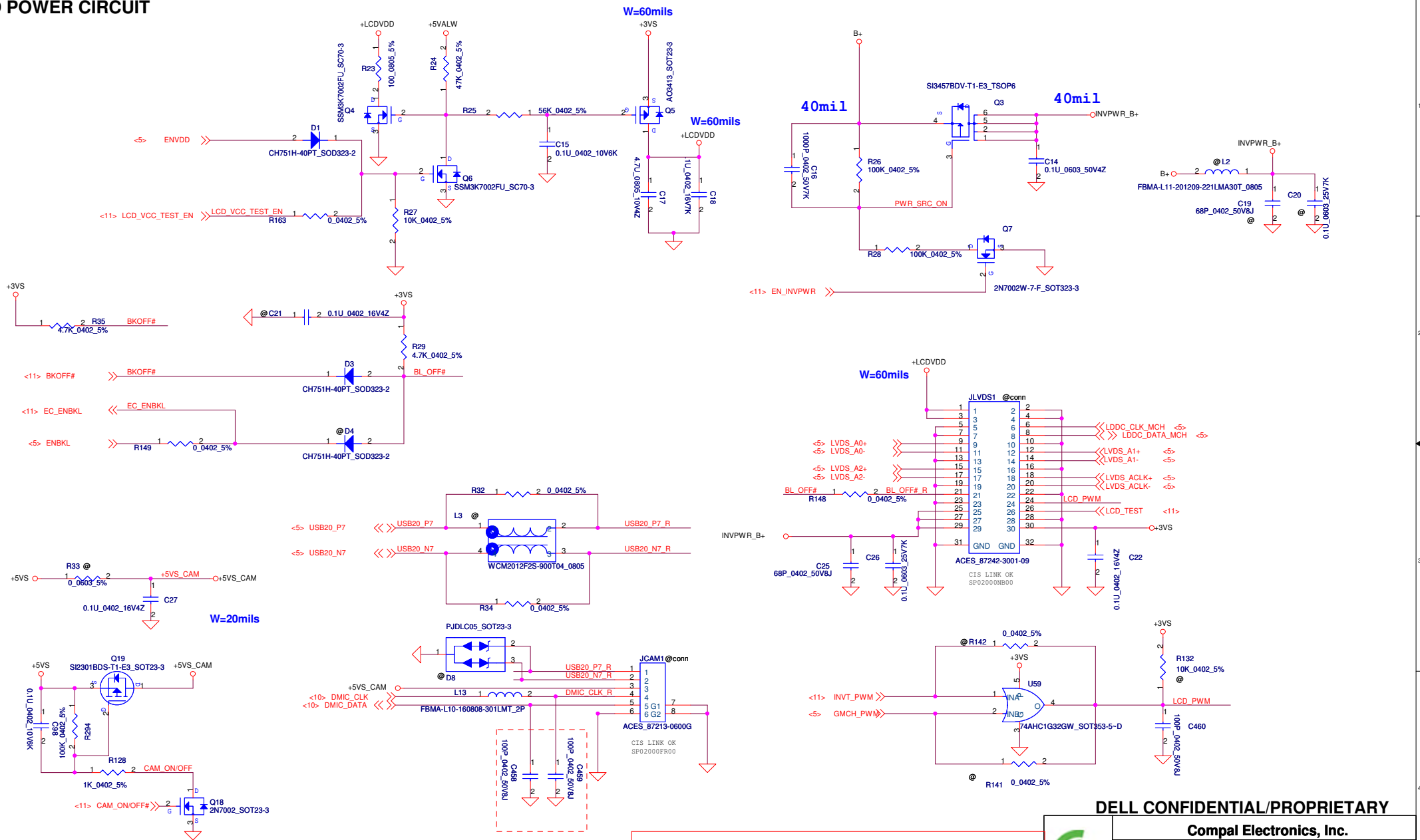
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|--------------------------------|-----------------|---------------|-----|
| Title                          |                 | Power Rail    |     |
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LCD POWER CIRCUIT

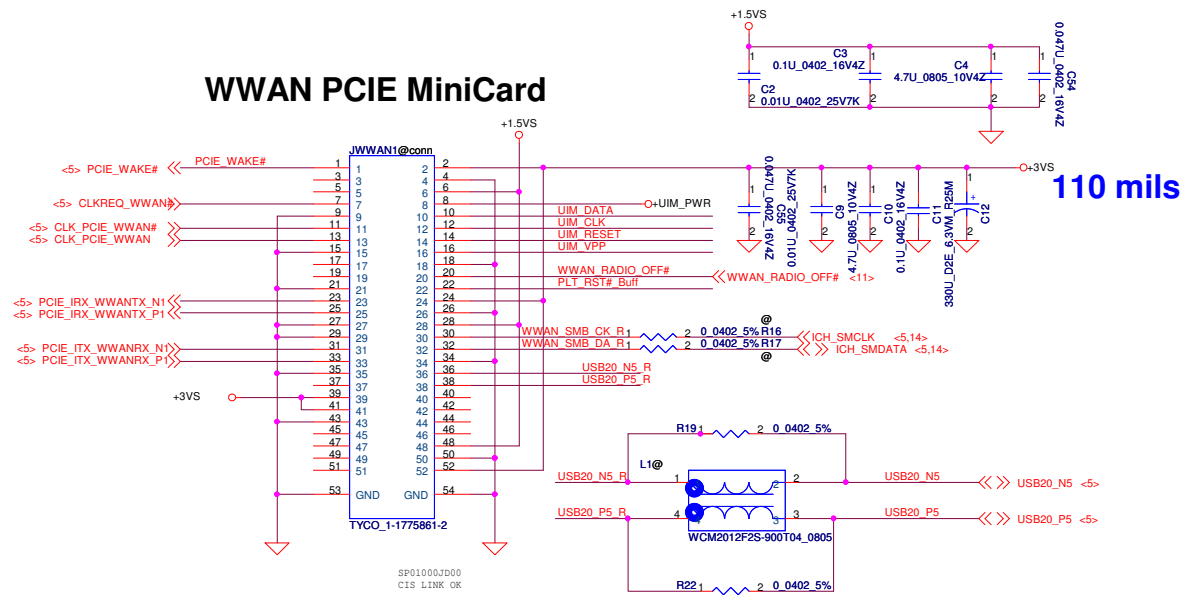


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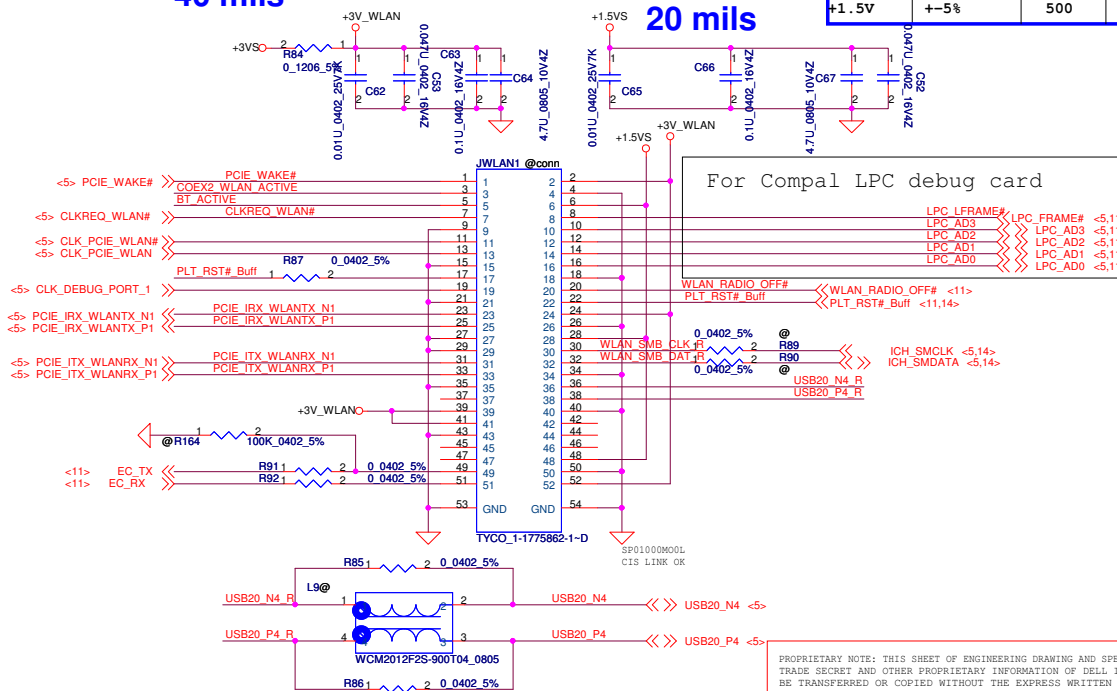
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| LVDS                          |                          |       |         |
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## WWAN PCIE MiniCard

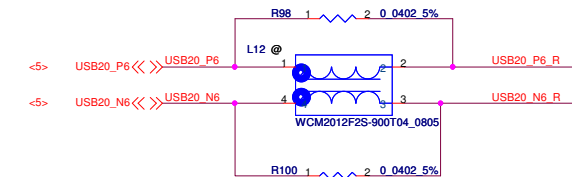
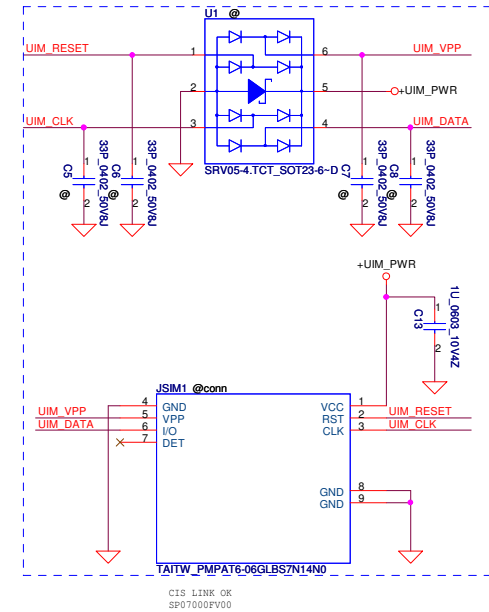


| PWR Rail | Voltage Tolerance | Primary Power |        | Aux Power                                |
|----------|-------------------|---------------|--------|------------------------------------------|
|          |                   | Peak          | Normal | Normal                                   |
| +3.3V    | +−9%              | 1000          | 750    |                                          |
| +3.3Vaux | +−9%              | 330           | 250    | 250 (Wake enable)<br>5 (Not wake enable) |
| +1.5V    | +−5%              | 500           | 375    | NA                                       |

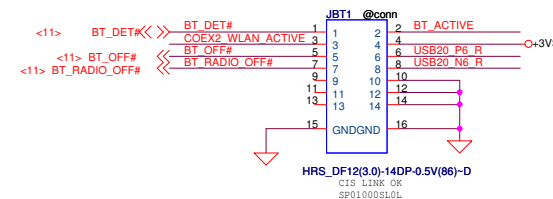
**40 mils** **WLAN/WIMAX PCIE Mini Card** **20 mils**



## SIM Card



## Bluetooth



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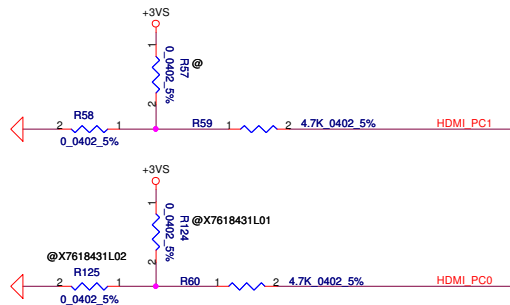
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|              |                          |       |         |
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| WLAN/WWAN/BT |                          |       |         |
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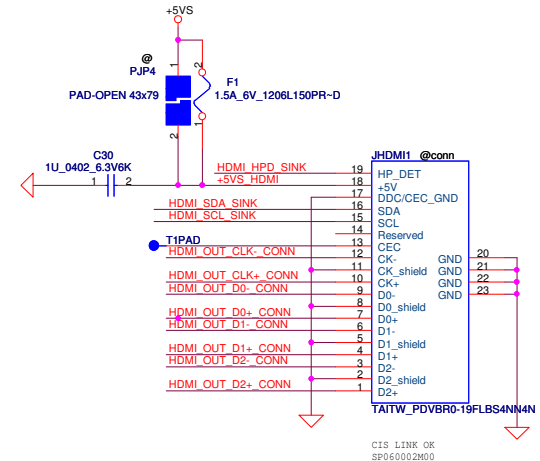
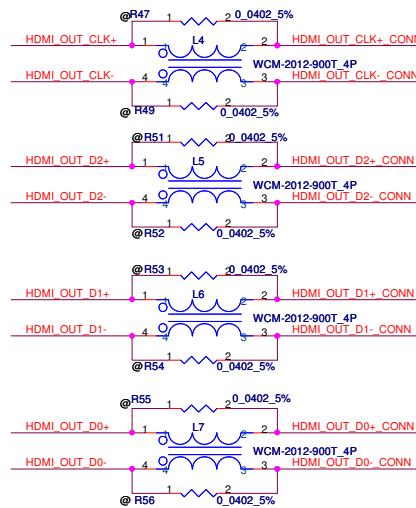
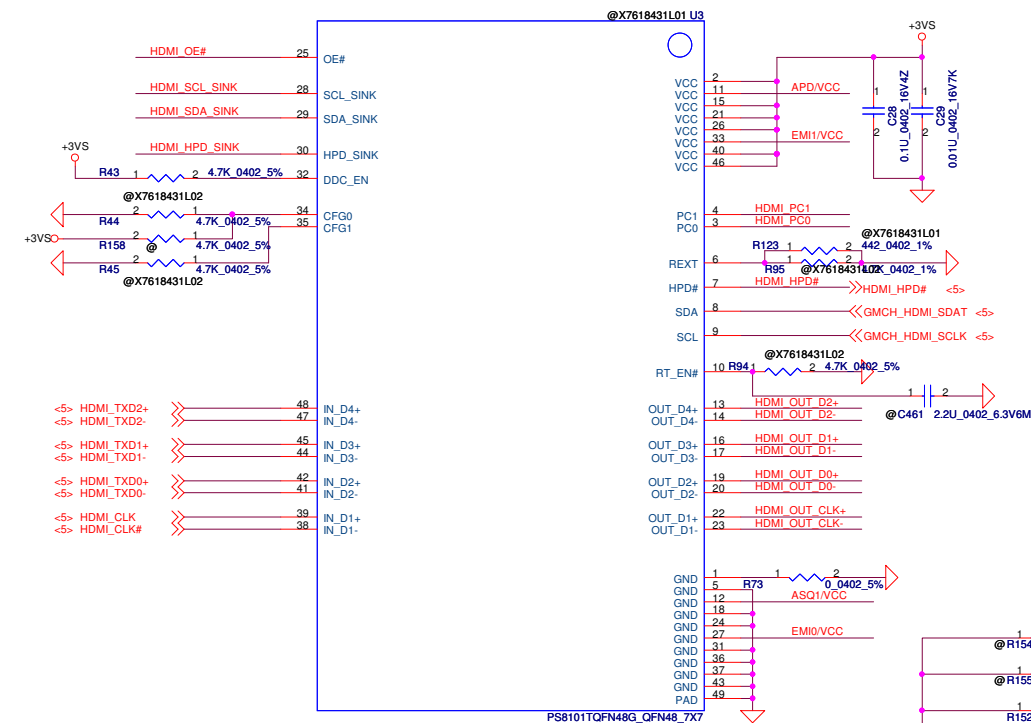
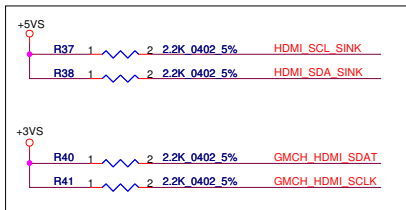
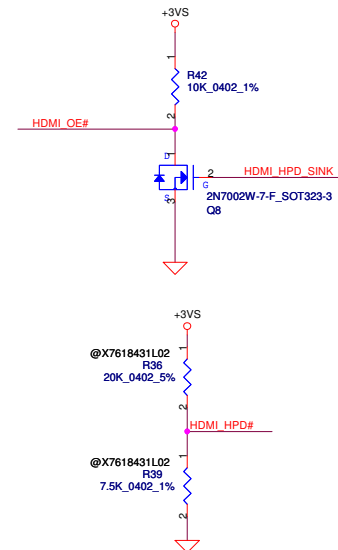
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| U3 Select Component |                            |                        |      |                    |      |   |
|---------------------|----------------------------|------------------------|------|--------------------|------|---|
|                     | Parade(1st)<br>SA00002D700 | ST(2nd)<br>SA00002C610 |      | Parade(3th) PS8171 |      |   |
| R57                 | X                          | X                      | R73  | 4.7K ohm           | R152 | X |
| R124                | V                          | X                      | R57  | V                  | R153 | X |
| R125                | X                          | V                      | R58  | X                  | R154 | V |
| R36                 | X                          | V                      | R125 | V                  | R155 | V |
| R39                 | X                          | V                      | R124 | X                  | R156 | V |
| R44                 | X                          | V                      | R158 | V                  | R157 | V |
| R45                 | X                          | V                      | C461 | V                  |      |   |
| R123                | 442 ohm                    | X                      | R94  | X                  |      |   |
| R95                 | X                          | 4.7K ohm               | R150 | X                  |      |   |
| R94                 | X                          | V                      | R151 | X                  |      |   |

Recommended Equalization: [PC1,PC0]=01, 4dB



Vendor's suggestion for power saving.



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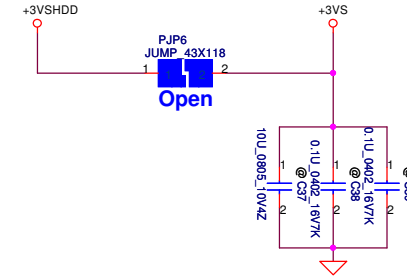
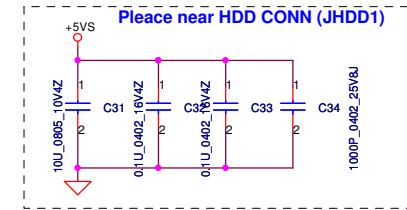
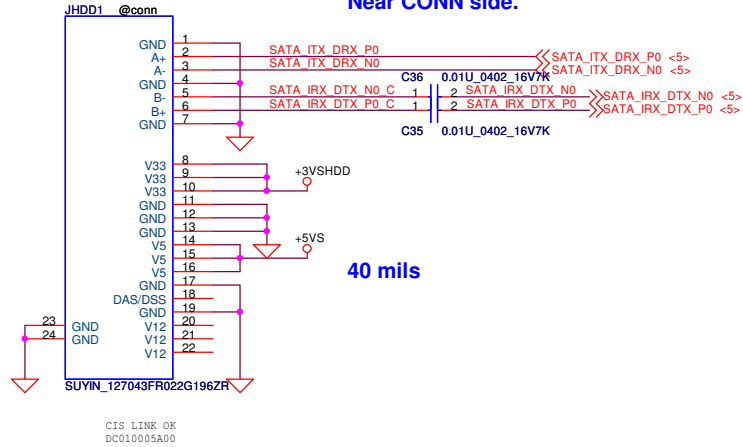
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| HDMI  |                          |       |         |
|-------|--------------------------|-------|---------|
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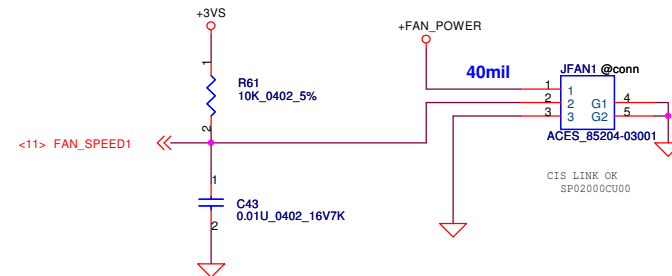
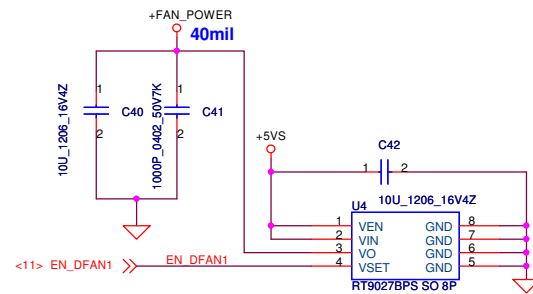


## HDD Connector

Near CONN side.



## FAN Control circuit



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FAN/HDD

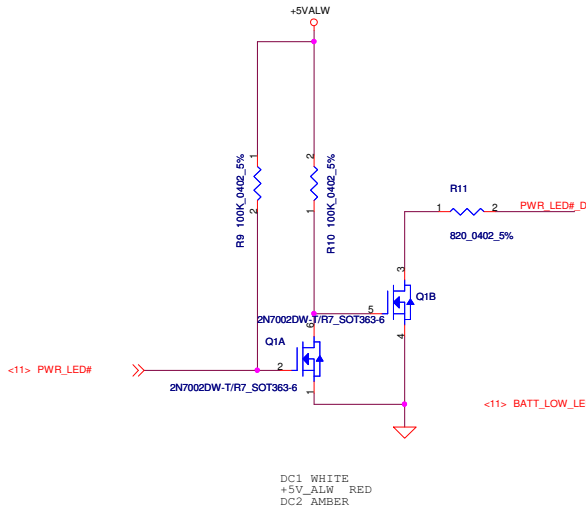
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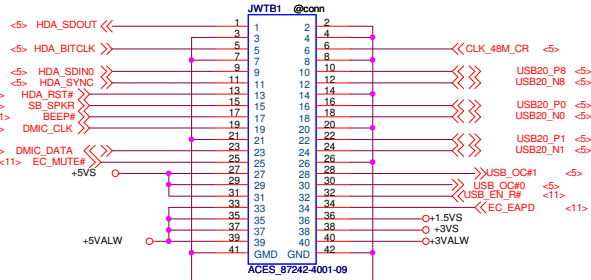
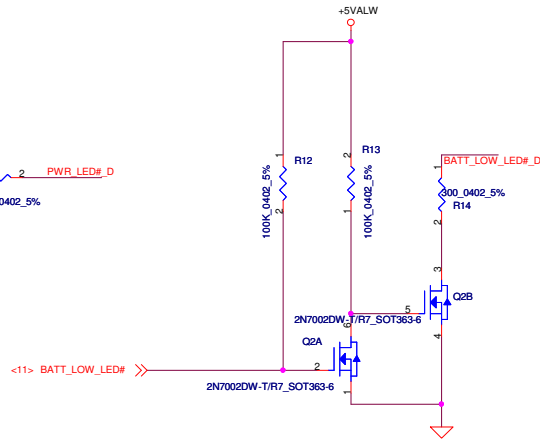
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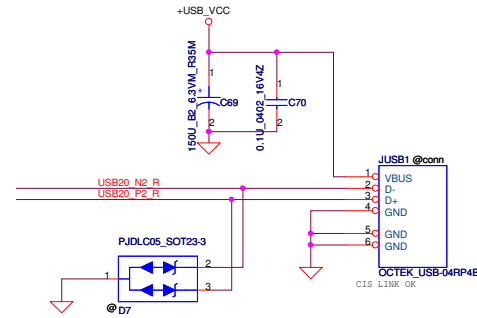
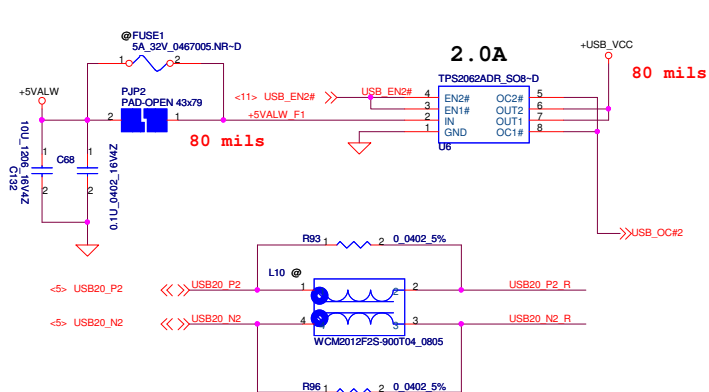
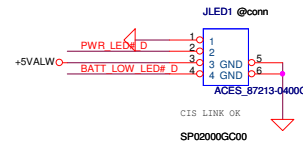
## Power LED



## BATT CHARGE



## LED CONN



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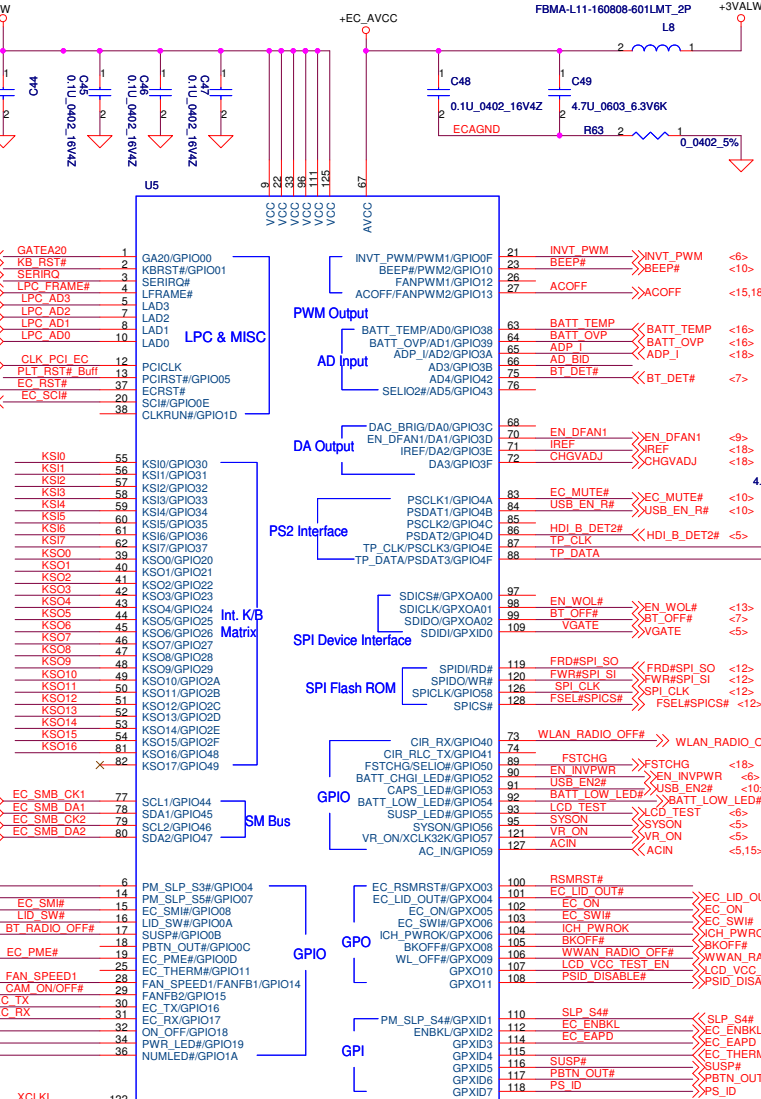
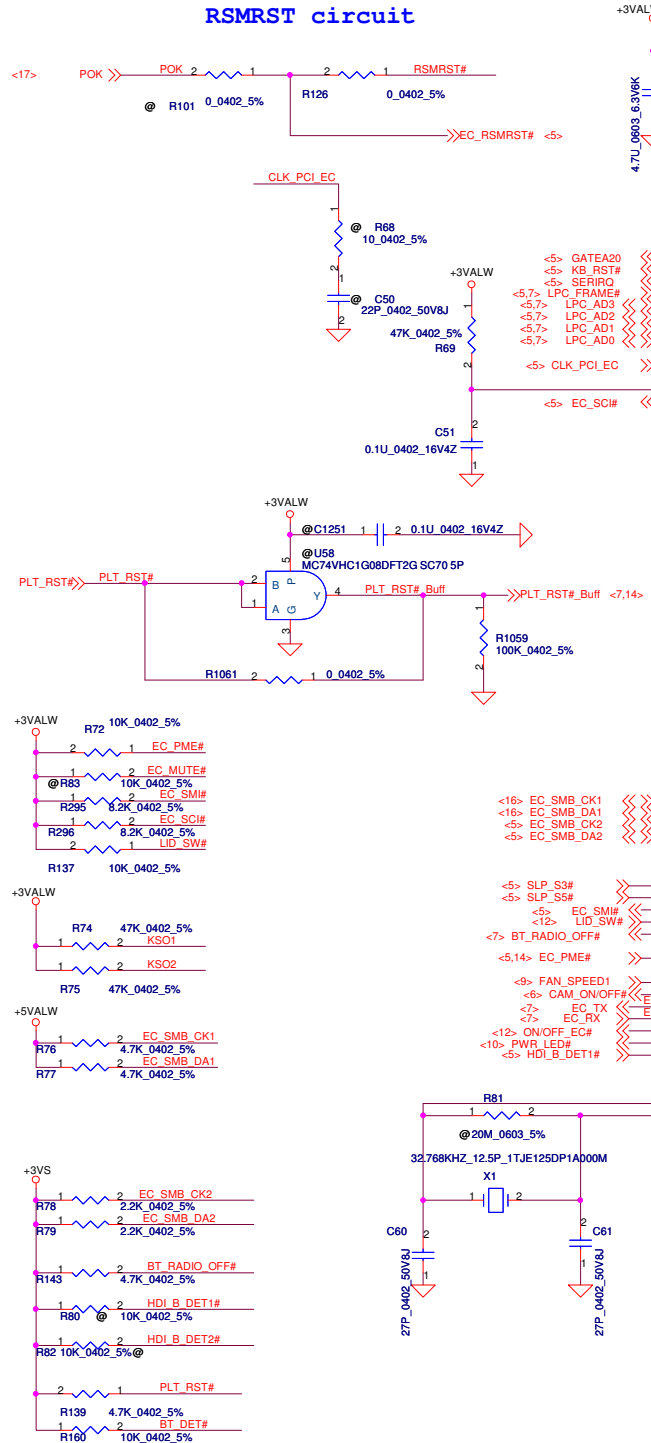
USB/WTB/LED

Document Number  
LA-5461P

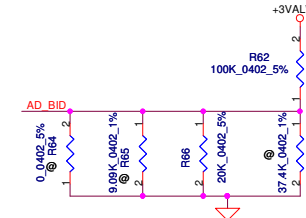
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# RSMRST circuit



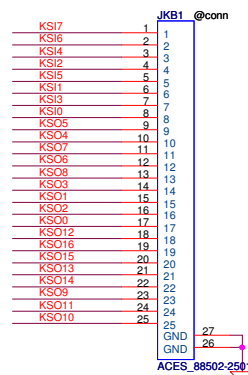
# Board ID



# BOARD ID Table

| ID | BOARD ID | Ra   | Rb    | Vab   |
|----|----------|------|-------|-------|
| 0  | 0.1(X00) | NC   | 0     | 0V    |
| 1  | 0.2(X01) | 100K | 9.09K | 0.25V |
| 2  | 1.0(A00) | 100K | 20K   | 0.55V |
| 3  | 2.0(A01) | 100K | NC    | 3.3V  |

# KEYBOARD CONN.



|              |                 |                 |             |
|--------------|-----------------|-----------------|-------------|
| KSO8 @ C449  | 100P_0402_25V8K | 100P_0402_25V8K | C235 @ KSI7 |
| KSI3 @ C239  | 100P_0402_25V8K | 100P_0402_25V8K | C236 @ KSI6 |
| KSO9 @ C249  | 100P_0402_25V8K | 100P_0402_25V8K | C237 @ KSI5 |
| KSI2 @ C240  | 100P_0402_25V8K | 100P_0402_25V8K | C441 @ KSO0 |
| KSI1 @ C241  | 100P_0402_25V8K | 100P_0402_25V8K | C442 @ KSO1 |
| KSO10 @ C248 | 100P_0402_25V8K | 100P_0402_25V8K | C443 @ KSO2 |
| KSO11 @ C247 | 100P_0402_25V8K | 100P_0402_25V8K | C238 @ KSI4 |
| KSI0 @ C242  | 100P_0402_25V8K | 100P_0402_25V8K | C444 @ KSO3 |
| KSO12 @ C246 | 100P_0402_25V8K | 100P_0402_25V8K | C445 @ KSO4 |
| KSO13 @ C245 | 100P_0402_25V8K | 100P_0402_25V8K | C446 @ KSO5 |
| KSO14 @ C244 | 100P_0402_25V8K | 100P_0402_25V8K | C447 @ KSO6 |
| KSO15 @ C243 | 100P_0402_25V8K | 100P_0402_25V8K | C448 @ KSO7 |
| KSO16 @ C251 | 100P_0402_25V8K | 100P_0402_25V8K |             |

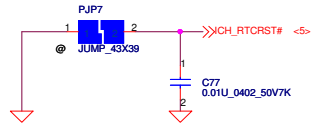
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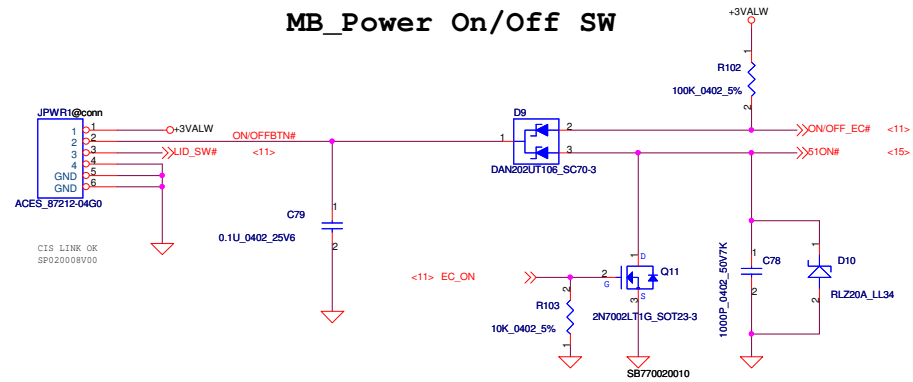
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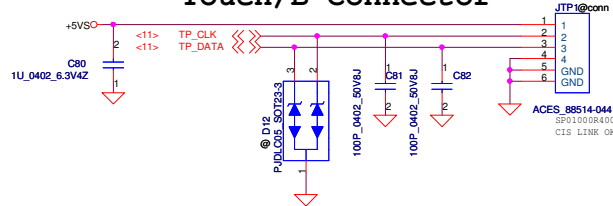
## RTC Reset SW



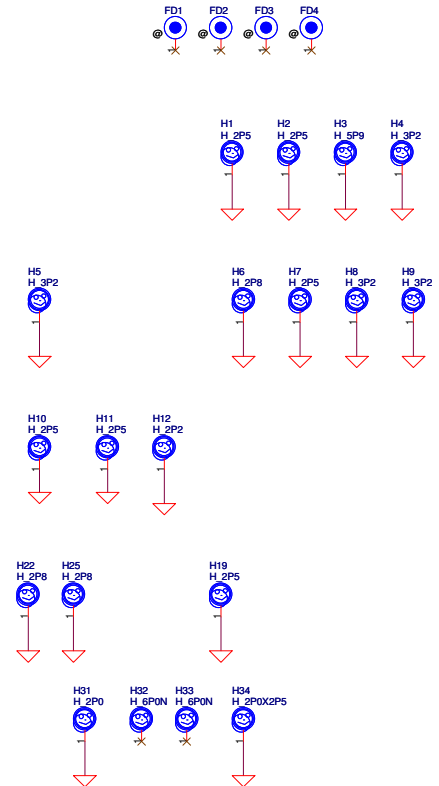
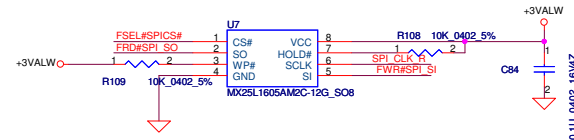
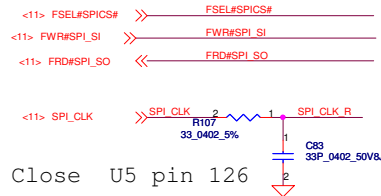
## MB\_Power On/Off SW



## Touch/B Connector



## System SPI Flash ROM (16Mb)



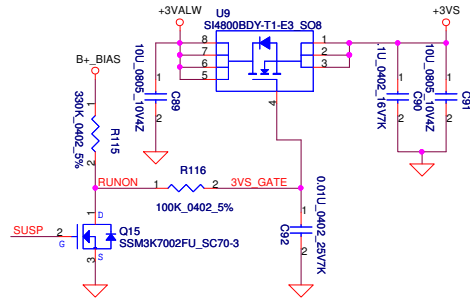
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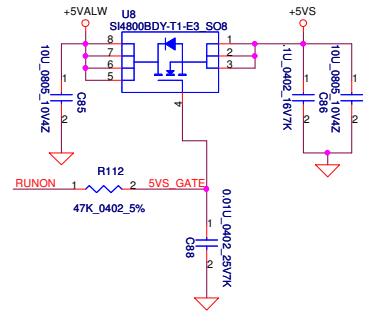
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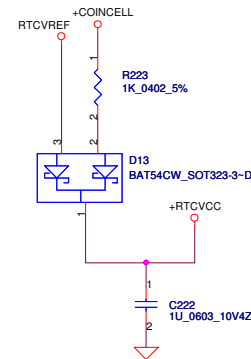
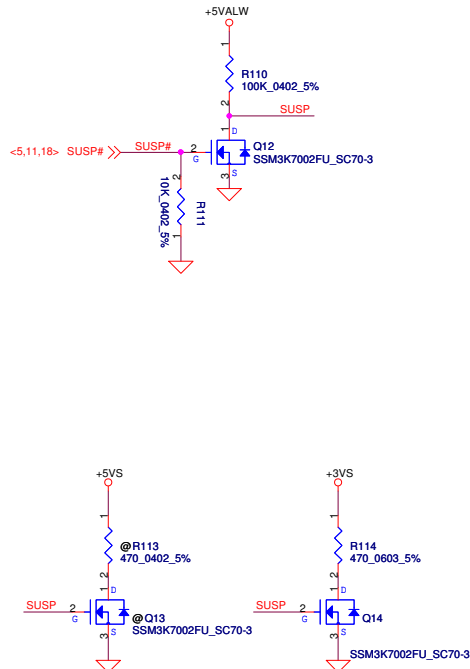
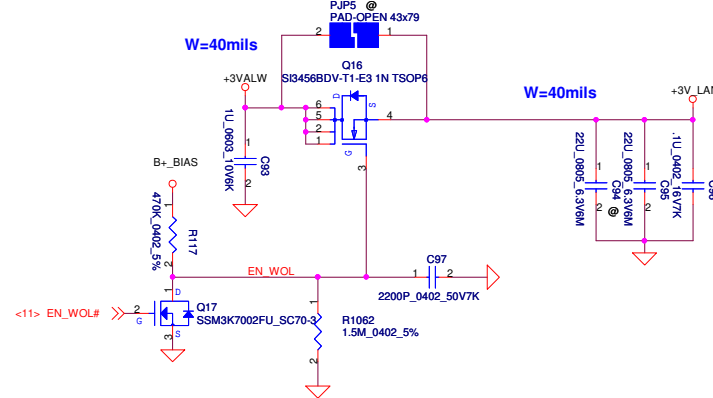
## +3VALW to +3VS Transfer



## +5VALW to +5VS Transfer



## +3VALW to +3LAN Transfer



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Compal Electronics, Inc.

Power Control

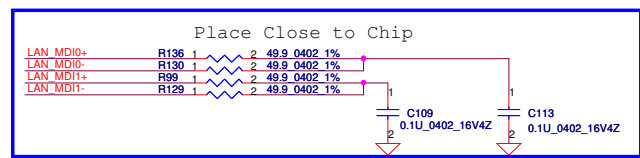
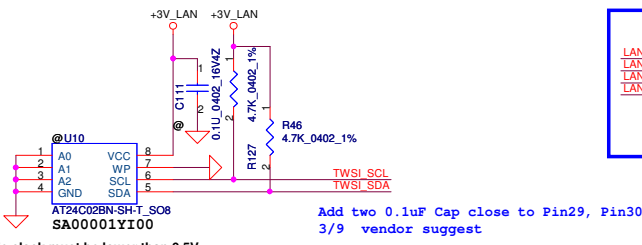
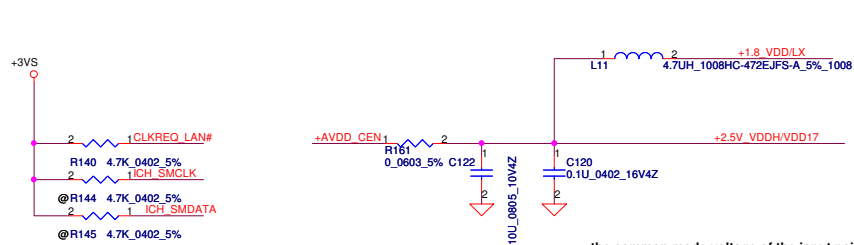
LA-5461P

Date: Wednesday, June 24, 2009

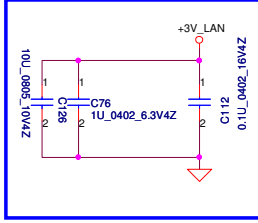
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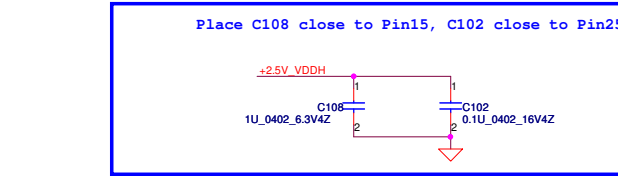
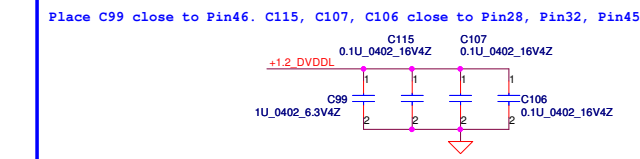
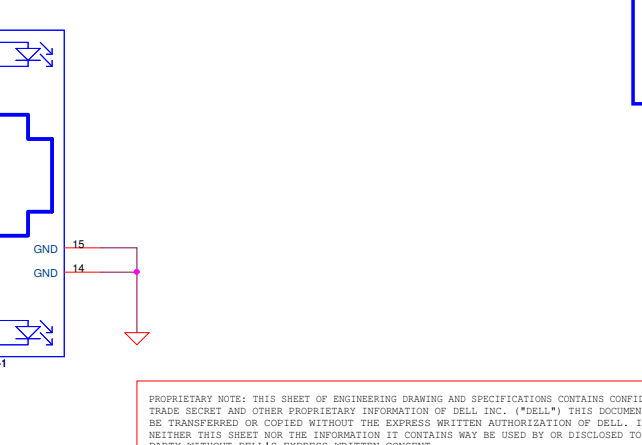
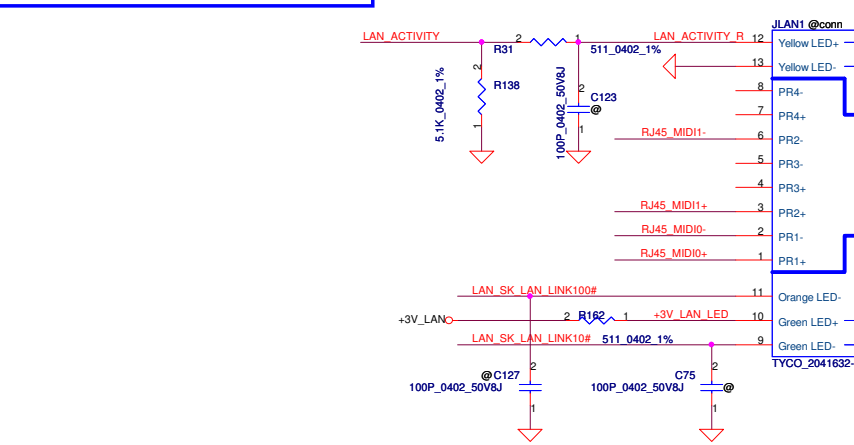
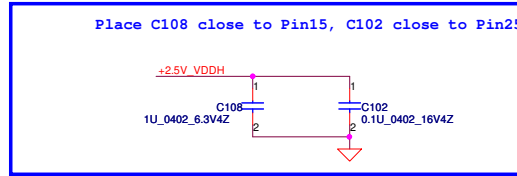
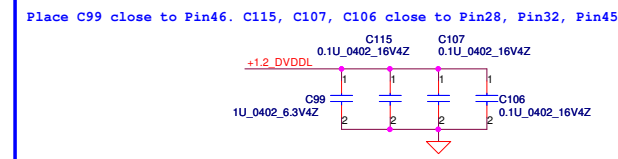
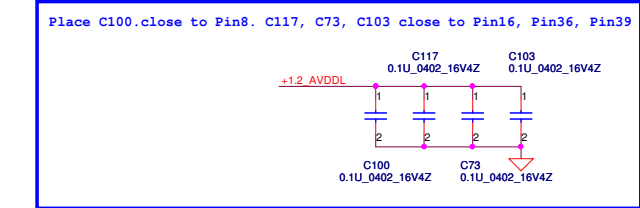
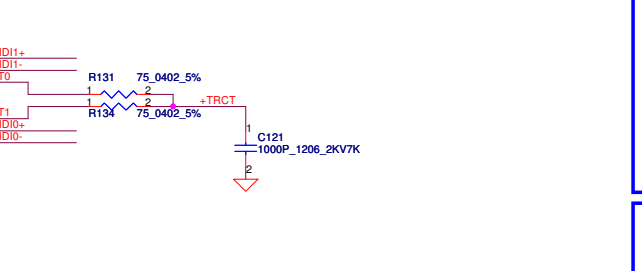
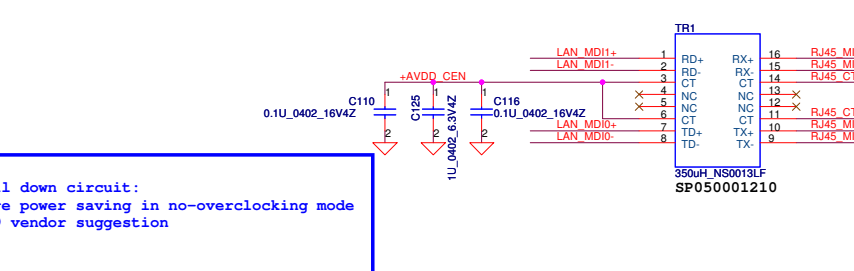
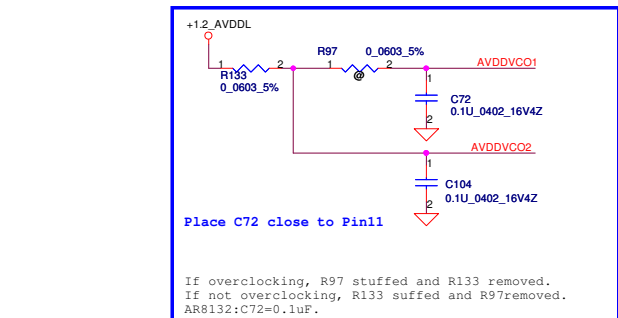
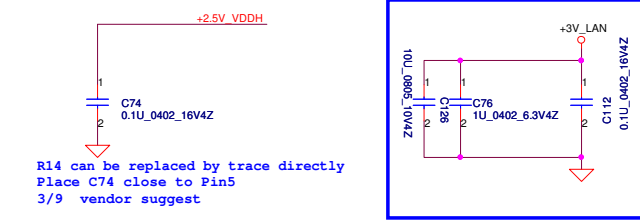
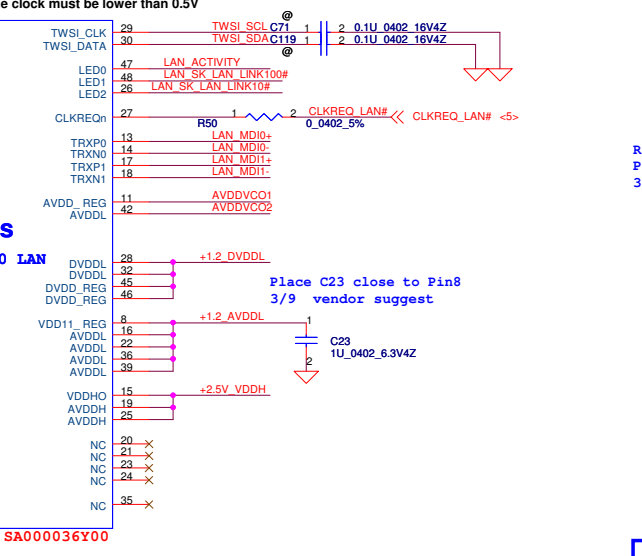
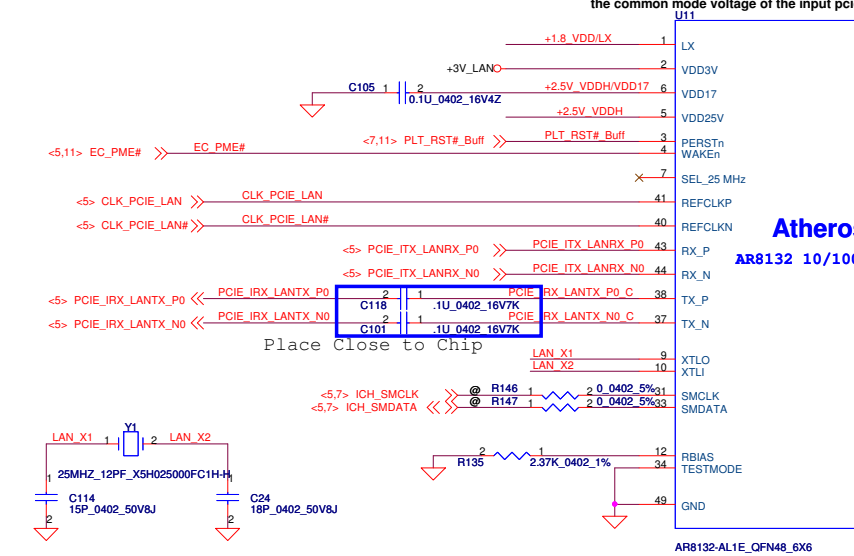
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Layout Notice : Place as close chip as possible.



R14 can be replaced by trace directly  
Place C74 close to Pin5  
3/9 vendor suggest



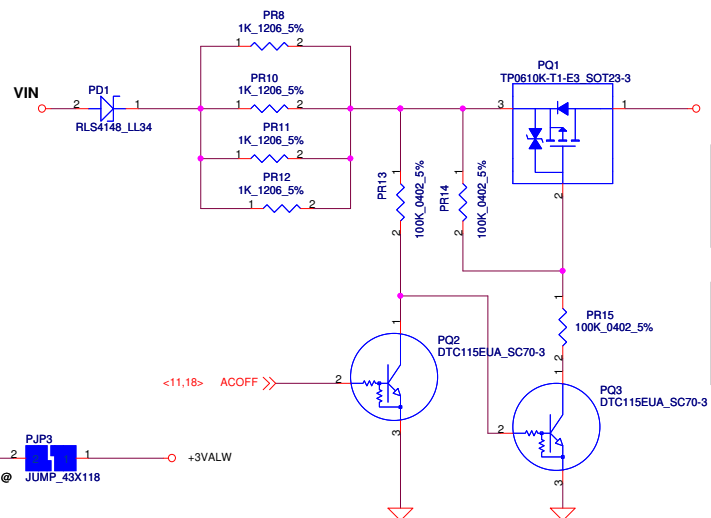
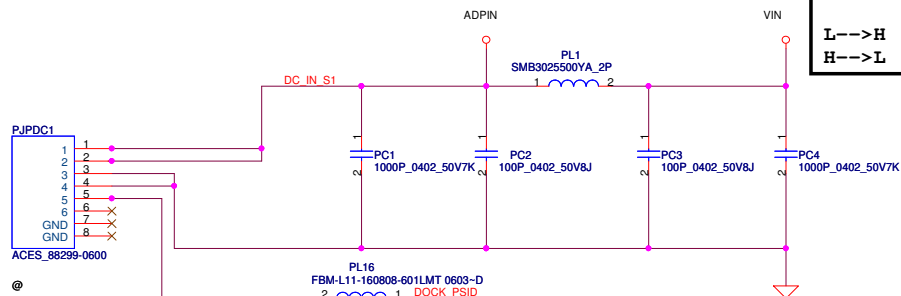
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|--------------------------|--------------------------|-------|----------|
| Title                    | LAN AR8132               |       |          |
| Size                     | Document Number          | Rev   |          |
|                          | LA-5461P                 | 1.0   |          |
| Date                     | Wednesday, June 24, 2009 | Sheet | 14 of 20 |

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# Vin Detector

|       | Max.   | typ.   | Min.   |
|-------|--------|--------|--------|
| L-->H | 18.234 | 17.841 | 17.449 |
| H-->L | 17.597 | 17.210 | 16.813 |

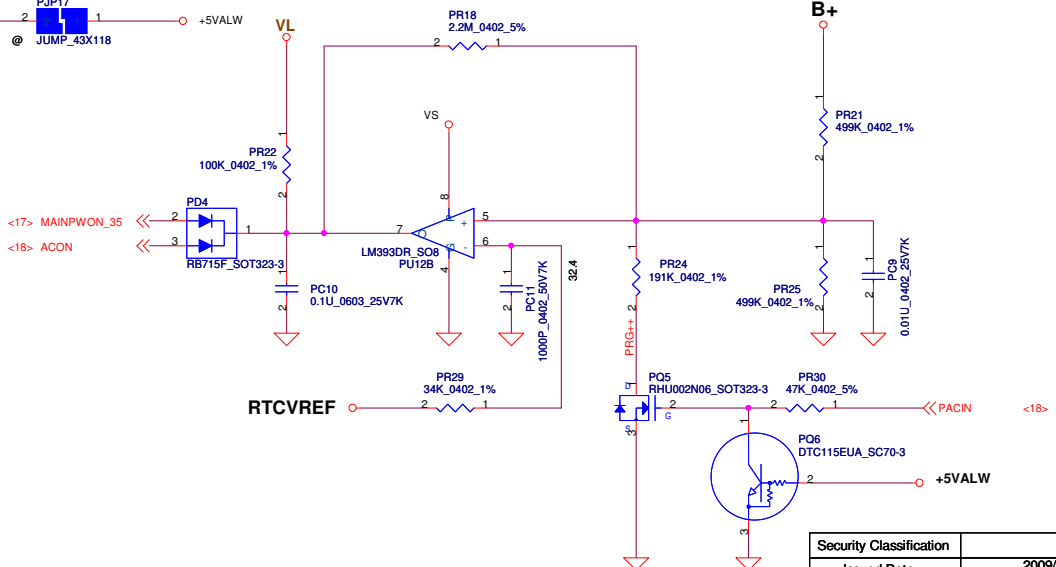
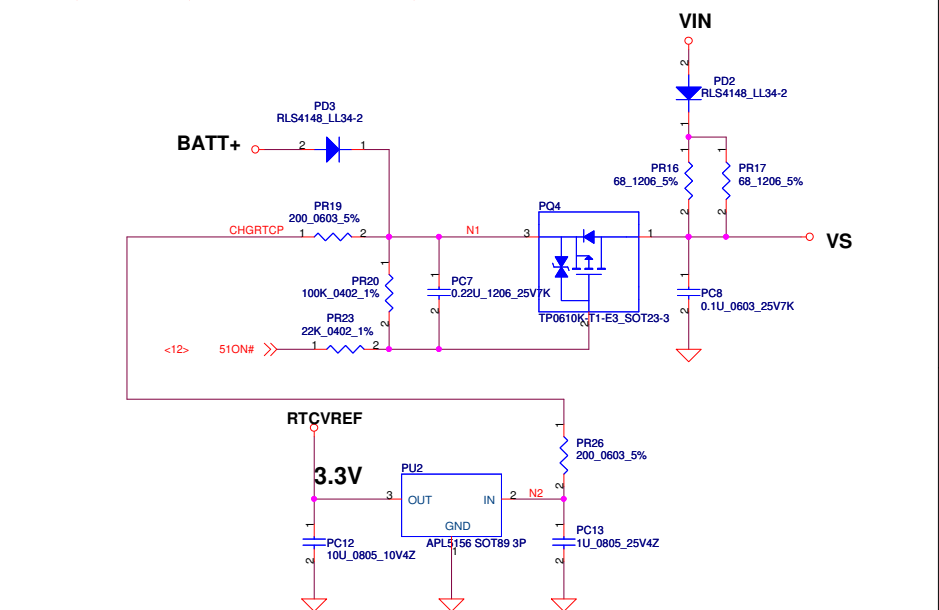
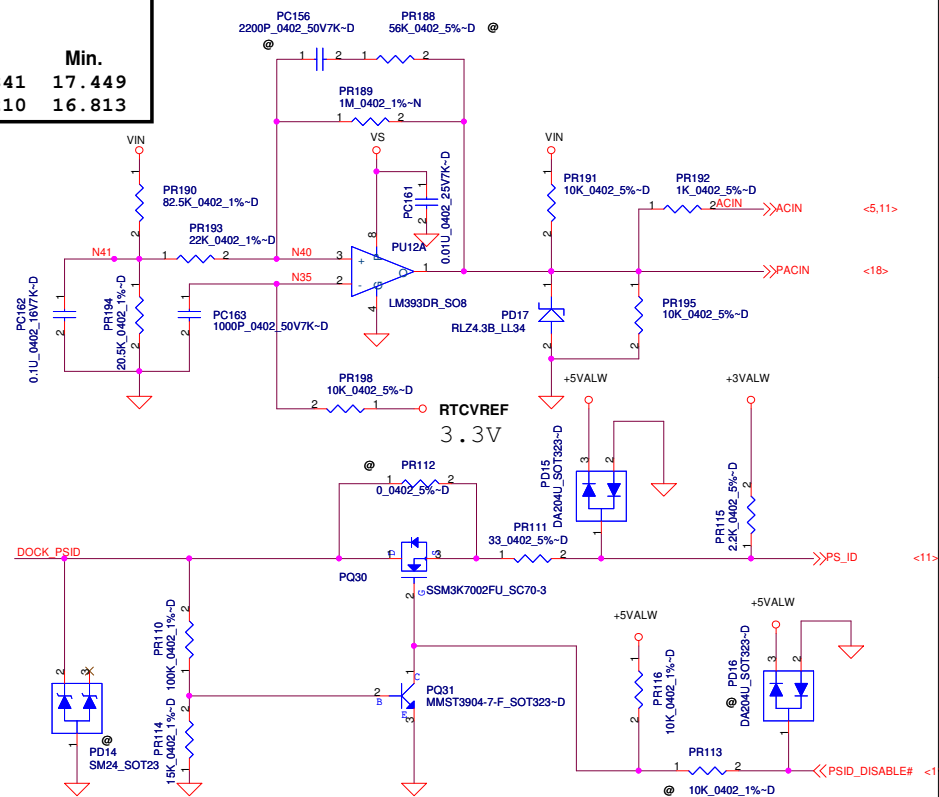


**B+**  
**ACIN**

|       | Min.    | typ.   | Max.    |
|-------|---------|--------|---------|
| H-->L | 14.589V | 14.84V | 15.243V |
| L-->H | 15.562V | 15.97V | 16.388V |

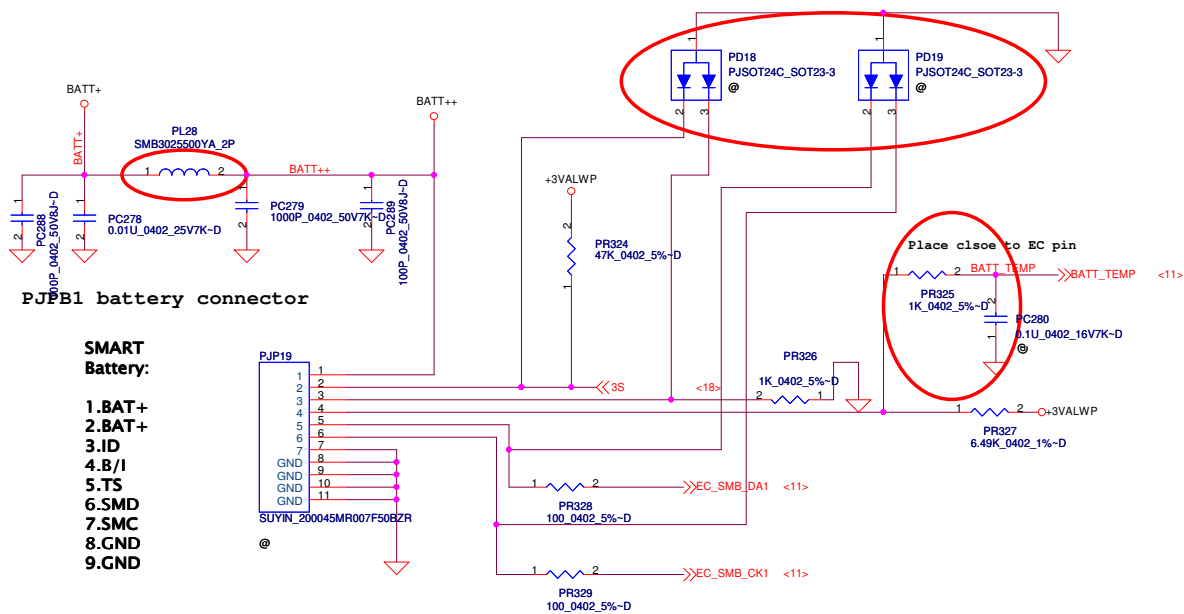
**BATT ONLY**

|       | Min.   | typ.   | Max.   |
|-------|--------|--------|--------|
| H-->L | 6.138V | 6.214V | 6.359V |
| L-->H | 7.196V | 7.349V | 7.505V |

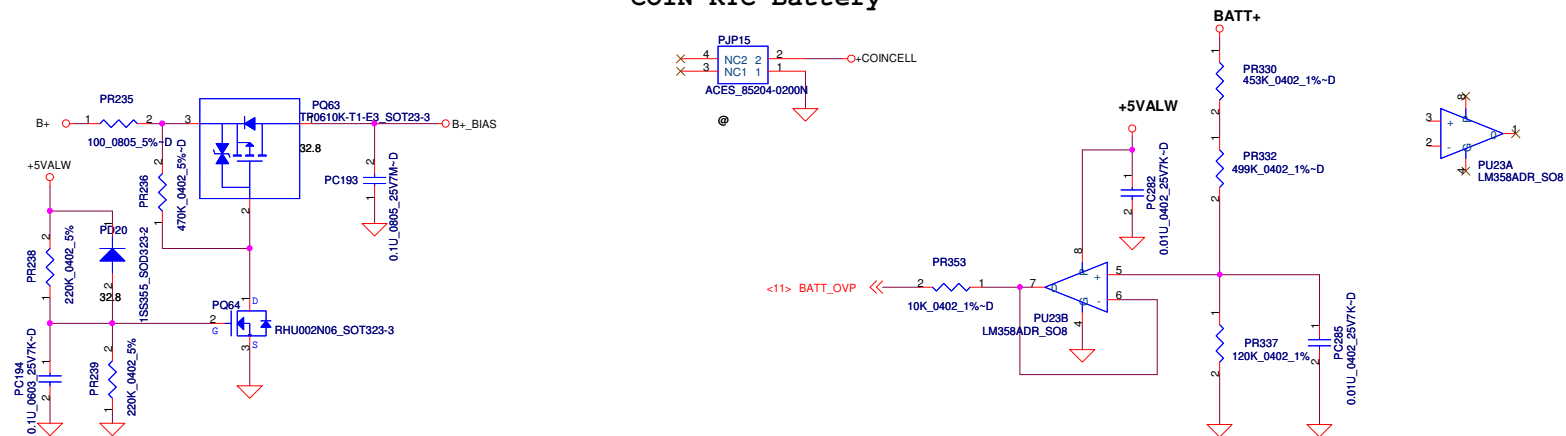


| Security Classification |  |  |  | Compal Secret Data |  |  |  | Compal Electronics, Inc.       |  |  |  |
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| Issued Date             |  |  |  | 2009/2/6           |  |  |  | Title                          |  |  |  |
|                         |  |  |  | Deciphered Date    |  |  |  | DCIN & DETECTOR                |  |  |  |
|                         |  |  |  |                    |  |  |  | Size                           |  |  |  |
|                         |  |  |  |                    |  |  |  | Document Number                |  |  |  |
|                         |  |  |  |                    |  |  |  | LA-5461P                       |  |  |  |
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|                         |  |  |  |                    |  |  |  | 1.0                            |  |  |  |
|                         |  |  |  |                    |  |  |  | Date: Wednesday, June 24, 2009 |  |  |  |
|                         |  |  |  |                    |  |  |  | Sheet 15 of 20                 |  |  |  |

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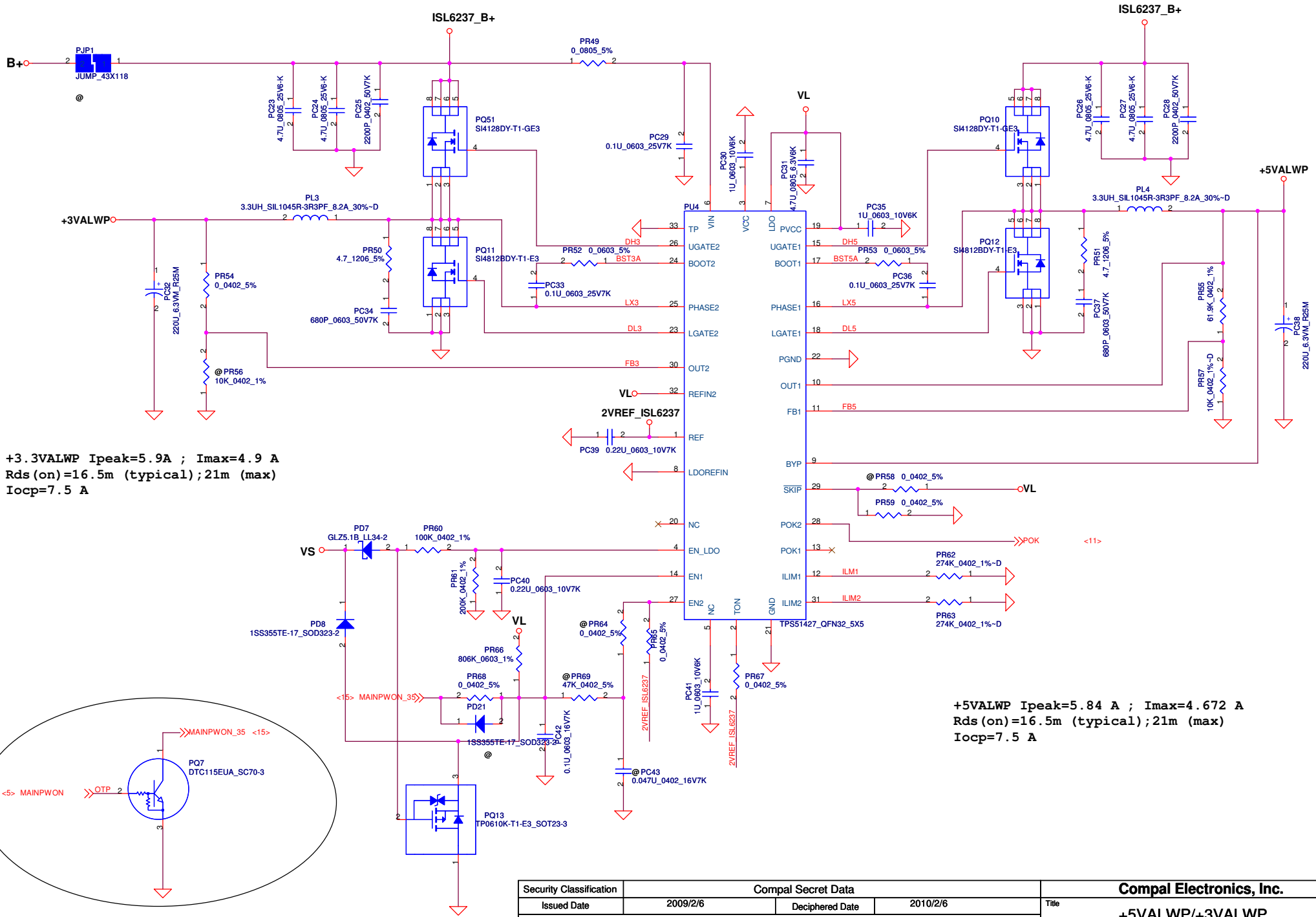
### COIN RTC Battery



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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                    |  |                 |  |                          |  |                    |                          |          |       |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|-----------------|--|--------------------------|--|--------------------|--------------------------|----------|-------|-----|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Compal Secret Data |  |                 |  | Compal Electronics, Inc. |  |                    |                          |          |       |     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                    |  |                 |  |                          |  | Size               | Document Number          | LA-5461P |       | Rev |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                    |  |                 |  |                          |  | Custom             |                          |          |       | 1.0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                    |  |                 |  |                          |  | Date:              | Wednesday, June 24, 2009 |          | Sheet | 16  |



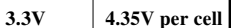


**+3.3VALWP** Ipeak=5.9A ; Imax=4.9 A  
Rds(on)=16.5m (typical);21m (max)  
Iocp=7.5 A

**+5VALWP** Ipeak=5.84 A ; Imax=4.672 A  
Rds(on)=16.5m (typical);21m (max)  
Iocp=7.5 A

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |          |                          |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|----------|--------------------------|--------------------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | Compal Secret Data |          | Compal Electronics, Inc. |                          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |          | Document Number          | LA-5461P                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |          | Date:                    | Wednesday, June 24, 2009 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                    |          | Sheet                    | 17 of 20                 |

CP = 90%\*Iadapter (rating); CP = 3.003A



|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                 |          |                                |                        |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|----------|--------------------------------|------------------------|------------|
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                 |          | Date: Wednesday, June 24, 2009 | Sheet 18 of 20         |            |

| Version change list (P.I.R. List)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       | power section      |                                                    | Page 1 of 1 |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
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| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Reason for change                     | PG#                | Modify List                                        | Date        | Phase                    |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reduce adapter plug in inrush current | P16                | Add PR9 10 ohm                                     | 05/18/09    | PT/ST                    |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | adjust adapter plug in power sequence | P17                | change PR68 from 0 to 100k, PC42 from 0.047u to 1u | 05/18/09    | PT/ST                    |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | For OTP schematic                     | P17                | Add PQ7                                            | 05/18/09    | PT/ST                    |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                    |                                                    |             |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| <table><tr><td colspan="2">Security Classification</td><td colspan="2">Compal Secret Data</td><td colspan="2">Title</td></tr><tr><td>Issued Date</td><td>2005/06/01</td><td>Deciphered Date</td><td>2006/06/01</td><td colspan="2">Power PIR</td></tr><tr><td colspan="4">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&amp;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.</td><td>Size</td><td>Document Number</td></tr><tr><td colspan="4"></td><td></td><td>LA-5461P</td></tr><tr><td colspan="4"></td><td>Date:</td><td>Wednesday, June 24, 2009</td></tr><tr><td colspan="4"></td><td>Sheet</td><td>19 of 20</td></tr><tr><td colspan="4"></td><td>Rev</td><td>1.0</td></tr></table> |                                       |                    |                                                    |             |                          | Security Classification |  | Compal Secret Data |  | Title |  | Issued Date | 2005/06/01 | Deciphered Date | 2006/06/01 | Power PIR |  | THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC. |  |  |  | Size | Document Number |  |  |  |  |  | LA-5461P |  |  |  |  | Date: | Wednesday, June 24, 2009 |  |  |  |  | Sheet | 19 of 20 |  |  |  |  | Rev | 1.0 |
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | Compal Secret Data |                                                    | Title       |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2005/06/01                            | Deciphered Date    | 2006/06/01                                         | Power PIR   |                          |                         |  |                    |  |       |  |             |            |                 |            |           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |      |                 |  |  |  |  |  |          |  |  |  |  |       |                          |  |  |  |  |       |          |  |  |  |  |     |     |
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Version Change List (P. I. R. List)

| Page #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Title      | Date      | Request Owner | Issue Description                                              | Solution Description                                                | Rev. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|---------------|----------------------------------------------------------------|---------------------------------------------------------------------|------|
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LVDS       | 2009/5/4  | Compal        | Support EC & MCH PWN BL                                        | reserve OR gate (U59,R132) (Pop OR gate)                            | X01  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LVDS       | 2009/5/4  | EC            | Panel power up sequence.                                       | Change D2 to 0 ohm(R163)                                            | X01  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HDMI       | 2009/5/4  | ME            | DFX issue                                                      | Change HDMI connector to DIP type (TAITW_PDVBR0-19FLBS4NN4N1)       | X01  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EC         | 2009/5/4  | Compal        | follow CPU board SCI# to ALW power plane                       | Change EC_SCI# pull high from +3VS to +3VALW                        | X01  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PWBOTTOM   | 2009/5/4  | Compal        | Add LID SW in PWR board duplication reserve ESD                | Change Power botton connector to 4 pin,del D11                      | X01  |
| 5,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Camrea     | 2009/5/6  | BIOS          | For external USB connector power manage feature implementation | Change Camera USB Port 3 to Port 7                                  | X01  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OTP        | 2009/5/6  | Compal        | OTP no function                                                | Add VL power in JHOST pin 6                                         | X01  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cyrstal    | 2009/5/7  | Compal        | For cyrstal EA result                                          | Change Y1 to 25MHZ_12PF, C114 to 15pf,C24 to 18pf                   | X01  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WTB        | 2009/5/7  | ME            | For ASSY issue                                                 | Redefine JWTB1 pinout                                               | X01  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LVDS, DMIC | 2009/5/8  | Compal        | LCD sequence T1 issue,DMIC EMI issue                           | Change R25 to 56K,C15 to 0.1u,R30 to L13, pop C458,C459             | X01  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CLOCK      | 2009/5/8  | Compal        | duplication reserve R for CLK_EC on CPB and MB                 | Del R6                                                              | X01  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PW SW      | 2009/5/12 | Compal        | Power derating fail                                            | Add R1062 1.5M,change R117 to 470k                                  | X01  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HDMI       | 2009/5/12 | Compal        | HDMI TEST to got more eye margin                               | Change R123 to 442 ohm                                              | X01  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pwr/SW     | 2009/5/13 | Compal        | Bear S5 Issue Recovery                                         | Change C79 to 25V de-rating parts                                   | X01  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EC         | 2009/5/15 | Compal        | Change Board ID to X01                                         | Depop R64,pop R65                                                   | X01  |
| 5,12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CLOCK      | 2009/6/15 | Compal        | For RF team request for WWW noise                              | Change C83 to 33pF, reserve C1252,C1253,C1254                       | A00  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EC         | 2009/6/15 | Compal        | Change Board ID to A00                                         | Depop R65,pop R66                                                   | A00  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LID        | 2009/6/15 | Compal        | Change LID SW pull hight form PW/B to MB                       | Add R137                                                            | A00  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WLAN/WWAN  | 2009/6/18 | Compal        | Remove 0 ohm for cost down                                     | Depop R16,R17,R89,R90,Remove R88,R118,R119,R120,R121,R122,R292,R293 | A00  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3VLAN      | 2009/6/18 | Compal        | Remove 0 ohm for cost down                                     | Remove R159                                                         | A00  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HDMI       | 2009/6/18 | Compal        | For Safity test Overload issue                                 | Pop F1, Change R48 to PJP4                                          | A00  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SPI        | 2009/6/18 | Compal        | Remove 0 ohm for cost down                                     | Remove R104,R105,R106                                               | A00  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |           |               |                                                                |                                                                     |      |
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