

MODEL NAME : *KML50*

PCB NO : *LA-4596P (DA60000B710)*

BOM P/N : *11*

# Half Penny Bridge 15.4

# Compal Confidential

## Schematic Document

## Cantiga + ICH9

2009 / 01 / 14 Rev:1.0(A00)

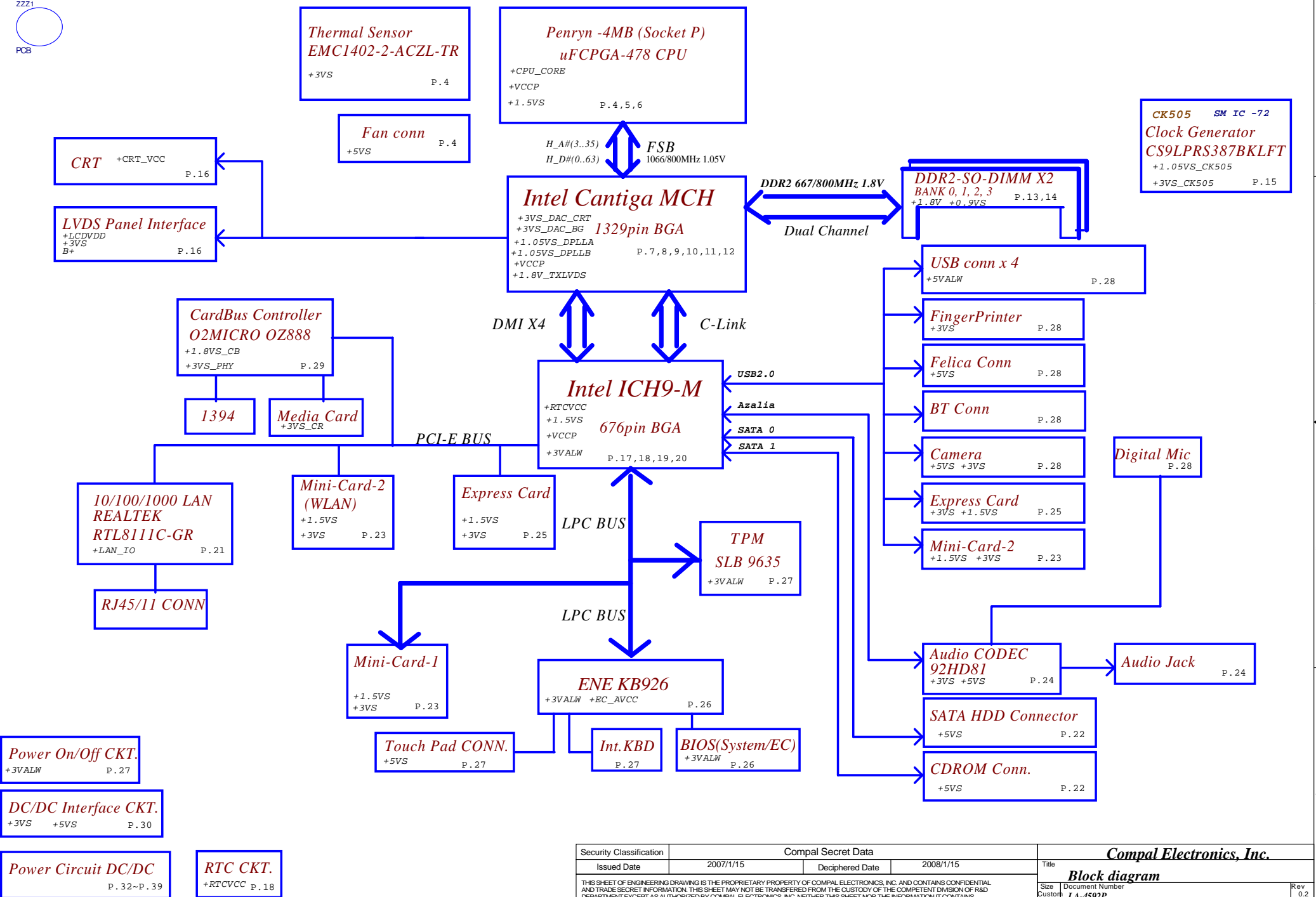
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                    |           |                                   |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|-----------------------------------|------------------------------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Compal Secret Data |           | Compal Electronics, Inc.          |                                    |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2007/1/15 | Deciphered Date    | 2008/1/15 | Title                             | <i>Cover Sheet</i>                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                    |           | Date: Thursday, February 19, 2009 | Rev<br>0.2                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                    |           | Sheet 1 of 43                     |                                    |

# Half Penny Bridge 15.4

File Name : LA-4596P

ZZZ1

PCB



| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Compal Secret Data |           | Compal Electronics, Inc. |                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                    |           | Date                     | Thursday, February 19, 2009 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                    |           | Sheet                    | 2 of 43                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                    |           | Rev                      | 0.2                         |

| Voltage Rails                  |    |                  |       |                                                                 |
|--------------------------------|----|------------------|-------|-----------------------------------------------------------------|
| power plane                    | +B | +5VALW<br>+3VALW | +1.8V | +5VS<br>+3VS<br>+1.5VS<br>+0.9V<br>+VCCP<br>+CPU_CORE<br>+1.8VS |
|                                |    |                  |       |                                                                 |
| State                          |    |                  |       |                                                                 |
| S0                             | ○  | ○                | ○     | ○                                                               |
| S1                             | ○  | ○                | ○     | ○                                                               |
| S3                             | ○  | ○                | ○     | ✗                                                               |
| S5 S4/AC                       | ○  | ○                | ✗     | ✗                                                               |
| S5 S4/ Battery only            | ○  | ✗                | ✗     | ✗                                                               |
| S5 S4/AC & Battery don't exist | ✗  | ✗                | ✗     | ✗                                                               |

Symbol Note :



: means Digital Ground



: means Analog Ground

@ : means just reserve , no build  
CONN@ : means ME CONN compont.  
TPM@:TPM compont

| PCI EXPRESS | DESTINATION       |
|-------------|-------------------|
| Lane 1      | MINI CARD-1 WWAN  |
| Lane 2      | GLAN RTL8111DL    |
| Lane 3      | MINI CARD-2 WLAN  |
| Lane 4      | EXPRESS CARD      |
| Lane 5      | CARD READER OZ888 |
| Lane 6      | NA                |

| SATA   | DESTINATION |
|--------|-------------|
| Lane 0 | HDD         |
| Lane 1 | ODD         |
| Lane 4 | NA          |
| Lane 5 | NA          |

| ICH9-M | USB PORT# | DESTINATION    |
|--------|-----------|----------------|
|        | 0         | JUSBP1         |
|        | 1         | CAMERA         |
|        | 2         | JUSBP3 Top     |
|        | 3         | Felica         |
|        | 4         | Blue Tooth     |
|        | 5         | Finger Printer |
|        | 6         | JMINI2-WLAN    |
|        | 7         | Express card   |
|        | 8         | JUSBP3 Bottom  |
|        | 9         | JMINI1-WWAN    |
|        | 10        | JUSBP4         |
|        | 11        | NA             |

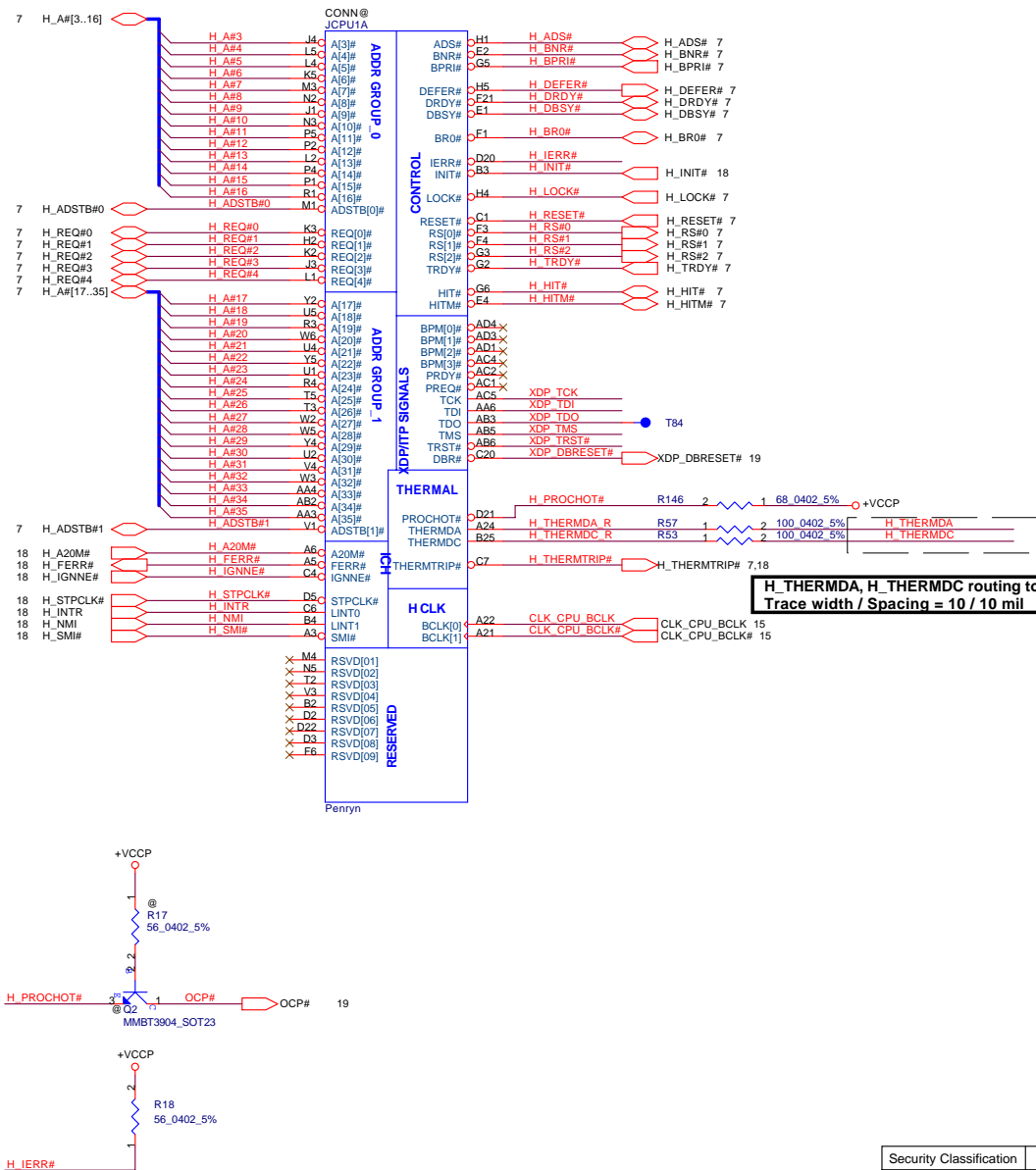
SMBUS Control Table

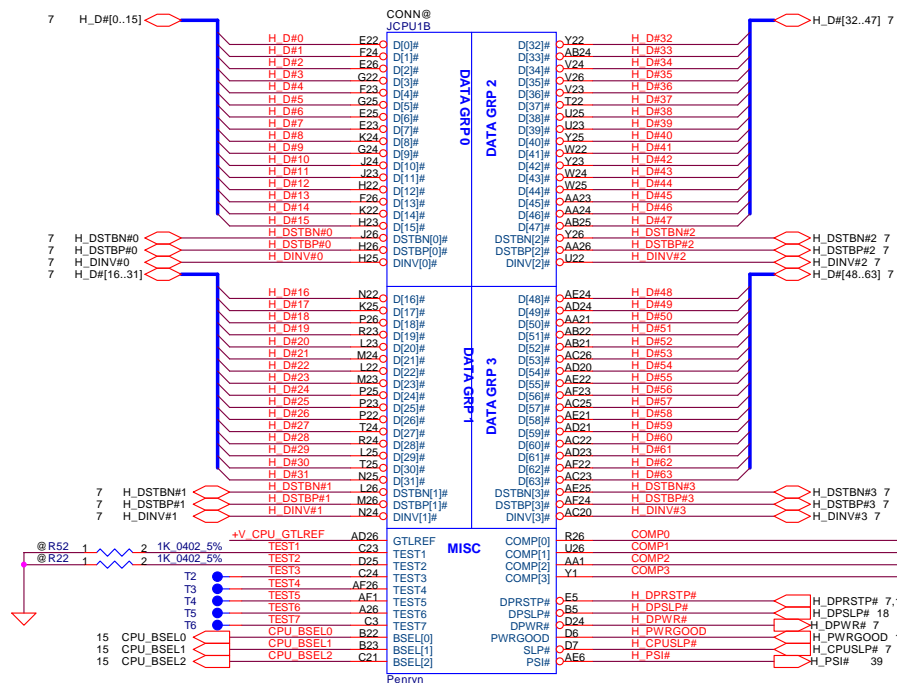
|                            | SOURCE  | INVERTER | BATT | SERIAL EEPROM | THERMAL SENSOR (CPU) | SODIMM | CLK CHIP | MINI CARD | LCD |
|----------------------------|---------|----------|------|---------------|----------------------|--------|----------|-----------|-----|
| SMB_EC_CK1<br>SMB_EC_DA1  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

I2C / SMBUS ADDRESSING

| DEVICE                 | HEX | ADDRESS         |
|------------------------|-----|-----------------|
| DDR SO-DIMM 0          | A0  | 1 0 1 0 0 0 0 0 |
| DDR SO-DIMM 1          | A4  | 1 0 1 0 0 1 0 0 |
| CLOCK GENERATOR (EXT.) | D2  | 1 1 0 1 0 0 1 0 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                 |            |                          |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------|--------------------------|-----------------------------|
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                 |            | Sheet                    | 3 of 43                     |
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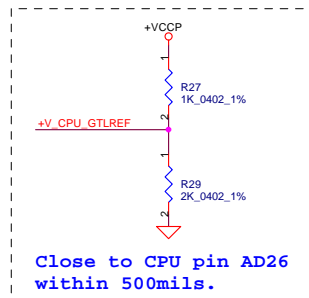




layout note: Rout H\_DPRSTP# from ICH9 to IMPV6 then to GMCH & CPU

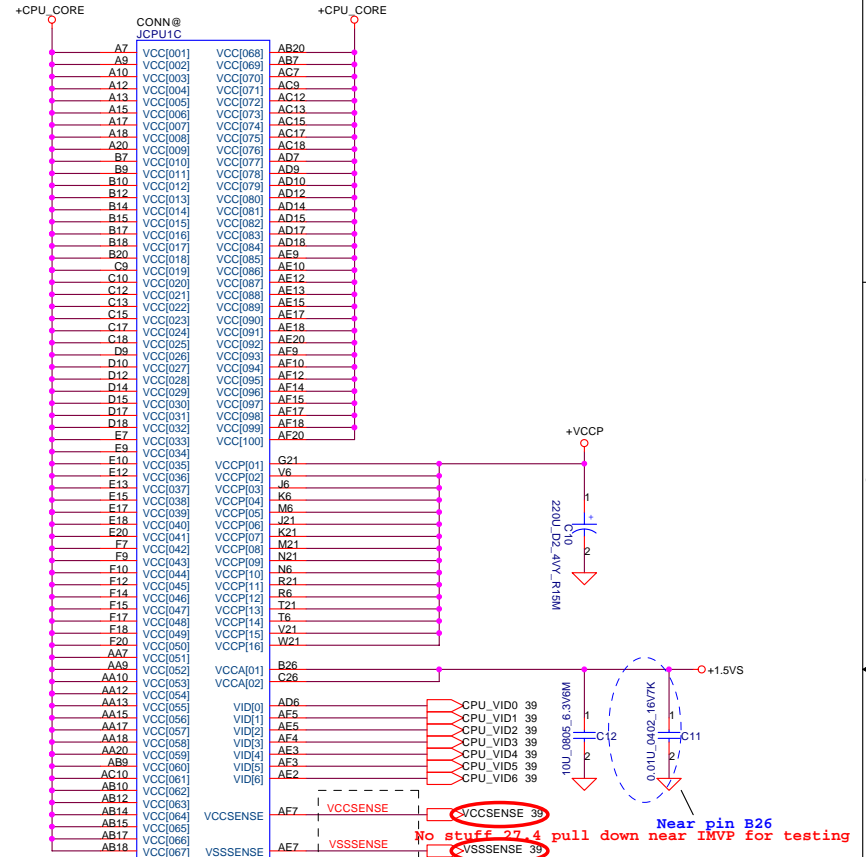
layout note: Route TEST3 & TEST5 traces on ground referenced layer to the TPs

| CPU_BSEL | CPU_BSEL2 | CPU_BSEL1 | CPU_BSEL0 |
|----------|-----------|-----------|-----------|
| 166      | 0         | 1         | 1         |
| 200      | 0         | 1         | 0         |
| 266      | 0         | 0         | 0         |

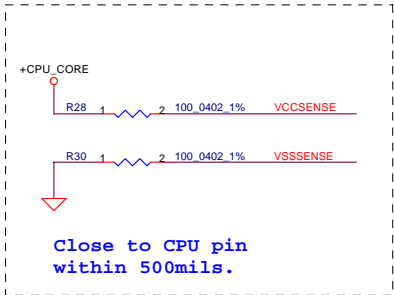


Resistor placed within 0.5" of CPU pin. Trace should be at least 25 mils away from any other toggling signal. COMP[0,2] trace width is 18 mils. COMP[1,3] trace width is 4

For 6 layer  
Z=27.4 ohm  
VCCSENSE, VSSSENSE/ 14mils (MS),  
16mils (SL) width, 7mils space, 25mils  
space to other signals Mismatch =25mils.

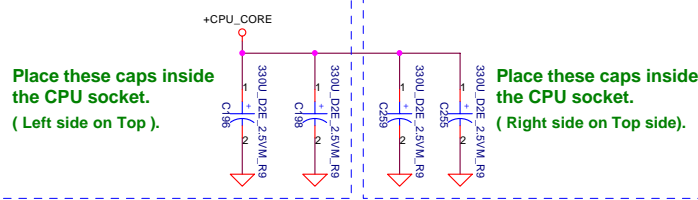
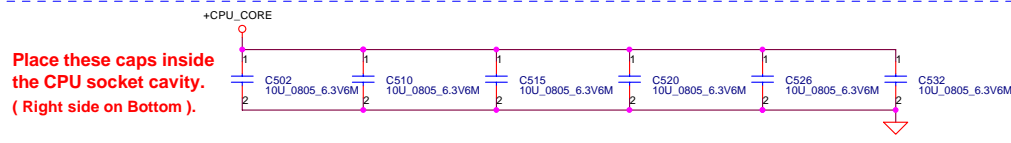
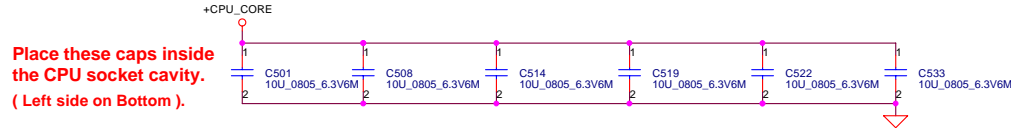
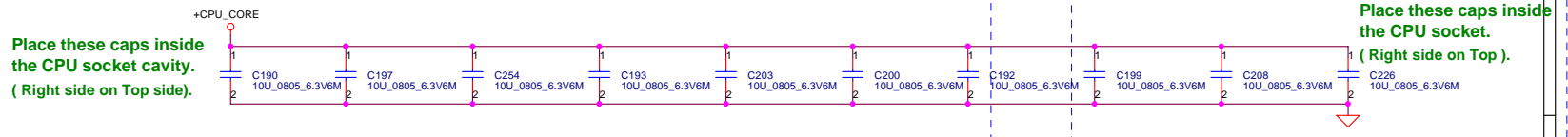


Length match within 25 mils.  
The trace width/space/other is  
20/7/25.

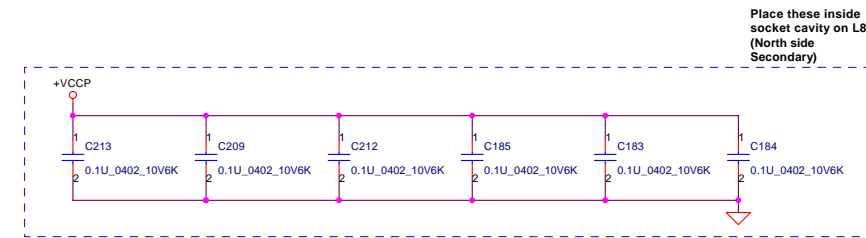


# High Frequency Decoupling 10uF 0805 X5R -> 85 degree.

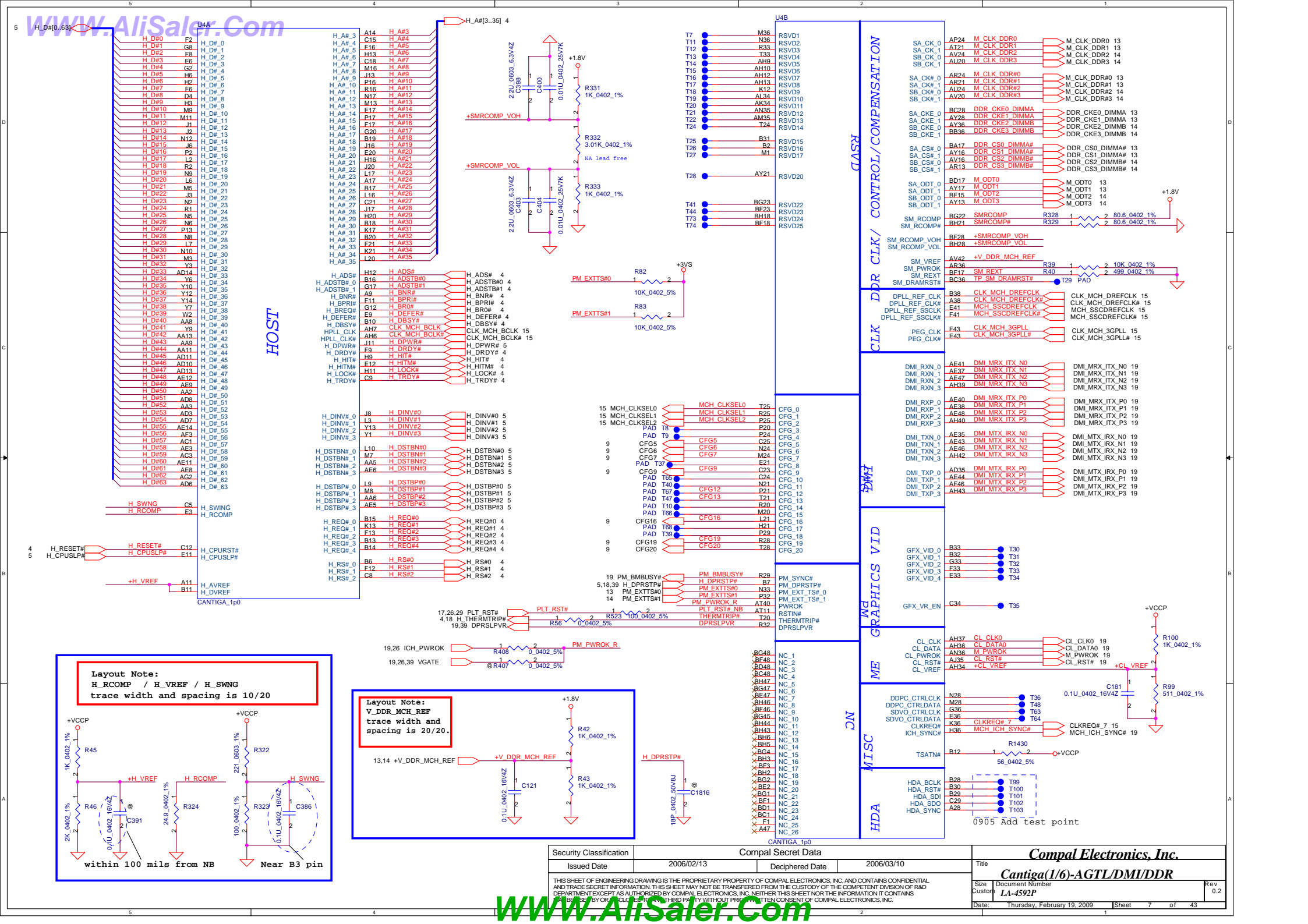
| CONN@ | JCPU1D   |          |      |
|-------|----------|----------|------|
| A4    | VSS[001] | VSS[002] | P6   |
| A8    | VSS[002] | VSS[003] | P21  |
| A11   | VSS[003] | VSS[004] | P24  |
| A14   | VSS[004] | VSS[005] | R2   |
| A16   | VSS[005] | VSS[006] | R5   |
| A19   | VSS[006] | VSS[007] | R22  |
| A23   | VSS[007] | VSS[008] | R25  |
| A2    | VSS[008] | VSS[009] | T1   |
| A2    | VSS[009] | VSS[010] | T4   |
| B8    | VSS[010] | VSS[011] | T23  |
| B11   | VSS[011] | VSS[012] | T26  |
| B13   | VSS[012] | VSS[013] | U3   |
| B16   | VSS[013] | VSS[014] | U6   |
| B19   | VSS[014] | VSS[015] | U21  |
| B21   | VSS[015] | VSS[016] | U24  |
| B24   | VSS[016] | VSS[017] | V2   |
| C5    | VSS[017] | VSS[018] | V5   |
| C8    | VSS[018] | VSS[019] | V22  |
| C11   | VSS[019] | VSS[020] | V25  |
| C14   | VSS[020] | VSS[021] | W1   |
| C16   | VSS[021] | VSS[022] | W23  |
| C19   | VSS[022] | VSS[023] | W26  |
| C2    | VSS[023] | VSS[024] | Y3   |
| C22   | VSS[024] | VSS[025] | Y6   |
| C25   | VSS[025] | VSS[026] | Y21  |
| D1    | VSS[026] | VSS[027] | Y24  |
| D4    | VSS[027] | VSS[028] | AA2  |
| D8    | VSS[028] | VSS[029] | AA5  |
| D11   | VSS[029] | VSS[030] | AA8  |
| D13   | VSS[030] | VSS[031] | AA11 |
| D16   | VSS[031] | VSS[032] | AA14 |
| D19   | VSS[032] | VSS[033] | AA16 |
| D23   | VSS[033] | VSS[034] | AA19 |
| D26   | VSS[034] | VSS[035] | AA22 |
| E3    | VSS[035] | VSS[036] | AA25 |
| E6    | VSS[036] | VSS[037] | AB1  |
| E8    | VSS[037] | VSS[038] | AB4  |
| E11   | VSS[038] | VSS[039] | AB8  |
| E14   | VSS[039] | VSS[040] | AB11 |
| E16   | VSS[040] | VSS[041] | AB13 |
| E19   | VSS[041] | VSS[042] | AB16 |
| E21   | VSS[042] | VSS[043] | AB19 |
| E24   | VSS[043] | VSS[044] | AB23 |
| F5    | VSS[044] | VSS[045] | AB26 |
| F8    | VSS[045] | VSS[046] | AC3  |
| F11   | VSS[046] | VSS[047] | AC6  |
| F13   | VSS[047] | VSS[048] | AC8  |
| F16   | VSS[048] | VSS[049] | AC11 |
| F19   | VSS[049] | VSS[050] | AC14 |
| F2    | VSS[050] | VSS[051] | AC16 |
| F22   | VSS[051] | VSS[052] | AC21 |
| F25   | VSS[052] | VSS[053] | AC24 |
| G4    | VSS[053] | VSS[054] | AD2  |
| G1    | VSS[054] | VSS[055] | AD5  |
| G23   | VSS[055] | VSS[056] | AD8  |
| G26   | VSS[056] | VSS[057] | AD11 |
| H3    | VSS[057] | VSS[058] | AD13 |
| H6    | VSS[058] | VSS[059] | AD16 |
| H21   | VSS[059] | VSS[060] | AD19 |
| J2    | VSS[060] | VSS[061] | AD22 |
| J5    | VSS[061] | VSS[062] | AD25 |
| J22   | VSS[062] | VSS[063] | AE1  |
| J25   | VSS[063] | VSS[064] | AE4  |
| K1    | VSS[064] | VSS[065] | AE8  |
| K4    | VSS[065] | VSS[066] | AE11 |
| K23   | VSS[066] | VSS[067] | AE14 |
| K26   | VSS[067] | VSS[068] | AE16 |
| L3    | VSS[068] | VSS[069] | AE19 |
| L6    | VSS[069] | VSS[070] | AE23 |
| L21   | VSS[070] | VSS[071] | A2   |
| L24   | VSS[071] | VSS[072] | AF6  |
| M2    | VSS[072] | VSS[073] | AF8  |
| M5    | VSS[073] | VSS[074] | AF11 |
| M22   | VSS[074] | VSS[075] | AF13 |
| M25   | VSS[075] | VSS[076] | AF16 |
| N1    | VSS[076] | VSS[077] | AF19 |
| N4    | VSS[077] | VSS[078] | AF21 |
| N23   | VSS[078] | VSS[079] | A25  |
| N26   | VSS[079] | VSS[080] | AF25 |
| P3    | VSS[080] | VSS[081] |      |
|       | VSS[081] | VSS[082] |      |



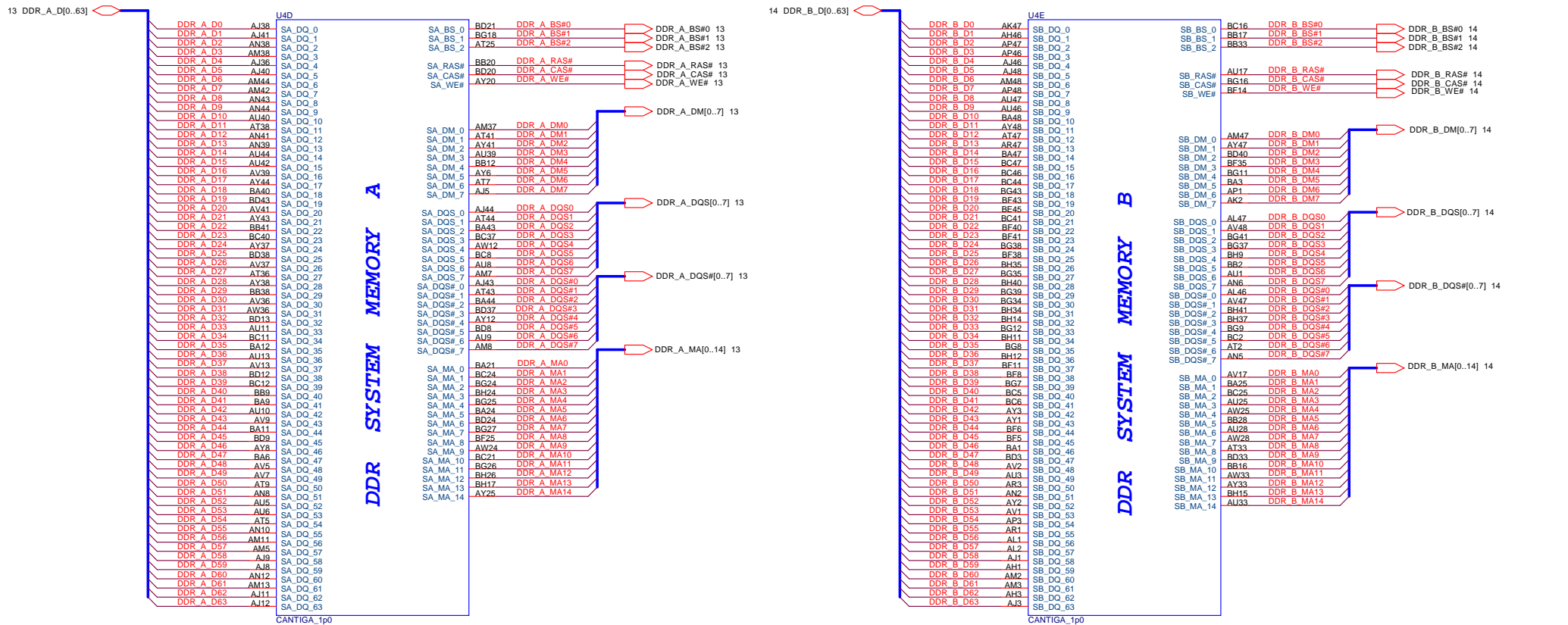
ESR <= 1.5m ohm  
Capacitor > 880 uF



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                             |                 |                           |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|-----------------|---------------------------|------------|
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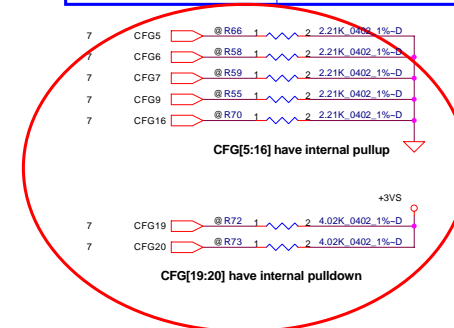


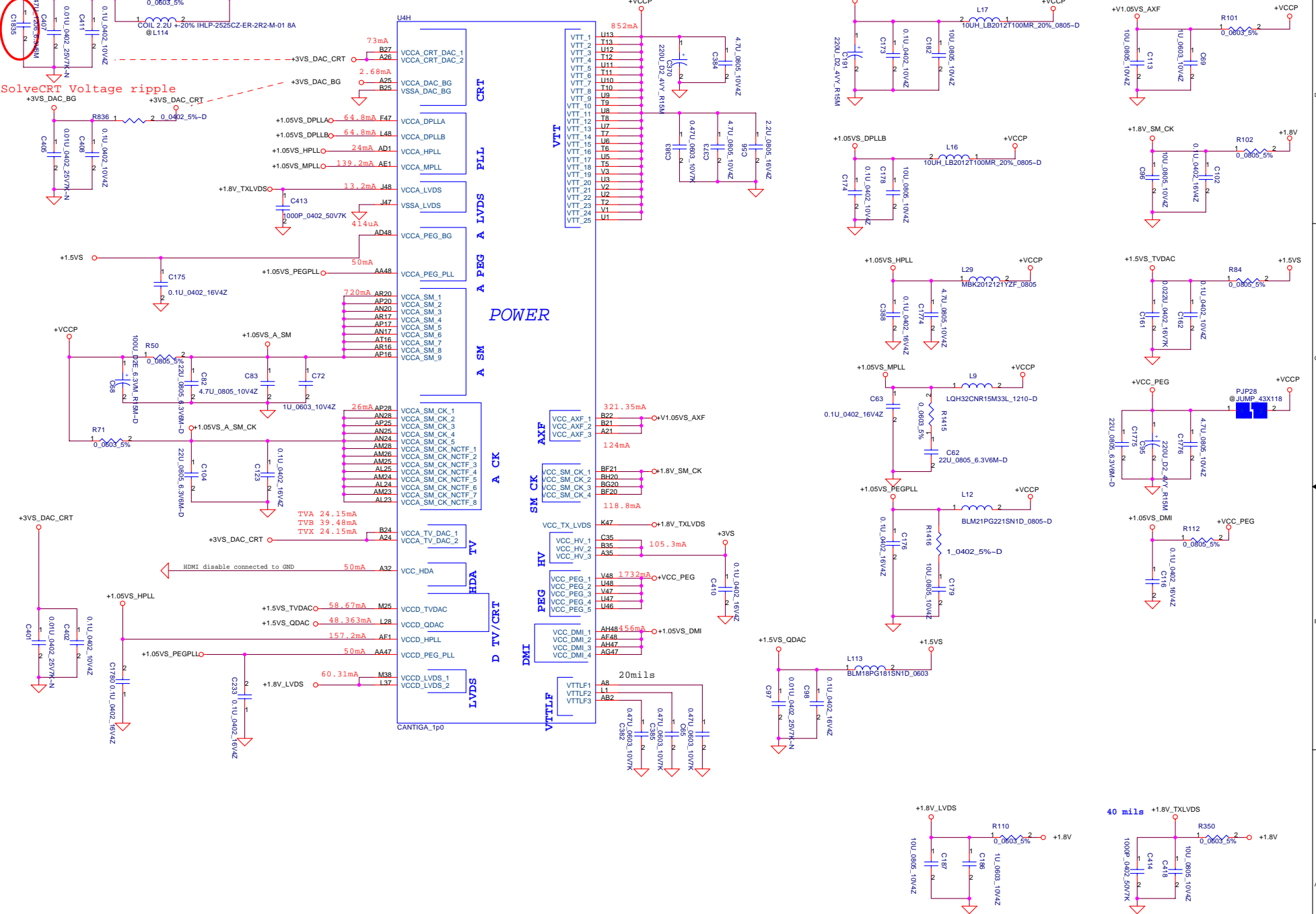
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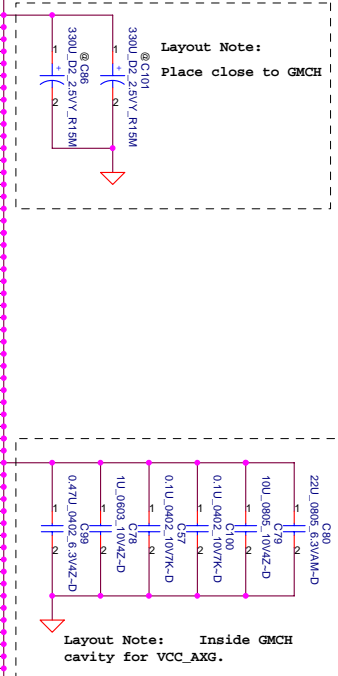
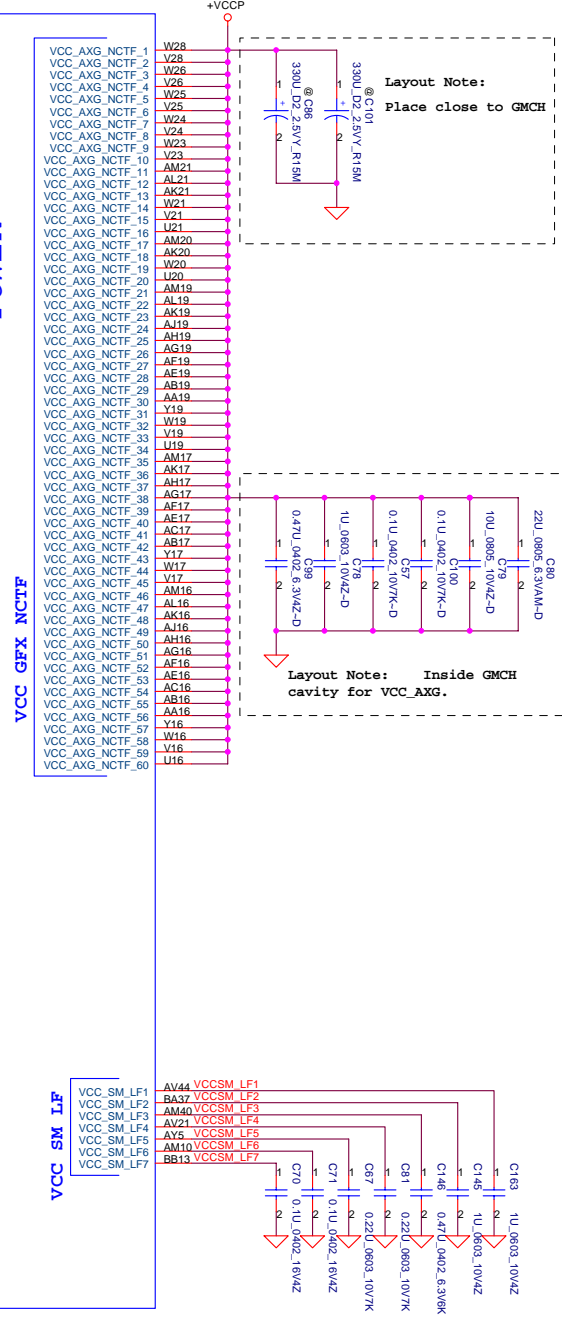
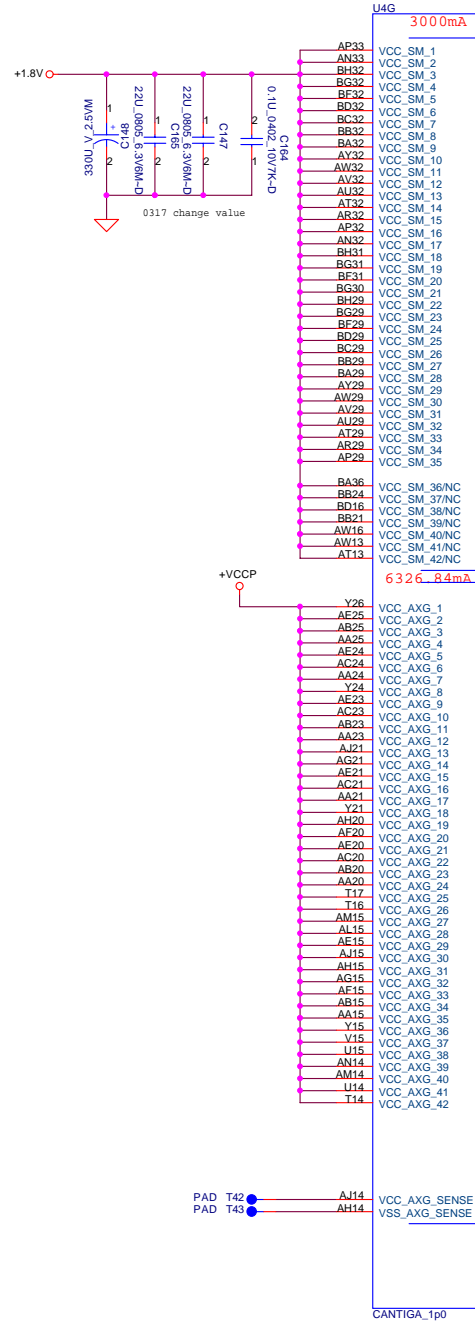
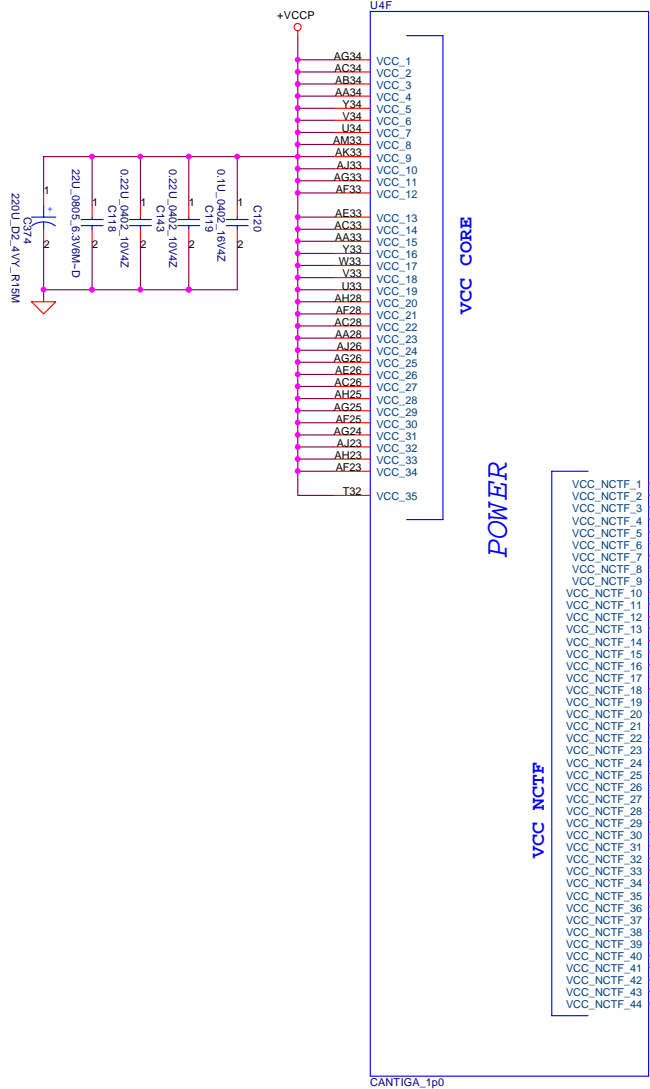
|                                             |                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|
| CFG[2:0] FSB Freq select                    | 000 = FSB 1066MHz<br>010 = FSB 800MHz<br>011 = FSB 667MHz<br>Others = Reserved                        |
| CFG[4:3]                                    | Reserved                                                                                              |
| CFG5 (DMI select)                           | 0 = DMI x 2<br>1 = DMI x 4 *                                                                          |
| CFG6                                        | 0 = The ITPM Host Interface is enable *<br>1 = The ITPM Host Interface is disable                     |
| CFG7 (Intel Management Engine Crypto strap) | 0=(TLS)chipser suite with no confidentiality<br>1=(TLS)chipser suite with confidentiality *           |
| CFG8                                        | Reserved                                                                                              |
| CFG9<br>(PCIe Graphics Lane Reversal)       | 0 = Reverse Lane,15->0, 14->1<br>1 = Normal Operation,Lane Number in order *                          |
| CFG10 (PCIe Lookback enable)                | 0 = Enable<br>1 = Disable *                                                                           |
| CFG11                                       | Reserved                                                                                              |
| CFG[13:12] (XOR/ALLZ)                       | 00 = Reserved<br>01 = XOR Mode Enabled<br>10 = All Z Mode Enabled<br>11 = Normal Operation(Default) * |
| CFG[15:14]                                  | Reserved                                                                                              |
| CFG16 (FSB Dynamic ODT)                     | 0 = Disabled<br>1 = Enabled *                                                                         |
| CFG[18:17]                                  | Reserved                                                                                              |
| CFG19 (DMI Lane Reversal)                   | 0 = Normal Operation *<br>(Lane number in Order)<br>1 = Reverse Lane                                  |
| CFG20 (PCIe/SDVO concurrent)                | 0 = Only PCIe or SDVO is operational. *<br>1 = PCIe/SDVO are operating simu.                          |



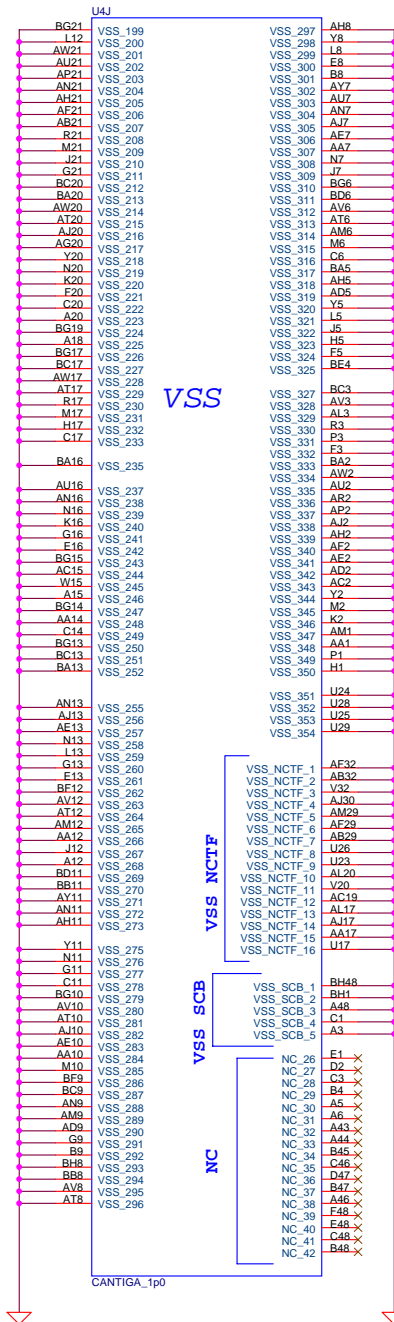
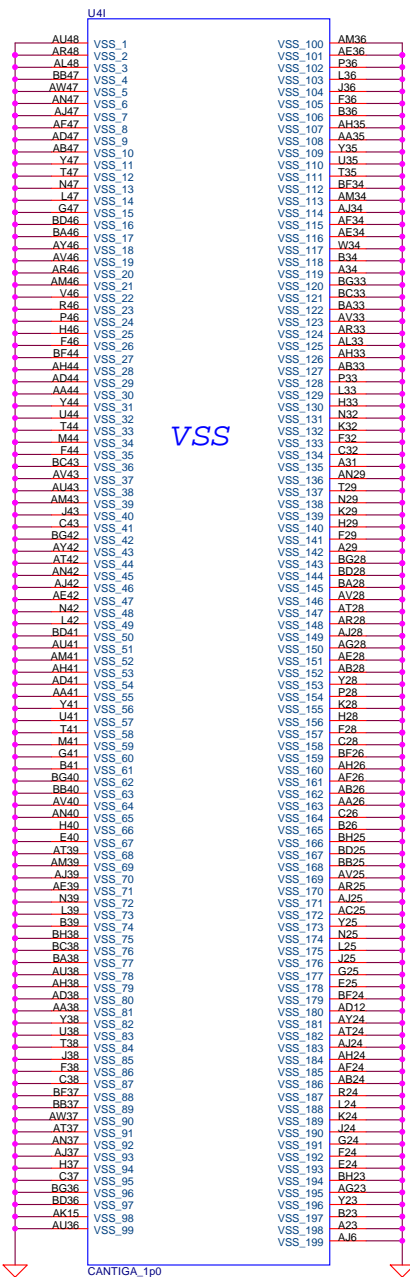


|                                                                                                                                                                                                                                                                                                                                   |  |                    |  |                                 |  |                             |  |       |
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| Issued Date                                                                                                                                                                                                                                                                                                                       |  | 2006/02/13         |  | Deciphered Date                 |  | 2006/03/10                  |  |       |
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|                                                                                                                                                                                                                                                                                                                                   |  |                    |  | <b>Cantiga(4/6)-PWR</b>         |  |                             |  |       |
|                                                                                                                                                                                                                                                                                                                                   |  |                    |  | Size                            |  | Document Number             |  | Rev   |
|                                                                                                                                                                                                                                                                                                                                   |  |                    |  | LA-4592P                        |  |                             |  | 0.2   |
|                                                                                                                                                                                                                                                                                                                                   |  |                    |  | Date:                           |  | Thursday, February 19, 2009 |  | Sheet |

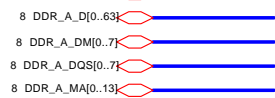
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integrated Graphic: 1930.4mA



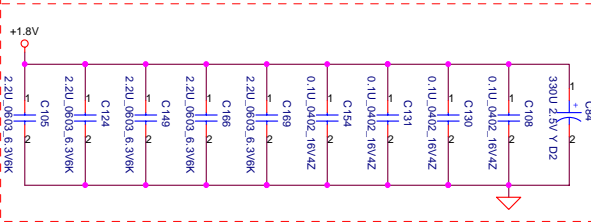
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|------------|-----------------------------|--|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | Compal Secret Data |            | Title                       |  |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2006/02/13      | Deciphered Date    | 2006/03/10 | Compal Electronics, Inc.    |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Document Number | Rev                |            | 0.2                         |  |
| Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LA-4592P        | Date:              |            | Thursday, February 19, 2009 |  |
| Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 11                 |            | of 43                       |  |



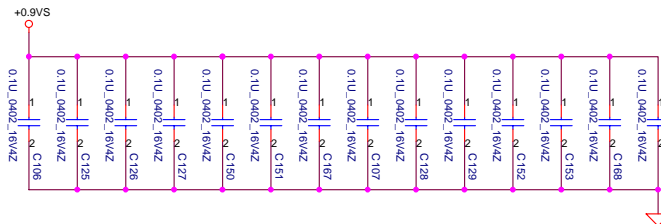
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | Compal Secret Data |            | Compal Electronics, Inc.    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|------------|-----------------------------|--|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2006/02/13      | Deciphered Date    | 2006/03/10 | Title                       |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Document Number | Rev                |            | 0.2                         |  |
| Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LA-4592P        | Date               |            | Thursday, February 19, 2009 |  |
| Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 12                 |            | of 43                       |  |



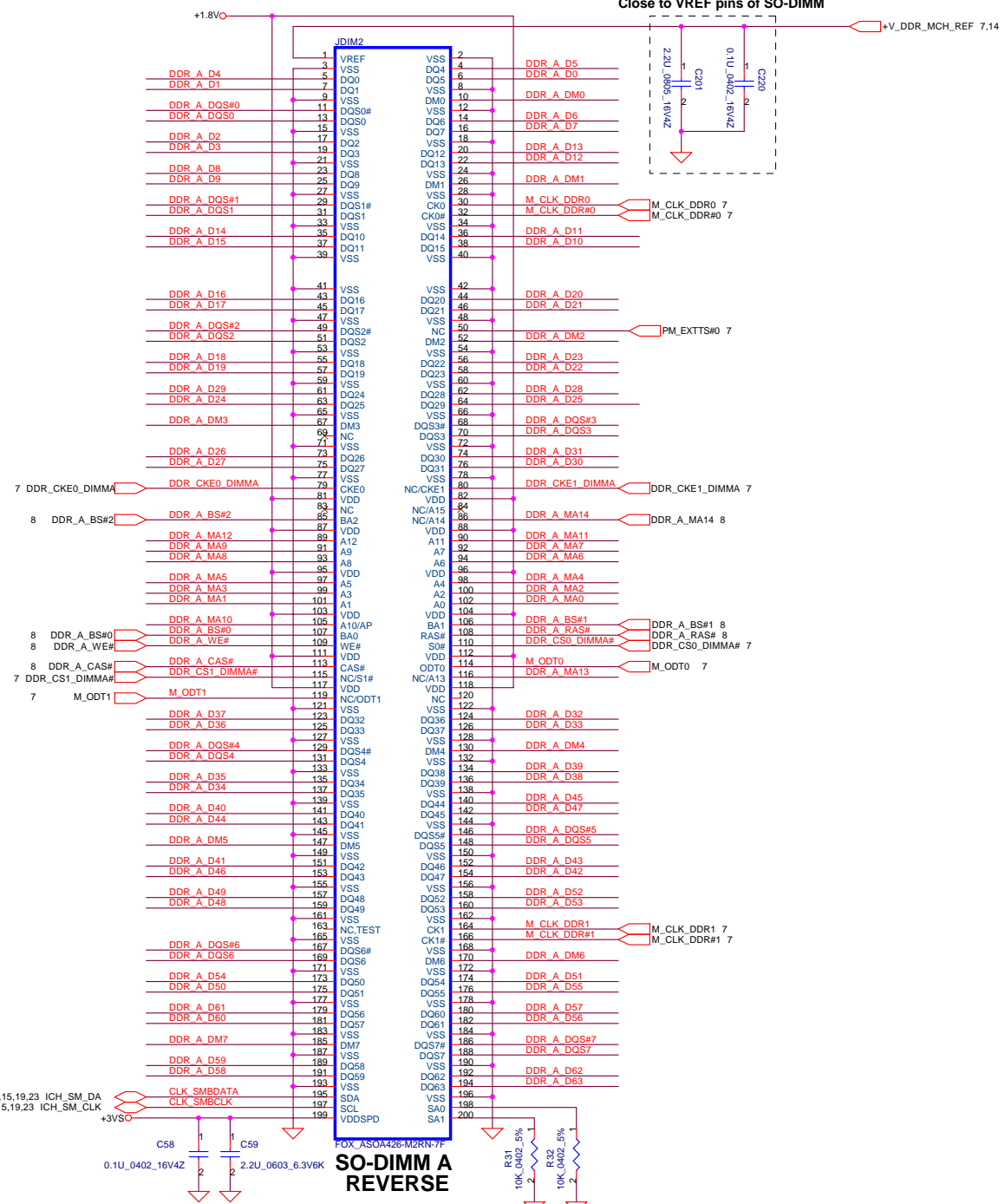
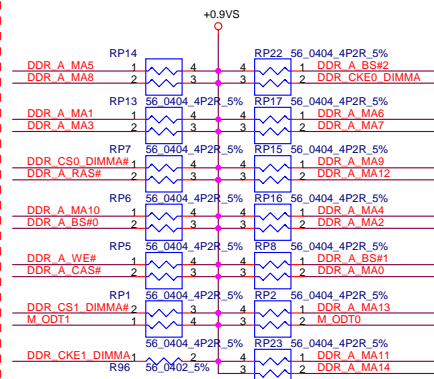
**Layout Note:**  
Place near JDIM1



**Layout Note:**  
Place one cap close to every 2 pullup resistors terminated to +0.9V

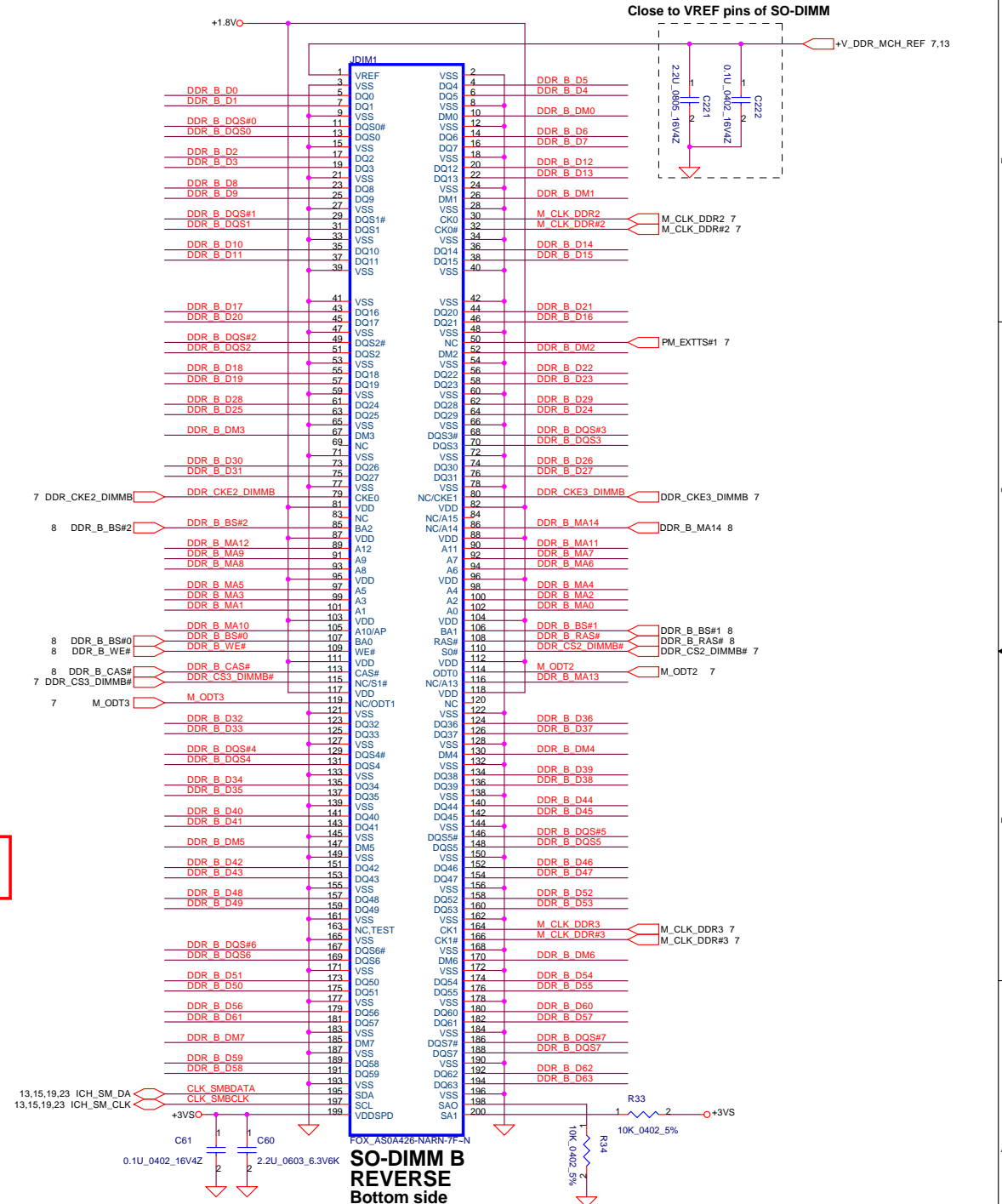
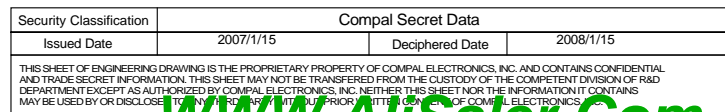
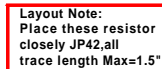
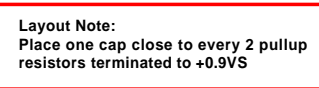


**Layout Note:**  
Place these resistor  
closely JP41,all  
trace length Max=1.5



**SO-DIMM A**  
**REVERSE**  
Bottom side

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |           |                                                          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|----------------------------------------------------------|----------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Compal Secret Data |           | <b>Compal Electronics, Inc.</b><br><b>DDR2 SO-DIMM I</b> |          |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2007/1/15 | Deciphered Date    | 2008/1/15 | Title                                                    |          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |           | Customer                                                 | 0.2      |
| Date: Thursday, February 19, 2009                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                    |           | Sheet                                                    | 13 of 43 |

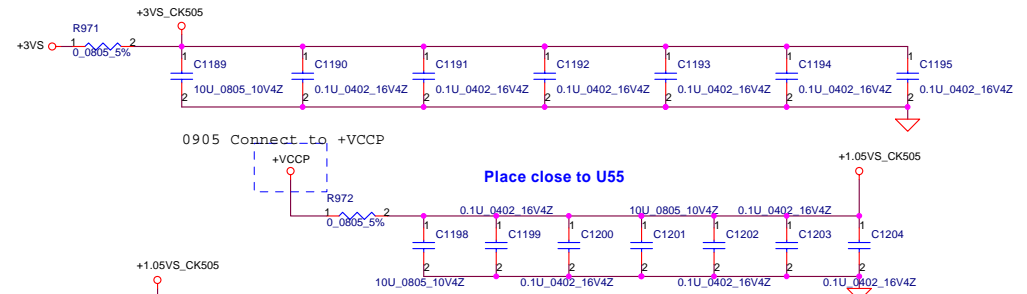
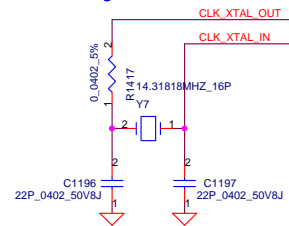


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                 |           |                                 |                 |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-----------|---------------------------------|-----------------|-----|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compal Secret Data          |                 |           | <i>Compal Electronics, Inc.</i> |                 |     |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2007/1/15                   | Deciphered Date | 2008/1/15 | Title<br><b>DDR2 SO-DIMM II</b> |                 |     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                 |           | Custom                          | LA-4592P        | 0.2 |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Thursday, February 10, 2005 | Sheet           | 14 of 43  |                                 |                 |     |

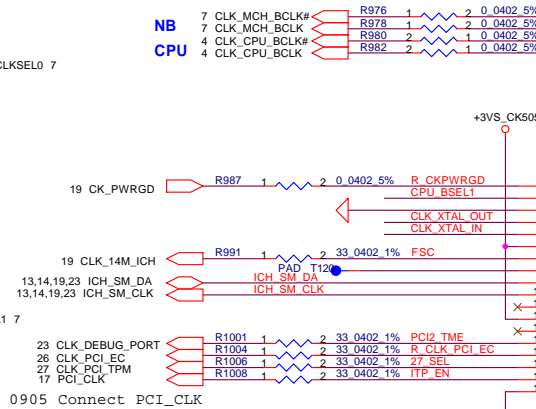


| FSC<br>CLKSEL2 | FSB<br>CLKSEL1 | FSA<br>CLKSEL0 | CPU<br>MHz | SRC<br>MHz | PCI<br>MHz | REF<br>MHz | DOT_96<br>MHz | USB<br>MHz |
|----------------|----------------|----------------|------------|------------|------------|------------|---------------|------------|
| 0              | 0              | 0              | 266        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 0              | 0              | 1              | 133        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 0              | 1              | 0              | 200        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 0              | 1              | 1              | 166        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 1              | 0              | 0              | 333        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 1              | 0              | 1              | 100        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 1              | 1              | 0              | 400        | 100        | 33.3       | 14.318     | 96.0          | 48.0       |
| 1              | 1              | 1              | Reserved   |            |            |            |               |            |

### Routing the trace at least 10mil



NB  
CPU



CardBus OZ888

Express Card

CPU\_STP

ICH\_SATA

GLAN

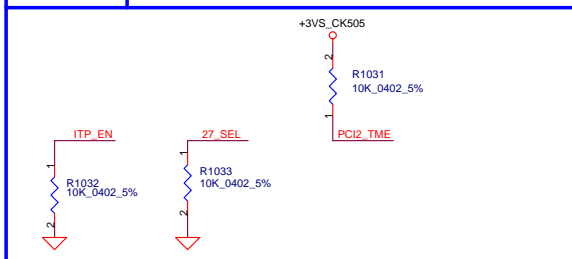
MiniCard WLAN

ICH9

NB\_3GPLL

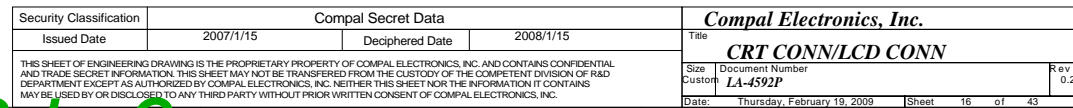
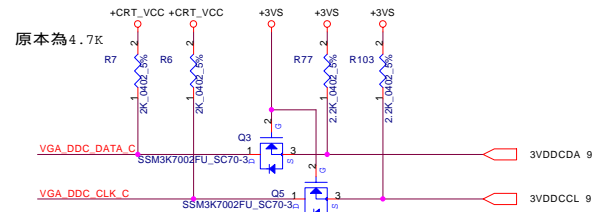
GMCH\_27M (UMA)

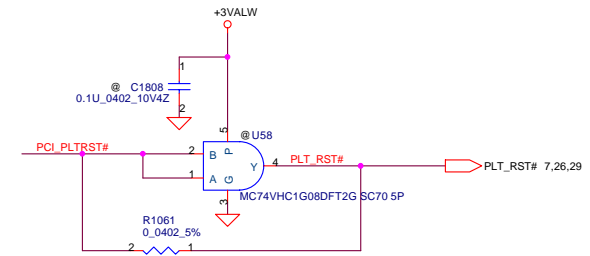
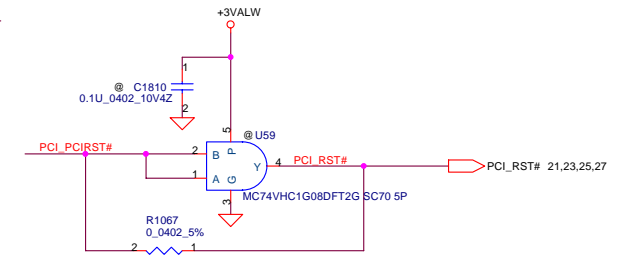
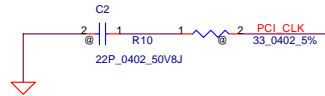
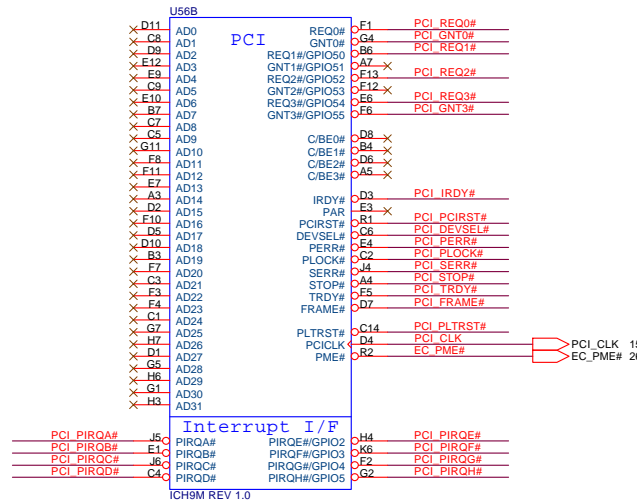
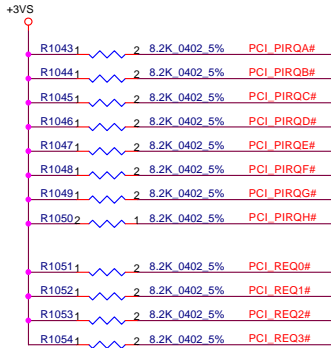
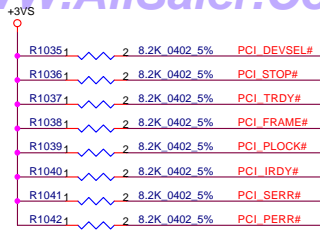
|          |                                                                                          |
|----------|------------------------------------------------------------------------------------------|
| ITP_EN   | * 0 = SRC8/SRC8#<br>1 = ITP/ITP#                                                         |
| 27_SEL   | * 0 = Enable DOT96 & SRC1(UMA)<br>1 = Enable SRC0 & 27MHz(DIS)                           |
| PCI2_TME | 0 = Overclocking of CPU and SRC Allowed<br>* 1 = Overclocking of CPU and SRC NOT allowed |



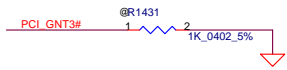
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Compal Secret Data |                 | Title      |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------|--------------------------|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2006/02/13         | Deciphered Date | 2006/03/10 | Compal Electronics, Inc. |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                 |            | Document Number          |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                 |            | Rev                      |
| Thursday, February 19, 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                 |            | 0.2                      |
| Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                 |            | 15 of 43                 |



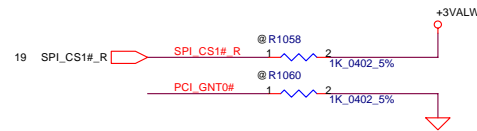




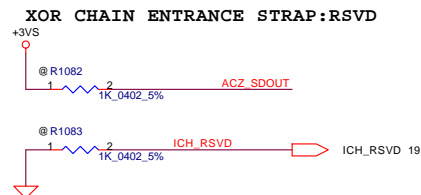
| A16 swap override Strap |                                                  |
|-------------------------|--------------------------------------------------|
| PCI_GNT3#               | Low= A16 swap override Enable<br>High= Default * |



| Boot BIOS Strap |          |                    |
|-----------------|----------|--------------------|
| PCI_GNT0#       | SPI_CS#1 | Boot BIOS Location |
| 0               | 1        | SPI                |
| 1               | 0        | PCI                |
| 1               | 1        | LPC *              |

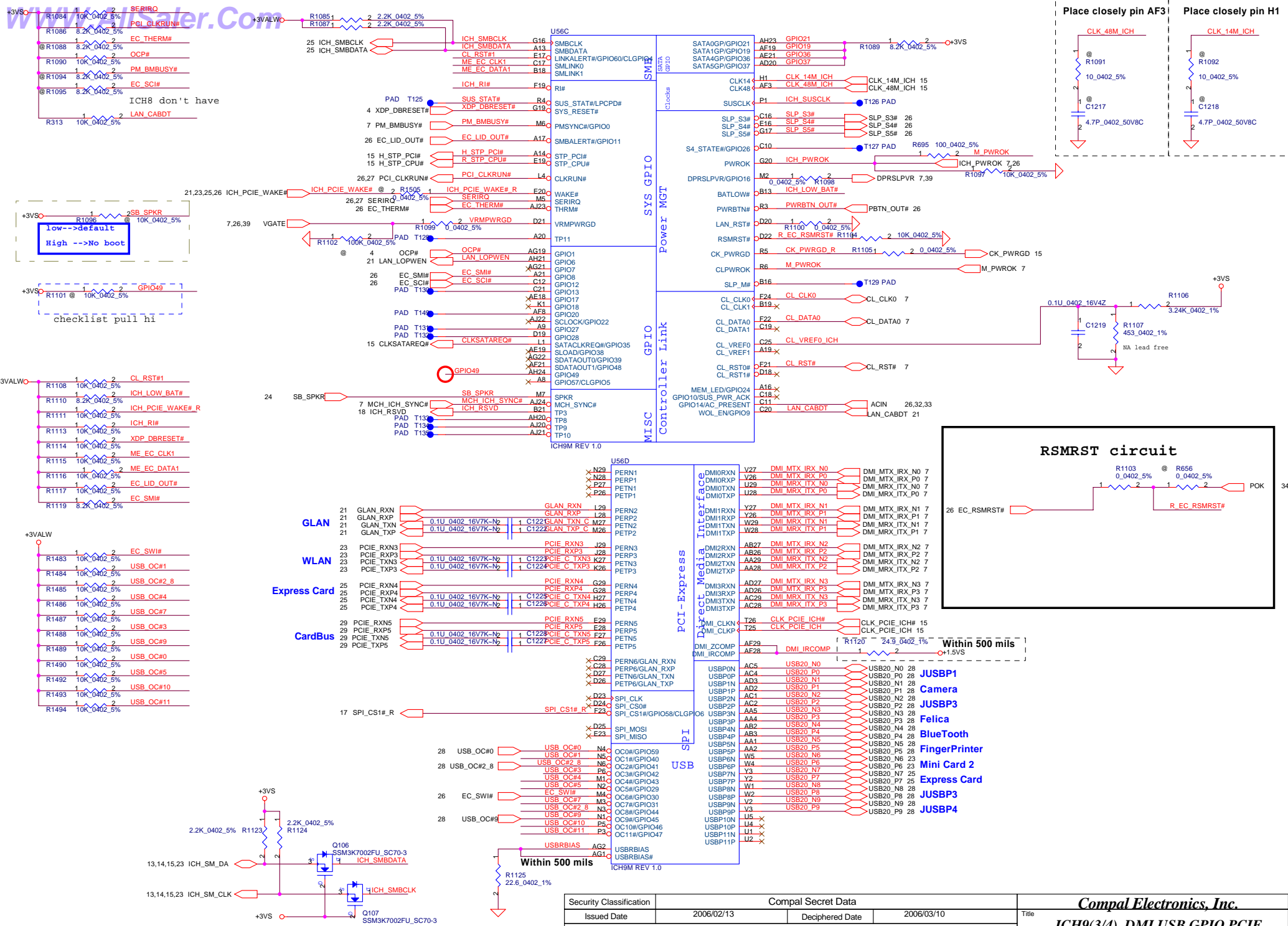


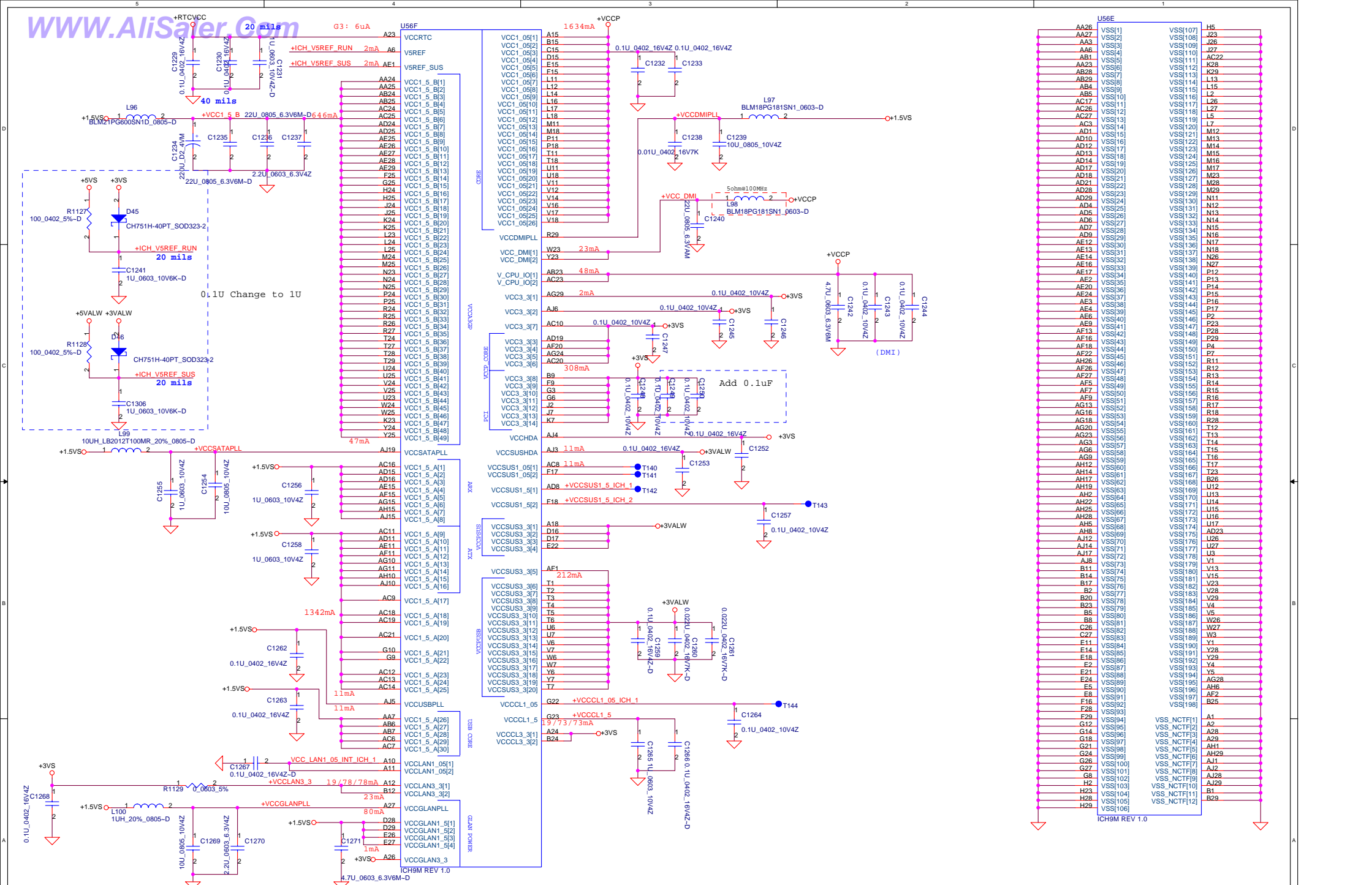
| Security Classification |  |            |  | Compal Secret Data |  |            | Compal Electronics, Inc. |                                   |  |
|-------------------------|--|------------|--|--------------------|--|------------|--------------------------|-----------------------------------|--|
| Issued Date             |  | 2006/02/13 |  | Deciphered Date    |  | 2006/03/10 |                          | Title                             |  |
|                         |  |            |  |                    |  |            |                          | LA-4592P                          |  |
|                         |  |            |  |                    |  |            |                          | Rev 0.2                           |  |
|                         |  |            |  |                    |  |            |                          | Date: Thursday, February 19, 2009 |  |
|                         |  |            |  |                    |  |            |                          | Sheet 17 of 43                    |  |



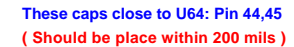
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| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compal Secret Data |                 |            | <b>Compal Electronics, Inc.</b><br><b>ICH9(4/4) POWER&amp;GND</b> |                             |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                 |            | Date:                                                             | Thursday, February 19, 2009 | Sheet 20 of 43 |



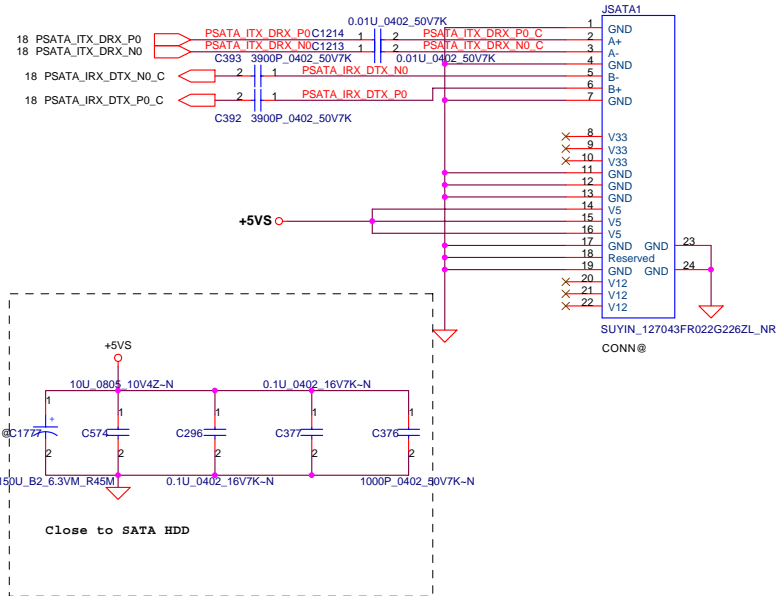
**Compal Electronics, Inc.**

### Gigabit LAN RTL8111C

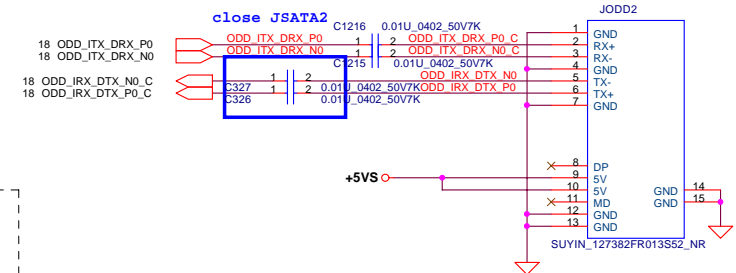
Document Number  
**LA-4592P**

|       |                             |       |    |    |    |
|-------|-----------------------------|-------|----|----|----|
| Date: | Thursday, February 19, 2009 | Sheet | 21 | of | 43 |
|-------|-----------------------------|-------|----|----|----|





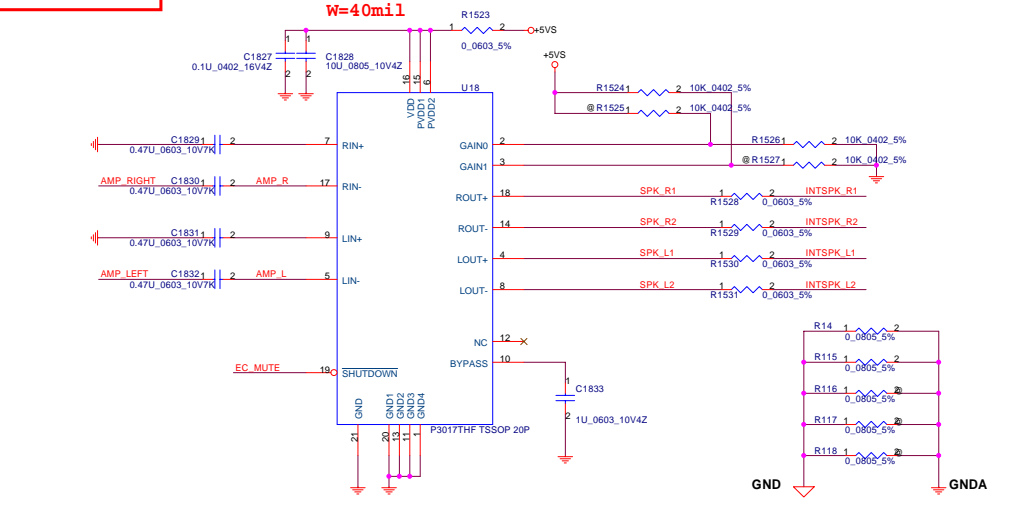
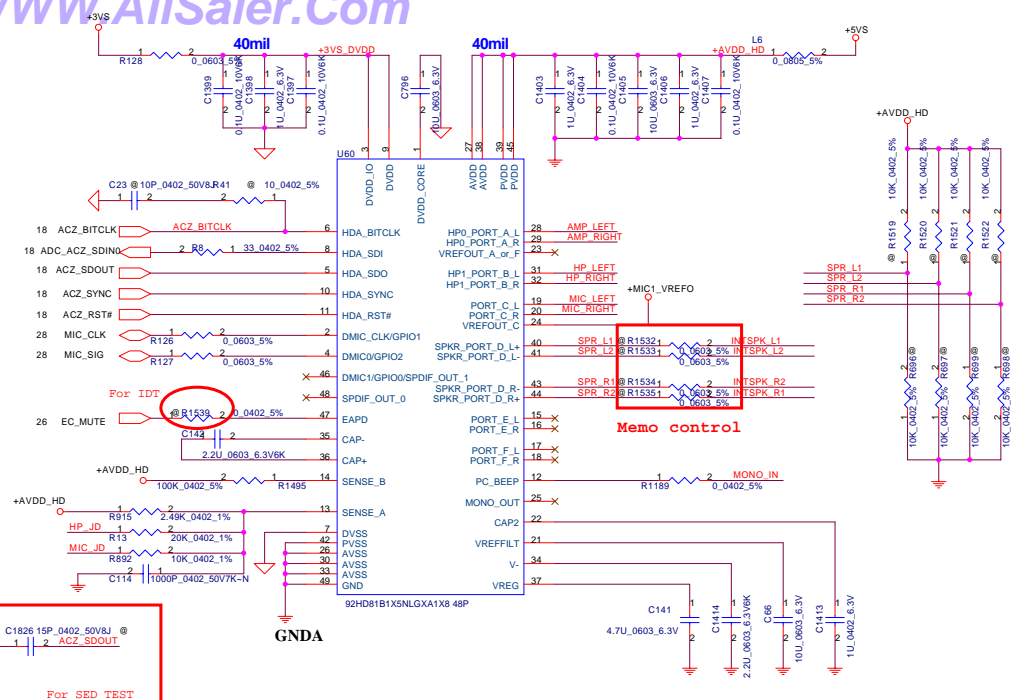
## SATA ODD CONN



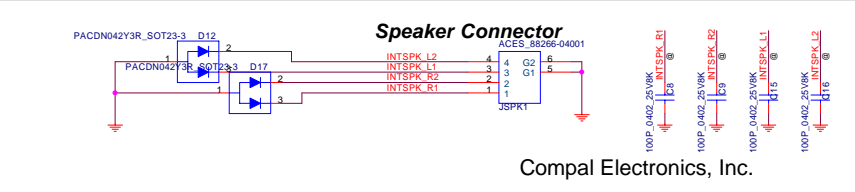
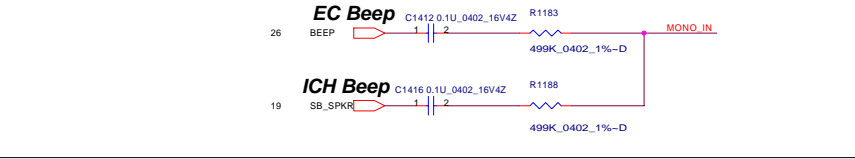
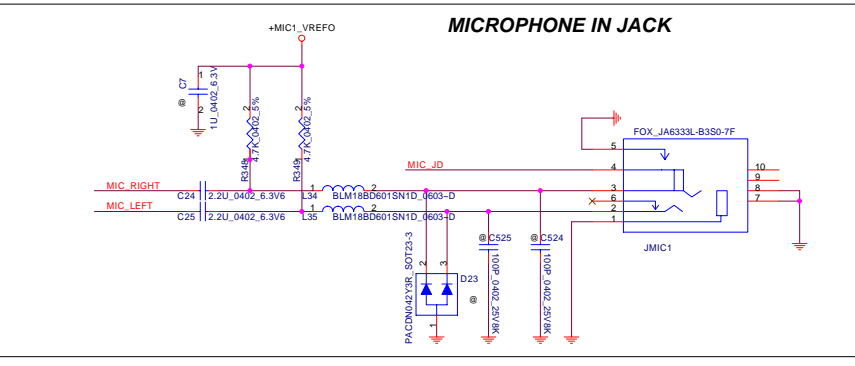
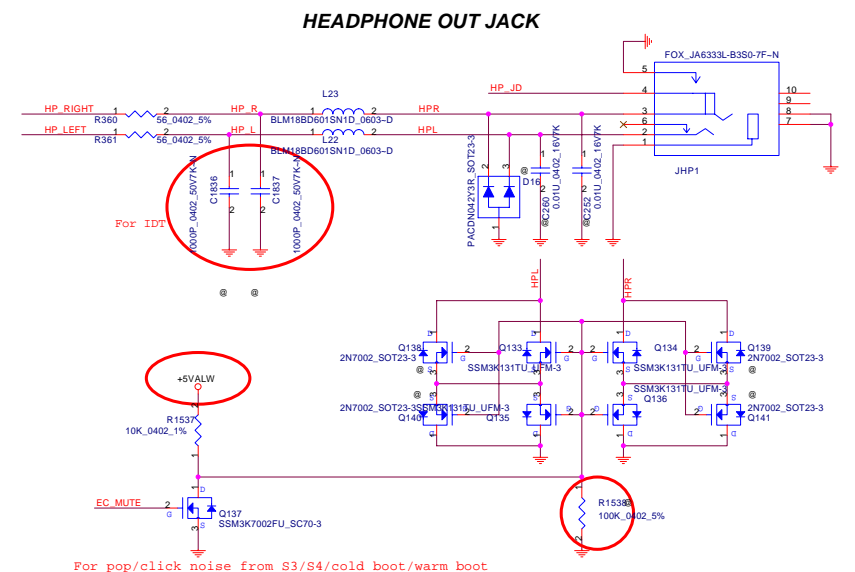
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                 |           |                          |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-----------|--------------------------|-----------------------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                          | Compal Secret Data |                 |           | Compal Electronics, Inc. |                             |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2007/1/15          | Deciphered Date | 2008/1/15 | Title                    | HDD/CDROM                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                 |           | Date                     | Thursday, February 19, 2009 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                 |           | Sheet                    | 22 of 43                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                 |           | Rev                      | 0.2                         |



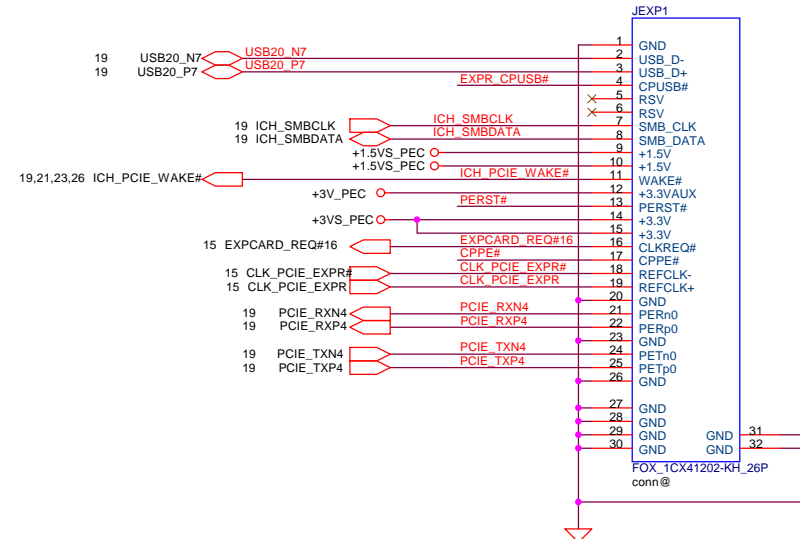




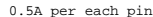
| GAIN0 | GAIN1 | GAIN   |
|-------|-------|--------|
| 0     | 0     | 6dB    |
| 0     | 1     | 10dB   |
| 1     | 0     | 15.6dB |
| 1     | 1     | 21.6dB |



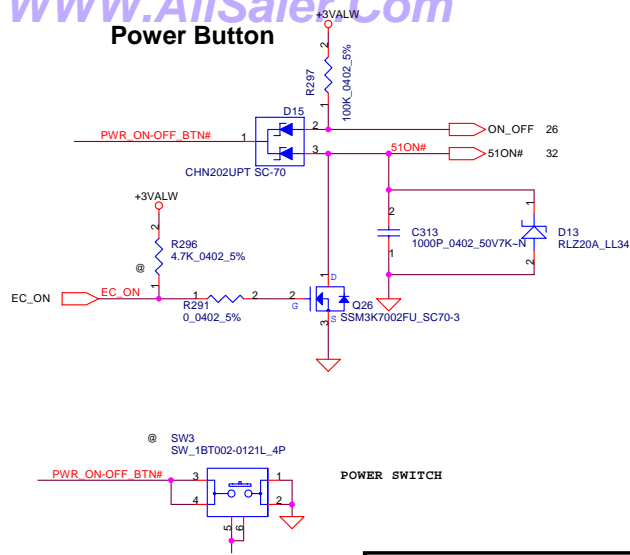
Compal Electronics, Inc.



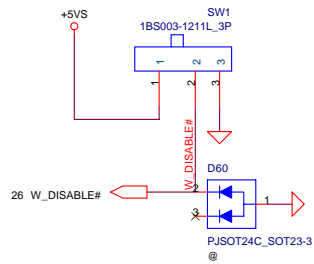
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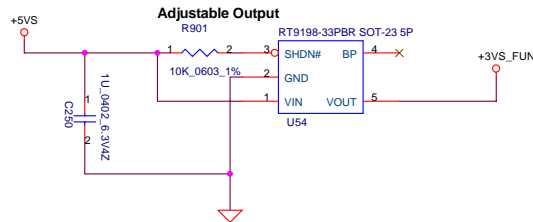
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                 |           |                                        |                 |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-----------|----------------------------------------|-----------------|------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                       | Compal Secret Data |                 |           | <b>Compal Electronics, Inc.</b>        |                 |            |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2007/1/15          | Deciphered Date | 2008/1/15 | Title<br><b>BIOS &amp; EC I/O Port</b> |                 |            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                 |           |                                        | <b>LA-4592P</b> | <b>0.2</b> |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                 |           | Thursday, February 19, 2009            | Sheet           | 26 of 43   |



### Wireless\_BTN

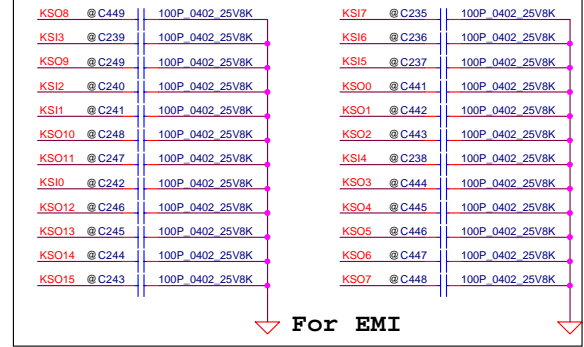
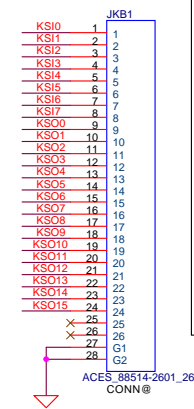


### Regulator for ENE sensor



### INT\_KBD CONN.

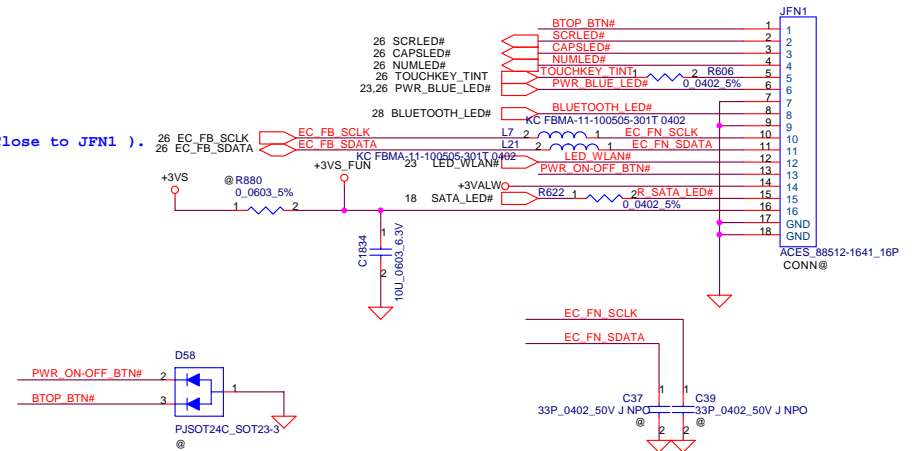
26 KSI[0..7] ← KSI[0..7]  
26 KSO[0..15] ← KSO[0..15]



For EMI

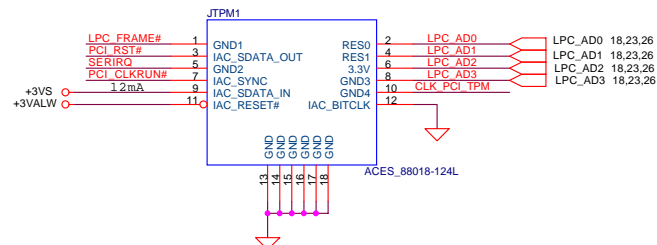
### Function/B CONN.

For ENE ( Close to JFN1 ).



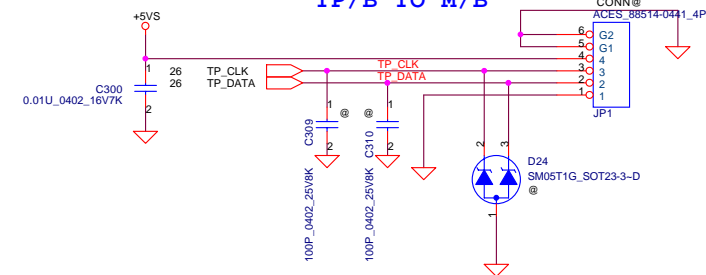
### TPM 1.2

18,23,26 LPC\_FRAME# → LPC\_FRAME#  
17,21,23,25 PCI\_RST# → PCI\_RST#  
19,26 SERIRO → SERIRO  
15 CLK\_PCL\_TPM → CLK\_PCL\_TPM  
19,26 PCI\_CLKRUN# → PCI\_CLKRUN#

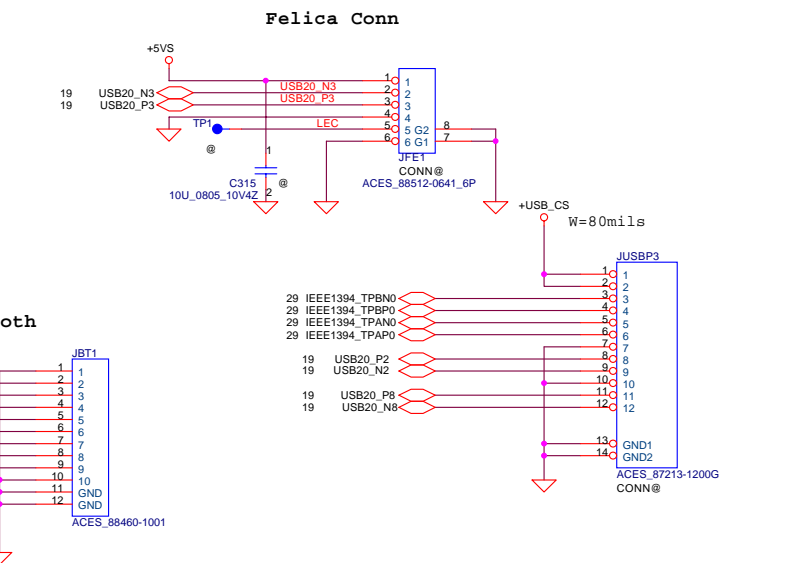
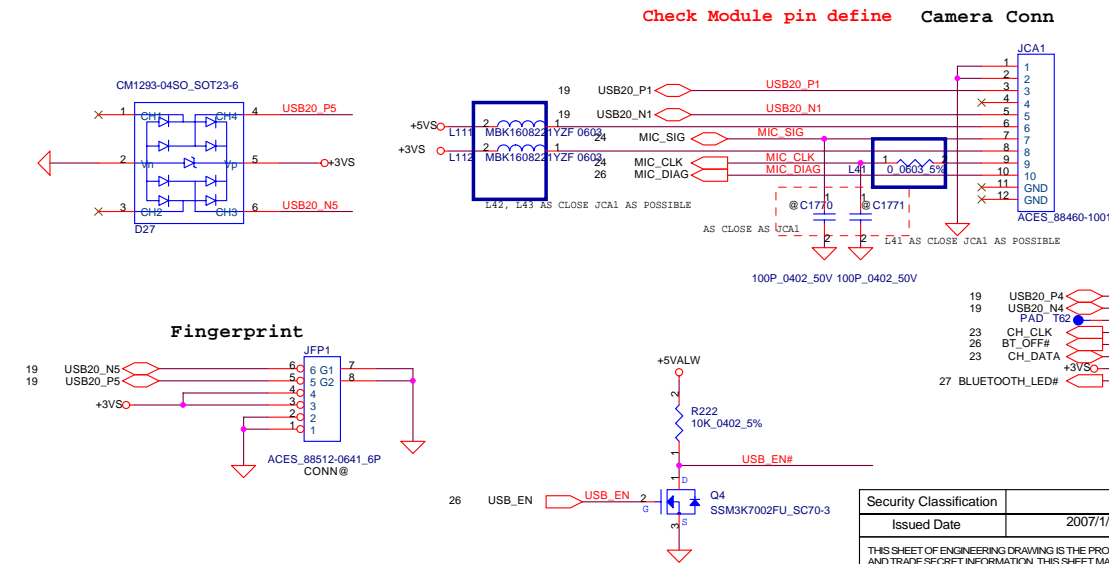
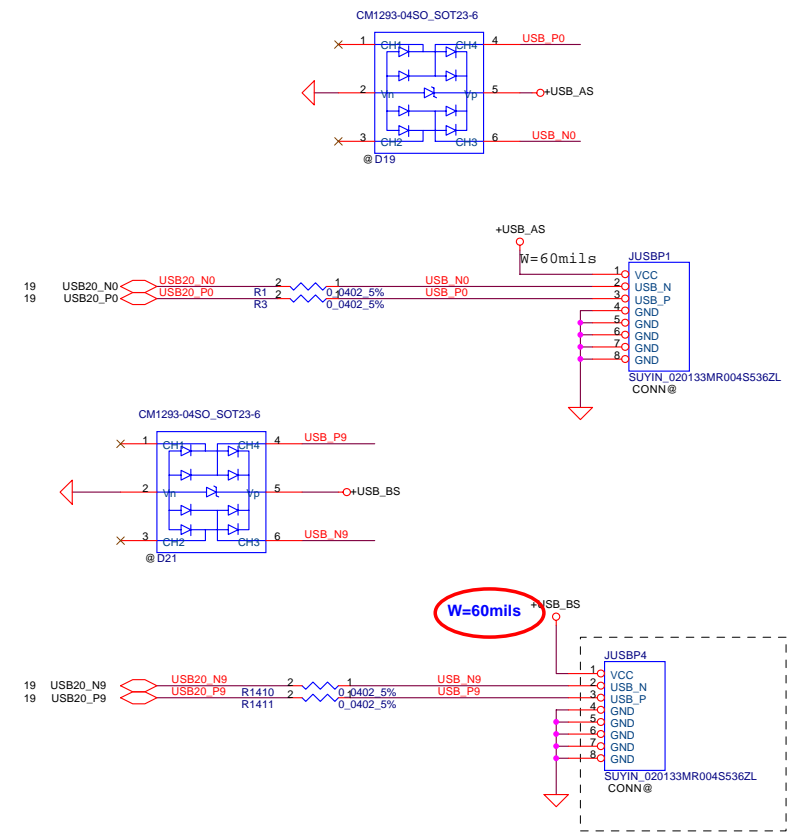
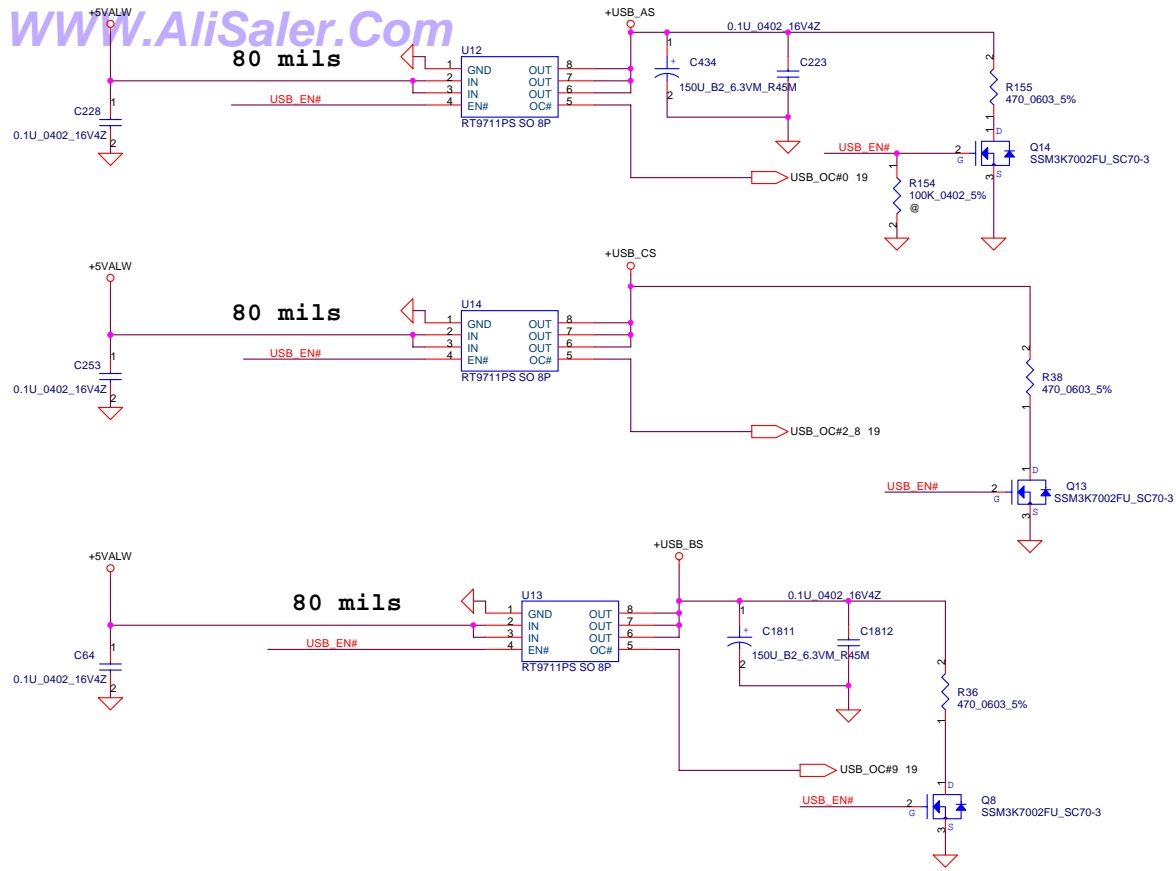


### Touch PAD/B CONN.

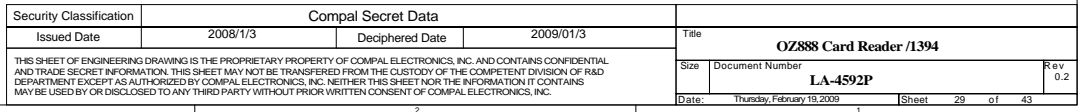
TP/B TO M/B



| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | Compal Secret Data |           | Compal Electronics, Inc.    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|-----------|-----------------------------|--|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2007/1/15       | Deciphered Date    | 2008/1/15 | Title                       |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Document Number | Rev                |           | 0.2                         |  |
| Customer                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LA-4592P        | Date               |           | Thursday, February 19, 2009 |  |
| Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 27              | of                 |           | 43                          |  |

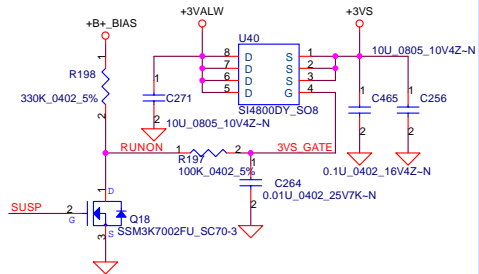


| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                             |  | Compal Secret Data |  |           |  | Compal Electronics, Inc. |  |  |  |
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| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 2007/1/15                   |  | Deciphered Date    |  | 2008/1/15 |  | Title                    |  |  |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Document Number             |  | Customer           |  | Rev       |  |                          |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | LA-4592P                    |  |                    |  | 0.2       |  |                          |  |  |  |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Thursday, February 19, 2009 |  | Sheet              |  | 28        |  | of 43                    |  |  |  |

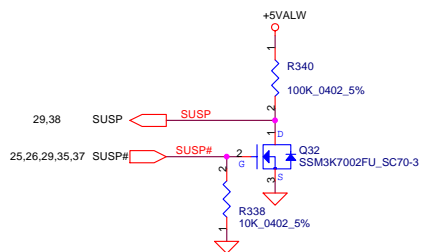
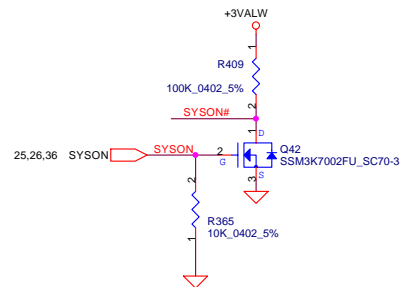
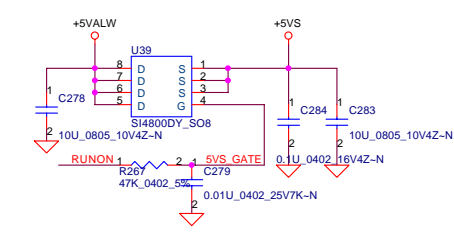




## +3VALW to +3VS Transfer

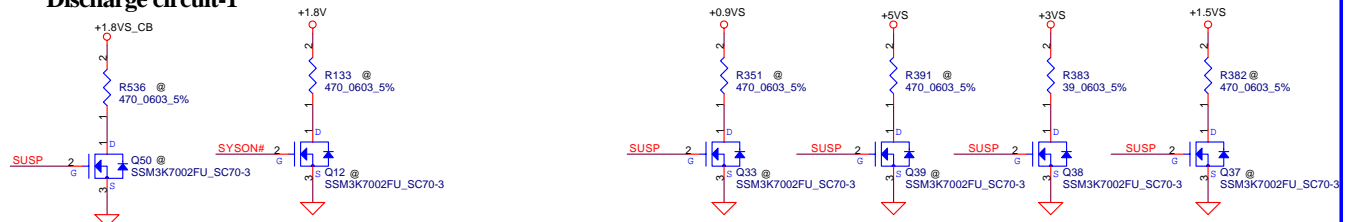


## +5VALW to +5VS Transfer

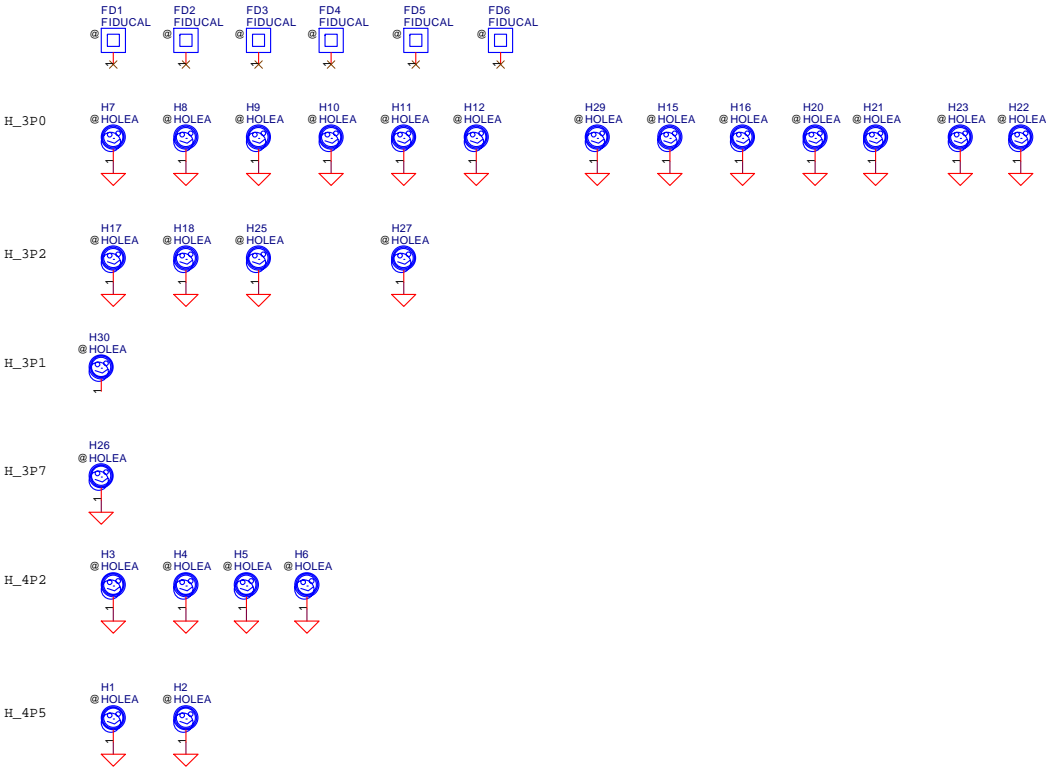


## VGA Discharge circuit

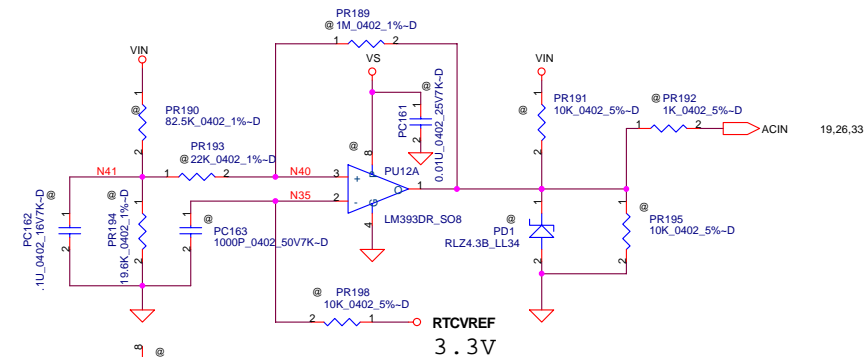
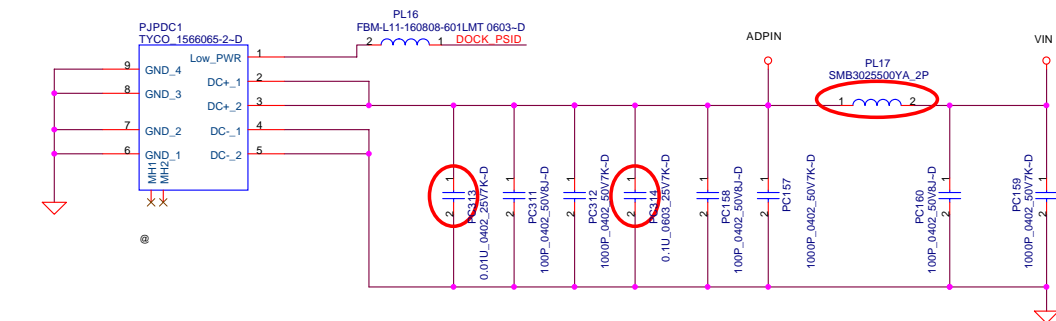
### Discharge circuit-1



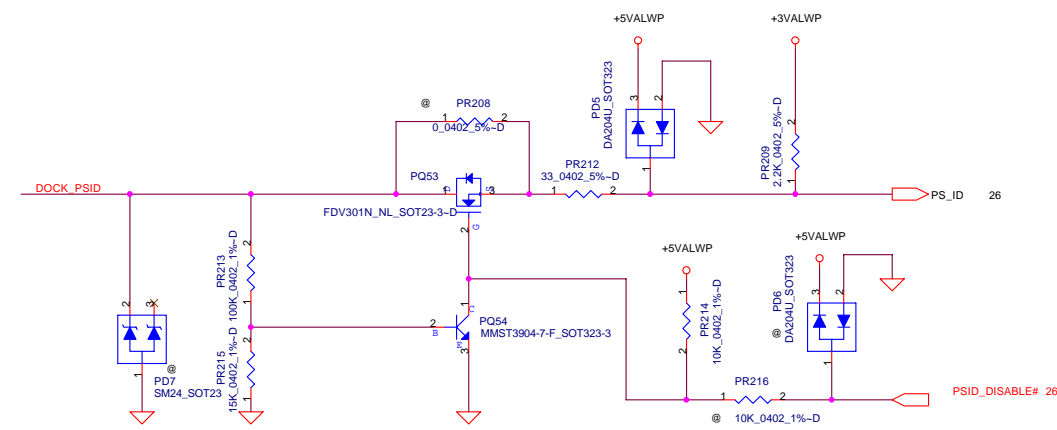
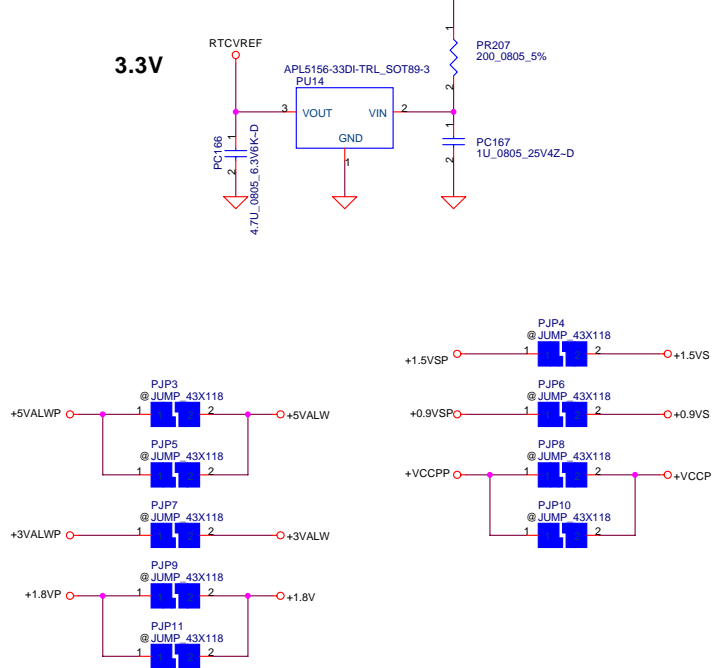
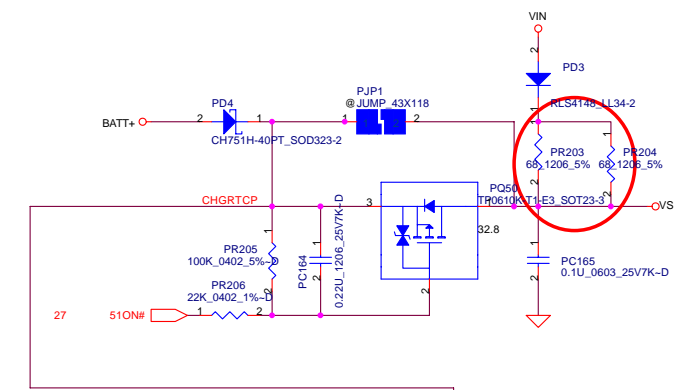
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                    | Compal Secret Data |                 | Compal Electronics, Inc.    |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-----------------------------|----------------|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2007/1/15          | Deciphered Date | 2008/1/15                   | Title          |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Document Number    | Rev             | Date                        |                |
| Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LA-4592P           | 0.2             | Thursday, February 19, 2009 |                |
| Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | 30              | of                          |                |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    | 43              |                             |                |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          |        |                             |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-----------------|--------------------------|--------|-----------------------------|----------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Compal Secret Data |                 | Compal Electronics, Inc. |        |                             |                |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 2007/1/15          | Deciphered Date | 2008/1/15                | Title  |                             |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          | Size   | Document Number             | Rev            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          | Custom | LA-4592P                    | 0.2            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          | Date:  | Thursday, February 19, 2009 | Sheet 31 of 43 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          |        |                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          |        |                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          |        |                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                    |                 |                          |        |                             |                |
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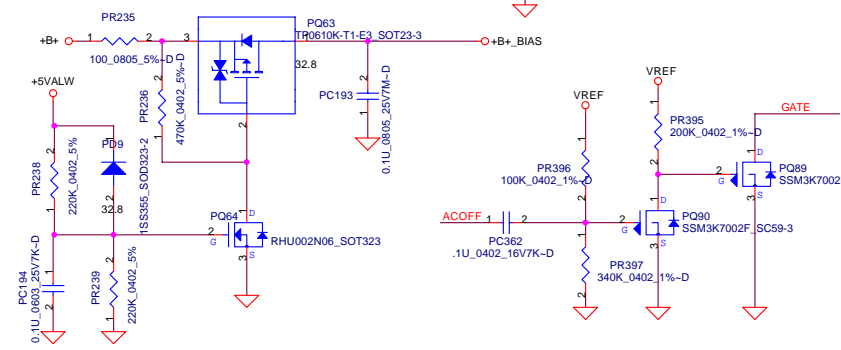
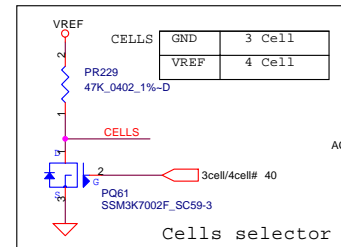


| Vin Detector |        |        |        |
|--------------|--------|--------|--------|
|              | Max.   | typ.   | Min.   |
| L-->H        | 18.234 | 17.841 | 17.449 |
| H-->L        | 17.597 | 17.210 | 16.813 |

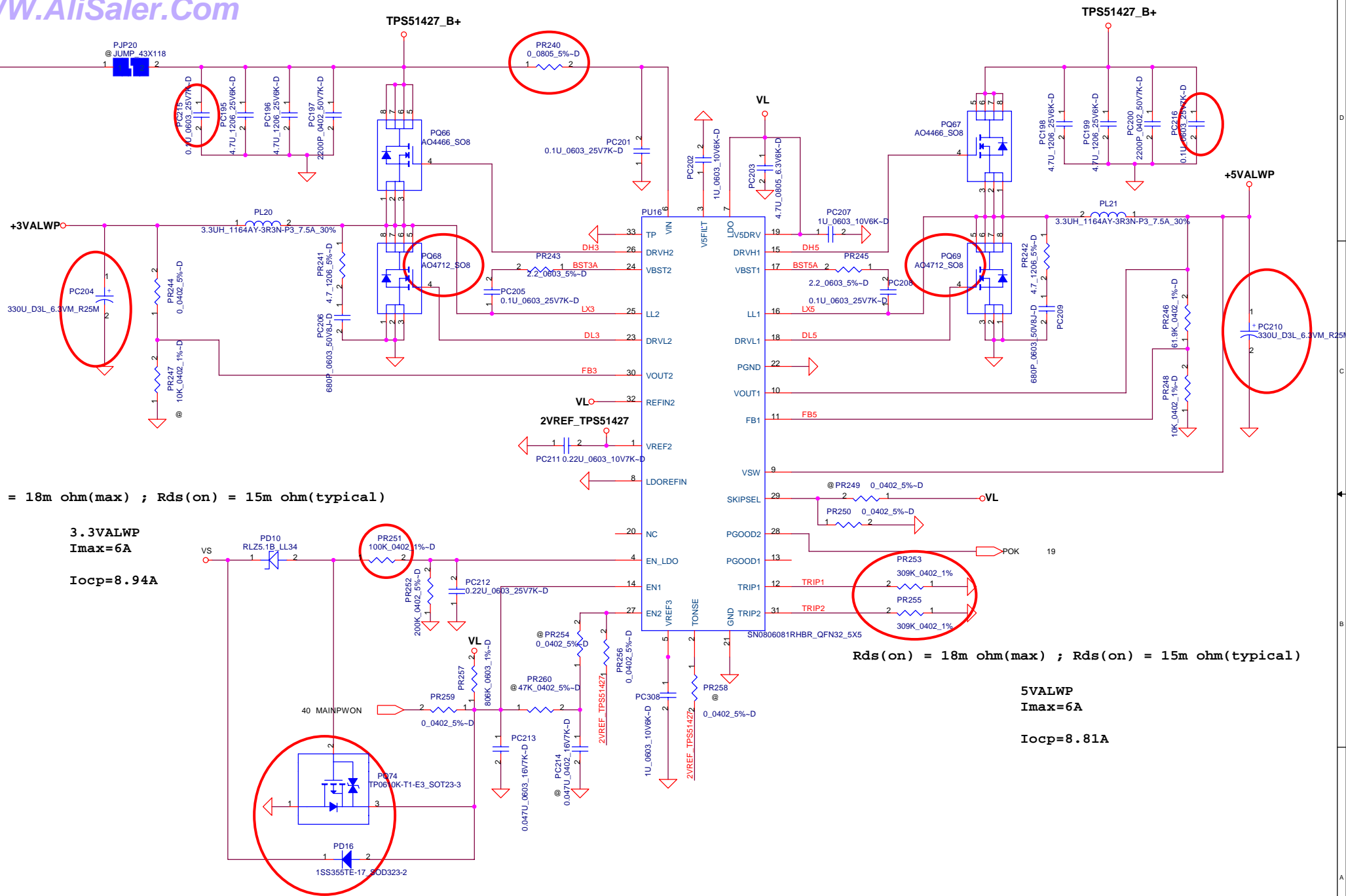


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                             |  |                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|---------------------------|--|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Compal Secret Data          |  |                           |  |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 2006/10/1                   |  | Deciphered Date 2007/5/01 |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                             |  | DCIN / Vin Detector       |  |
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Document Number             |  | Rev                       |  |
| Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | LA-4596P                    |  | 0.2                       |  |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Thursday, February 19, 2009 |  | Sheet 32 of 43            |  |

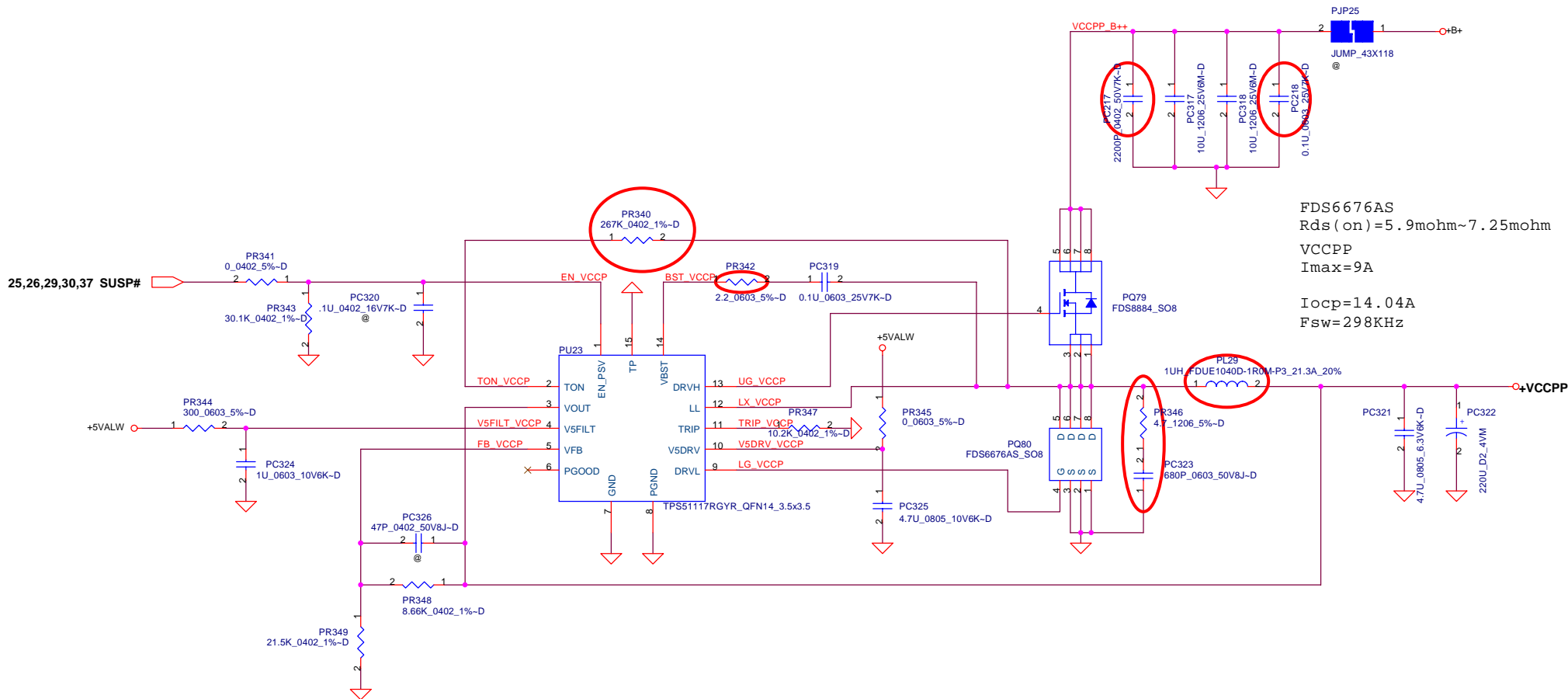
90W adapter  
 $I_{charge} = (V_{srset}/V_{vdac}) * (0.1/PR34) = 3.34A$   
 $I_{adapter} = (V_{acset}/V_{vdac}) * (0.1/PR17) = 3.1A$   
 Input OVP : 22.3V  
 Input UVP : 16.98V  
 Fsw : 300KHz



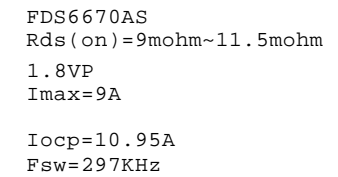
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             | Compal Secret Data |           | Compal Electronics, Inc. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|-----------|--------------------------|--|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2006/10/1                   | Deciphered Date    | 2007/5/01 | Title                    |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Document Number             | KML50              |           | Rev                      |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                    |           | 0.2                      |  |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Thursday, February 19, 2009 | Sheet              | 33        | of 43                    |  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                             |            |                          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------|------------|--------------------------|--|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Compal Secret Data          |            | Compal Electronics, Inc. |  |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2006/10/1 | Deciphered Date             | 2007/05/30 | Title                    |  |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Custom    | Document Number             | LA-4596P   | Rev                      |  |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Thursday, February 19, 2009 |            | Sheet 34 of 43           |  |

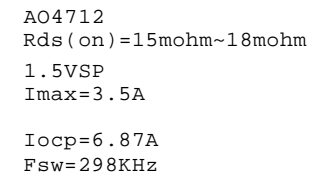


|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                    |          |                          |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|----------|--------------------------|-----------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | Compal Secret Data |          | Compal Electronics, Inc. |                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                    |          | Rev                      | 0.1             |
| Date: Thursday, February 19, 2009                                                                                                                                                                                                                                                                                                                                                                                                                          |          | Sheet 35 of 43     |          |                          |                 |

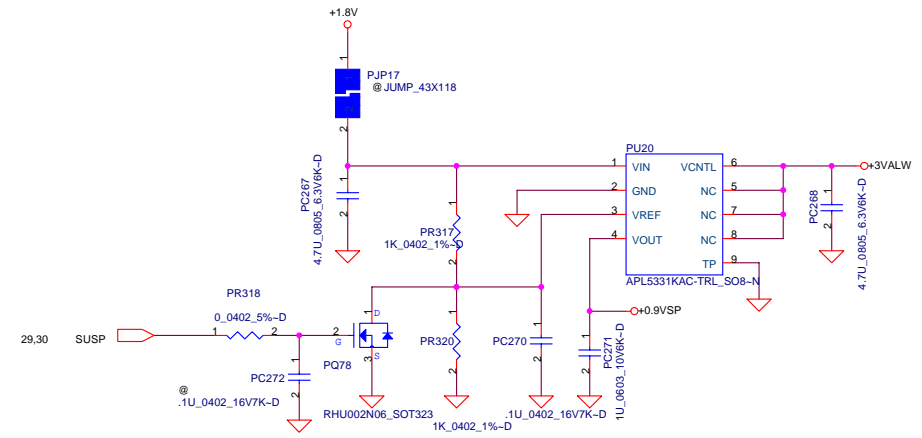


|       |                             |       |    |    |    |
|-------|-----------------------------|-------|----|----|----|
| Date: | Thursday, February 19, 2009 | Sheet | 36 | of | 43 |
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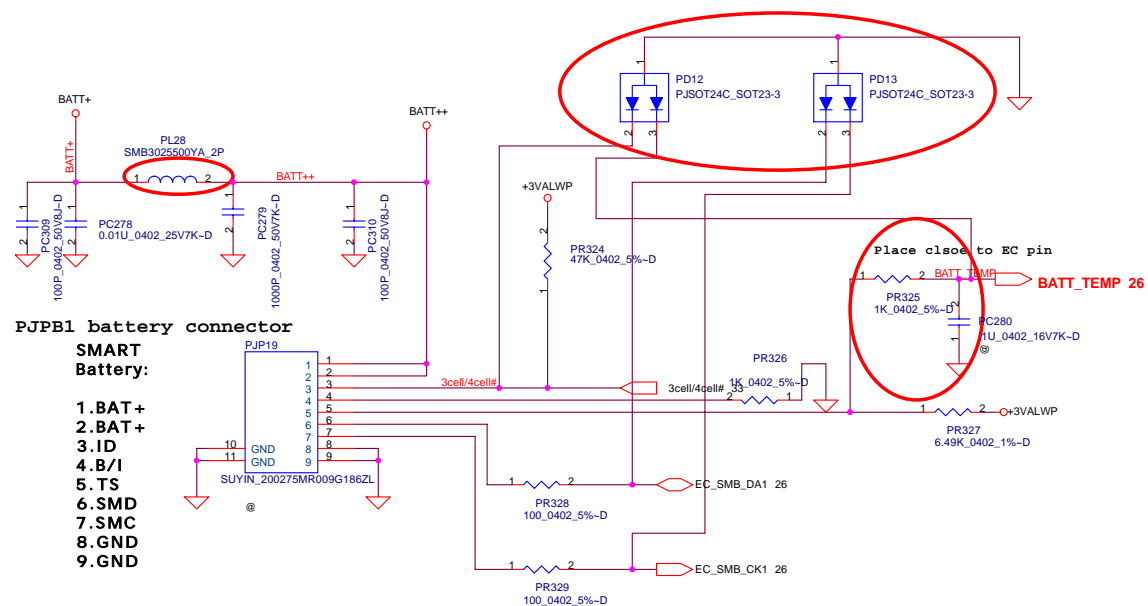
|       |                             |       |    |    |    |
|-------|-----------------------------|-------|----|----|----|
| Date: | Thursday, February 19, 2009 | Sheet | 37 | of | 43 |
|-------|-----------------------------|-------|----|----|----|



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |            |                          |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|------------|--------------------------|-----------------------------|
| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Compal Secret Data |            | Compal Electronics, Inc. |                             |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2005/10/1 | Deciphered Date    | 2007/05/30 | Title                    |                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |            | Custom                   | 0.2                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |            | Document Number          | LA-4596P                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |            | Date:                    | Thursday, February 19, 2009 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                    |            | Sheet                    | 38 of 43                    |

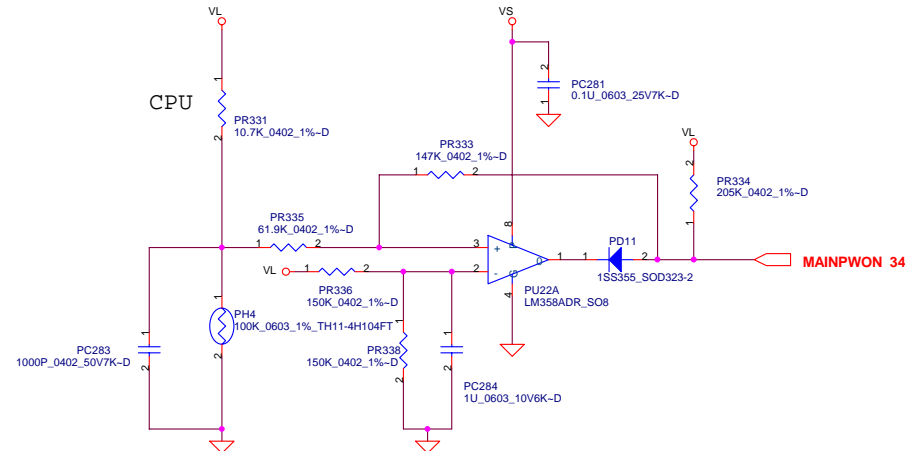
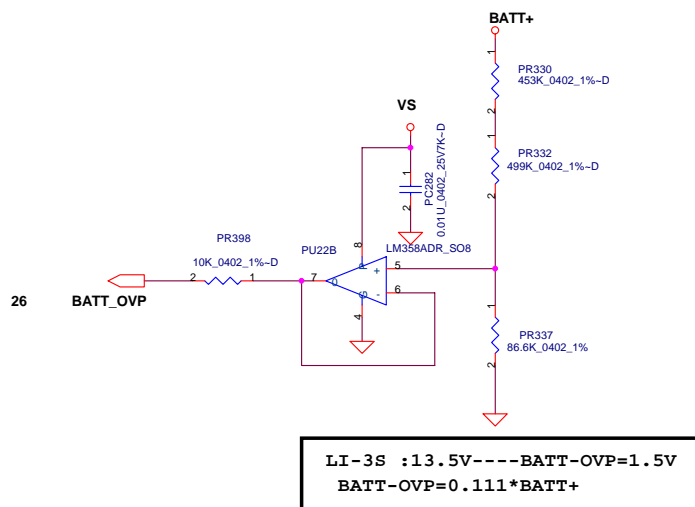


**WWW.AliSaler.Com**



**CPU**

**PH1 under CPU bottom side :**  
CPU thermal protection at 90 +-3 degree C  
Recovery at 50 +-3 degree C



| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | Compal Secret Data |            | Compal Electronics, Inc. |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|------------|--------------------------|-----|
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2005/10/1                   | Deciphered Date    | 2007/05/30 | Title                    |     |
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| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Custom                      | Document Number    | LA-4596P   | Rev                      | 0.2 |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thursday, February 13, 2009 | Sheet              | 40 of 43   |                          |     |

| Item | Page# | Title              | Date     | Request<br>Owner | Issue Description                          | Solution Description                           | Rev. |
|------|-------|--------------------|----------|------------------|--------------------------------------------|------------------------------------------------|------|
| 1    | 32    | DCIN /Vin Detector | 08/12/08 | COMPAL           | common circuit design modify               | change PR203 from 33 to 68 and add PR204 to 68 | 0.3  |
| 2    |       |                    | 08/12/08 | COMPAL           | design modify                              | change PL17 from SM010018880 to SM010008E10    | 0.3  |
| 3    | 33    | Charger            | 08/12/08 | COMPAL           | vendor FAE suggest                         | change PR272 PR339 from 1 to 3.3               | 0.3  |
| 4    | 40    | BATTERY CONN       | 08/12/08 | COMPAL           | design modify                              | change PL28 from SM010018210 to SM010008E10    | 0.3  |
| 5    | 32    | DCIN /Vin Detector | 08/12/12 | COMPAL           | increase capacitor for EMI request         | add PC313 at 0.01uf and PC314 at 0.1uf         | 0.3  |
| 6    | 35    | VCCPP              | 08/12/12 | COMPAL           | change resister for EMI request            | change PR342 from 0 to 2.2                     | 0.3  |
| 7    | 36    | 1.8VP              | 08/12/12 | COMPAL           | change resister for EMI request            | change PR352 from 0 to 2.2                     | 0.3  |
| 8    | 37    | 1.5VSP             | 08/12/12 | COMPAL           | change resister for EMI request            | change PR362 from 0 to 2.2                     | 0.3  |
| 9    | 35    | VCCPP              | 08/12/18 | COMPAL           | add resister and capacitor for EMI request | add PR346 at 4.7and pc323 at 680p              | 0.3  |
| 10   | 36    | 1.8VP              | 08/12/18 | COMPAL           | add resister and capacitor for EMI request | add PR356 at 4.7and pc334 at 680p              | 0.3  |
| 11   | 37    | 1.5VSP             | 08/12/18 | COMPAL           | add resister and capacitor for EMI request | add PR367 at 4.7and pc344 at 680p              | 0.3  |
| 12   |       |                    |          |                  |                                            |                                                |      |
| 13   |       |                    |          |                  |                                            |                                                |      |
| 14   |       |                    |          |                  |                                            |                                                |      |
| 15   |       |                    |          |                  |                                            |                                                |      |
| 16   |       |                    |          |                  |                                            |                                                |      |
| 17   |       |                    |          |                  |                                            |                                                |      |
| 18   |       |                    |          |                  |                                            |                                                |      |
| 19   |       |                    |          |                  |                                            |                                                |      |
| 20   |       |                    |          |                  |                                            |                                                |      |
| 21   |       |                    |          |                  |                                            |                                                |      |
| 22   |       |                    |          |                  |                                            |                                                |      |
| 23   |       |                    |          |                  |                                            |                                                |      |
| 24   |       |                    |          |                  |                                            |                                                |      |
| 25   |       |                    |          |                  |                                            |                                                |      |
| 26   |       |                    |          |                  |                                            |                                                |      |
| 27   |       |                    |          |                  |                                            |                                                |      |
| 28   |       |                    |          |                  |                                            |                                                |      |
| 29   |       |                    |          |                  |                                            |                                                |      |
| 30   |       |                    |          |                  |                                            |                                                |      |
| 31   |       |                    |          |                  |                                            |                                                |      |
| 32   |       |                    |          |                  |                                            |                                                |      |
| 33   |       |                    |          |                  |                                            |                                                |      |

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| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compal Secret Data |                 |           | Compal Electronics, Inc. |                                    |                |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2007/1/15          | Deciphered Date | 2008/1/15 | Title<br><b>PW PIR-1</b> |                                    |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                 |           | Date:                    | Thursday, February 19, 2009        | Sheet 41 of 43 |

| Item | Page# | Title                       | Date       | Request Owner | Issue Description           | Solution Description                   | Rev. |
|------|-------|-----------------------------|------------|---------------|-----------------------------|----------------------------------------|------|
| 1    | 28    | USB/BT/ FP/ Felica/Camera   | 2008/12/02 | Compal_HW     | Small USB board no function | Modify Pin definition of JUSBP3        | 0.2  |
| 2    | 24    | HDA-IDT_92HD81              | 2008/12/02 | Compal_HW     | R voice and L voice fail    | Modify Pin definition of JSPK1         | 0.2  |
| 3    | 27    | PWR_OK/ BTN/ KB / TP/TPM1.2 | 2008/12/02 | Compal_HW     | Switch function fail        | Modify Pin definition of SW1           | 0.2  |
| 4    | 21    | LAN-8111D                   | 2008/12/16 | Compal_HW     | EMI LAN test fail           | Add C1817-C1820 for LAN connector      | 0.2  |
| 5    | 23    | Mini-Card/WWAN/Roboson      | 2008/12/16 | Compal_HW     | S5 wake on Wirlesslan fail  | Add U89 to control wirless lan voltage | 0.2  |
| 6    |       |                             |            |               |                             |                                        |      |
| 7    |       |                             |            |               |                             |                                        |      |
| 8    |       |                             |            |               |                             |                                        |      |
| 9    |       |                             |            |               |                             |                                        |      |
| 10   |       |                             |            |               |                             |                                        |      |
| 11   |       |                             |            |               |                             |                                        |      |
| 12   |       |                             |            |               |                             |                                        |      |
| 13   |       |                             |            |               |                             |                                        |      |
| 14   |       |                             |            |               |                             |                                        |      |
| 15   |       |                             |            |               |                             |                                        |      |
| 16   |       |                             |            |               |                             |                                        |      |
| 17   |       |                             |            |               |                             |                                        |      |
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| 31   |       |                             |            |               |                             |                                        |      |
| 32   |       |                             |            |               |                             |                                        |      |

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| Security Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compal Secret Data |                 |            | Compal Electronics, Inc. |                                    |                |
| Issued Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2008/03/21         | Deciphered Date | 2009/03/21 | Title<br><b>EE_PIR-1</b> |                                    |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                 |            | Date:                    | Thursday, February 19, 2009        | Sheet 42 of 43 |



