

|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
|----------------------------|---|------|-------|------|----------|---------------|------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|------------|-----|--|--------|----|------|-------|------|----------|--------|--|--|--|--|-------|-------|--|--|--|--|------|-------------|--|--|--|--|--|----------|--|--|--|--|-------|------|------|-------------|-----|----------------------------|--|--|--|--|--|----|----|--------|-----|------------------|--|--|
|                            | 1   | 2    | 3     | 4    | 5        | 6             | 7    | 8           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| A                          | <div>WWW.AliSaler.Com</div>   |      |       |      |          |               |      |             | A  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| B                          | <div><div><div>VB 1.0</div><div>MV_BUILD</div><div>2007.05.22</div></div></div> |      |       |      |          |               |      |             | B  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| C                          |   |      |       |      |          |               |      |             | C  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| D                          |   |      |       |      |          |               |      |             | D  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| E                          |   |      |       |      |          |               |      |             | E  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| F                          |   |      |       |      |          |               |      |             | <table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DATE | CHANGE NO. | REV | <table><tr><td>DRAWER</td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td><td rowspan="4">INVENTEC</td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td><td>TITLE</td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td><td>VB10</td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">SIZE = 3</td><td>VER :</td><td>SIZE</td><td>CODE</td><td>DOC. NUMBER</td><td>REV</td></tr><tr><td colspan="5">FILE NAME : XXXX-XXXXXX-XX</td><td></td><td>A3</td><td>CS</td><td>PC3601</td><td>A04</td></tr><tr><td colspan="5">P/N XXXXXXXXXXXX</td><td></td><td colspan="4">SHEET 1 OF 64</td></tr></table> | DRAWER | EE | DATE | POWER | DATE | INVENTEC | DESIGN |  |  |  |  | TITLE | CHECK |  |  |  |  | VB10 | RESPONSIBLE |  |  |  |  |  | SIZE = 3 |  |  |  |  | VER : | SIZE | CODE | DOC. NUMBER | REV | FILE NAME : XXXX-XXXXXX-XX |  |  |  |  |  | A3 | CS | PC3601 | A04 | P/N XXXXXXXXXXXX |  |  |
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|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
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|                            |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| DATE                       | CHANGE NO.  | REV  |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| DRAWER                     | EE  | DATE | POWER | DATE | INVENTEC |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| DESIGN                     |   |      |       |      |          | TITLE         |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| CHECK                      |   |      |       |      |          | VB10          |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
| RESPONSIBLE                |   |      |       |      |          |               |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
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| FILE NAME : XXXX-XXXXXX-XX |   |      |       |      |          | A3            | CS   | PC3601      | A04  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |
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|                            | 1   | 2    | 3     | 4    | 5        | 6             | 7    | 8           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |  |        |    |      |       |      |          |        |  |  |  |  |       |       |  |  |  |  |      |             |  |  |  |  |  |          |  |  |  |  |       |      |      |             |     |                            |  |  |  |  |  |    |    |        |     |                  |  |  |

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**INVENTEC**

TITLE  
**VB10**

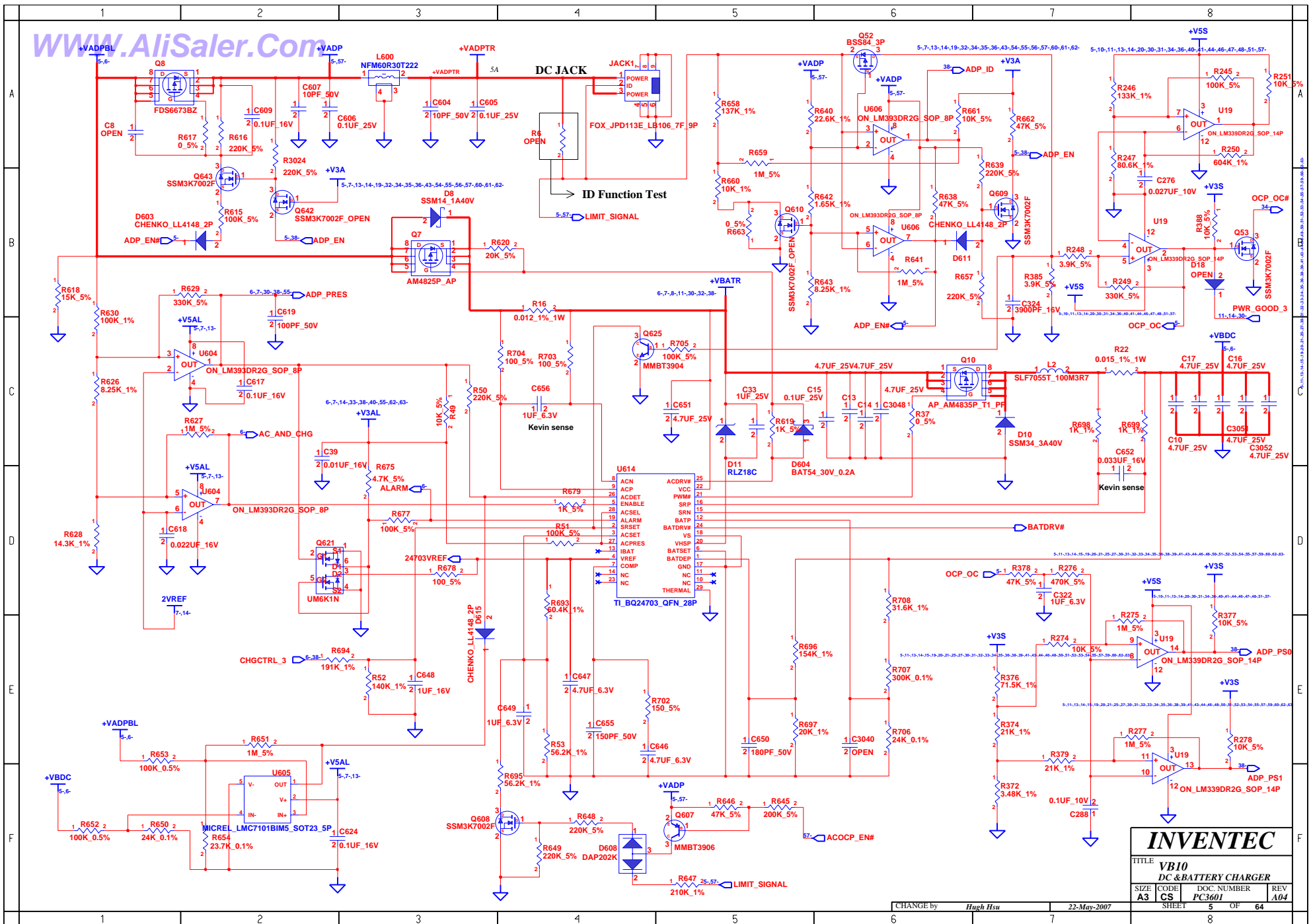
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CHANGE by **Hugh Hsu** 22-May-2007

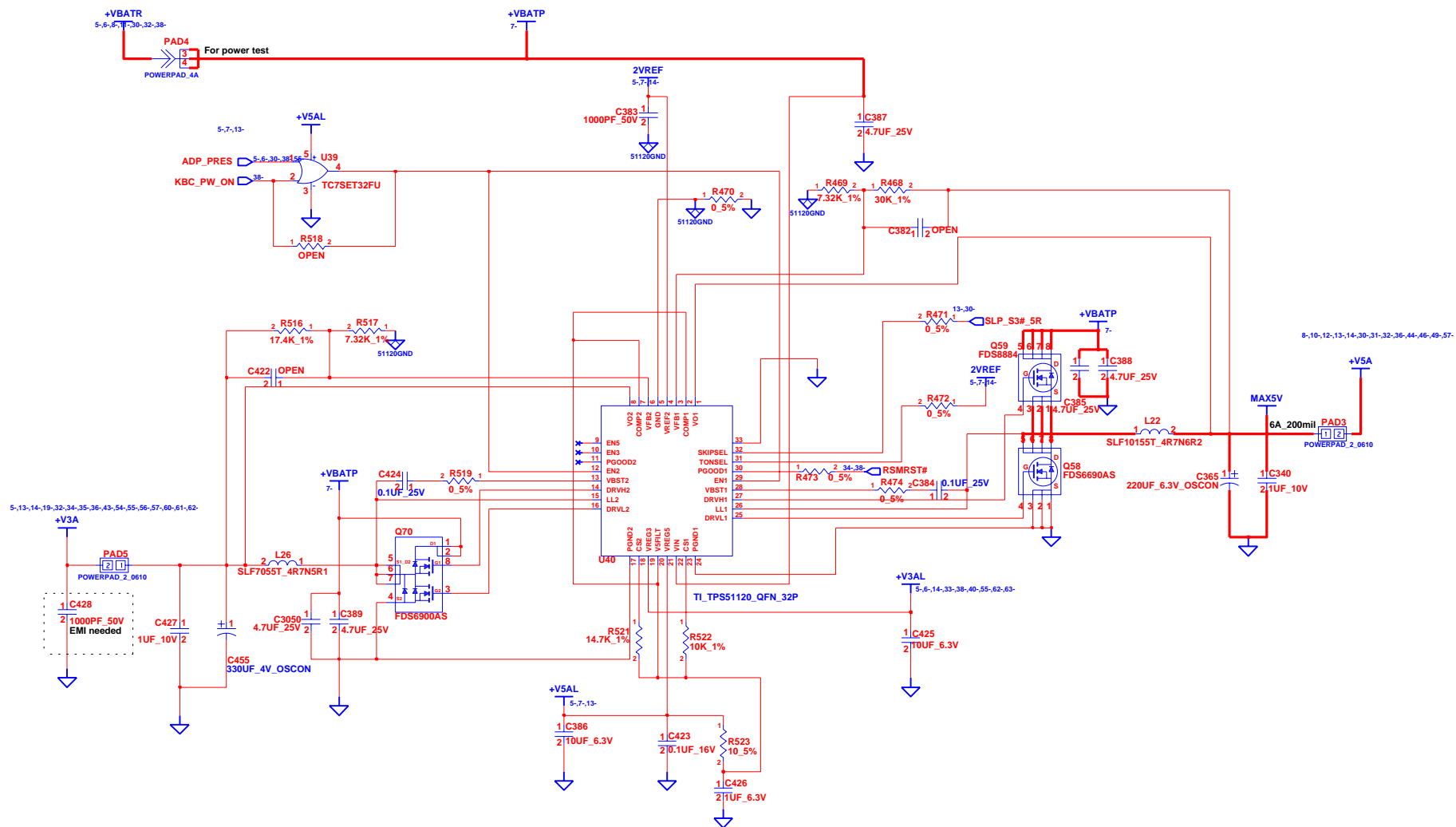
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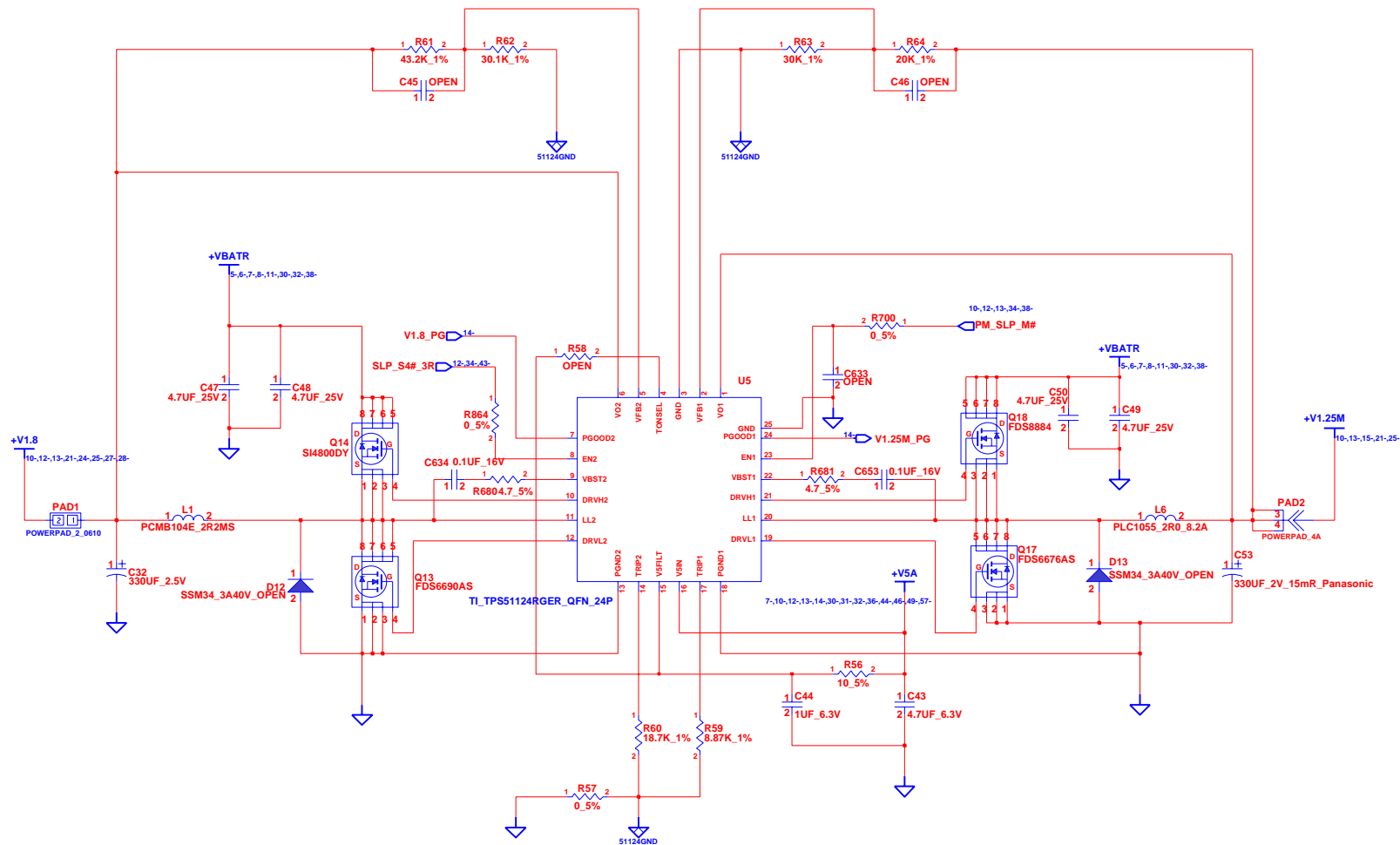


# INVENTEC

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| SIZE<br><b>A3</b>                               | CODE<br><b>CS</b> | DOC. NUMBER<br><b>PC3601</b> | REV<br><b>A04</b> |

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# INVENTEC

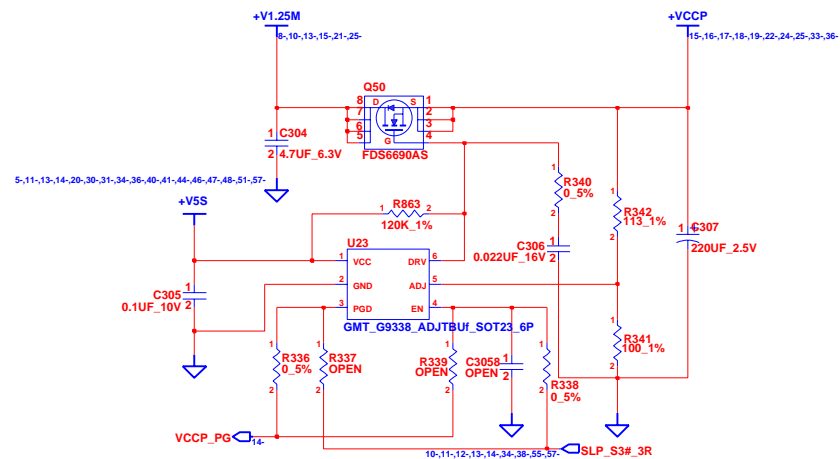
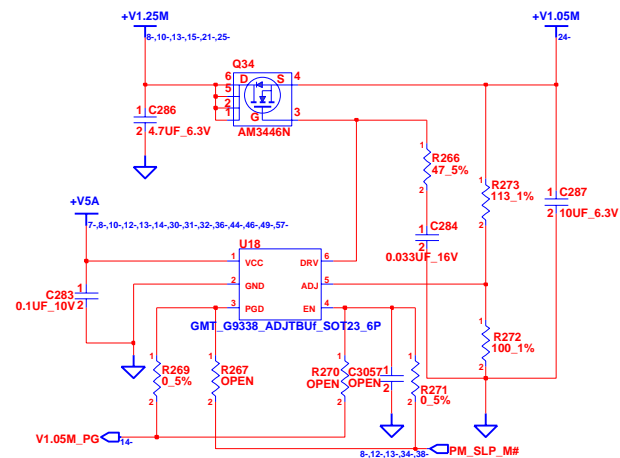
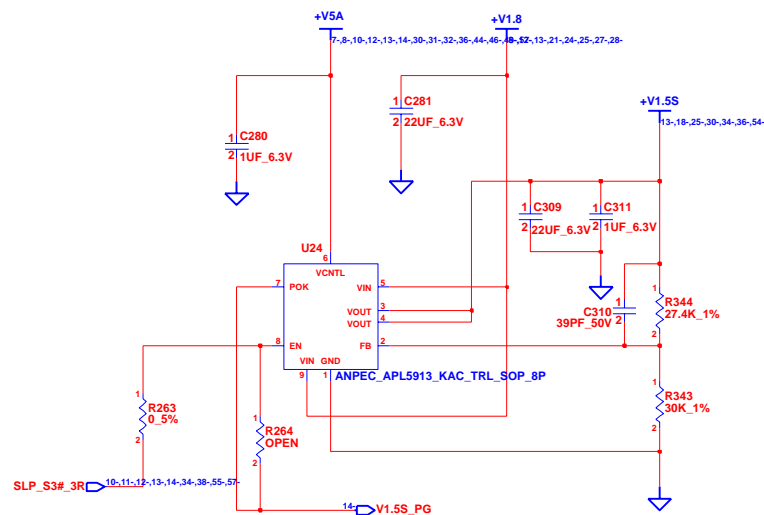
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| VB10                        |      |             |     |
| SYSTEM POWER(+V1.8/+V1.25M) |      |             |     |
| SIZE                        | CODE | DOC. NUMBER | REV |
| A3                          | CS   | PC3601      | A04 |

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|---|--|---|---|---|---|---|---|---|--|--|
|   | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |
| A | <div>WWW.AliSaler.Com</div> <div>BLANK</div> <div><div>INVENTEC</div><div>TITLE<br/>VB10<br/>SYSTEM POWER (BLANK)</div><div><div><div>SIZE<br/>A3</div><div>CODE<br/>CS</div></div><div><div>DOC. NUMBER<br/>PC3601</div><div>REV<br/>A04</div></div></div><div>CHANGE by<br/>Hugh Hsu</div><div>22-May-2007</div><div>SHEET<br/>9</div><div>OF<br/>64</div></div> |   |   |   |   |   |   |   |  |  |
| B |  |   |   |   |   |   |   |   |  |  |
| C |  |   |   |   |   |   |   |   |  |  |
| D |  |   |   |   |   |   |   |   |  |  |
| E |  |   |   |   |   |   |   |   |  |  |
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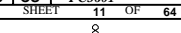
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SYSTEM POWER(+V1.5S/+V1.05M)

SIZE **A3** CODE **CS** DOC. NUMBER **PC3601** REV **A04**

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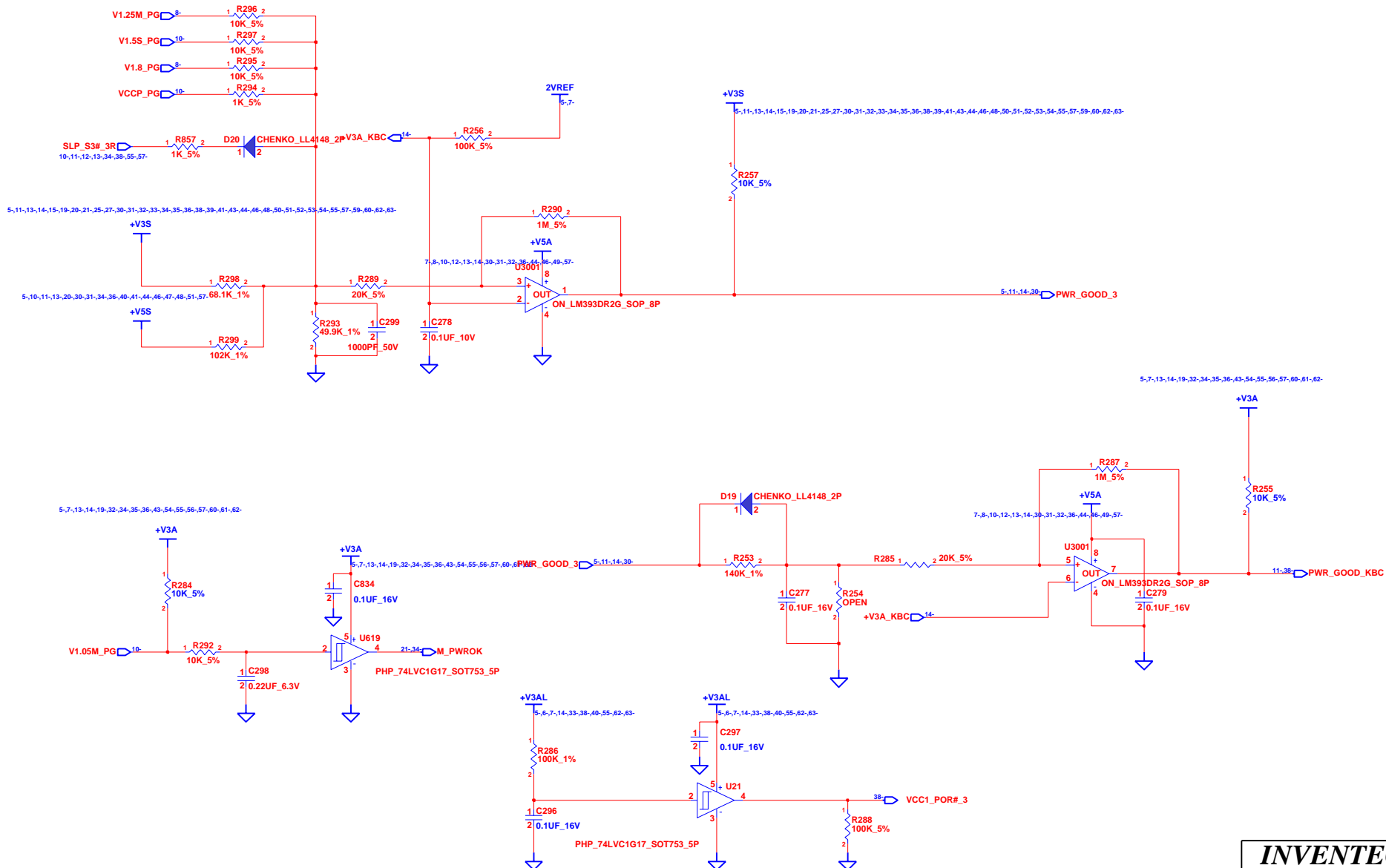


**NOTE: DDR2 REGULATOR**

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| SIZE                            | CODE | DOC. NUMBER | REV   |
| A3                              | CS   | PC3601      | A04   |
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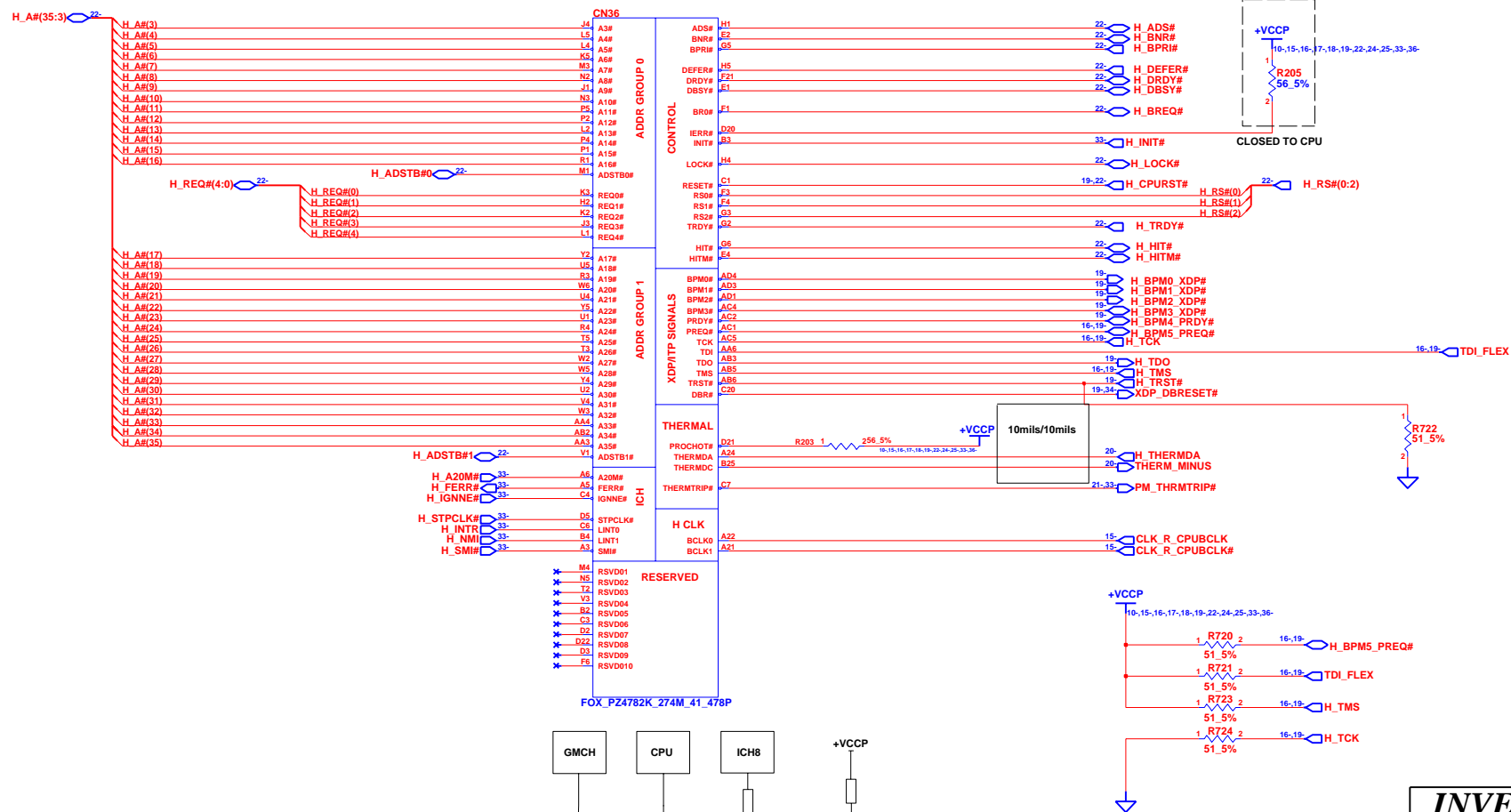


| INVENTEC                         |            |                       |            |
|----------------------------------|------------|-----------------------|------------|
| TITLE<br>VB10<br>POWER(SEQUENCE) |            |                       |            |
| SIZE<br>A3                       | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04 |
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PM\_THRMTRIP# should be T at CPU

**INVENTEC**

TITLE  
VB10  
MEROM-1

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | PC3601      | A04 |

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Layout note:zo=55 ohm  
0.5" max for GTLREF

Please series resister R171=1K on H\_PWRGD\_XDP  
without stub

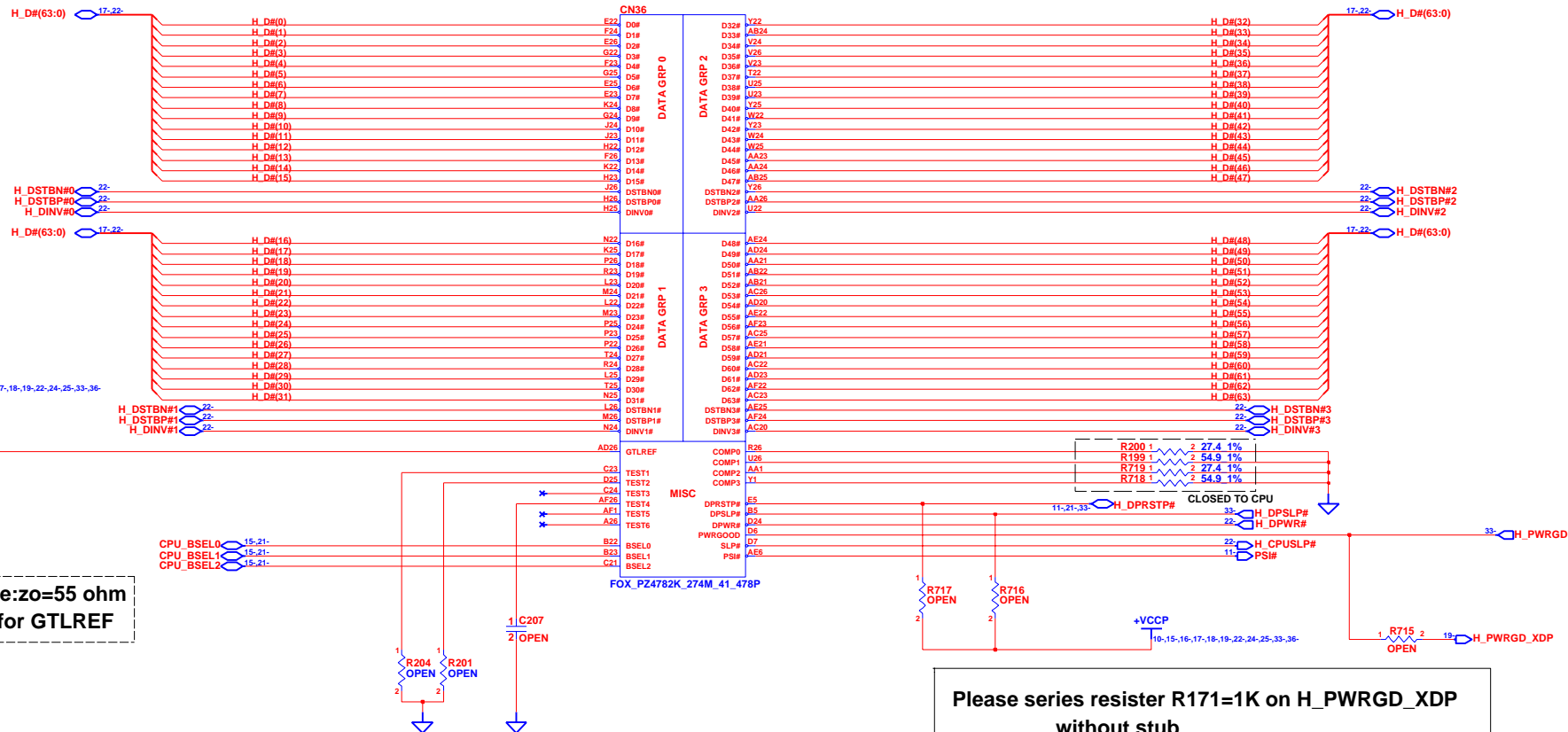
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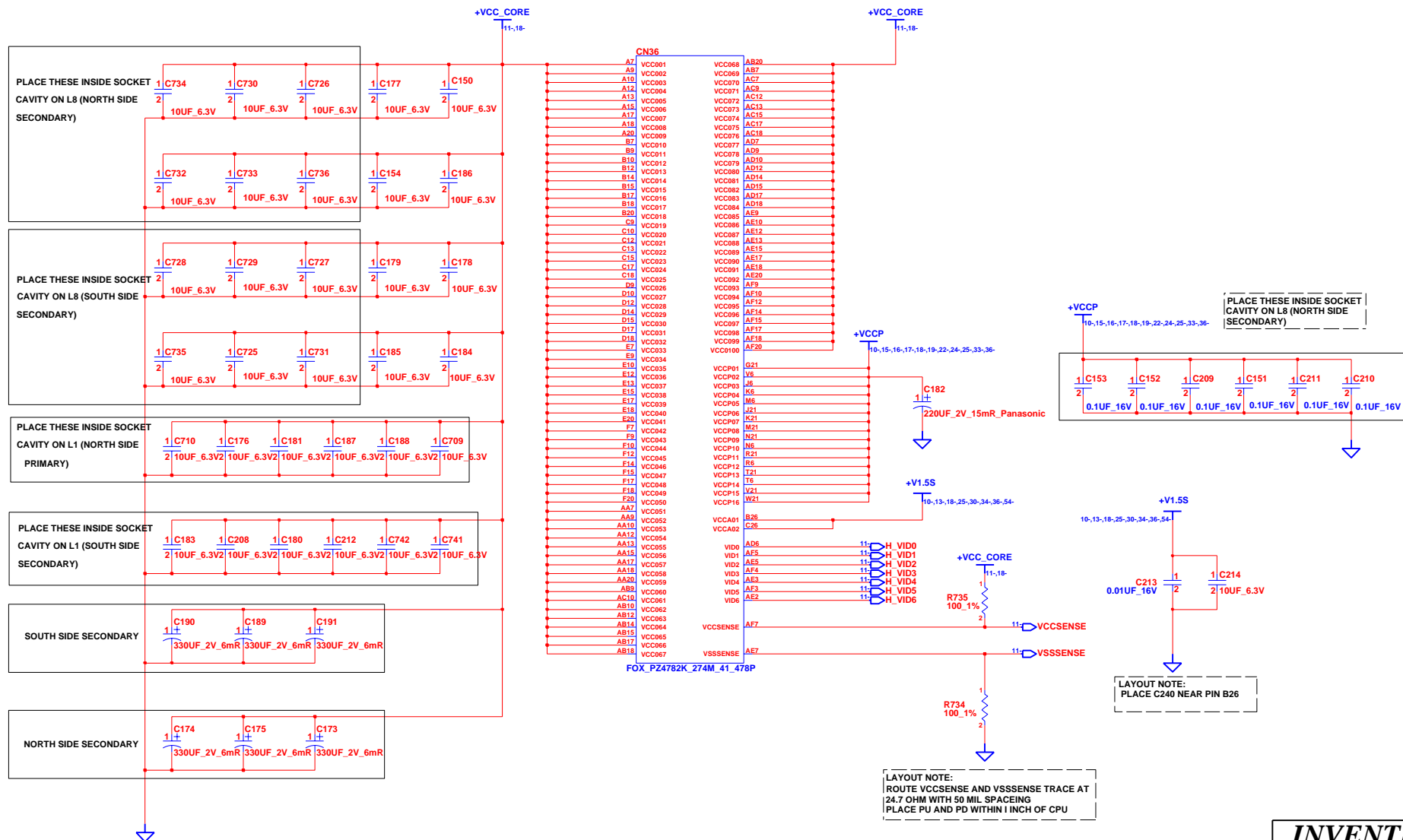
TITLE  
**VB10**  
**MEROM-2**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | PC3601      | A04 |

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 17 OF 64





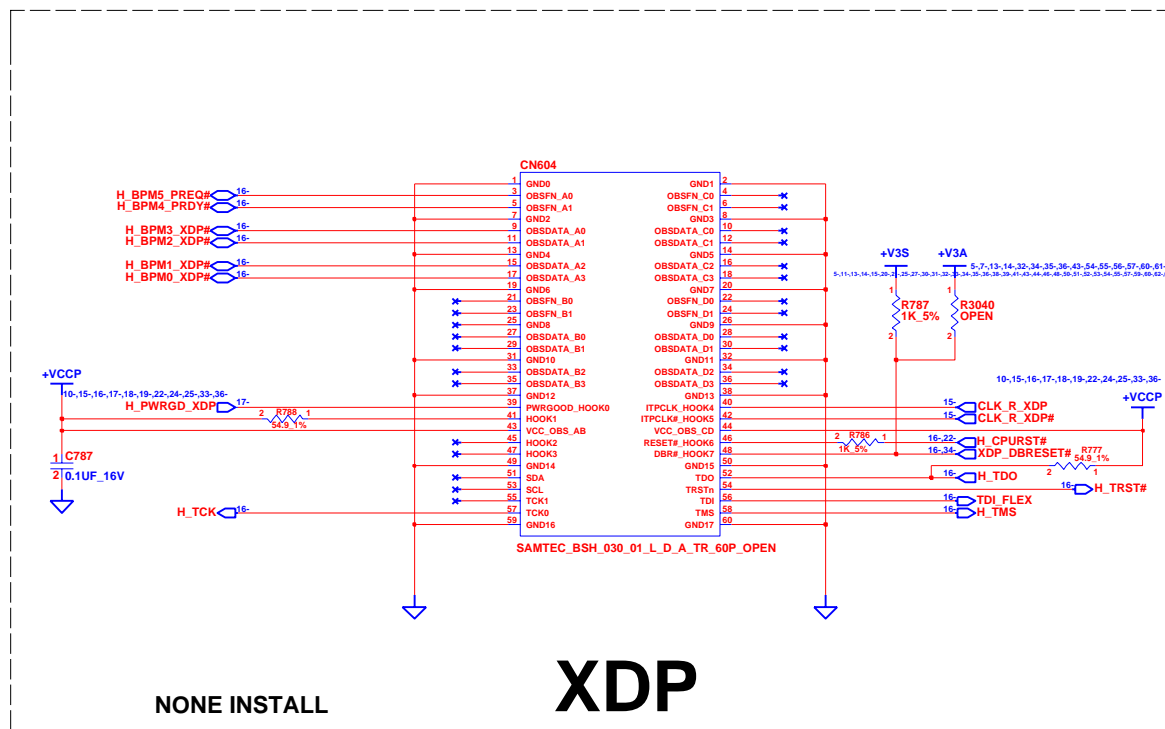
**INVENTEC**

|                 |      |             |       |
|-----------------|------|-------------|-------|
| TITLE           |      |             |       |
| VB10<br>MEROM-3 |      |             |       |
| SIZE            | CODE | DOC. NUMBER | REV   |
| A3              | CS   | PC3601      | A04   |
| SHEET           |      | 18          | OF 64 |

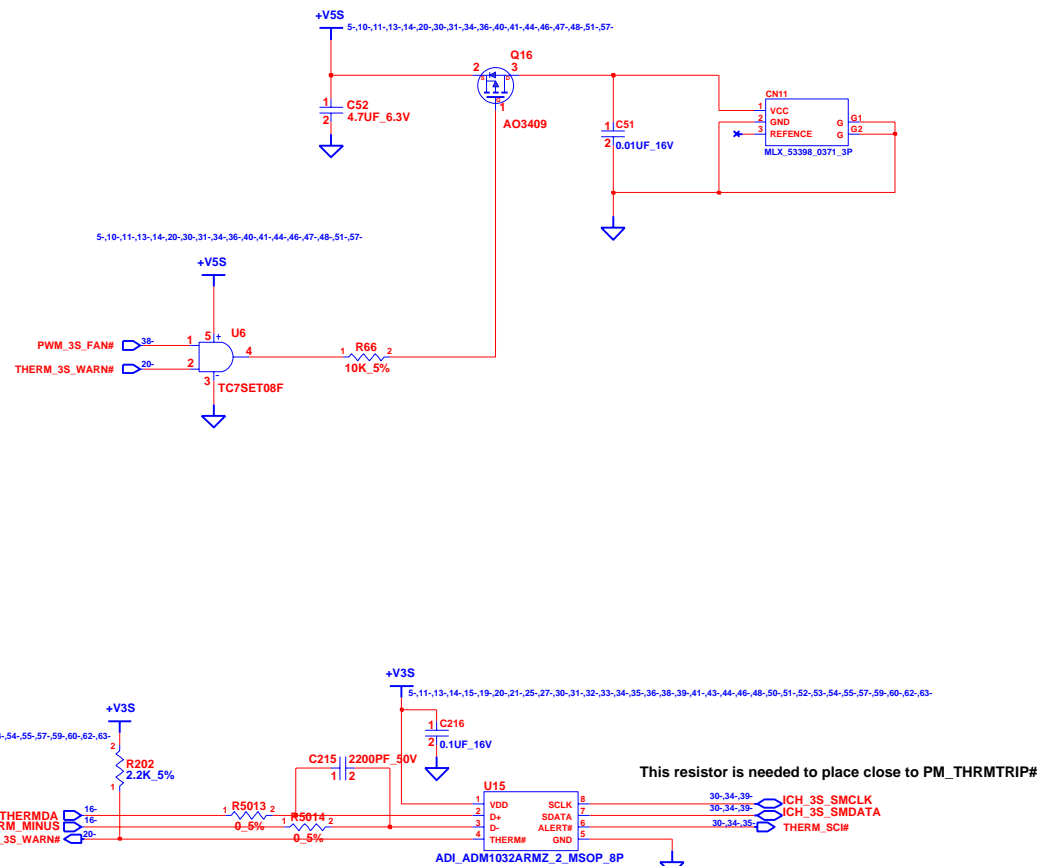
CHANGE by: *Hugh Hsu* 22-May-2007

**CN36**  
 A1 VS0001 VS0002 P8  
 A2 VS0002 VS0003 P21  
 A3 VS0003 VS0004 P24  
 A4 VS0004 VS0005 R2  
 A5 VS0005 VS0006 R5  
 A6 VS0006 VS0007 R22  
 A7 VS0007 VS0008 R25  
 A8 VS0008 VS0009 T1  
 A9 VS0009 VS0010 T4  
 B1 VS0010 VS0011 T23  
 B2 VS0011 VS0012 T26  
 B3 VS0012 VS0013 U3  
 B4 VS0013 VS0014 U6  
 B5 VS0014 VS0015 U21  
 B6 VS0015 VS0016 U24  
 B7 VS0016 VS0017 V2  
 B8 VS0017 VS0018 V22  
 B9 VS0018 VS0019 V25  
 C1 VS0019 VS0020 W1  
 C2 VS0020 VS0021 W4  
 C3 VS0021 VS0022 W23  
 C4 VS0022 VS0023 W26  
 C5 VS0023 VS0024 Y3  
 C6 VS0024 VS0025 Y6  
 C7 VS0025 VS0026 Y21  
 C8 VS0026 VS0027 Y24  
 D1 VS0027 VS0028 AA2  
 D2 VS0028 VS0029 AA5  
 D3 VS0029 VS0030 AA8  
 D4 VS0030 VS0031 AA11  
 D5 VS0031 VS0032 AA14  
 D6 VS0032 VS0033 AA16  
 D7 VS0033 VS0034 AA19  
 D8 VS0034 VS0035 AA22  
 D9 VS0035 VS0036 AA25  
 E1 VS0036 VS0037 AB1  
 E2 VS0037 VS0038 AB4  
 E3 VS0038 VS0039 AB8  
 E4 VS0039 VS0040 AB11  
 E5 VS0040 VS0041 AB13  
 E6 VS0041 VS0042 AB16  
 E7 VS0042 VS0043 AB19  
 E8 VS0043 VS0044 AB23  
 E9 VS0044 VS0045 AB26  
 F1 VS0045 VS0046 AC3  
 F2 VS0046 VS0047 AC5  
 F3 VS0047 VS0048 AC8  
 F4 VS0048 VS0049 AC11  
 F5 VS0049 VS0050 AC14  
 F6 VS0050 VS0051 AC16  
 F7 VS0051 VS0052 AC19  
 F8 VS0052 VS0053 AC21  
 F9 VS0053 VS0054 AC24  
 G1 VS0054 VS0055 AD5  
 G2 VS0055 VS0056 AD8  
 G3 VS0056 VS0057 AD11  
 G4 VS0057 VS0058 AD13  
 G5 VS0058 VS0059 AD16  
 G6 VS0059 VS0060 AD19  
 G7 VS0060 VS0061 AD22  
 G8 VS0061 VS0062 AD25  
 G9 VS0062 VS0063 AE1  
 H1 VS0063 VS0064 AE4  
 H2 VS0064 VS0065 AE8  
 H3 VS0065 VS0066 AE11  
 H4 VS0066 VS0067 AE14  
 H5 VS0067 VS0068 AE16  
 H6 VS0068 VS0069 AE19  
 H7 VS0069 VS0070 AE23  
 H8 VS0070 VS0071 AE26  
 H9 VS0071 VS0072 AF2  
 M1 VS0072 VS0073 AF5  
 M2 VS0073 VS0074 AF8  
 M3 VS0074 VS0075 AF11  
 M4 VS0075 VS0076 AF13  
 M5 VS0076 VS0077 AF16  
 M6 VS0077 VS0078 AF19  
 M7 VS0078 VS0079 AF21  
 M8 VS0079 VS0080 AF25  
 M9 VS0080 VS0081 AC3

FOX\_PZ4782K\_274M\_41\_478P



| INVENTEC  |      |             |       |
|-----------|------|-------------|-------|
| TITLE     |      |             |       |
| VB10      |      |             |       |
| MEROM-4   |      |             |       |
| SIZE      | CODE | DOC. NUMBER | REV   |
| A3        | CS   | PC3601      | A04   |
| CHANGE by |      | 22-May-2007 |       |
| HUGH HSU  |      |             |       |
| SHEET     |      | 19          | OF 64 |



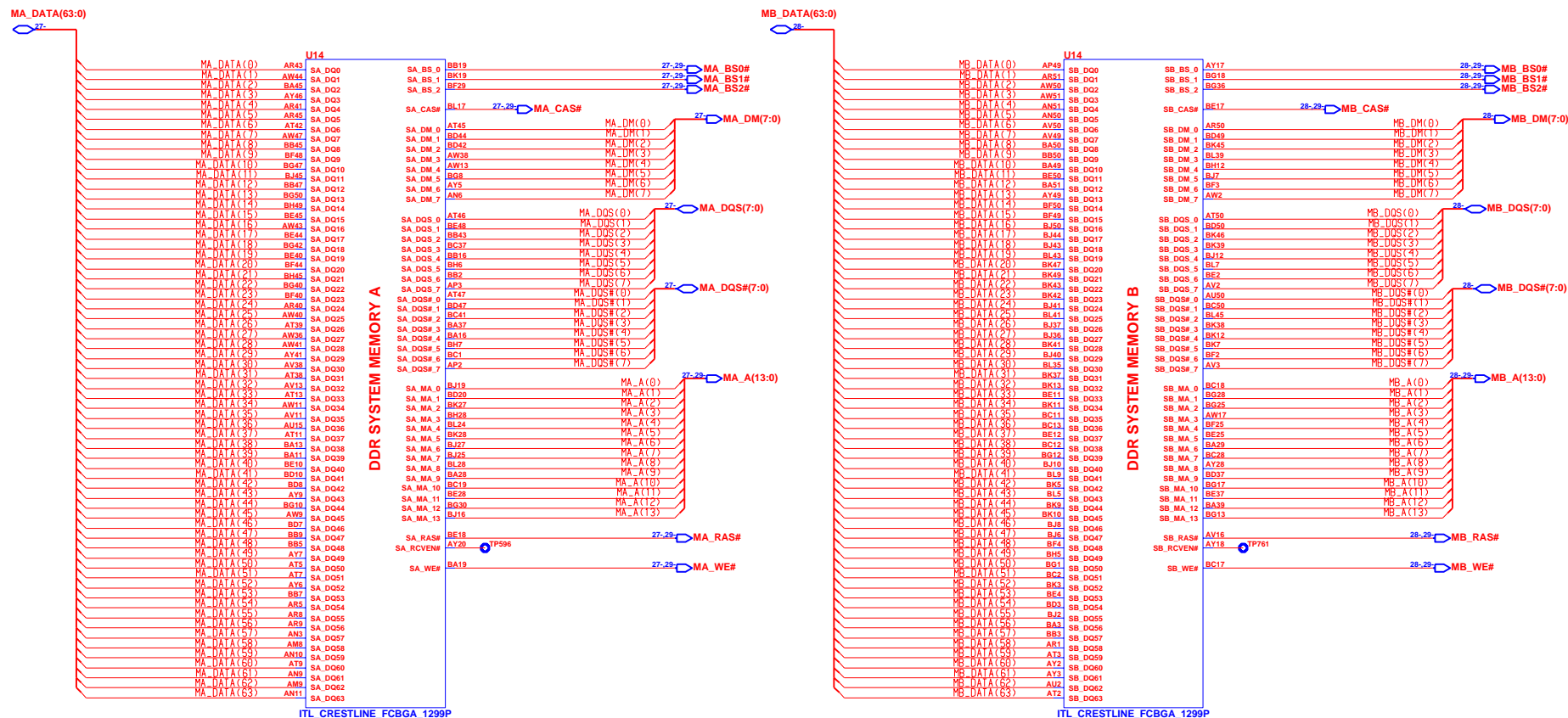
LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

| INVENTEC                          |         |                    |         |
|-----------------------------------|---------|--------------------|---------|
| TITLE VB10 THERMAL&FAN CONTROLLER |         |                    |         |
| SIZE A3                           | CODE CS | DOC. NUMBER PC3601 | REV A04 |
| SHEET 20                          |         | OF 64              |         |

CHANGE by Hugh Hsu 22-May-2007







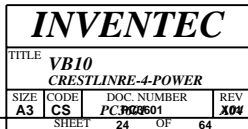
**INVENTEC**

TITLE  
**VB10**  
**CRESTLINE-3-DDR2**

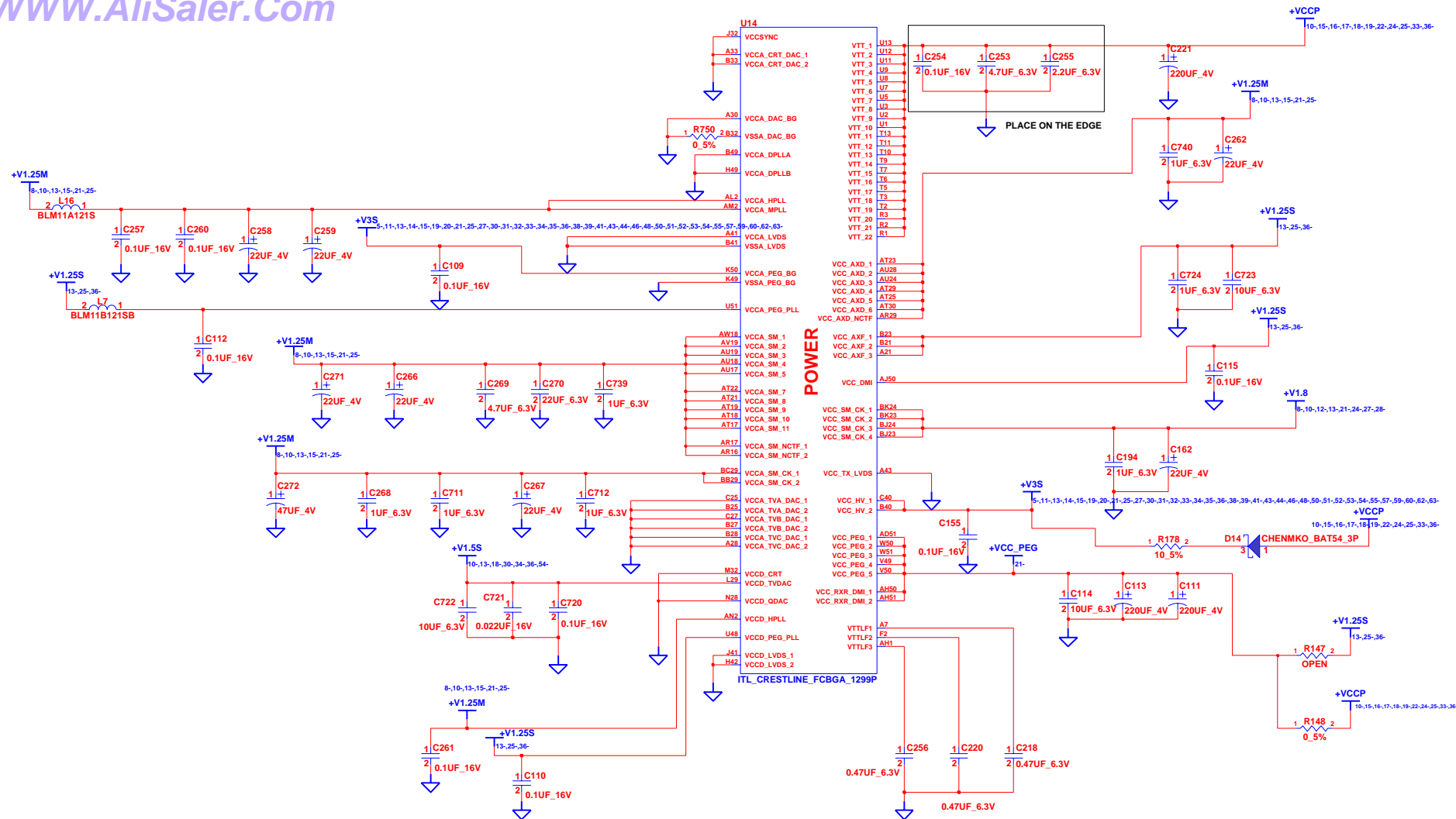
| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | PC3601      | A04 |

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 23 OF 64







**INVENTEC**

|                   |      |             |     |
|-------------------|------|-------------|-----|
| TITLE             |      |             |     |
| VB10              |      |             |     |
| CRESTLINE-5-POWER |      |             |     |
| SIZE              | CODE | DOC. NUMBER | REV |
| A3                | CS   | PC3601      | A04 |

CHANGE by: *Hugh Hsu* 22-May-2007

SHEET 25 OF 64

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|---|--|---|---|---|---|---|---|---|--|
|   | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
|   | WWW.AliSaler.Com   |   |   |   |   |   |   |   |  |
| A | <div><div><div>U14</div><div><div><div>VSS 1</div><div>VSS 2</div><div>VSS 3</div><div>VSS 4</div><div>VSS 5</div><div>VSS 6</div><div>VSS 7</div><div>VSS 8</div><div>VSS 9</div><div>VSS 10</div><div>VSS 11</div><div>VSS 12</div><div>VSS 13</div><div>VSS 14</div><div>VSS 15</div><div>VSS 16</div><div>VSS 17</div><div>VSS 18</div><div>VSS 19</div><div>VSS 20</div><div>VSS 21</div><div>VSS 22</div><div>VSS 23</div><div>VSS 24</div><div>VSS 25</div><div>VSS 26</div><div>VSS 27</div><div>VSS 28</div><div>VSS 29</div><div>VSS 30</div><div>VSS 31</div><div>VSS 32</div><div>VSS 33</div><div>VSS 34</div><div>VSS 35</div><div>VSS 36</div><div>VSS 37</div><div>VSS 38</div><div>VSS 39</div><div>VSS 40</div><div>VSS 41</div><div>VSS 42</div><div>VSS 43</div><div>VSS 44</div><div>VSS 45</div><div>VSS 46</div><div>VSS 47</div><div>VSS 48</div><div>VSS 49</div><div>VSS 50</div><div>VSS 51</div><div>VSS 52</div><div>VSS 53</div><div>VSS 54</div><div>VSS 55</div><div>VSS 56</div><div>VSS 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99</div></div><div><div>AW24</div><div>AW29</div><div>AW32</div><div>AW5</div><div>AW7</div><div>AY10</div><div>AY24</div><div>AY27</div><div>AY42</div><div>AY43</div><div>AY45</div><div>AY47</div><div>AY50</div><div>B10</div><div>B20</div><div>B22</div><div>B30</div><div>B35</div><div>B38</div><div>B43</div><div>B46</div><div>B5</div><div>B8</div><div>BA1</div><div>BA17</div><div>BA18</div><div>BA2</div><div>BA24</div><div>BA12</div><div>BB40</div><div>BB44</div><div>BB49</div><div>BC16</div><div>BC24</div><div>BC25</div><div>BC36</div><div>BC40</div><div>BC51</div><div>BD13</div><div>BD2</div><div>BD28</div><div>BD45</div><div>BD48</div><div>BD5</div><div>BE1</div><div>BE19</div><div>BE22</div><div>BE30</div><div>BE42</div><div>BE51</div><div>BF12</div><div>BF16</div><div>BF36</div><div>BG19</div><div>BG2</div><div>BG24</div><div>BG29</div><div>BG39</div><div>BG48</div><div>BG5</div><div>BG51</div><div>BH17</div><div>BH30</div><div>BH44</div><div>BH46</div><div>BH48</div><div>BH11</div><div>BJ13</div><div>BJ38</div><div>BJ4</div><div>BJ42</div><div>BJ46</div><div>BK15</div><div>BK17</div><div>BK25</div><div>BK29</div><div>BK40</div><div>BK44</div><div>BK6</div><div>BL11</div><div>BL13</div><div>BL19</div><div>BL22</div><div>BL37</div><div>BL47</div><div>CL2</div><div>CL6</div><div>C19</div><div>C28</div><div>C29</div><div>C33</div><div>C36</div><div>C41</div></div></div></div><div><div>VSS 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| A | <div><div><div>U14</div><div><div><div>VSS 1</div><div>VSS 2</div><div>VSS 3</div><div>VSS 4</div><div>VSS 5</div><div>VSS 6</div><div>VSS 7</div><div>VSS 8</div><div>VSS 9</div><div>VSS 10</div><div>VSS 11</div><div>VSS 12</div><div>VSS 13</div><div>VSS 14</div><div>VSS 15</div><div>VSS 16</div><div>VSS 17</div><div>VSS 18</div><div>VSS 19</div><div>VSS 20</div><div>VSS 21</div><div>VSS 22</div><div>VSS 23</div><div>VSS 24</div><div>VSS 25</div><div>VSS 26</div><div>VSS 27</div><div>VSS 28</div><div>VSS 29</div><div>VSS 30</div><div>VSS 31</div><div>VSS 32</div><div>VSS 33</div><div>VSS 34</div><div>VSS 35</div><div>VSS 36</div><div>VSS 37</div><div>VSS 38</div><div>VSS 39</div><div>VSS 40</div><div>VSS 41</div><div>VSS 42</div><div>VSS 43</div><div>VSS 44</div><div>VSS 45</div><div>VSS 46</div><div>VSS 47</div><div>VSS 48</div><div>VSS 49</div><div>VSS 50</div><div>VSS 51</div><div>VSS 52</div><div>VSS 53</div><div>VSS 54</div><div>VSS 55</div><div>VSS 56</div><div>VSS 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VSS 306

VSS 307

VSS 308

VSS 309

VSS 310

VSS 311

VSS 312

VSS 313

ITL\_CRESTLINE\_FCBGA\_1299P

ITL\_CRESTLINE\_FCBGA\_1299P

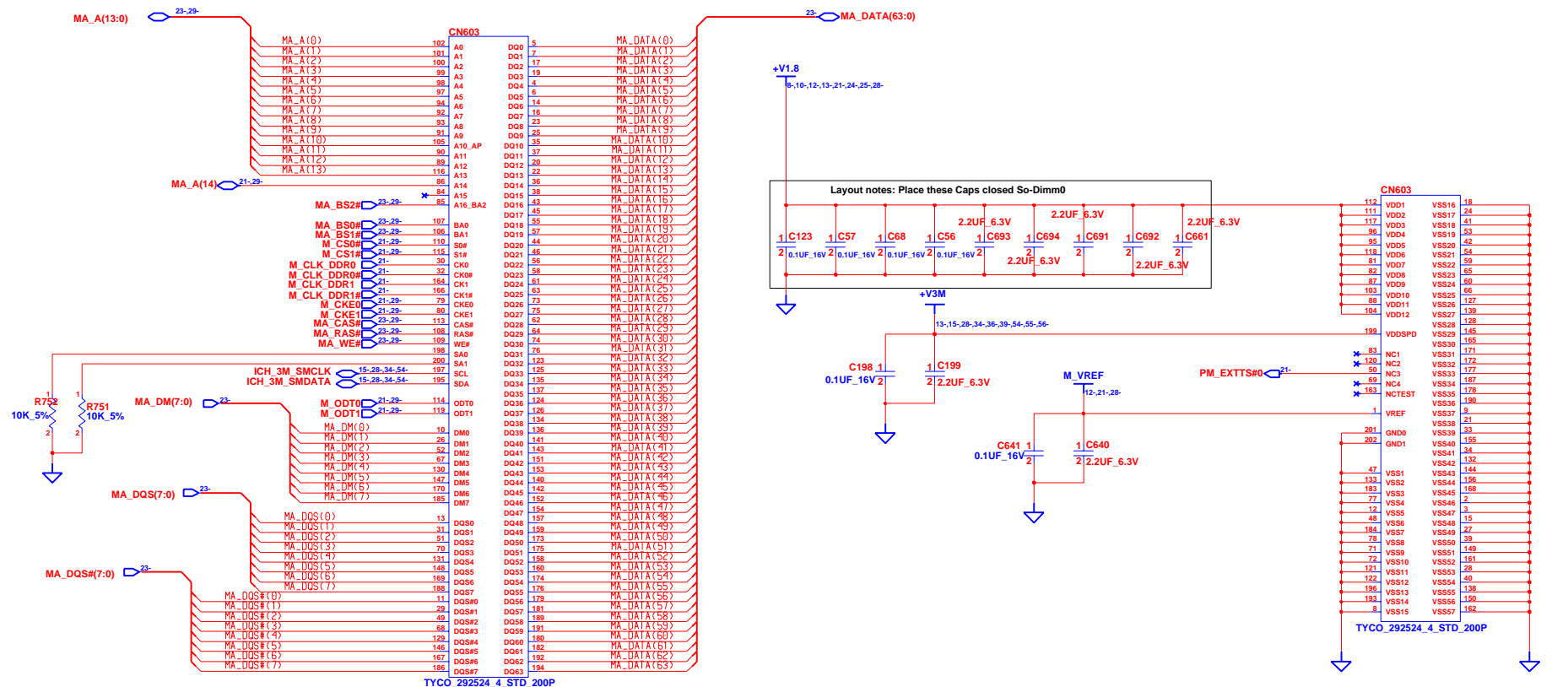
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TITLE VB10  
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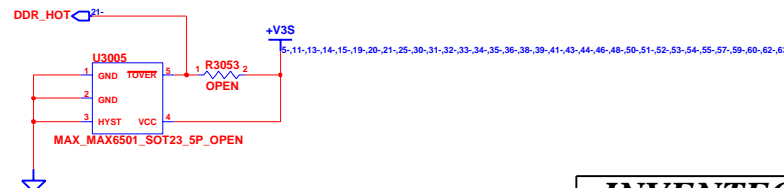
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SHEET 26 OF 64

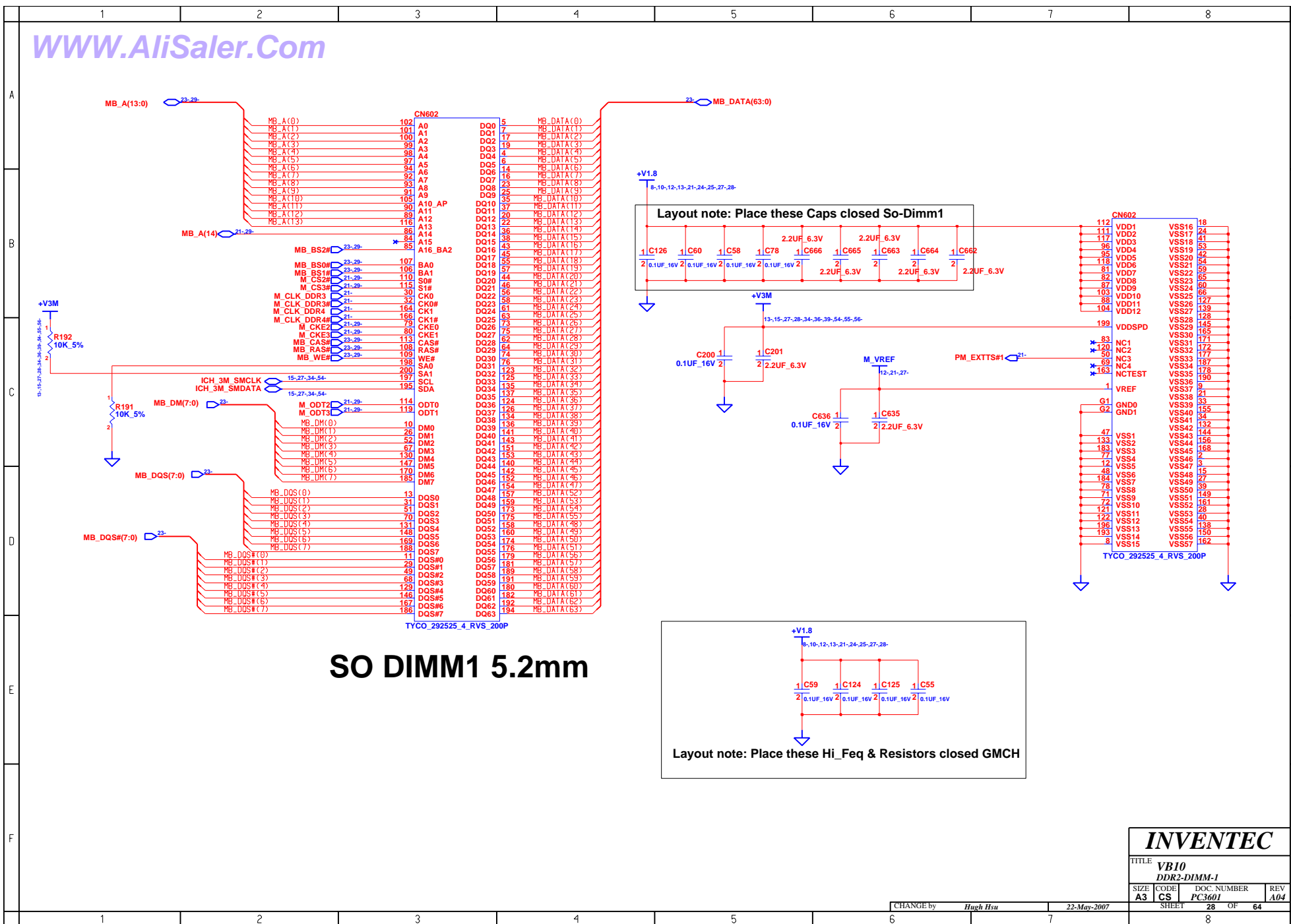
CHANGE by Hugh Hsu 22-May-2007

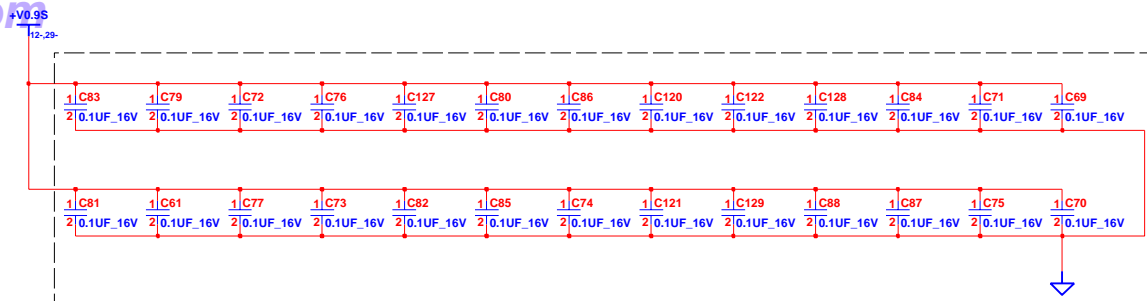


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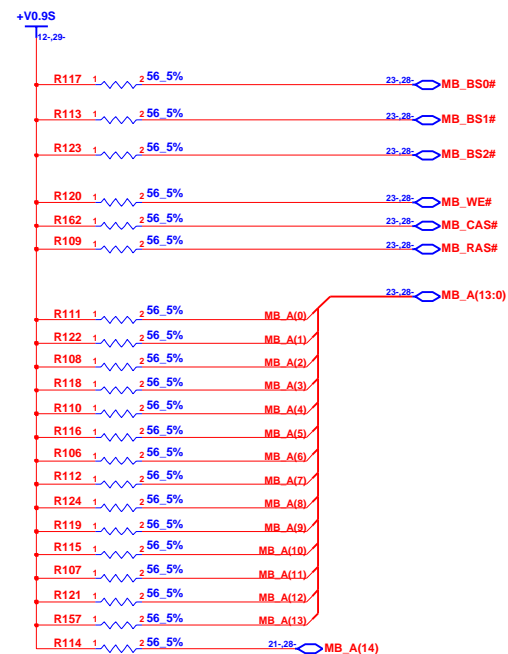
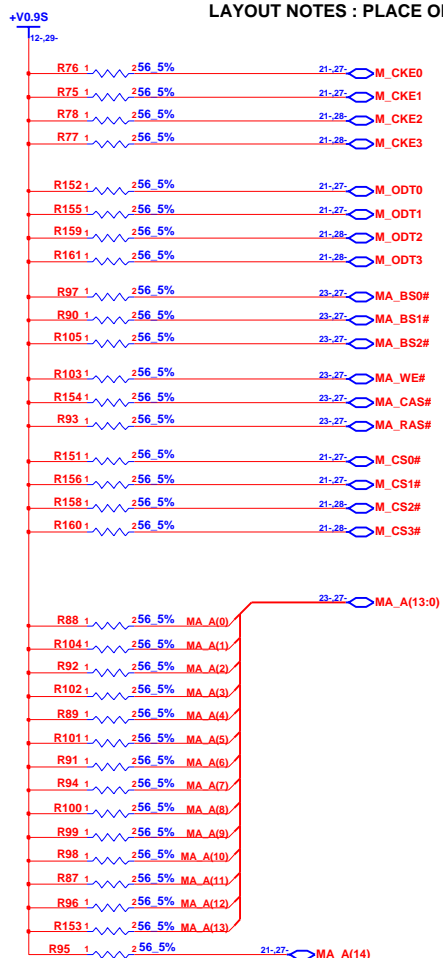


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| SIZE<br>A3                   | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04 |





LAYOUT NOTES : PLACE ONE CAP CLOSE TO EVERY 2 PULL UP RESISTOR TERMINATED TO +V0.9S

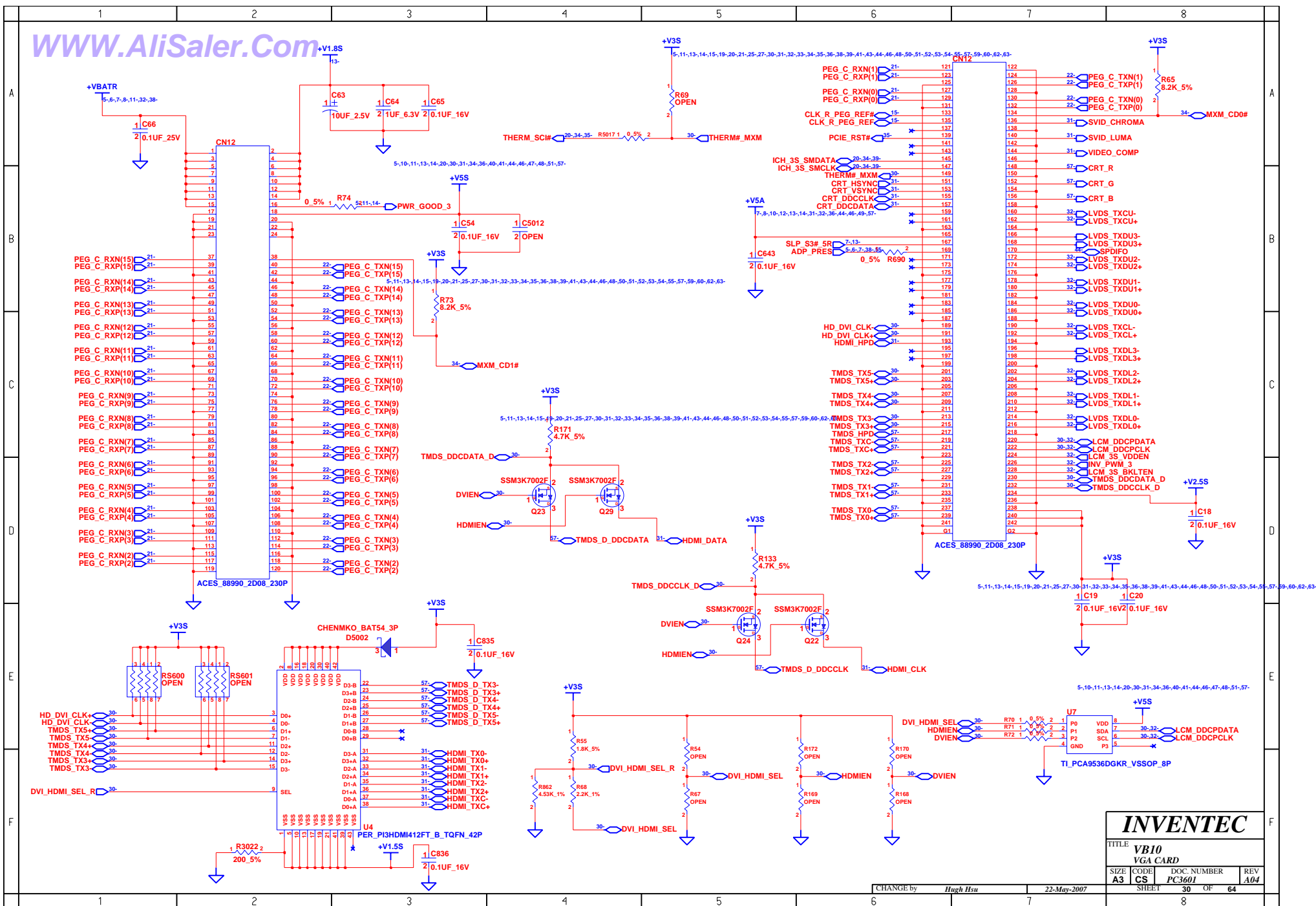


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| TITLE<br><b>VB10</b><br><b>DDR2-DAMPING</b> |                   |                              |                   |
| SIZE<br><b>A3</b>                           | CODE<br><b>CS</b> | DOC. NUMBER<br><b>PC3601</b> | REV<br><b>A04</b> |

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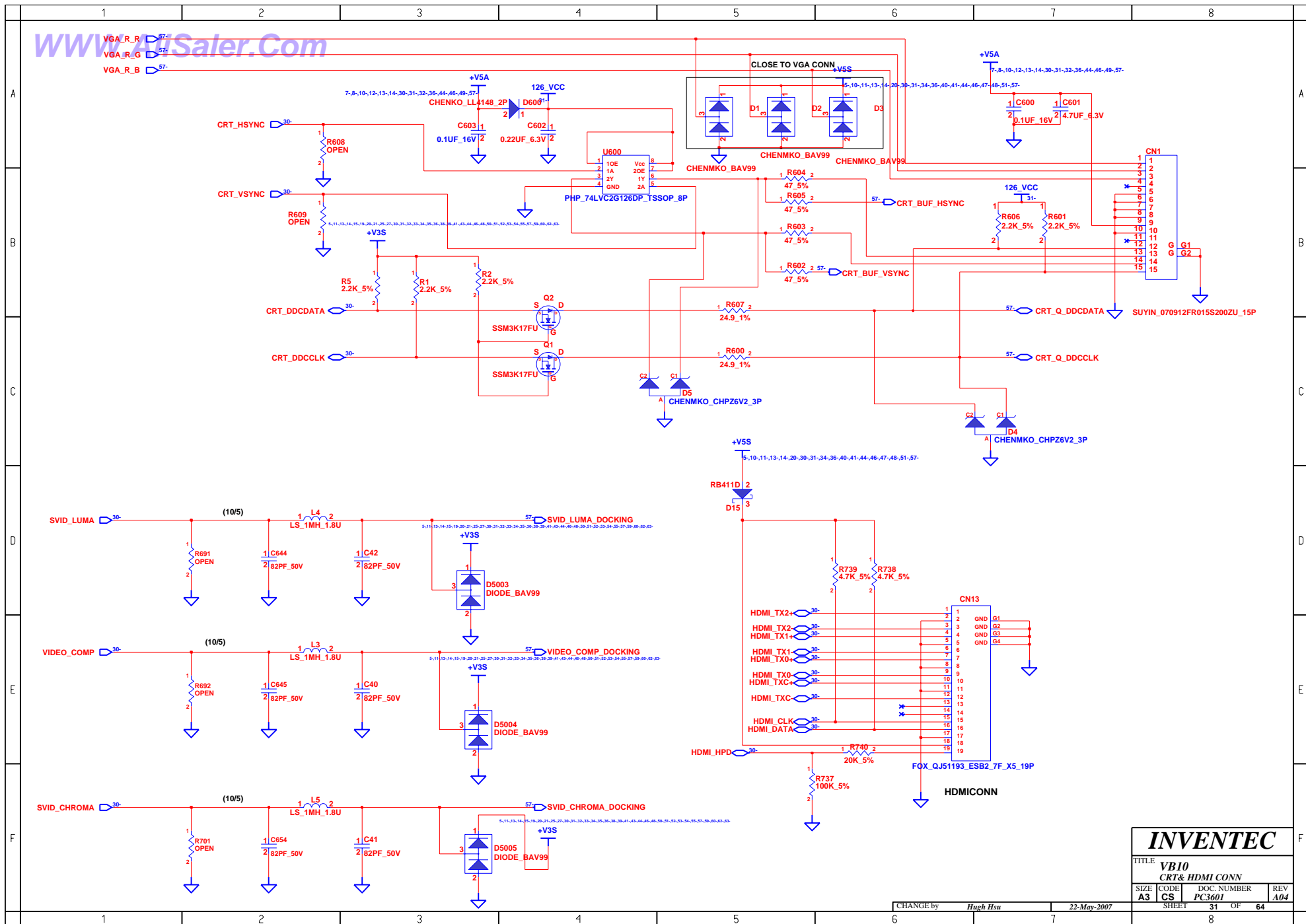
SHEET 29 OF 64



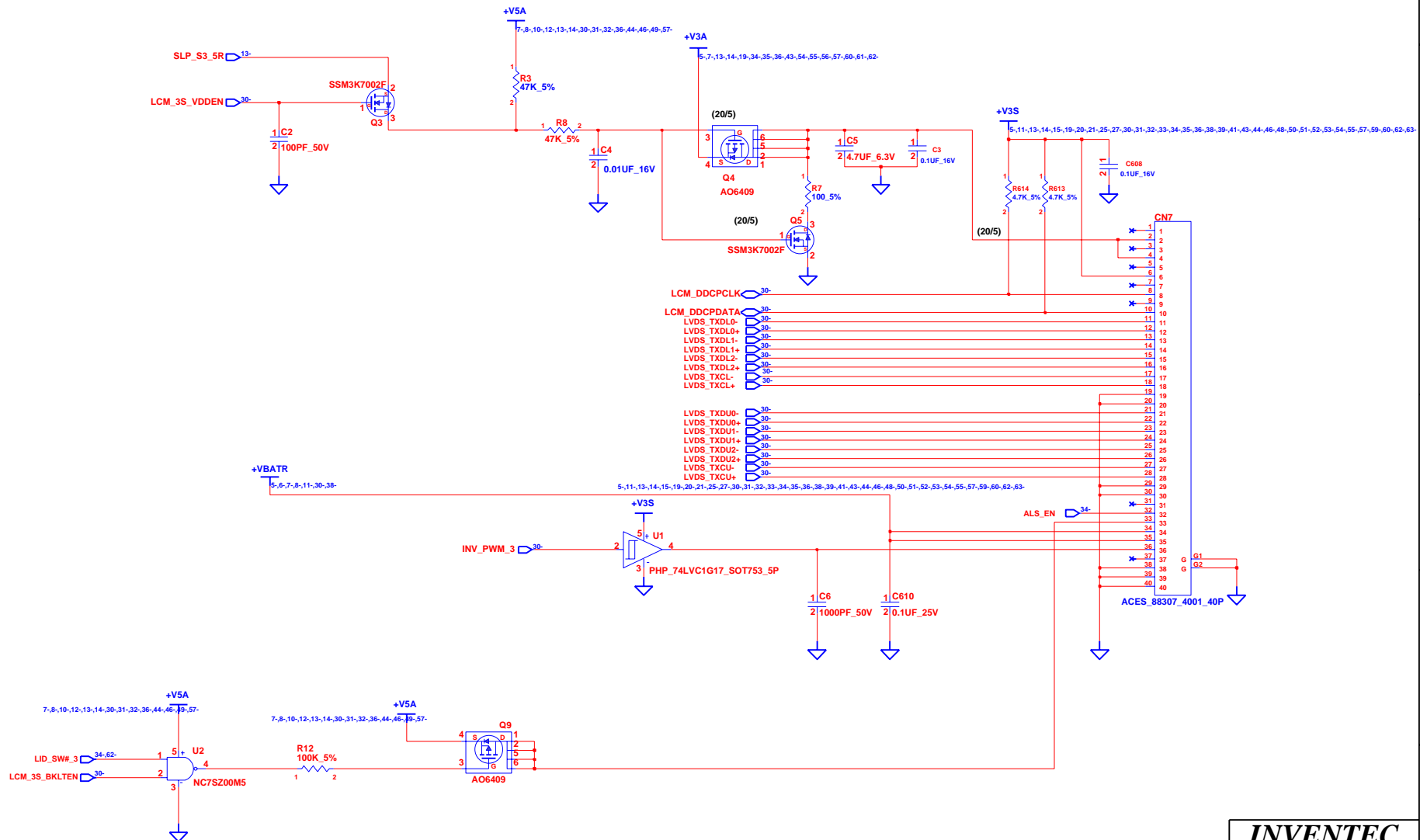
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| SHEET                     |            | 30                    | OF 64      |

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Place closed to connector



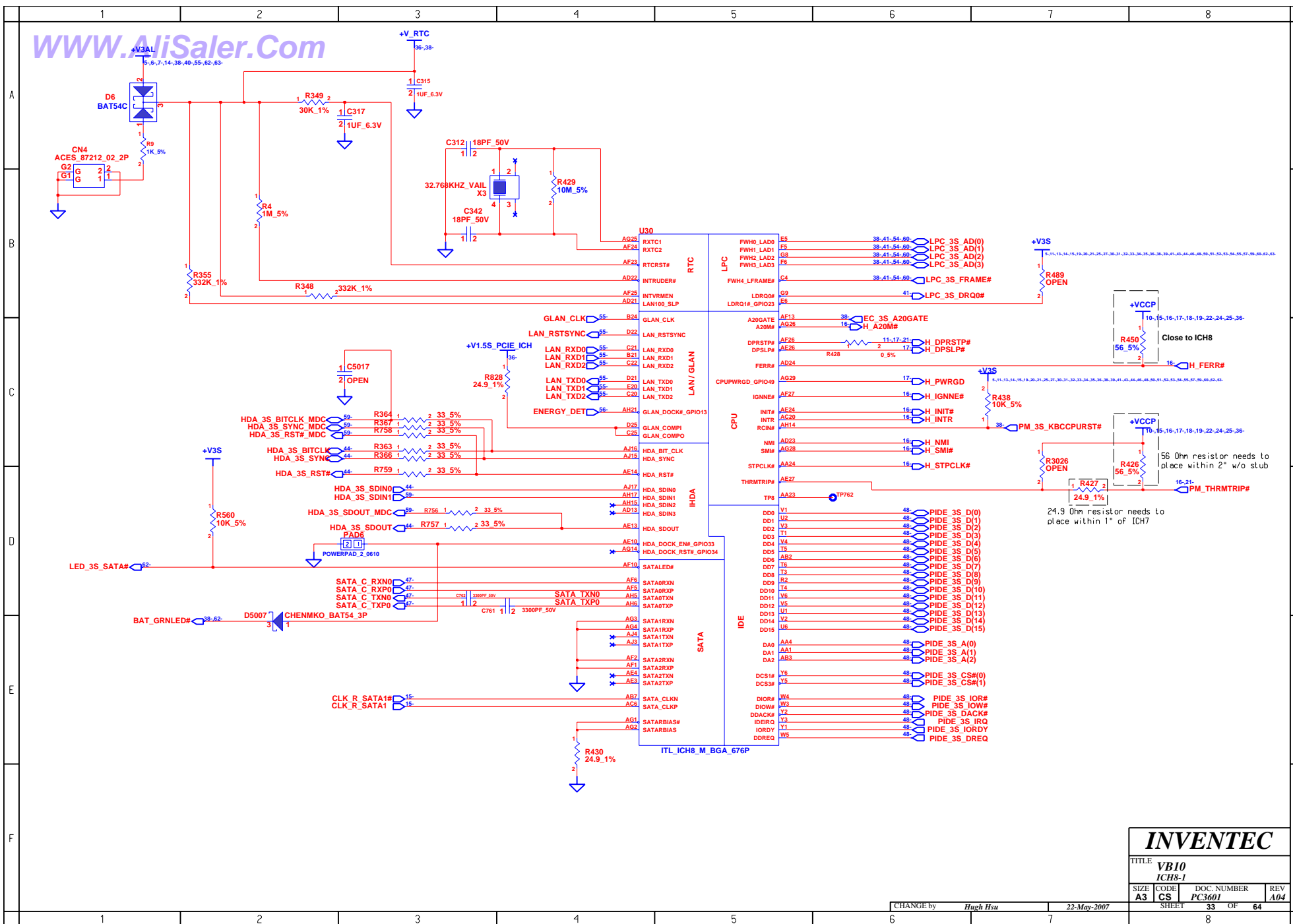
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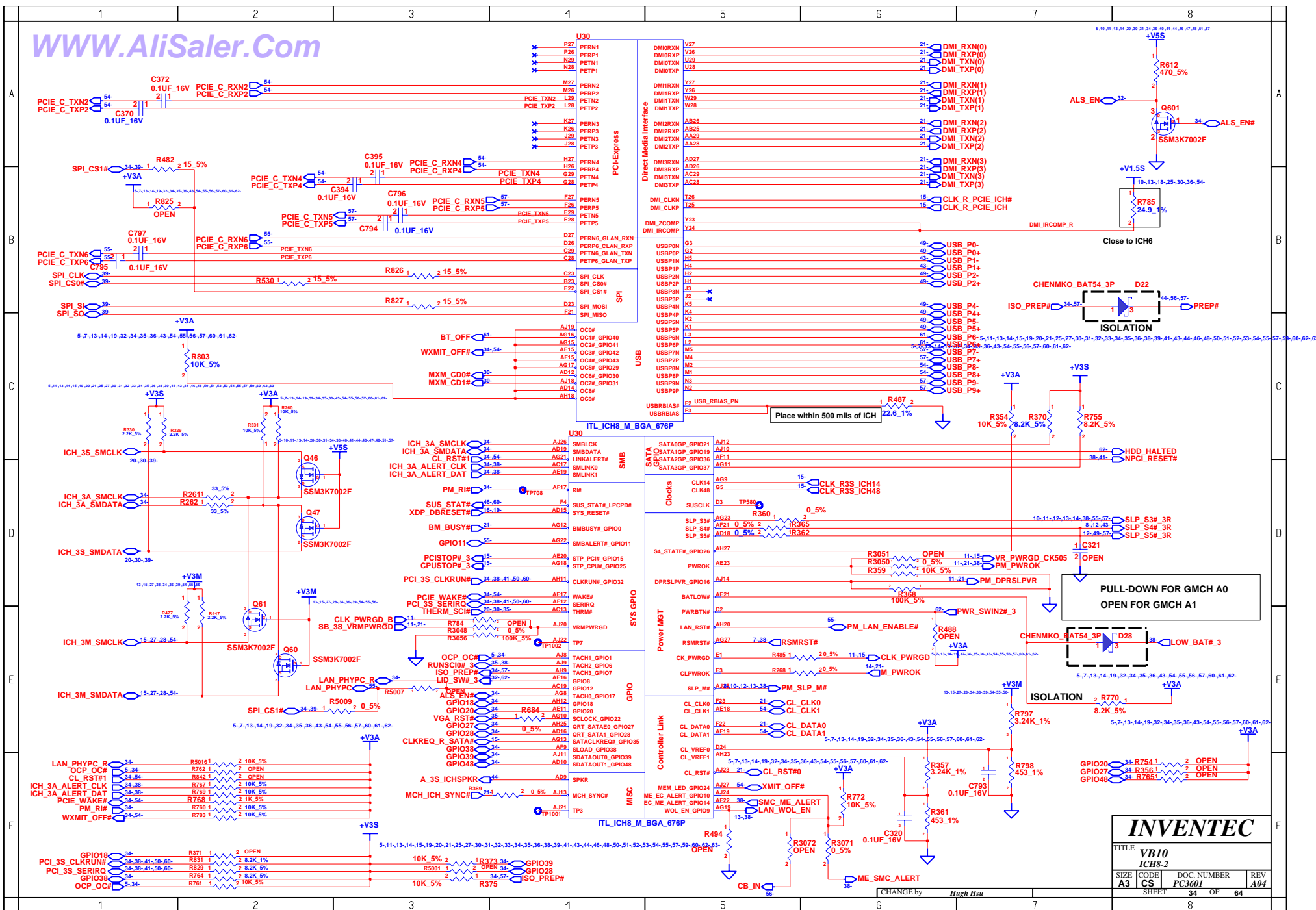
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SHEET 32 OF 64

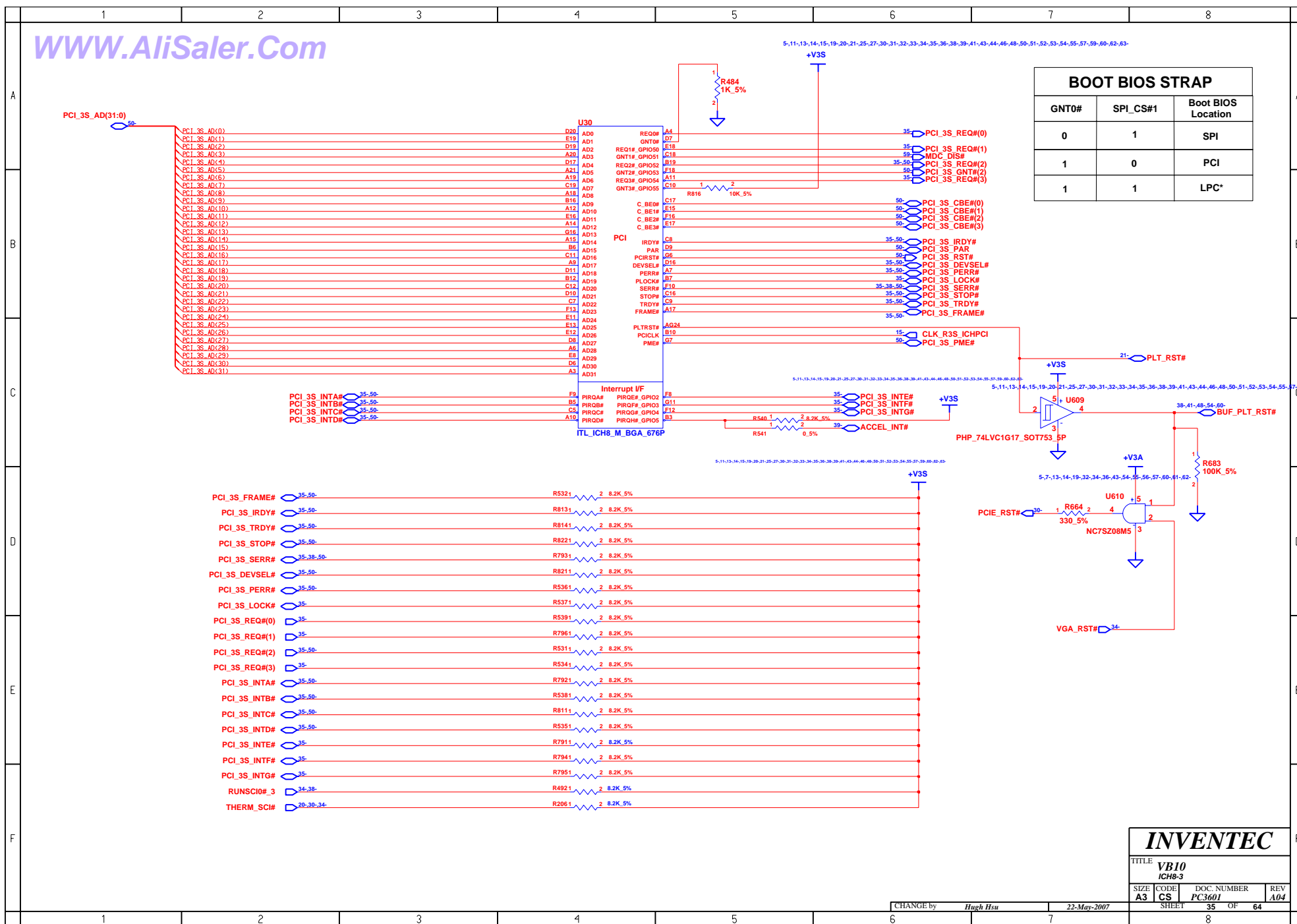






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| SIZE A3           | CODE CS | DOC. NUMBER PC3601 | REV A04 |
| SHEET 34          |         | OF 64              |         |





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| C |                  |   |   |   |   |   |   |   | C |
| D |                  |   |   |   |   |   |   |   | D |
| E |                  |   |   |   |   |   |   |   | E |
| F |                  |   |   |   |   |   |   |   | F |
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U30

A23 VS8001 VSS099 K7  
AA1 VS8002 VSS100 L1  
AA2 VS8003 VSS101 L13  
AA7 VS8004 VSS102 L15  
AA5 VS8005 VSS103 L26  
AB1 VS8006 VSS104 L27  
AB24 VS8007 VSS105 L4  
AC11 VS8008 VSS106 L5  
AC14 VS8009 VSS107 M2  
AC25 VS8010 VSS108 M13  
AC26 VS8011 VSS109 M14  
AC27 VS8012 VSS110 M15  
AD17 VS8013 VSS111 M16  
AD20 VS8014 VSS112 M17  
AD28 VS8015 VSS113 M23  
AD29 VS8016 VSS114 M28  
AD1 VS8017 VSS115 M29  
AD4 VS8018 VSS116 M3  
AD6 VS8019 VSS117 N1  
AE1 VS8020 VSS118 N11  
AE12 VS8021 VSS119 N12  
AE2 VS8022 VSS120 N13  
AE22 VS8023 VSS121 N14  
AD1 VS8024 VSS122 N15  
AE24 VS8025 VSS123 N16  
AE5 VS8026 VSS124 N17  
AE6 VS8027 VSS125 N18  
AE9 VS8028 VSS126 N26  
AF14 VS8029 VSS127 N27  
AF16 VS8030 VSS128 N4  
AF18 VS8031 VSS129 N5  
AF3 VS8032 VSS130 N6  
AF4 VS8033 VSS131 P12  
AG5 VS8034 VSS132 P13  
AG6 VS8035 VSS133 P14  
AH10 VS8036 VSS134 P15  
AH13 VS8037 VSS135 P16  
AH16 VS8038 VSS136 P17  
AH19 VS8039 VSS137 P23  
AH2 VS8040 VSS138 P28  
AF28 VS8041 VSS139 P29  
AH22 VS8042 VSS140 R11  
AH24 VS8043 VSS141 R12  
AH26 VS8044 VSS142 R13  
AH3 VS8045 VSS143 R14  
AH4 VS8046 VSS144 R15  
AH8 VS8047 VSS145 R16  
AJ5 VS8048 VSS146 R17  
B11 VS8049 VSS147 R18  
B14 VS8050 VSS148 R28  
B17 VS8051 VSS149 T12  
B2 VS8052 VSS150 T13  
B20 VS8053 VSS151 T14  
B22 VS8054 VSS152 T15  
B8 VS8055 VSS153 T16  
C24 VS8056 VSS154 T17  
C26 VS8057 VSS155 T2  
C27 VS8058 VSS156 U12  
C6 VS8059 VSS157 U13  
D12 VS8060 VSS158 U14  
D15 VS8061 VSS159 U15  
D18 VS8062 VSS160 U16  
D2 VS8063 VSS161 U17  
D4 VS8064 VSS162 U23  
E21 VS8065 VSS163 U29  
E24 VS8066 VSS164 U27  
E4 VS8067 VSS165 U3  
E9 VS8068 VSS166 U5  
F15 VS8069 VSS167 V13  
F23 VS8070 VSS168 V15  
F28 VS8071 VSS169 V28  
F29 VS8072 VSS170 V29  
F7 VS8073 VSS171 W2  
G1 VS8074 VSS172 W26  
G2 VS8075 VSS173 W27  
G10 VS8076 VSS174 Y28  
G13 VS8077 VSS175 Y4  
G19 VS8078 VSS176 Y29  
G23 VS8079 VSS177 AB4  
G25 VS8080 VSS178 AB23  
G26 VS8081 VSS179 AB5  
G27 VS8082 VSS180 AB6  
H25 VS8083 VSS181 AD5  
H28 VS8084 VSS182 JA  
H29 VS8085 VSS183 W24  
H1 VS8086 VSS184 A1  
H6 VS8087 VSS\_NCTF\_01 A2  
J1 VS8088 VSS\_NCTF\_02 A28  
J2 VS8089 VSS\_NCTF\_03 A29  
J26 VS8090 VSS\_NCTF\_04 AH1  
J27 VS8091 VSS\_NCTF\_05 AH29  
J4 VS8092 VSS\_NCTF\_06 A11  
J5 VS8093 VSS\_NCTF\_07 A12  
K21 VS8094 VSS\_NCTF\_08 AJ28  
K28 VS8095 VSS\_NCTF\_09 AJ29  
K29 VS8096 VSS\_NCTF\_010 B1  
K3 VS8097 VSS\_NCTF\_011 B29  
K6 VS8098 VSS\_NCTF\_012

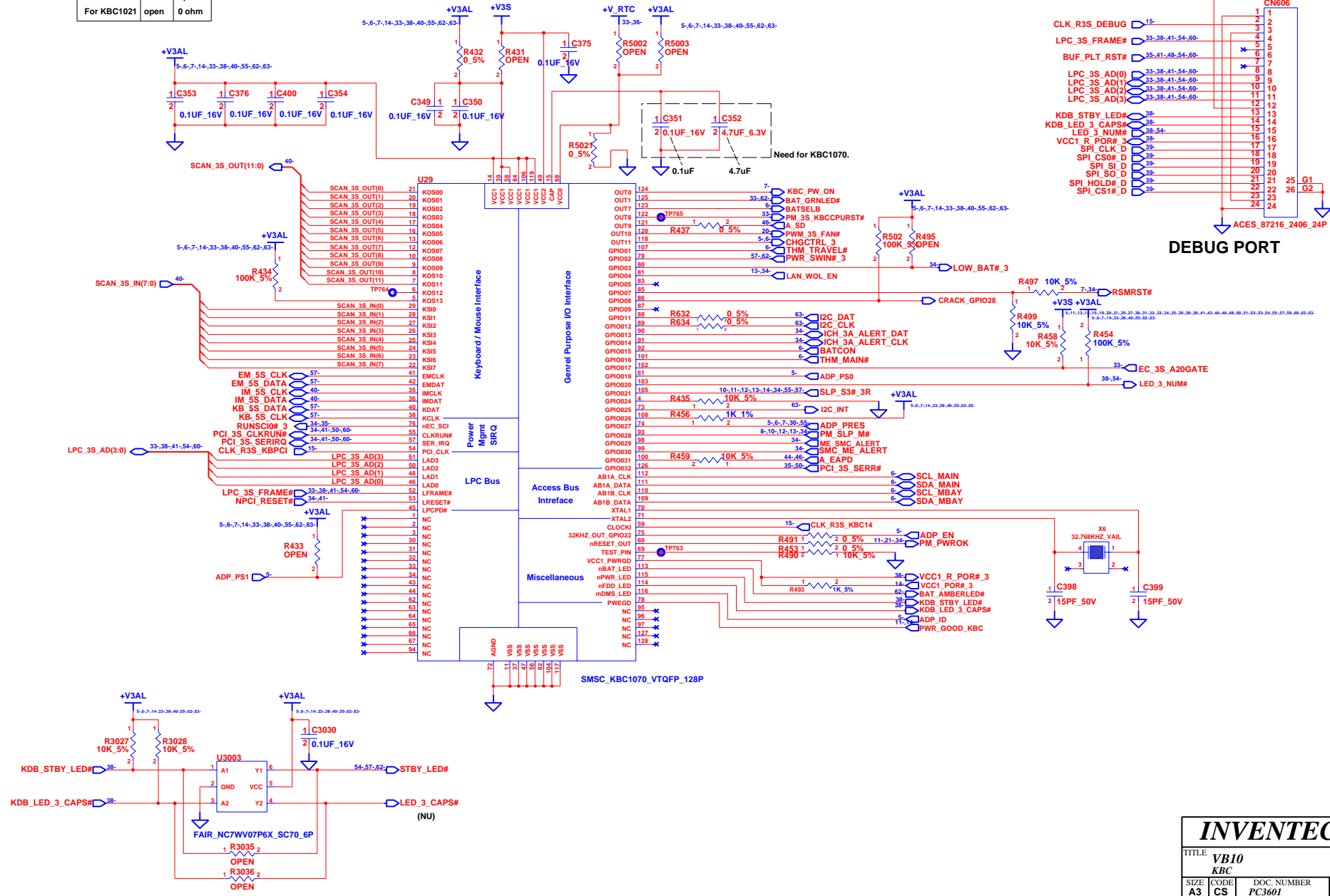
ITL\_ICH8\_M\_BGA\_676P



|                   |         |                    |         |
|-------------------|---------|--------------------|---------|
| INVENTEC          |         |                    |         |
| TITLE VB10 ICH8-5 |         |                    |         |
| SIZE A3           | CODE CS | DOC. NUMBER PC3601 | REV A04 |
| SHEET 37          |         | OF 64              |         |

CHANGE by Hugh Hsu 22-May-2007

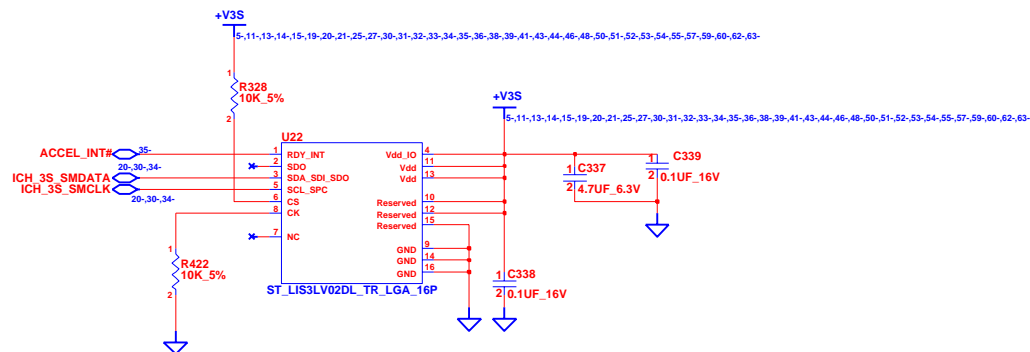
|             |       |       |
|-------------|-------|-------|
| Note:       | R416  | R415  |
| For KBC1070 | 0 ohm | open  |
| For KBC1021 | open  | 0 ohm |



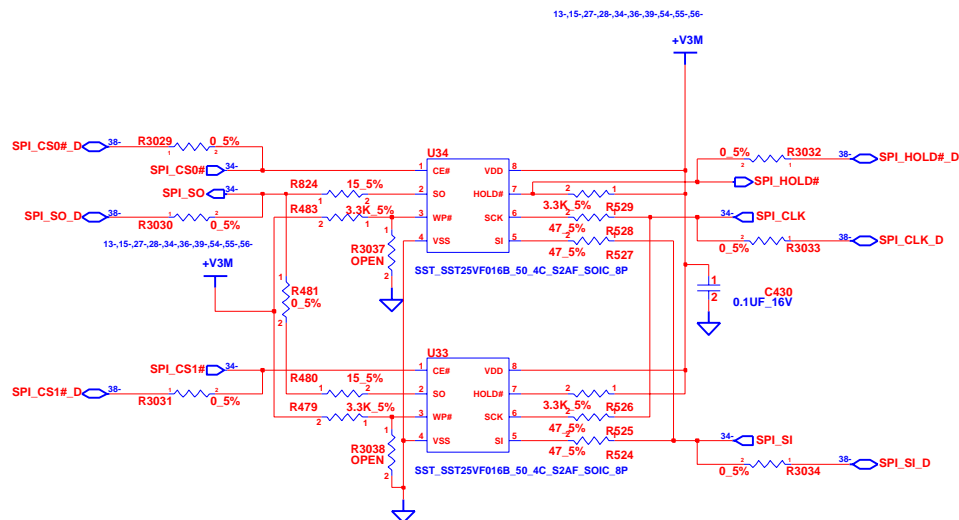
INVENTEC

|             |         |
|-------------|---------|
| TITLE       | VB10    |
| CODE        | KBC     |
| SIZE        | A3      |
| CS          | PC3601  |
| DOC. NUMBER | REV A04 |
| SHEET       | 38      |
| OF          | 64      |

CHANGE by: Hugh Hsu 22-May-2007



## HARDDRIVE PROTECTION



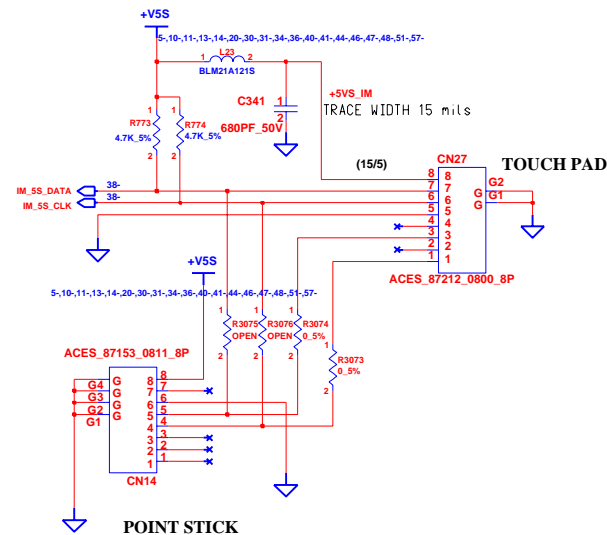
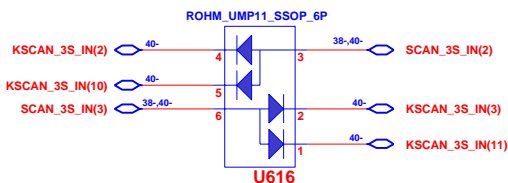
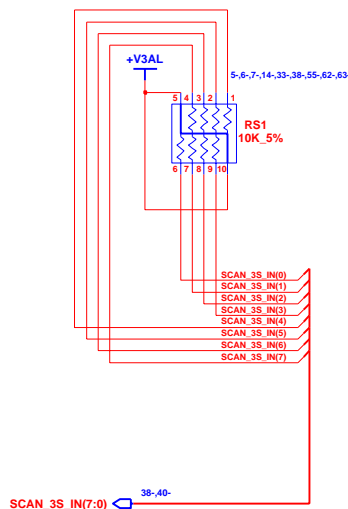
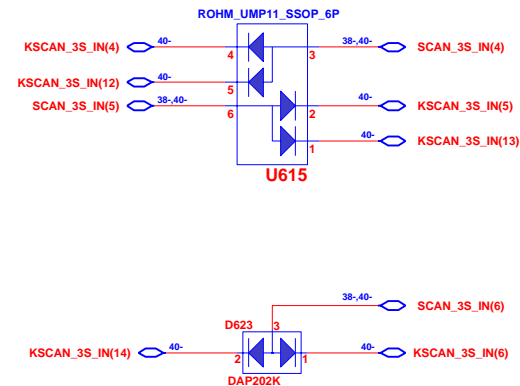
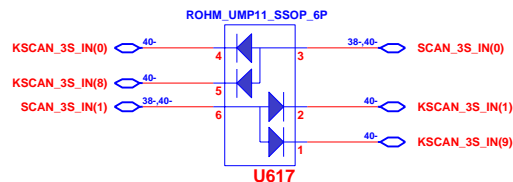
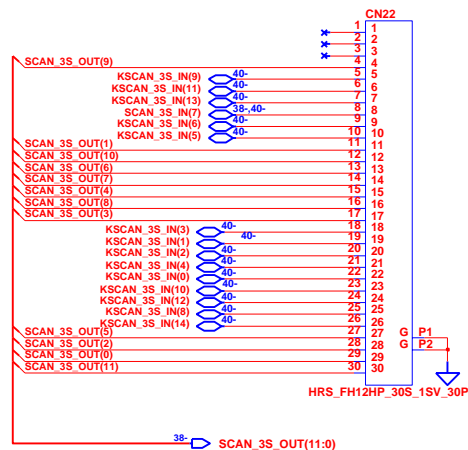
## SPI BIOS

**INVENTEC**

|                    |      |             |     |
|--------------------|------|-------------|-----|
| TITLE              |      |             |     |
| VB10               |      |             |     |
| SPI/HDD PROTECTION |      |             |     |
| SIZE               | CODE | DOC. NUMBER | REV |
| A3                 | CS   | PC3601      | A04 |

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 39 OF 64



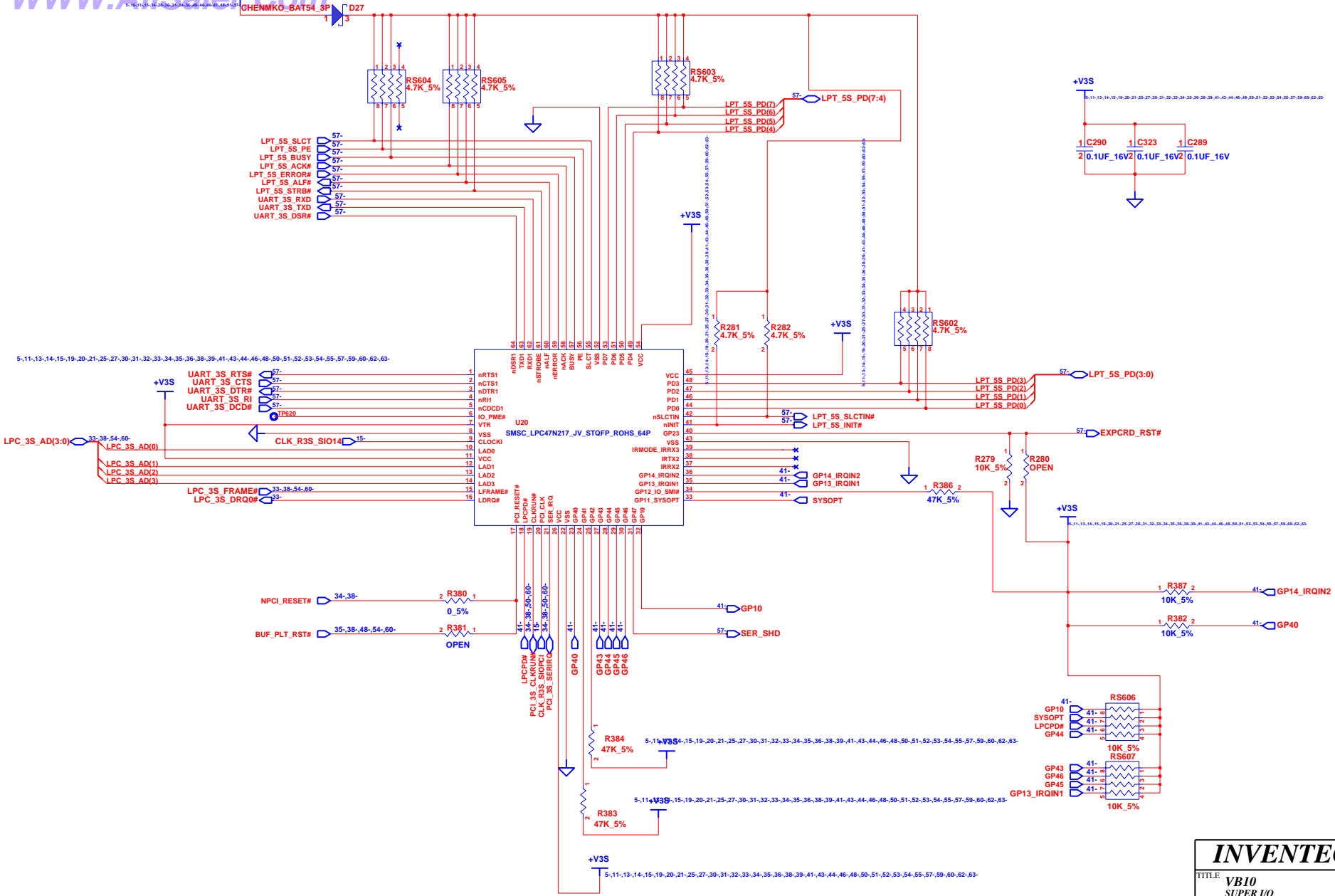
**INVENTEC**

TITLE  
**VB10**  
INT.KB/POINT DEVICES  
SIZE CODE CS DOC. NUMBER REV  
**A3 PC3601 A04**

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 40 OF 64





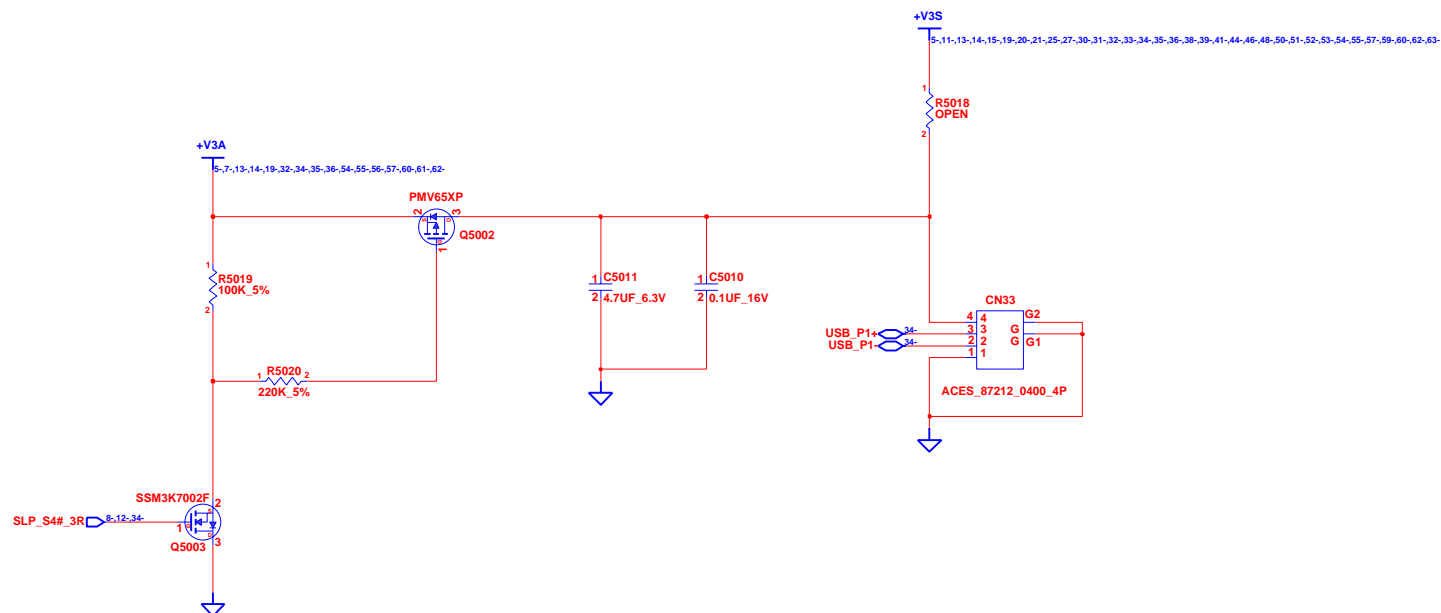
|                                 |                   |                              |                   |
|---------------------------------|-------------------|------------------------------|-------------------|
| <b>INVENTEC</b>                 |                   |                              |                   |
| TITLE <b>VB10<br/>SUPER I/O</b> |                   |                              |                   |
| SIZE<br><b>A3</b>               | CODE<br><b>CS</b> | DOC. NUMBER<br><b>PC3601</b> | REV<br><b>A04</b> |
| SHEET <b>41</b>                 |                   | OF <b>64</b>                 |                   |

|   |                         |   |   |   |   |   |   |   |   |
|---|-------------------------|---|---|---|---|---|---|---|---|
|   | 1                       | 2 | 3 | 4 | 5 | 6 | 7 | 8 |   |
| A | <i>WWW.AliSaler.Com</i> |   |   |   |   |   |   |   | A |
| B |                         |   |   |   |   |   |   |   | B |
| C |                         |   |   |   |   |   |   |   | C |
| D |                         |   |   |   |   |   |   |   | D |
| E |                         |   |   |   |   |   |   |   | E |
| F |                         |   |   |   |   |   |   |   | F |
|   | 1                       | 2 | 3 | 4 | 5 | 6 | 7 | 8 |   |

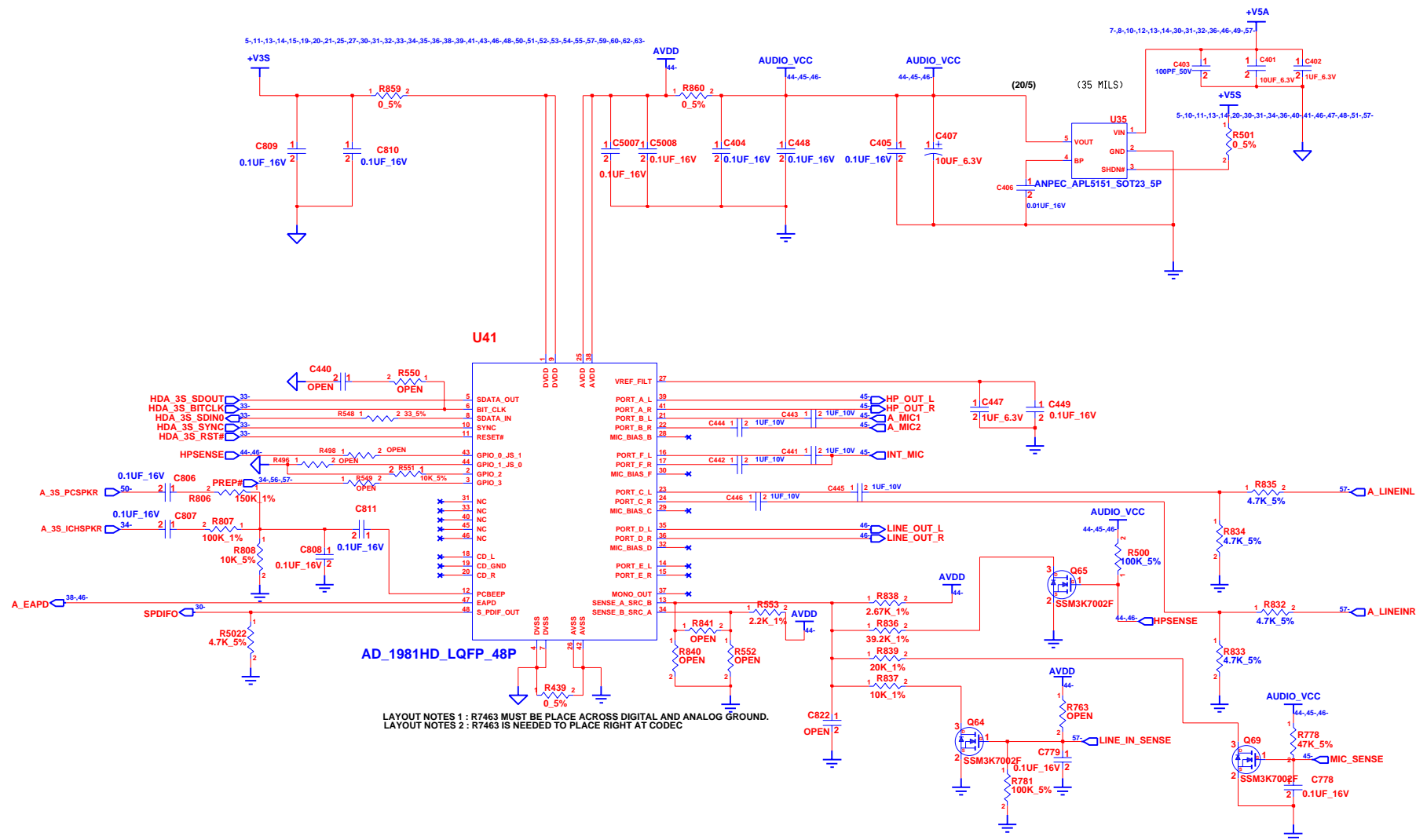
BLANK

| INVENTEC                       |                   |                              |                   |
|--------------------------------|-------------------|------------------------------|-------------------|
| TITLE<br><i>VB10<br/>BLANK</i> |                   |                              |                   |
| SIZE<br><b>A3</b>              | CODE<br><b>CS</b> | DOC. NUMBER<br><i>PC3601</i> | REV<br><i>A04</i> |
| SHEET                          |                   | 42                           | OF 64             |

CHANGE by *Hugh Hsu* 22-May-2007



| INVENTEC                           |            |                       |                      |
|------------------------------------|------------|-----------------------|----------------------|
| TITLE<br>VB10<br>FINGER PRINT CONN |            |                       |                      |
| SIZE<br>A3                         | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04           |
| CHANGE by<br>Hugh Hsu              |            | 22-May-2007           | SHEET<br>43 OF<br>64 |



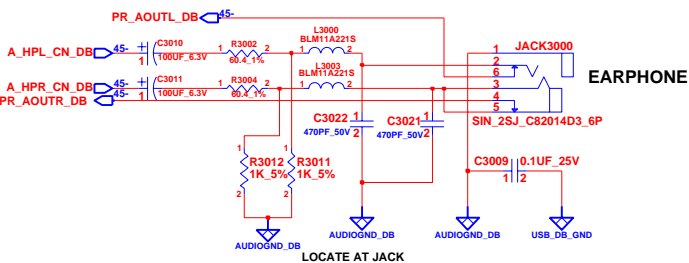
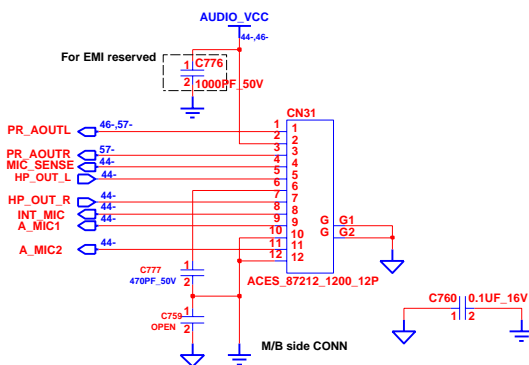
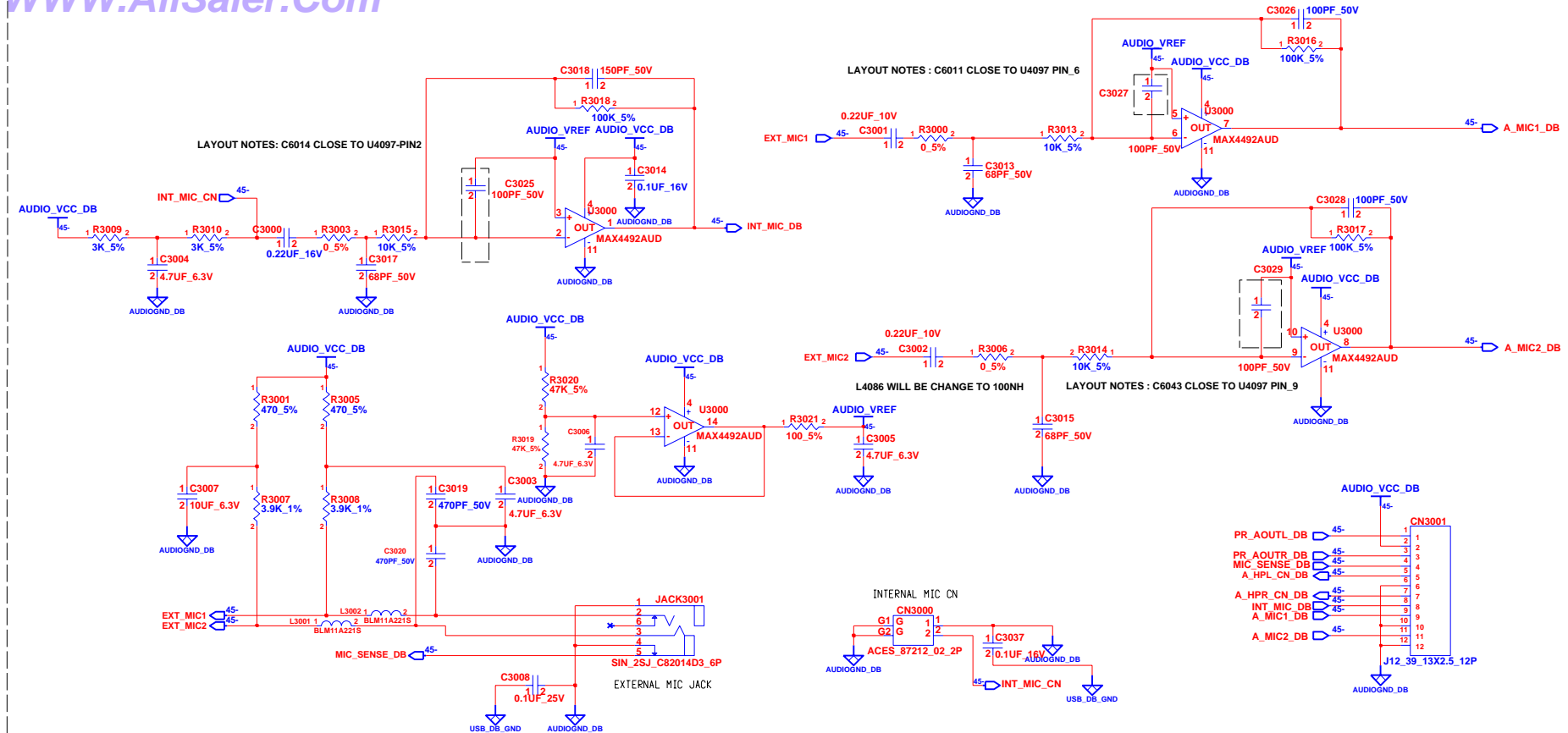
**INVENTEC**

TITLE  
**VB10**  
**AZALIA CODEC**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | PC3601      | A04 |

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 44 OF 64

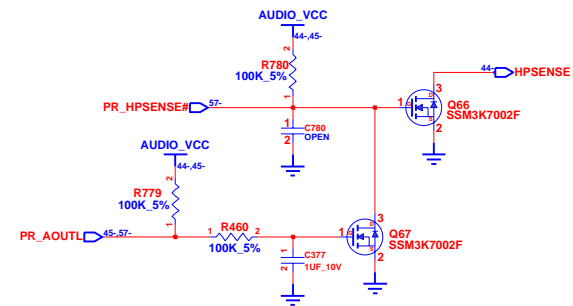
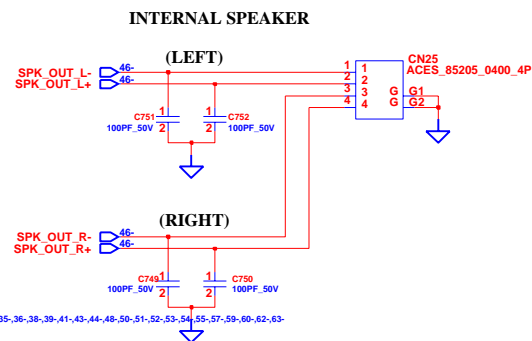
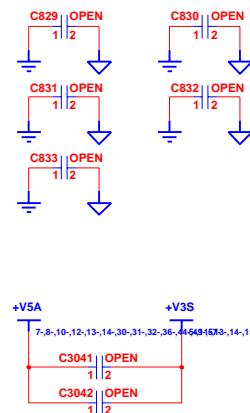
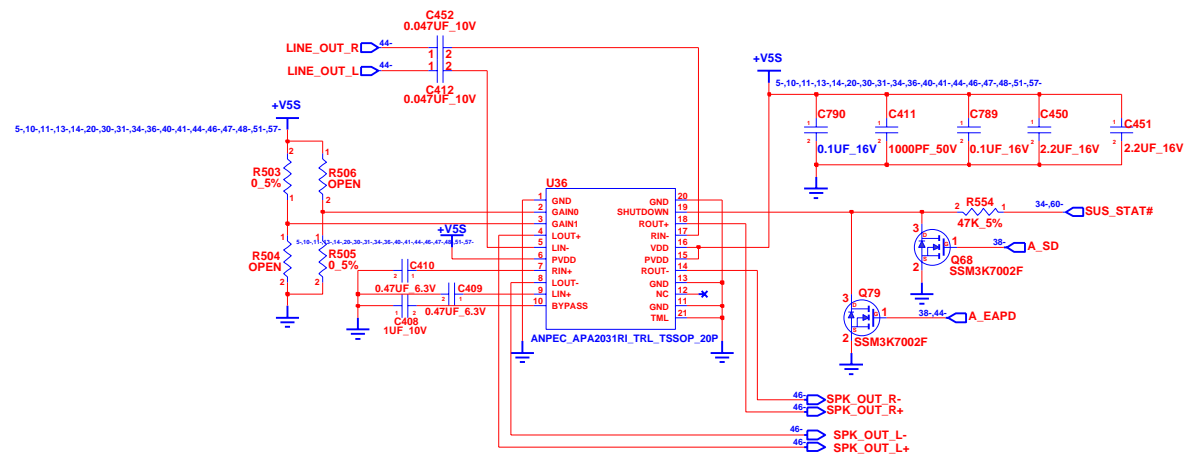


## MIC AND HEADPHONE DAUGHTER BOARD

**INVENTEC**

|                              |            |                       |            |
|------------------------------|------------|-----------------------|------------|
| TITLE<br>VB10<br>EQ&MIC JACK |            |                       |            |
| SIZE<br>A3                   | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04 |
| SHEET                        |            | 45                    | OF 64      |

CHANGE by: Hugh Hsu 22-May-2007



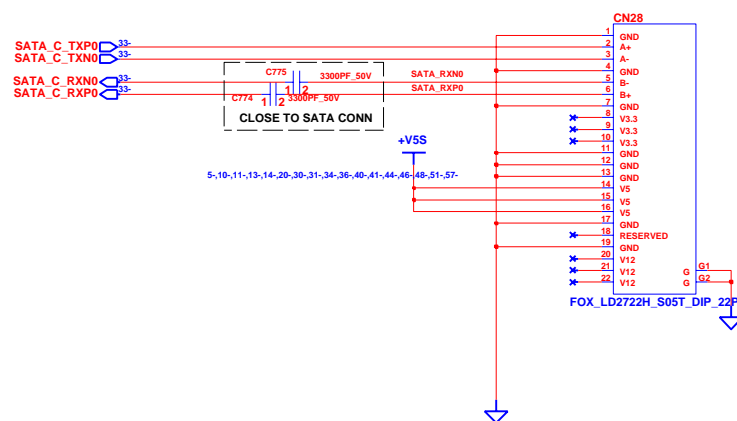
**INVENTEC**

TITLE  
**VB10**  
**AUDIO AMP & HP JACK**

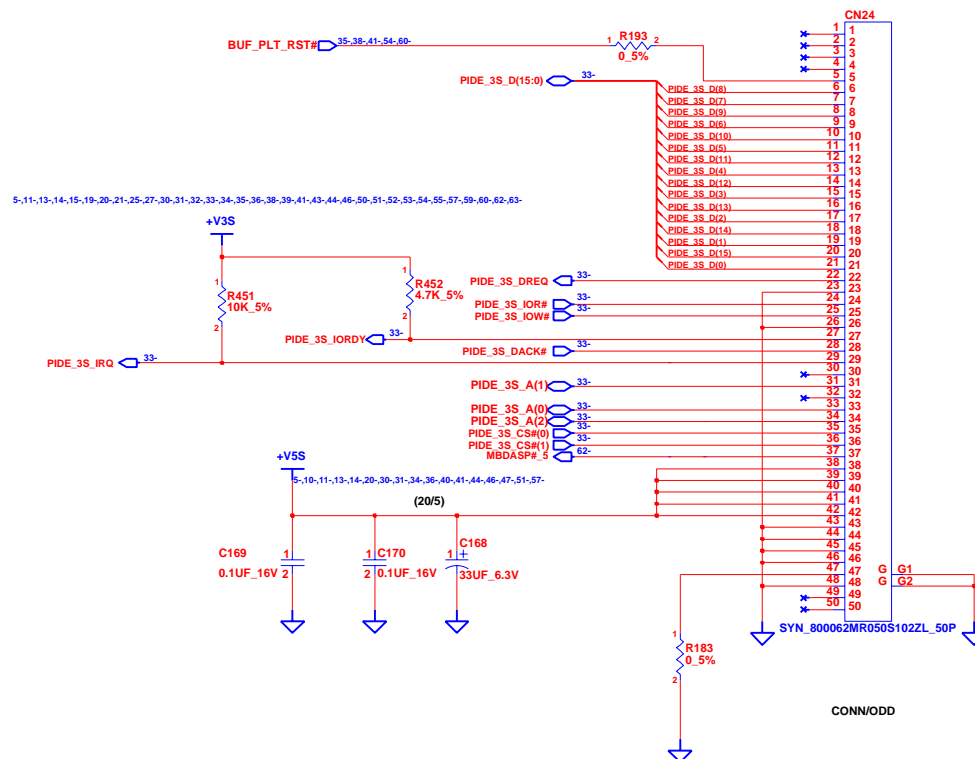
SIZE CODE DOC. NUMBER REV  
**A3 CS PC3601 A04**

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 46 OF 64



| INVENTEC                  |            |                       |                      |
|---------------------------|------------|-----------------------|----------------------|
| TITLE<br>VB10<br>HDD CONN |            |                       |                      |
| SIZE<br>A3                | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04           |
| CHANGE by<br>Hugh Hsu     |            | 22-May-2007           | SHEET<br>47 OF<br>64 |



**INVENTEC**

TITLE  
**VB10  
ODD CONN**

SIZE CODE CS DOC. NUMBER PC3601 REV A04

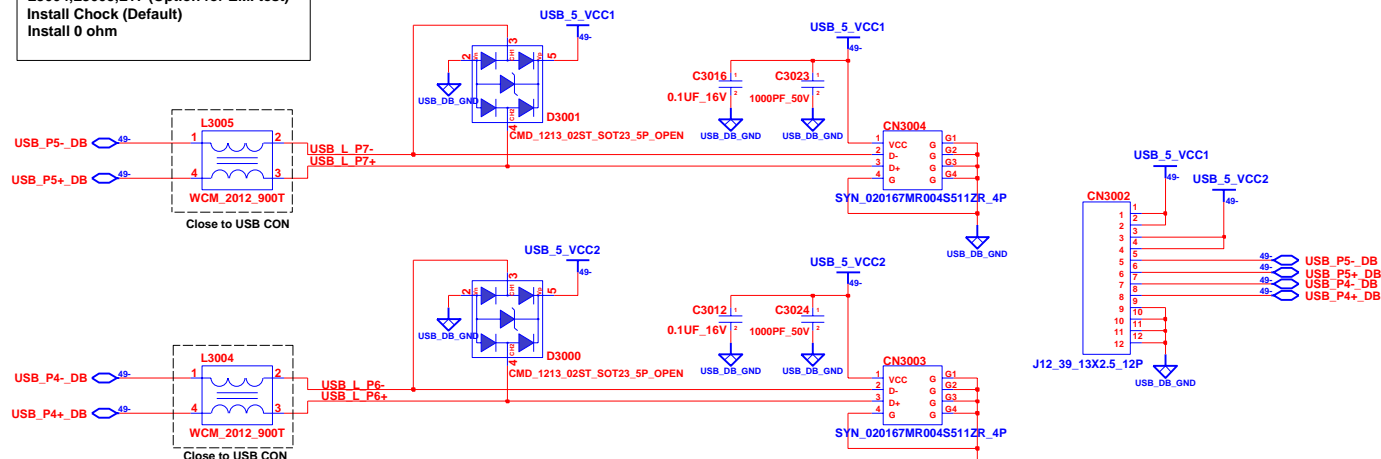
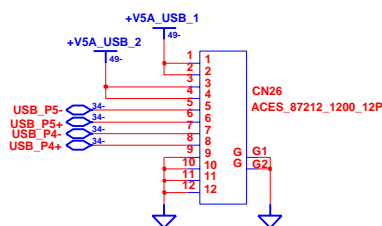
CHANGE by Hugh Hsu 22-May-2007

SHEET 48 OF 64

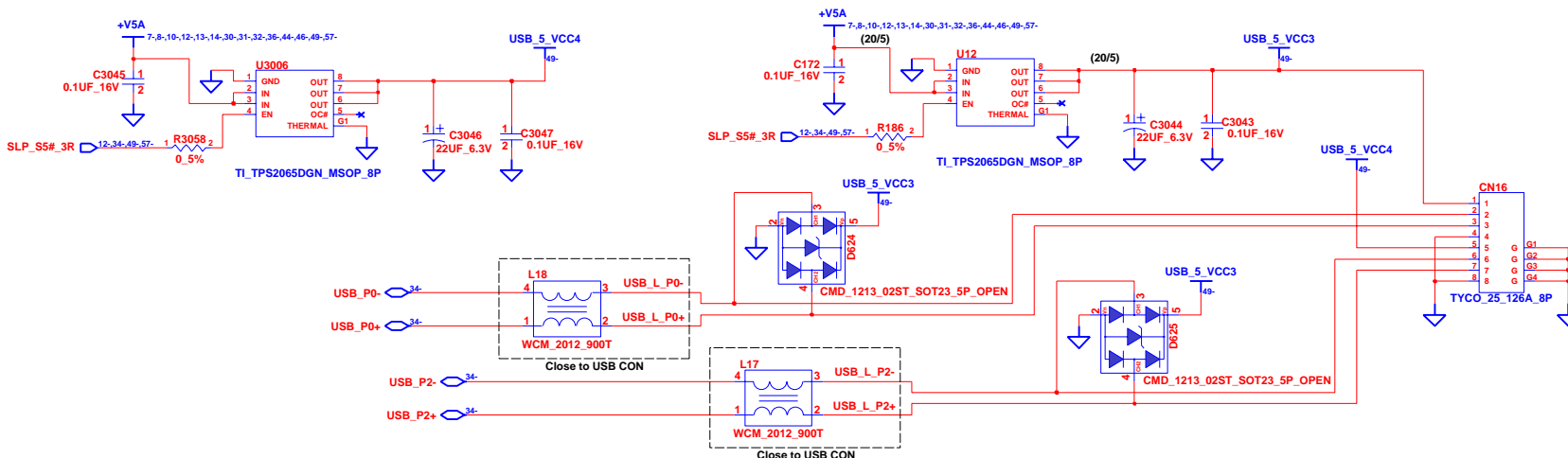




NOTES:  
L3004,L3005,L17 (Option for EMI test)  
Install Chock (Default)  
Install 0 ohm



(USB Daughter Board)



INVENTEC

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| TITLE<br>VB10<br>USB CONN |            |                       |            |
| SIZE<br>A3                | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04 |

CHANGE by: Hugh Hsu 22-May-2007 SHEET 49 OF 64

A

B

C

D

E

F

A

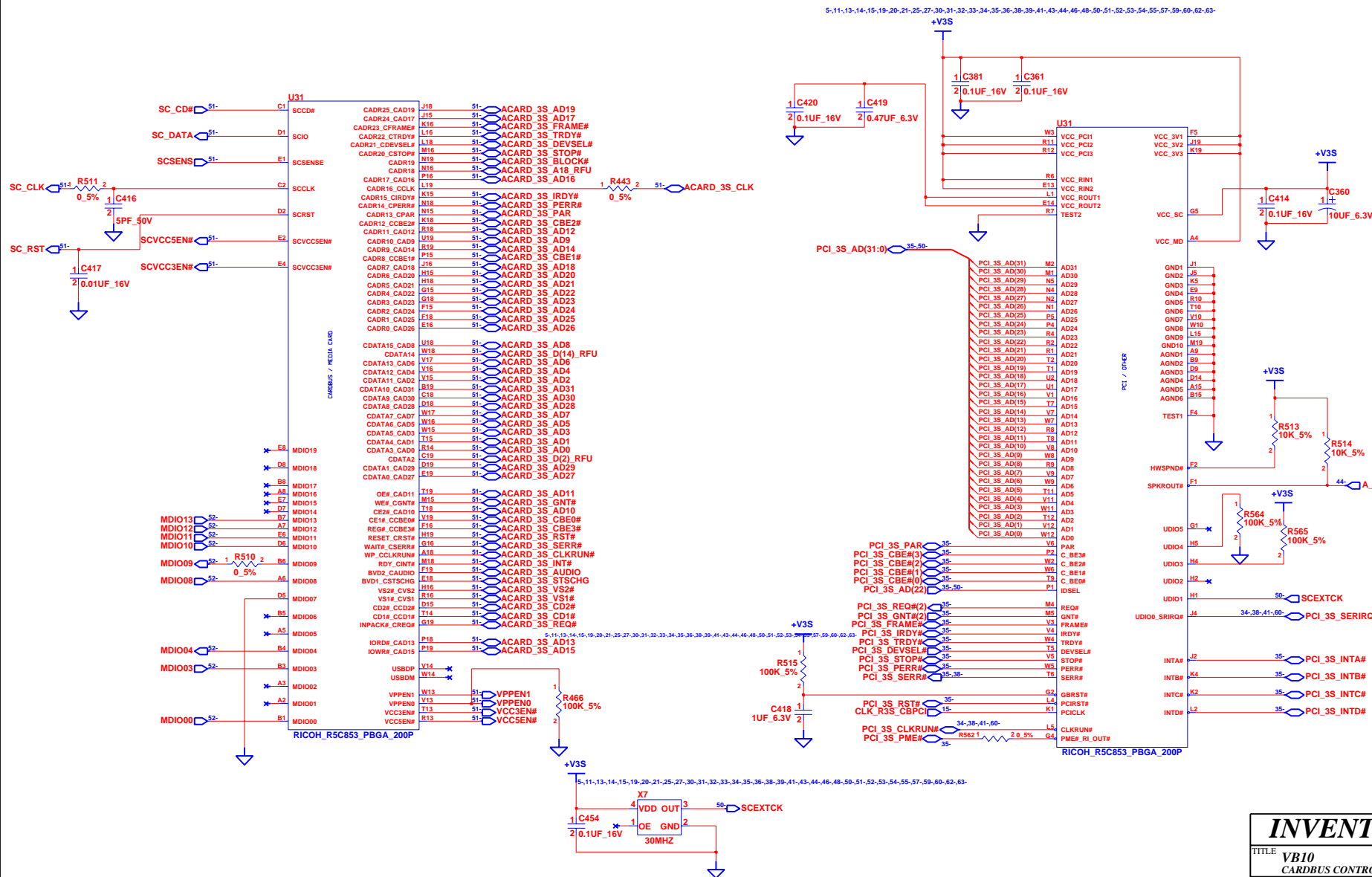
B

C

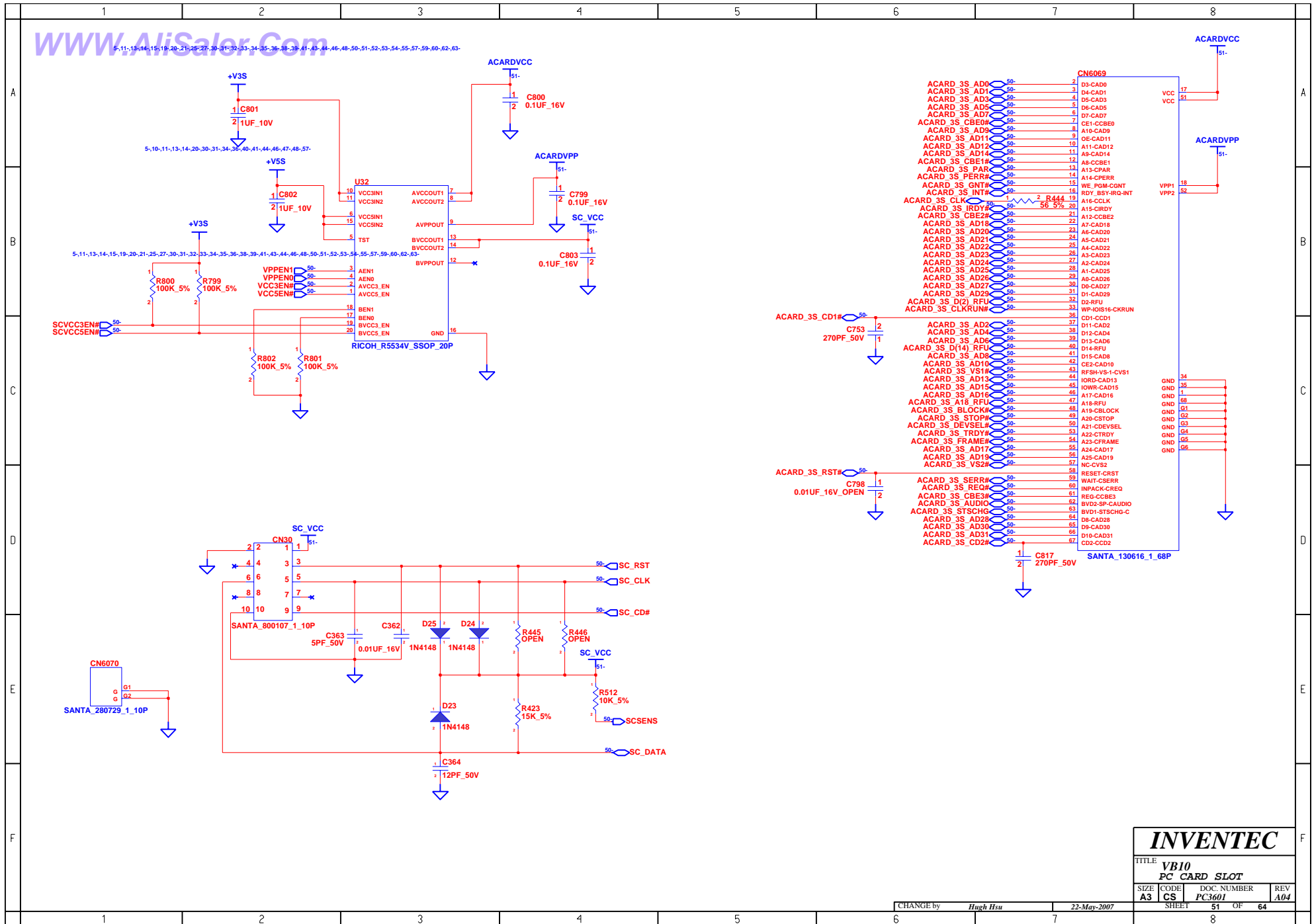
D

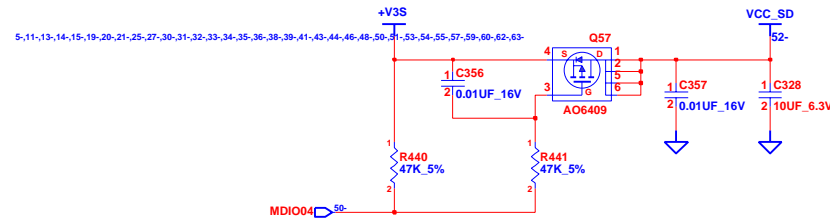
E

F

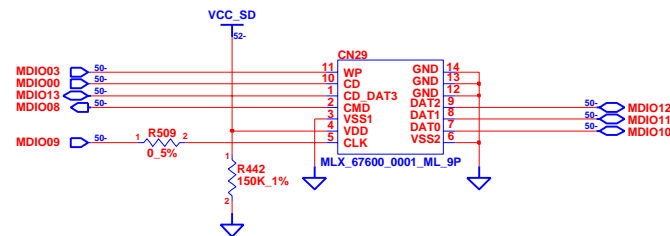


| INVENTEC                            |            |                       |            |
|-------------------------------------|------------|-----------------------|------------|
| TITLE<br>VB10<br>CARDBUS CONTROLLER |            |                       |            |
| SIZE<br>A3                          | CODE<br>CS | DOC. NUMBER<br>PC3601 | REV<br>A04 |
| CHANGE by<br>Hugh Hsu               |            | 22-May-2007           |            |
| SHEET<br>50                         |            | OF<br>64              |            |
|                                     |            | 8                     |            |

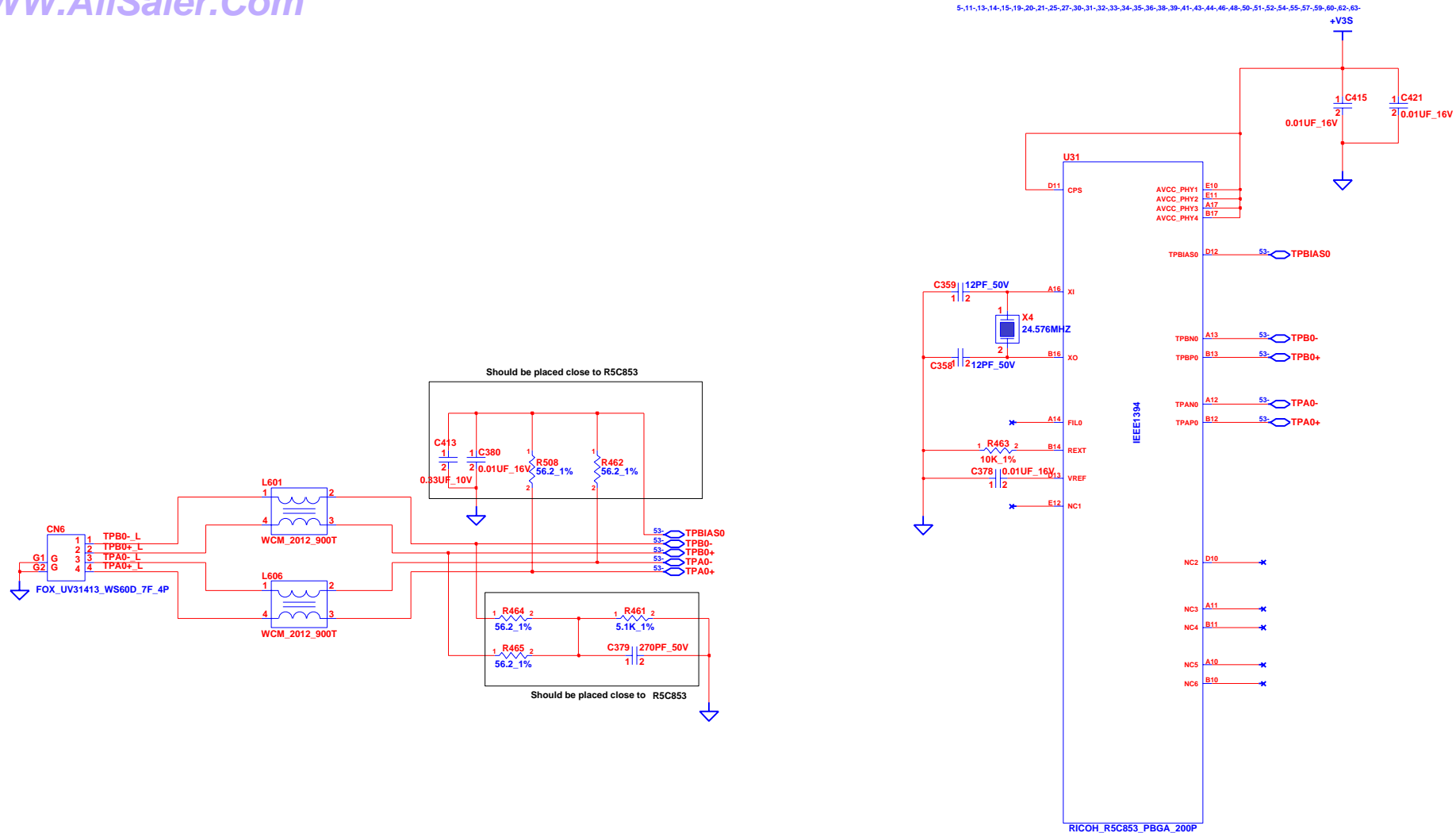




### SD CARD POWER



| INVENTEC          |      |             |       |
|-------------------|------|-------------|-------|
| TITLE             |      |             |       |
| VB10              |      |             |       |
| SD CARD CONN & IR |      |             |       |
| SIZE              | CODE | DOC. NUMBER | REV   |
| A3                | CS   | PC3601      | A04   |
| CHANGE by         |      | 22-May-2007 |       |
| HUGH HSU          |      |             |       |
| SHEET             |      | 52          | OF 64 |
|                   |      | 8           |       |



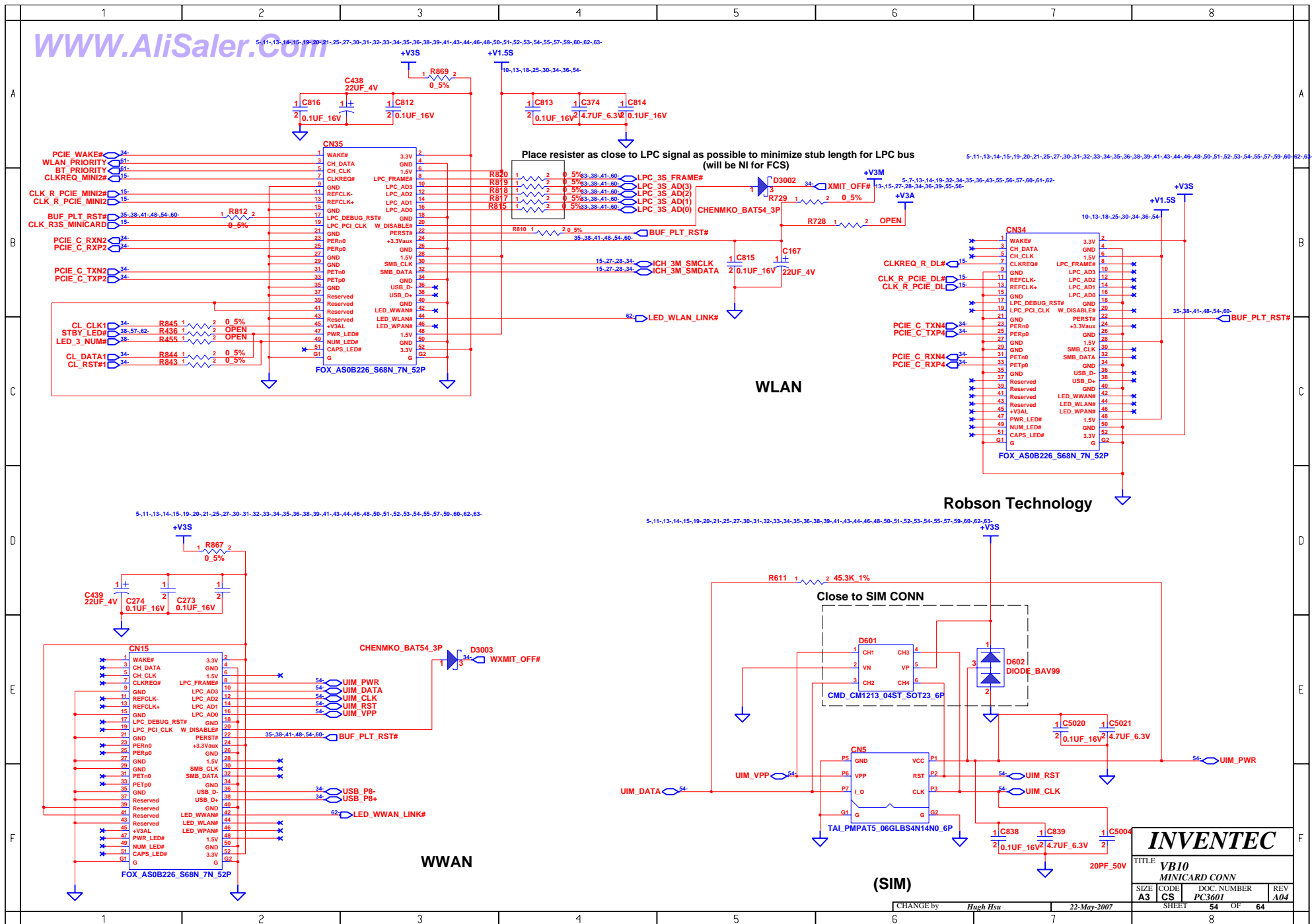
INVENTEC

TITLE  
VB10  
1394 CONN

SIZE CODE DOC. NUMBER REV  
A3 CS PC3601 A04

CHANGE by Hugh Hsu 22-May-2007

SHEET 53 OF 64



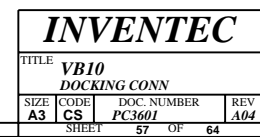


|           |           |               |   |
|-----------|-----------|---------------|---|
| TITLE     |           |               | <b><i>VB10</i></b><br><b><i>LAN INTERFACE-I</i></b> |
| SIZE      | CODE      | DOC. NUMBER   |   |
| <b>A3</b> | <b>CS</b> | <b>PC3601</b> |   |
| SHEET     |           | <b>55</b>     | OF  |

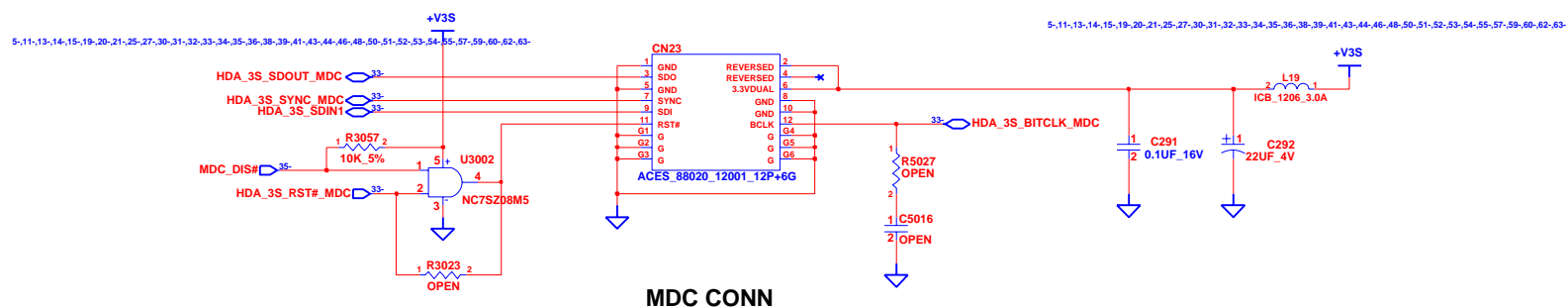
|                           |  |             |                |  |
|---------------------------|--|-------------|----------------|--|
| CHANGE by <i>Hugh Hsu</i> |  | 22-May-2007 | SHEET 55 OF 64 |  |
|---------------------------|--|-------------|----------------|--|





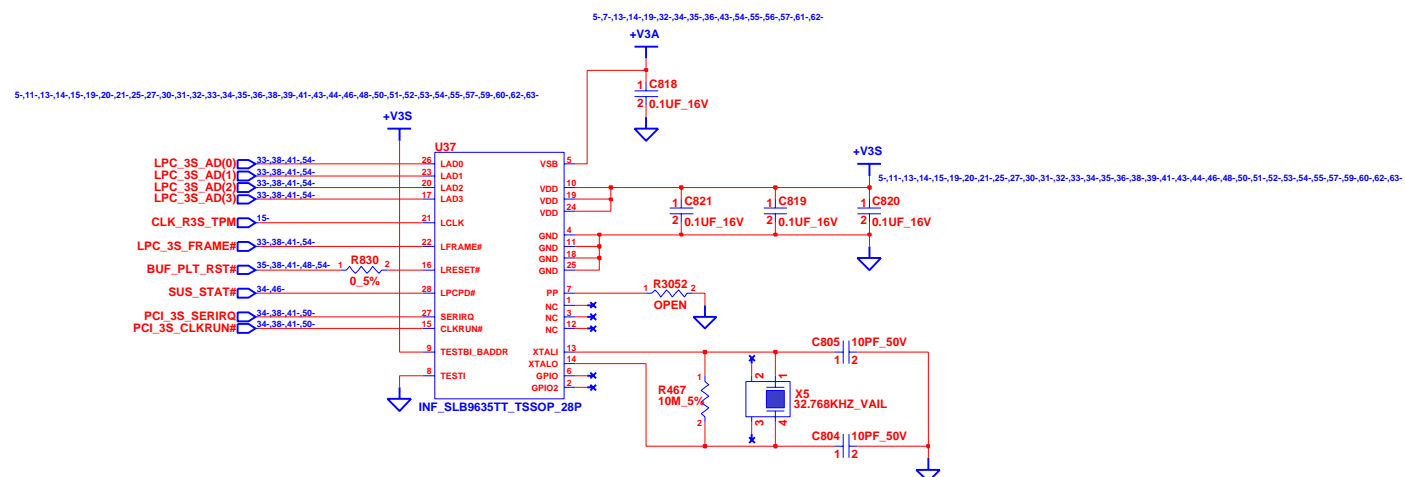






| INVENTEC          |                |                           |                |
|-------------------|----------------|---------------------------|----------------|
| TITLE <b>VB10</b> |                |                           |                |
| MDC CONN          |                |                           |                |
| SIZE <b>A3</b>    | CODE <b>CS</b> | DOC. NUMBER <b>PC3601</b> | REV <b>A04</b> |
| SHEET <b>59</b>   |                | OF <b>64</b>              |                |

CHANGE by **Hugh Hsu** 22-May-2007



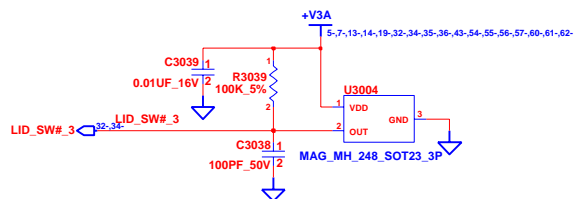
**INVENTEC**

|          |      |             |       |
|----------|------|-------------|-------|
| TITLE    |      |             |       |
| VB10     |      |             |       |
| TPM V1.2 |      |             |       |
| SIZE     | CODE | DOC. NUMBER | REV   |
| A3       | CS   | PC3601      | A04   |
| SHEET    |      | 60          | OF 64 |

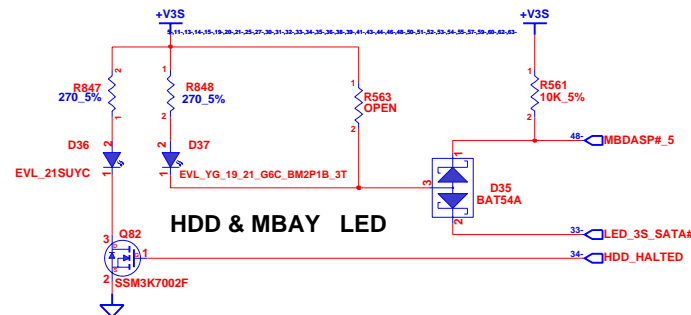
CHANGE by *Hugh Hsu* 22-May-2007



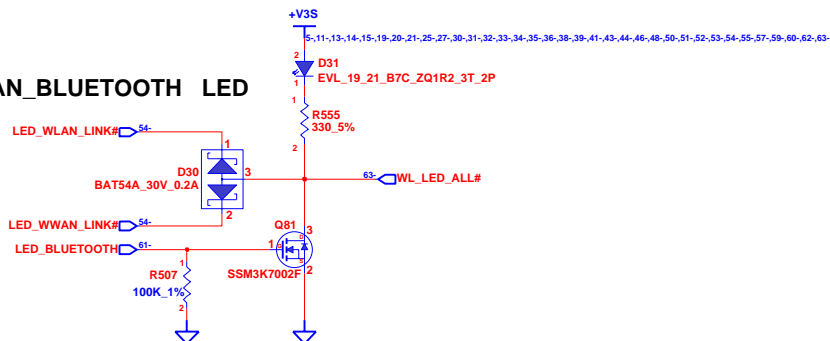
# LID SWITCH



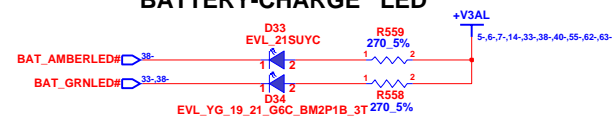
# HDD & MBAY LED



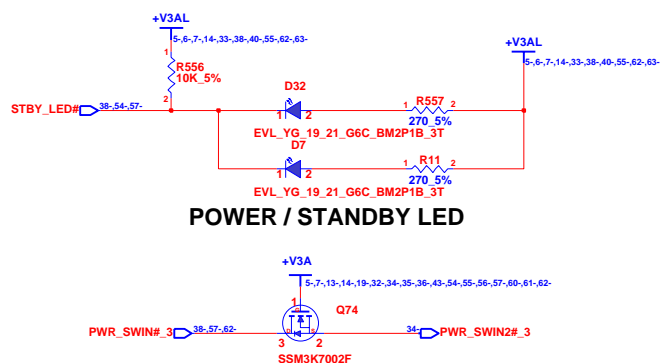
# WLAN\_WWAN\_BLUETOOTH LED



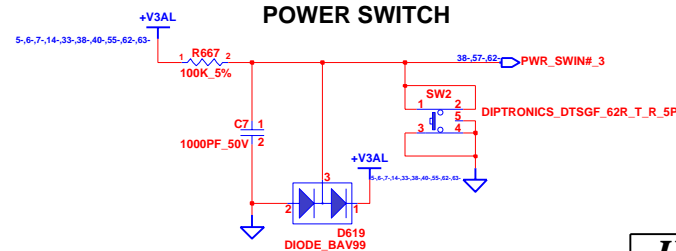
# BATTERY-CHARGE LED



# POWER / STANDBY LED



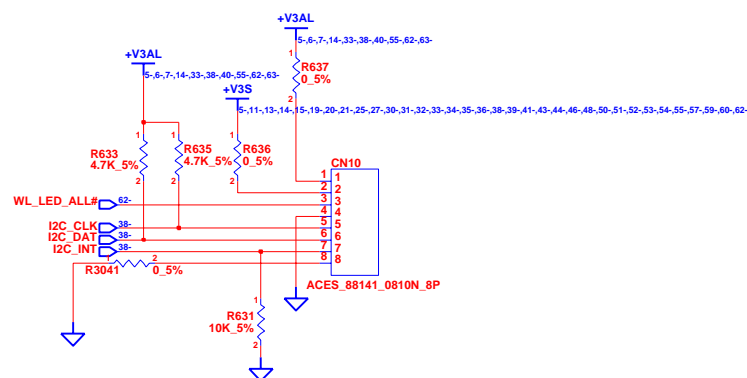
# POWER SWITCH



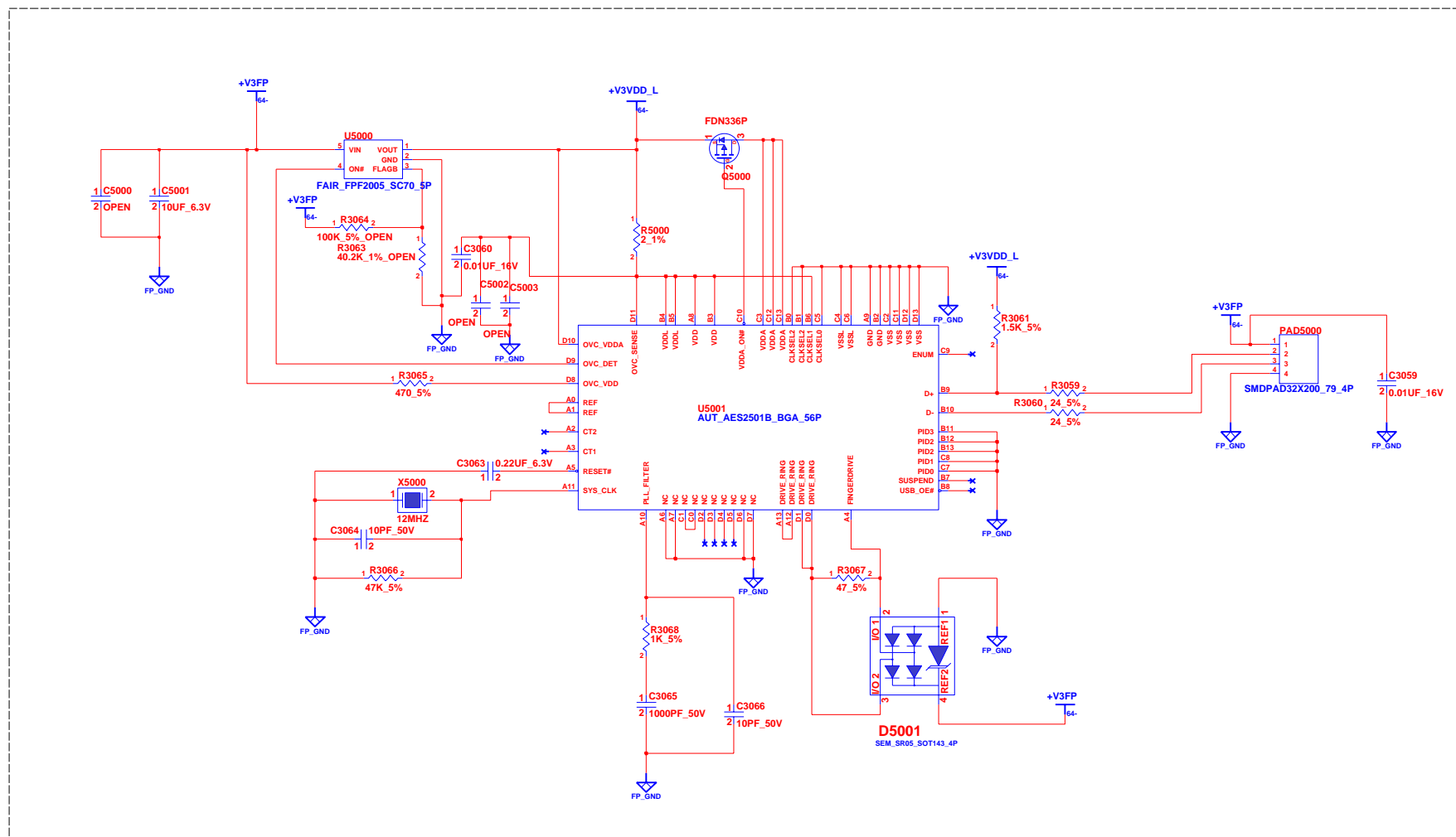
**INVENTEC**

|                  |      |             |       |
|------------------|------|-------------|-------|
| TITLE            |      |             |       |
| VB10             |      |             |       |
| LID SWITCH & LED |      |             |       |
| SIZE             | CODE | DOC. NUMBER | REV   |
| A3               | CS   | PC3601      | A04   |
| SHEET            |      | 62          | OF 64 |

CHANGE by *Hugh Hsu* 22-May-2007



| INVENTEC                     |         |                    |         |
|------------------------------|---------|--------------------|---------|
| TITLE VB10 POWER SWITCH CONN |         |                    |         |
| SIZE A3                      | CODE CS | DOC. NUMBER PC3601 | REV A04 |
| CHANGE by Hugh Hsu           |         | 22-May-2007        |         |
| SHEET 63                     |         | OF 64              |         |



## FINGER PRINT READER DB

**INVENTEC**

TITLE  
**VB10**  
Finger

|                   |                   |                              |                   |
|-------------------|-------------------|------------------------------|-------------------|
| SIZE<br><b>A3</b> | CODE<br><b>CS</b> | DOC. NUMBER<br><b>PC3601</b> | REV<br><b>A04</b> |
|-------------------|-------------------|------------------------------|-------------------|

CHANGE by *Hugh Hsu* 22-May-2007

SHEET 64 OF 64