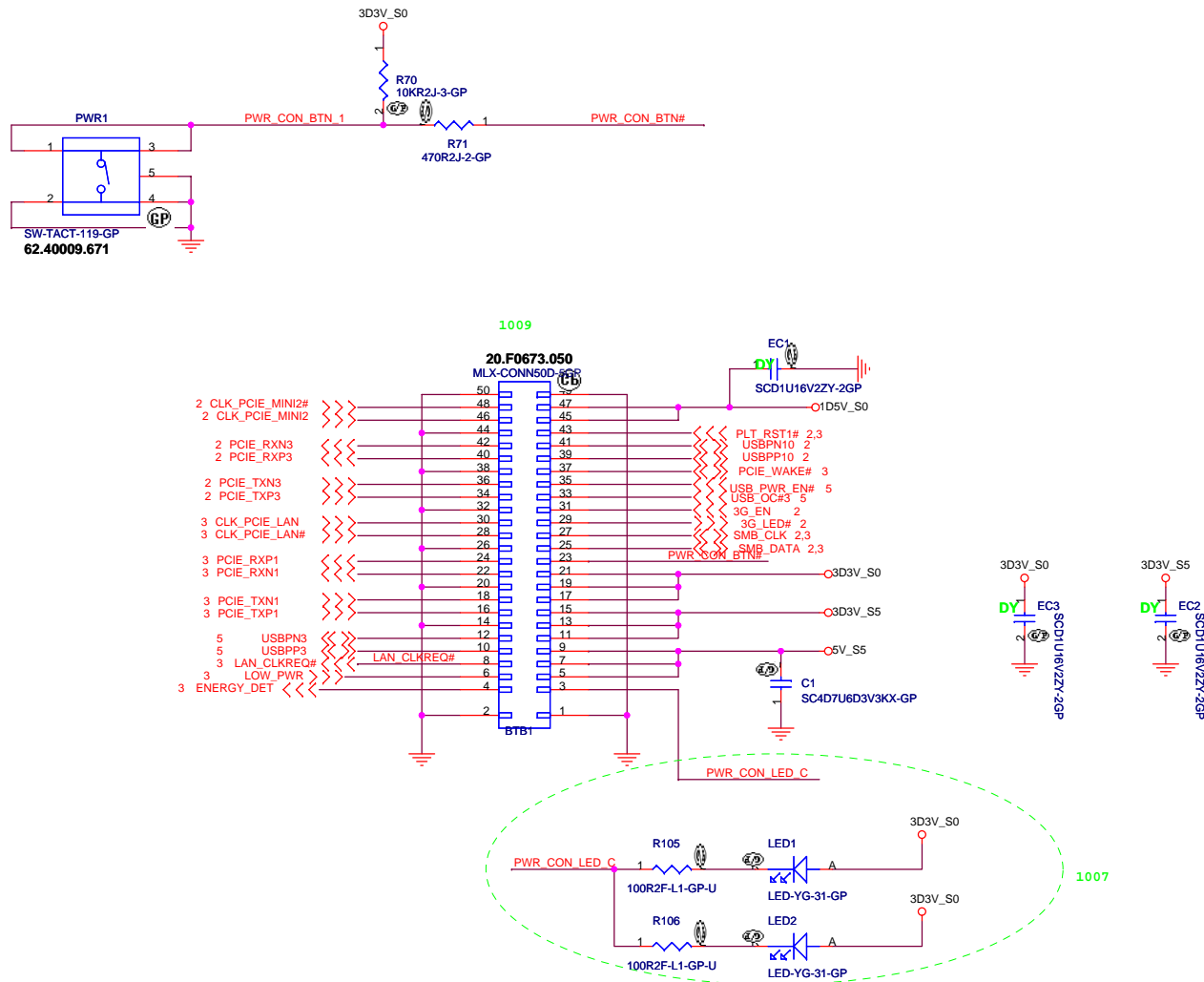


# SM30 Daughter Board

Project code: 91.4BT01.001  
 PCB P/N : 48.4BT01.  
 Revision : 08621-SA



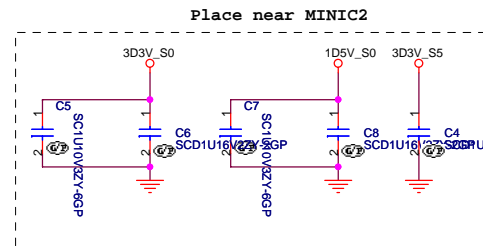
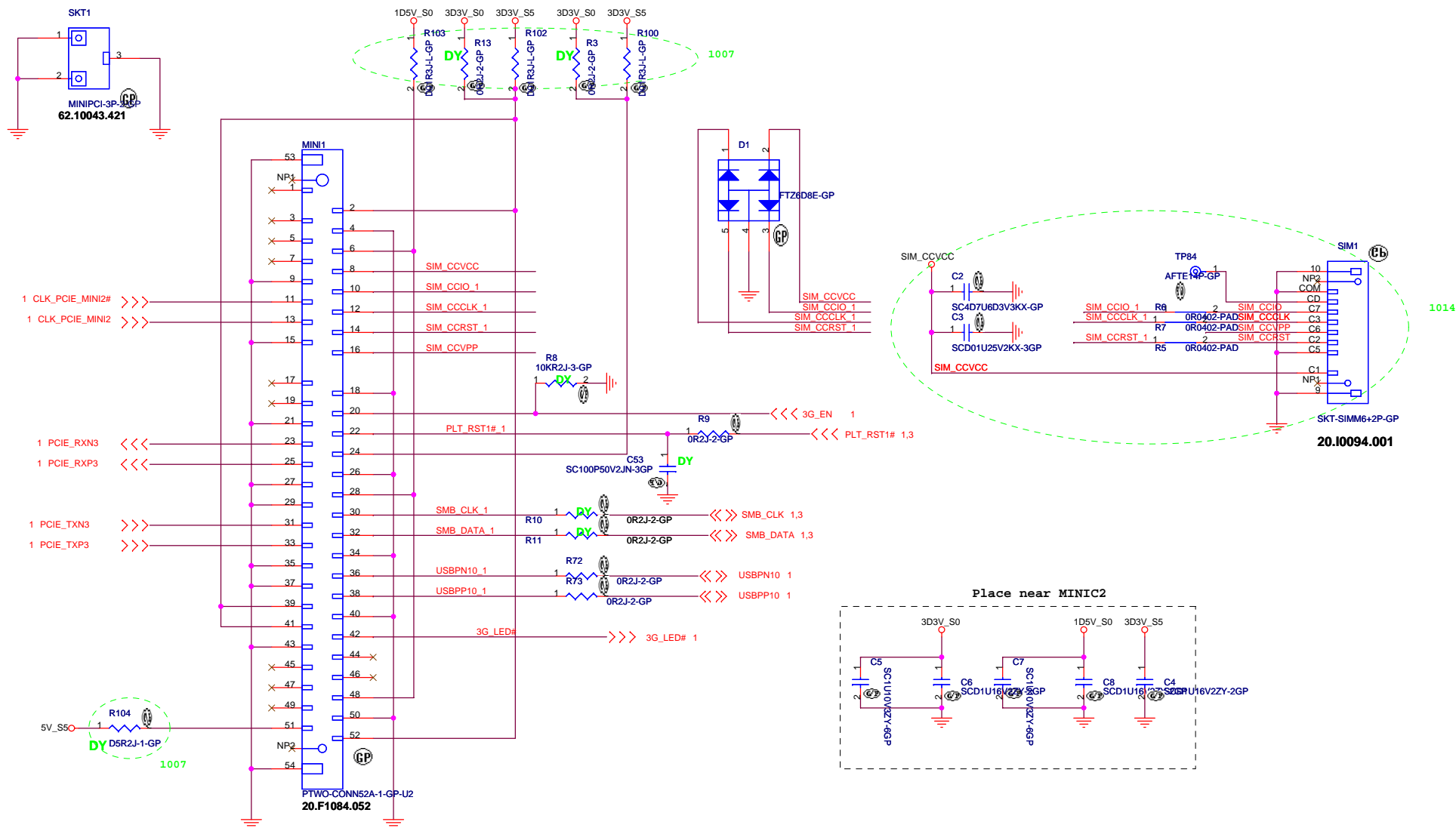
SM30

|                                   |                 |   |  |
|-----------------------------------|-----------------|---|--|
|                                   |                 | <b>Wistron Corporation</b><br>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,<br>Taipei Hsien 221, Taiwan, R.O.C. |  |
| Title                             |                 |   |  |
| <b>Board to Board Conn</b>        |                 |   |  |
| Size                              | Document Number | Rev   |  |
| A3                                | <b>SM30</b>     | SA  |  |
| Date: Wednesday, October 15, 2008 |                 |   |  |
| Sheet                             |                 | 1 of 5  |  |

# Mini Card Connector(Robson2 and 3G)

## Support debug-card

Close to SKT1(SIM socket).



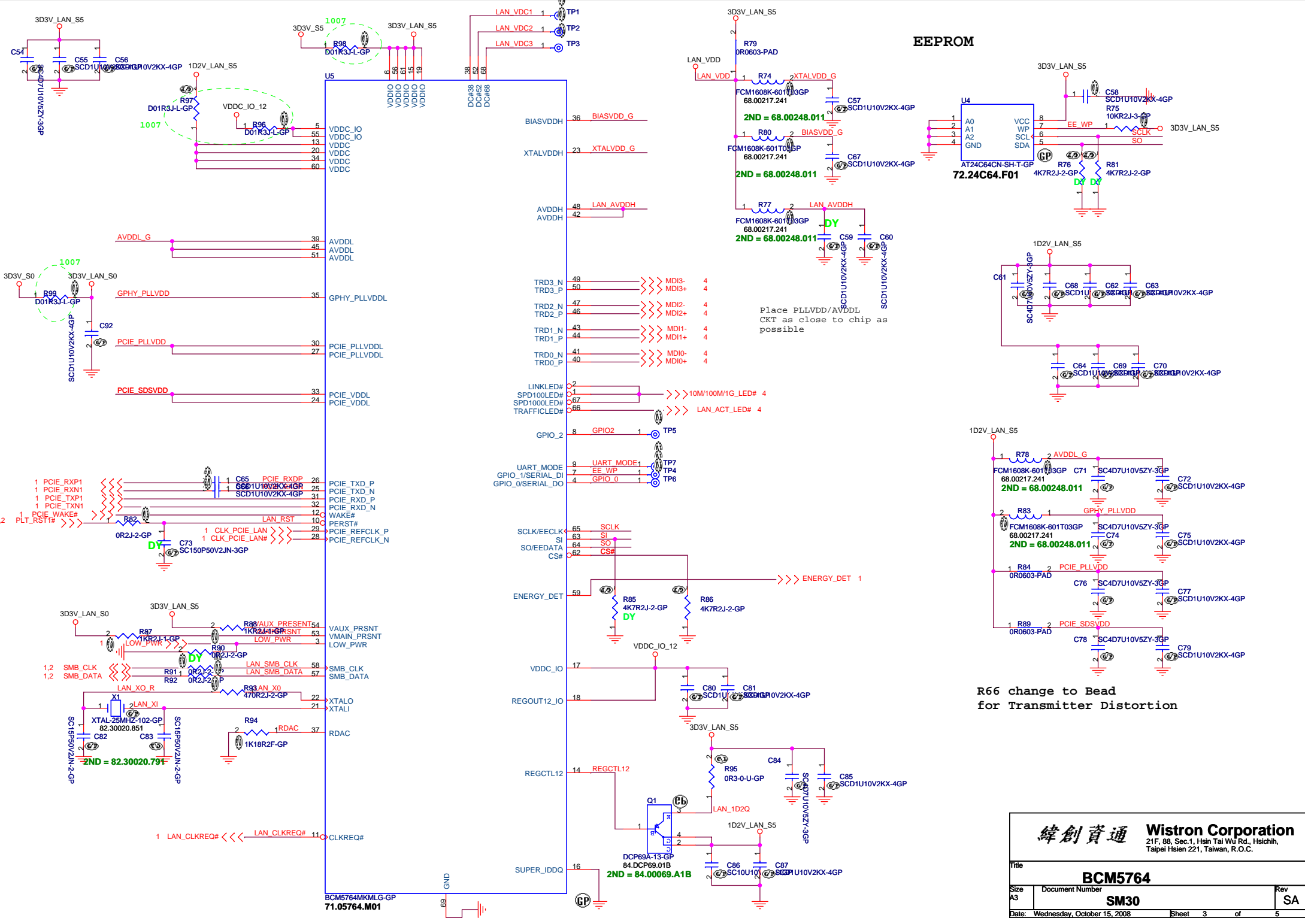
SM30

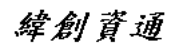
**緯創資通** Wistron Corporation  
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

Title: **MINI CARD**

|         |                 |           |
|---------|-----------------|-----------|
| Size A3 | Document Number | Rev       |
|         | <b>SM30</b>     | <b>SA</b> |

Date: Wednesday, October 15, 2008 Sheet 2 of 5

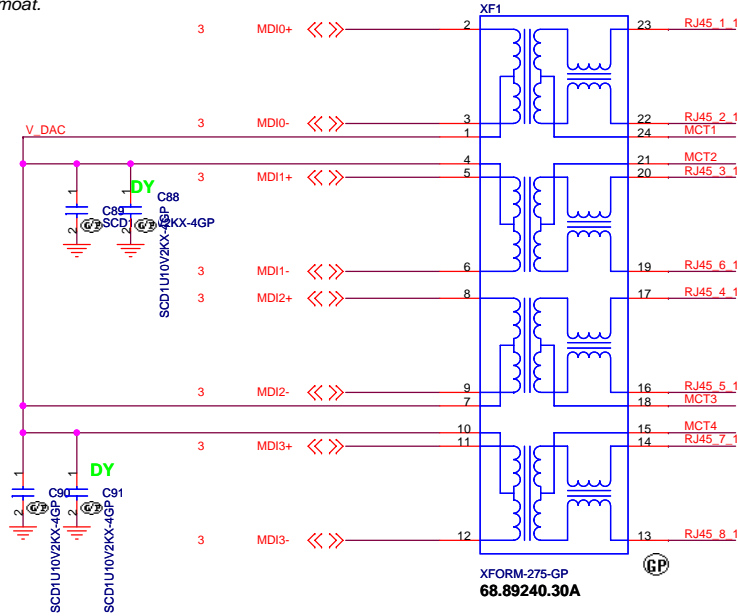



**Wistron Corporation**  
 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,  
 Taipei Hsien 221, Taiwan, R.O.C.

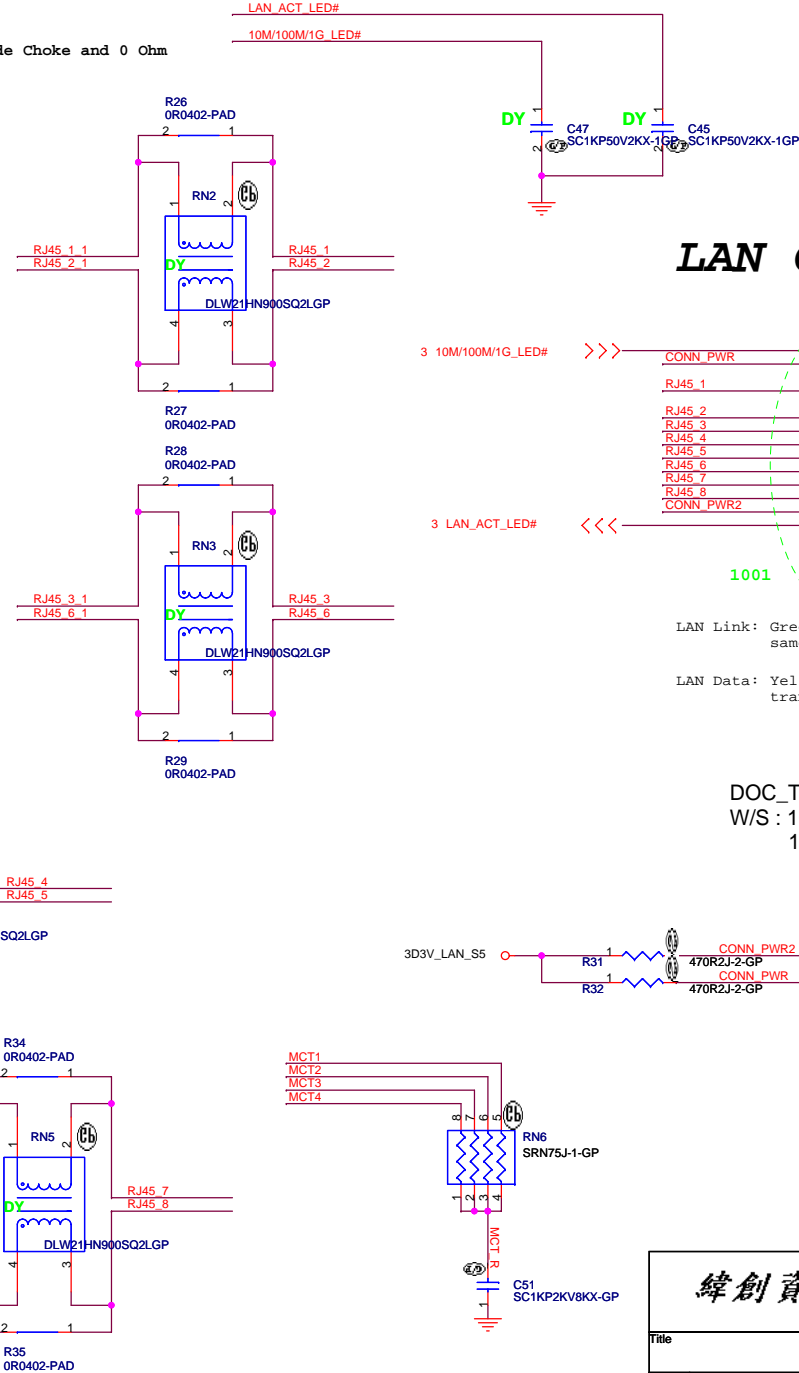
|                                   |                 |     |
|-----------------------------------|-----------------|-----|
| <b>BCM5764</b>                    |                 |     |
| Title                             | Document Number | Rev |
| Size                              | <b>SM30</b>     | SA  |
| Date: Wednesday, October 15, 2008 | Sheet 3 of 5    |     |

# LAN Connector

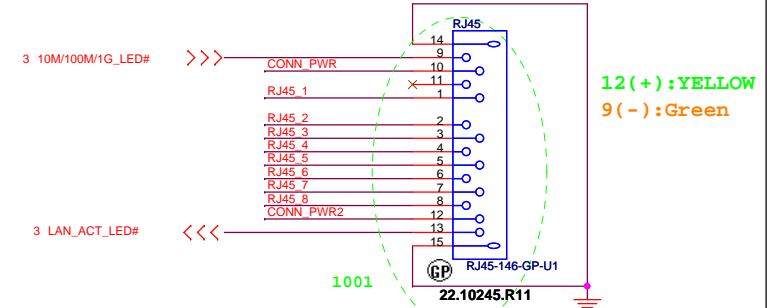
- 1.route on bottom as differential pairs.
- 2.Tx+/Tx- are pairs. Rx+/Rx- are pairs.
- 3.No vias, No 90 degree bends.
- 4.pairs must be equal lengths.
- 5.6mil trace width, 12mil separation.
- 6.36mil between pairs and any other trace.
- 7.Must not cross ground moat, except RJ-45 moat.



Co-Layout Common Mode Choke and 0 Ohm



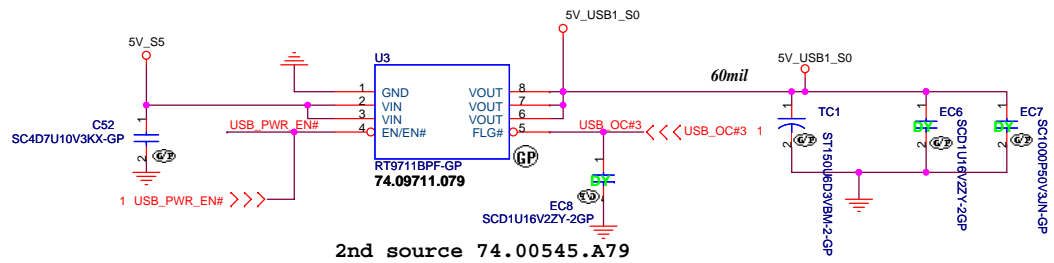
## LAN Connector



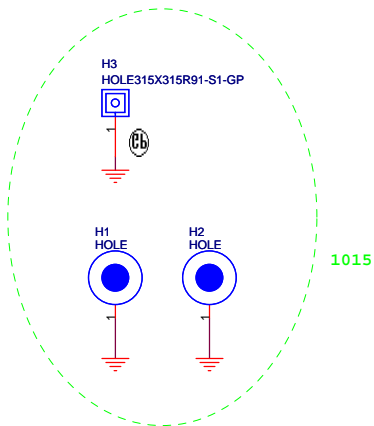
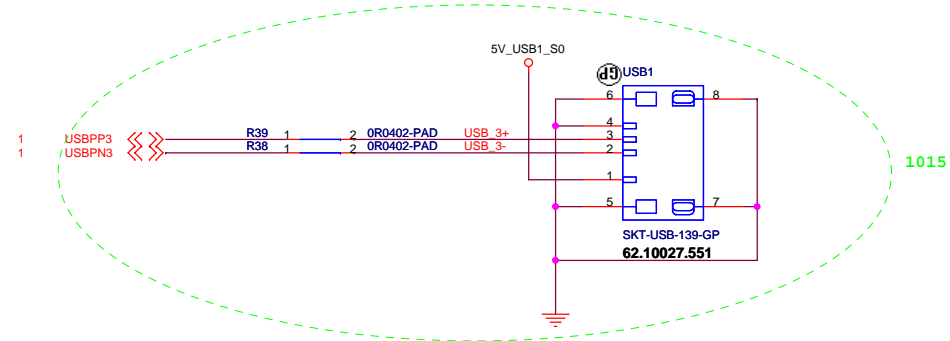
LAN Link: Green(A3), behavior is the same for 10/100/1000 bits  
 LAN Data: Yellow(B3), when LAN is transferring data.

DOC\_TIP,DOC\_RING,TIP,RING:  
 W/S : 10/100 @ Surface layers  
 10/20 @ Inner layers

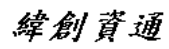
|  |                                |           |
|--|--------------------------------|-----------|
| <b>Wistron Corporation</b><br>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C. |                                |           |
| Title  |                                |           |
| <b>LAN CONN</b>  |                                |           |
| Size<br>A3   | Document Number<br><b>SM30</b> | Rev<br>SA |
| Date: Wednesday, October 15, 2008  | Sheet 4                        | of 5      |



2nd source 74.00545.A79



SM30

|   |                 |
|---|-----------------|
|  <b>Wistron Corporation</b><br>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,<br>Taipei Hsien 221, Taiwan, R.O.C. |                 |
| Title   |                 |
| <b>USB</b>  |                 |
| Size  | Document Number |
|   | <b>SM30</b>     |
| Date: Wednesday, October 15, 2008   | Sheet 5 of 5    |
| Rev   | SA              |