

# C200 SIT2 Schematics

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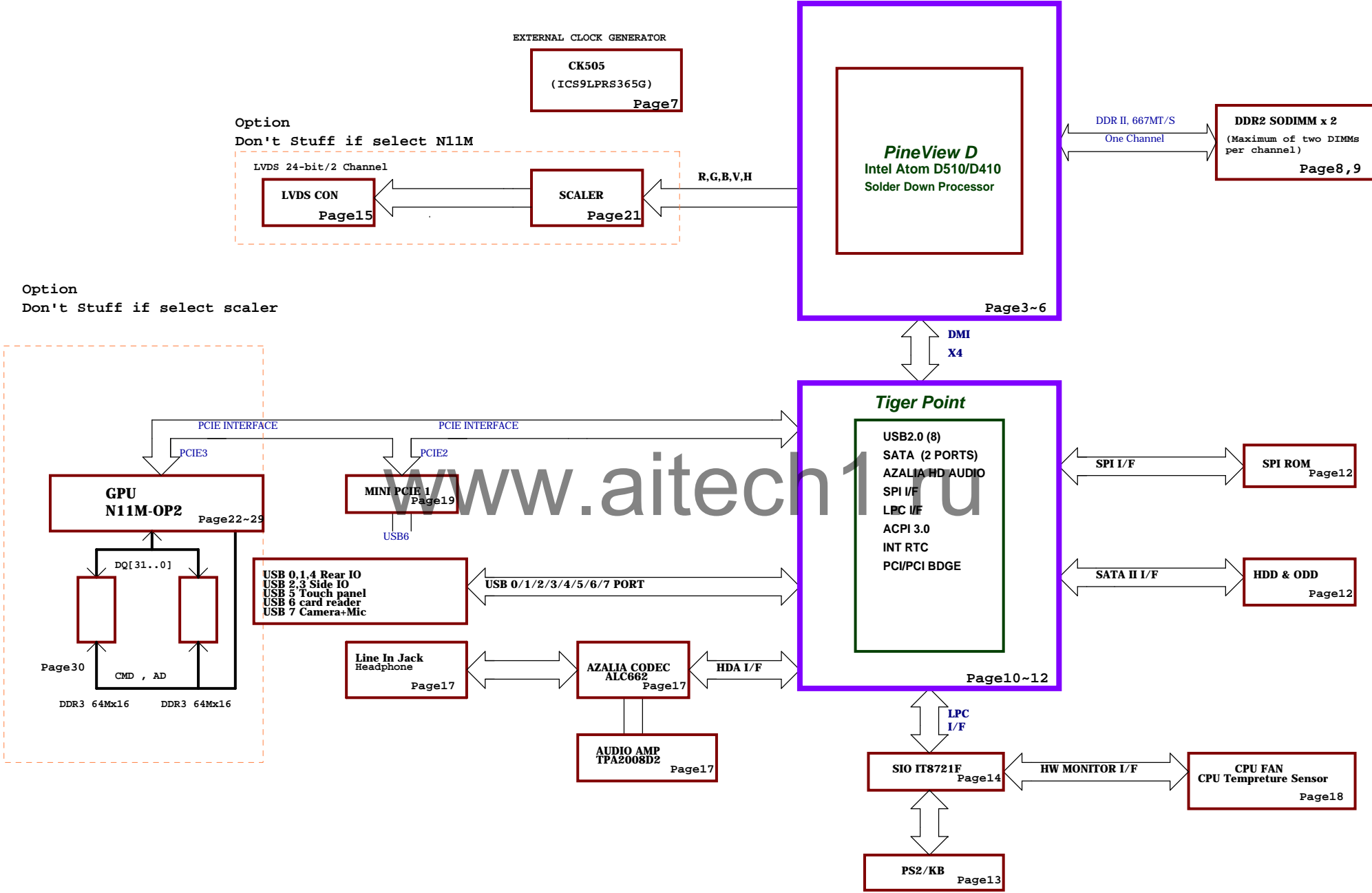
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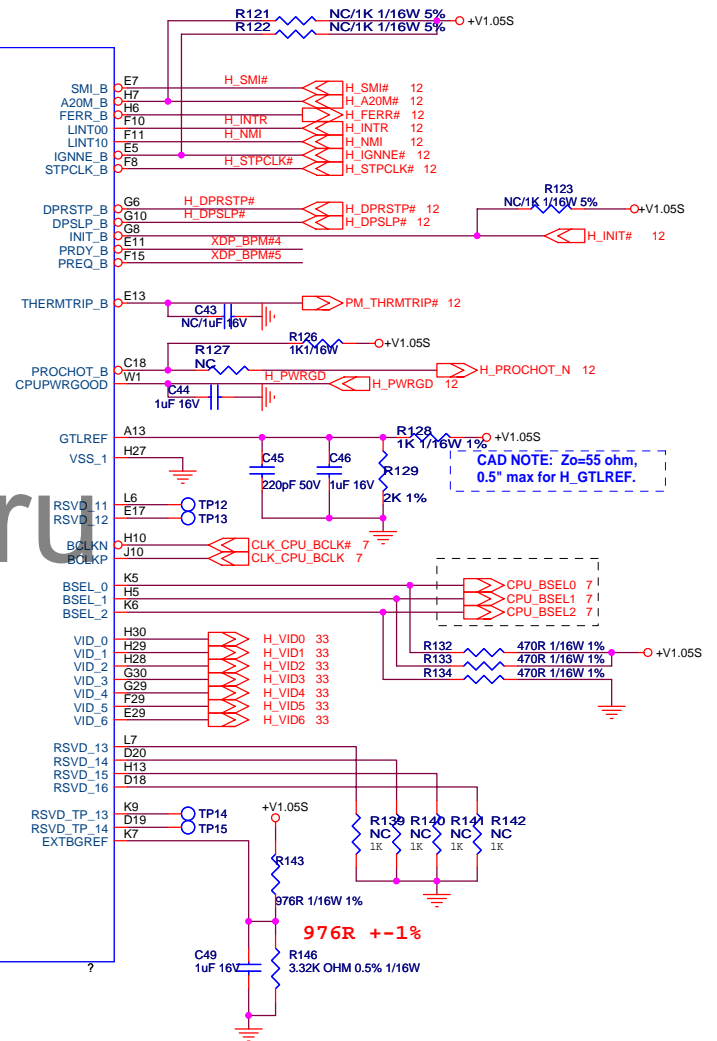
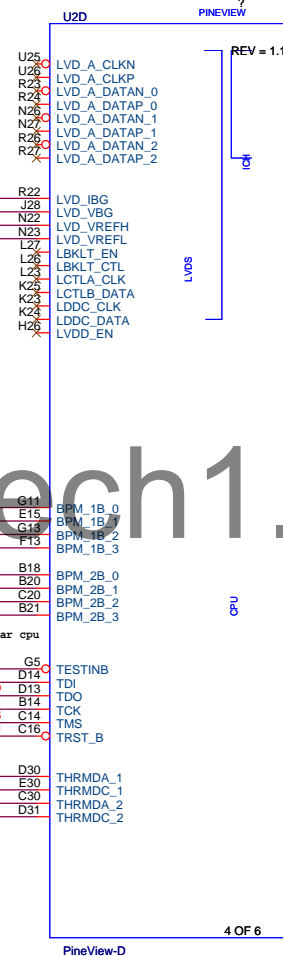
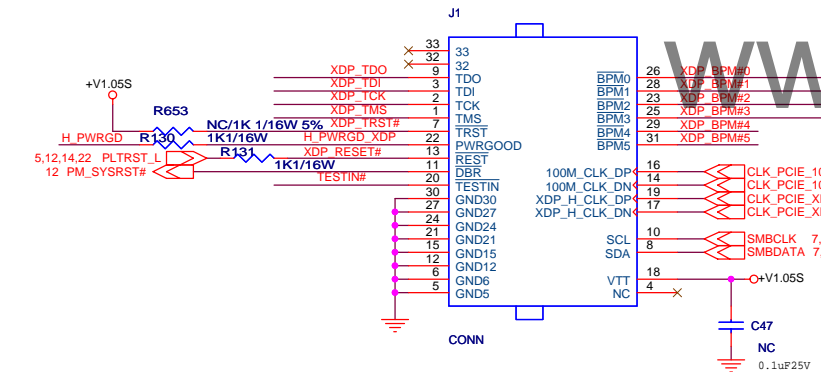
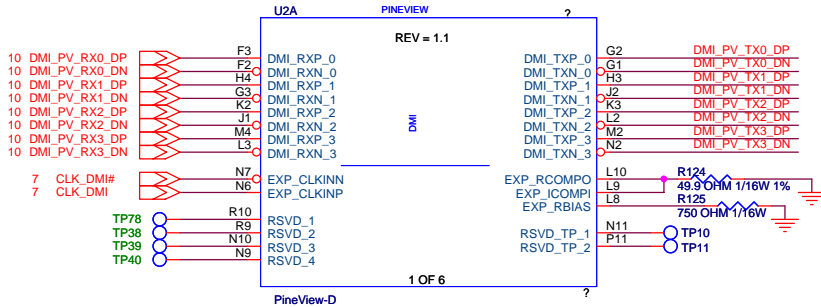
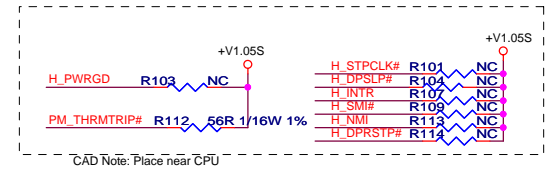
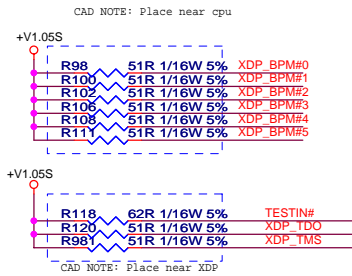
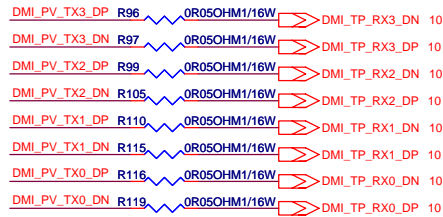


|   |                                 |           |                       |      |      |
|---|---------------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                                 | OEM MODEL | Lenovo C200           | Size | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209   | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | 01.COVER & REVISE HISTORY & TOP | PCB NAME  | 715G3800-MOC-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010       | Sheet     | 1 of 39               |      |      |

C200 BLOCK DIAGRAM



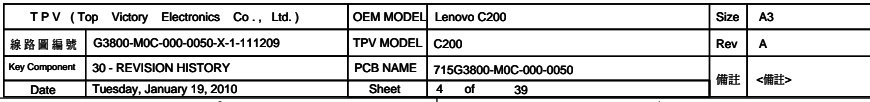
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|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 02.Block Diagram              | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 2 of 39               | <備註> |

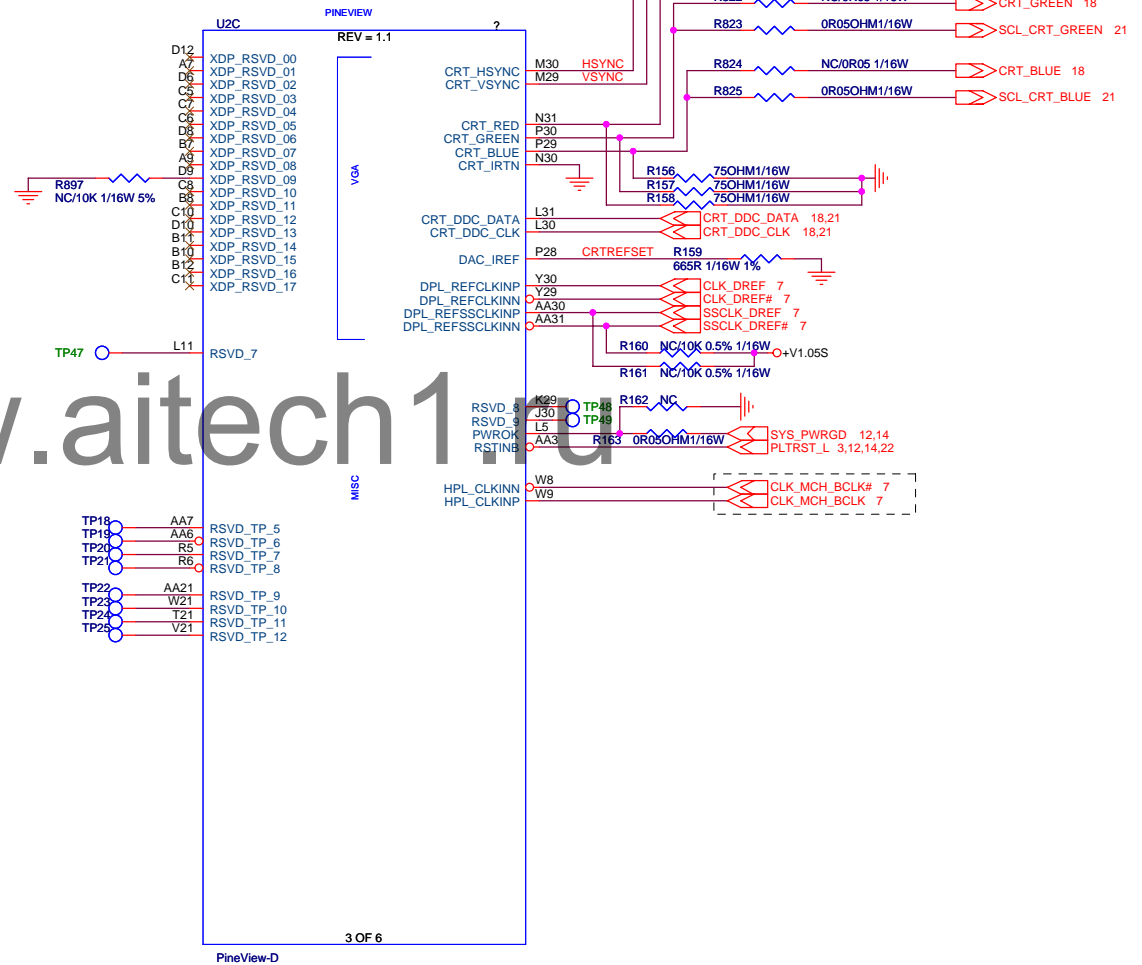
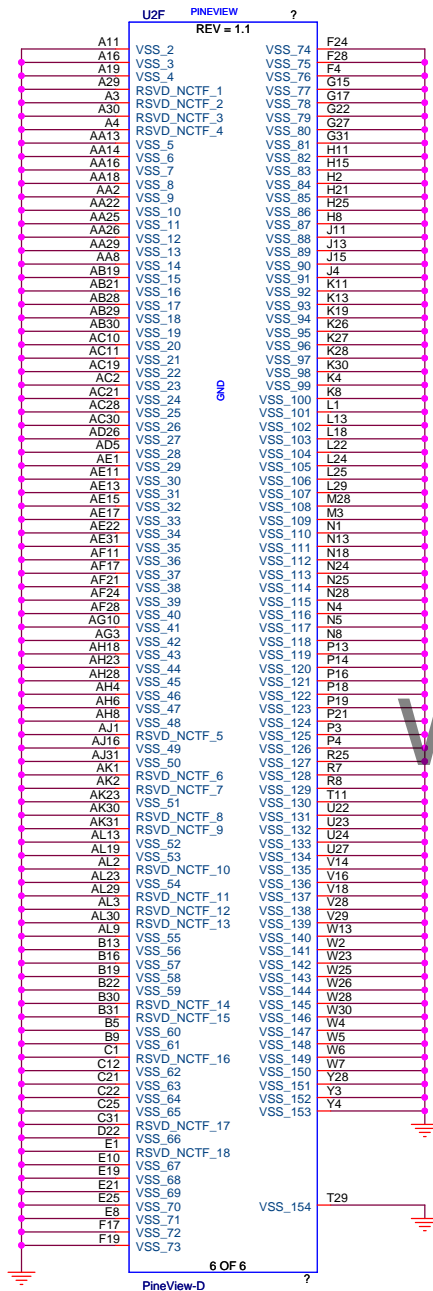


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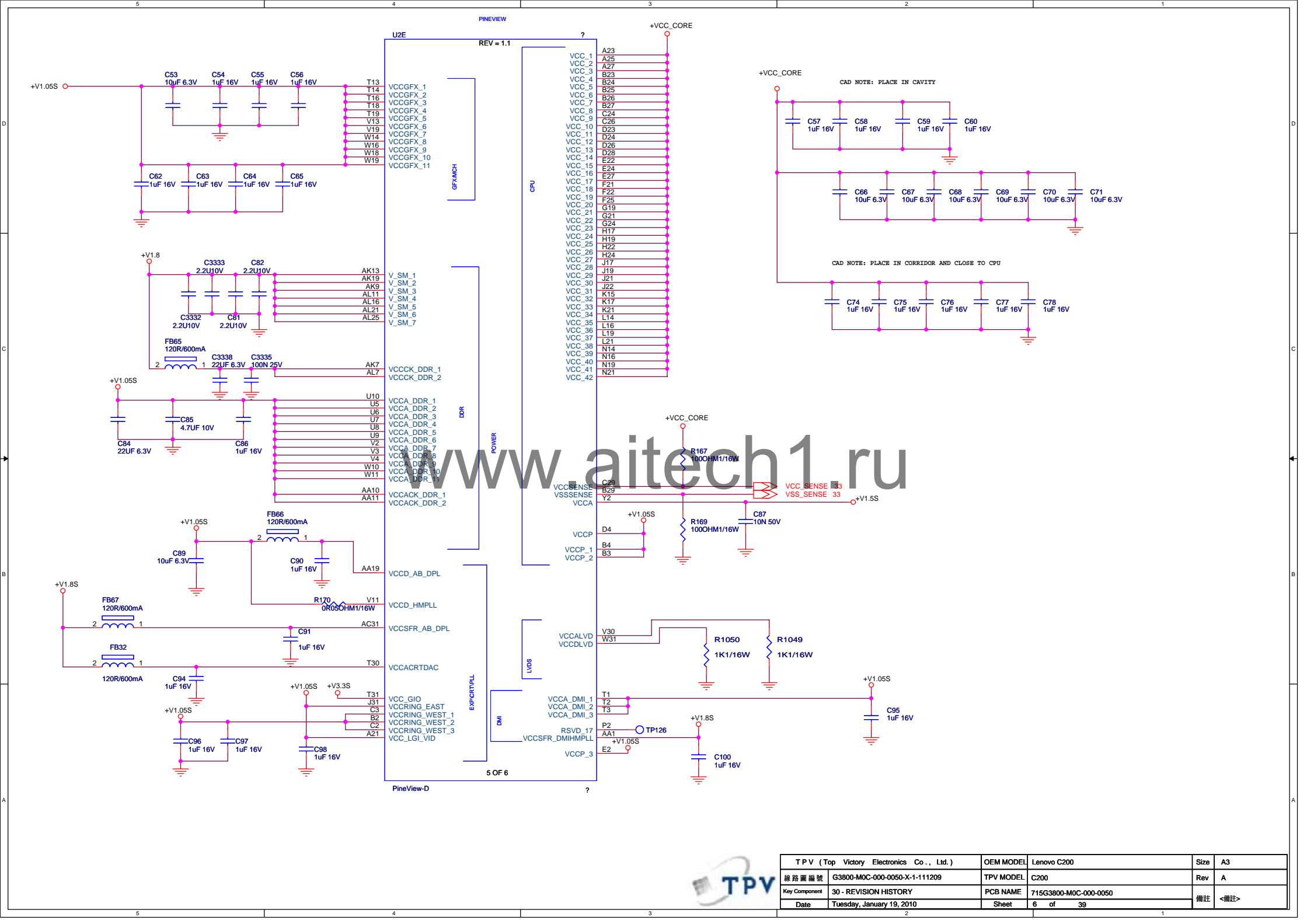


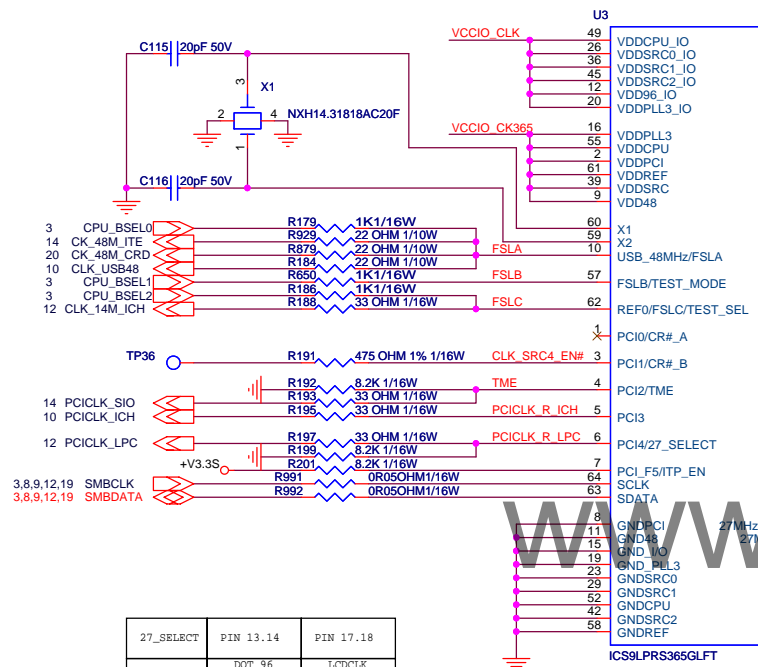
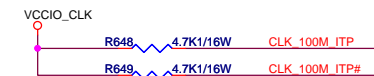
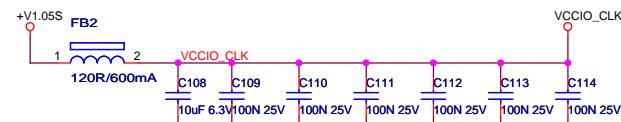
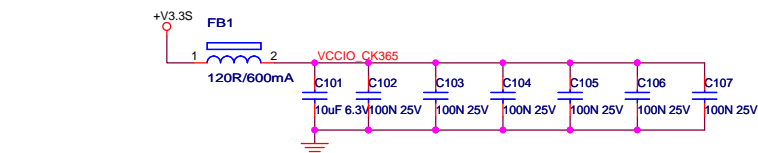
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| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 03 - PineView DMI/CH          | PCB NAME    | 715G3800-M0C-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 3 of 39               | <備註> |





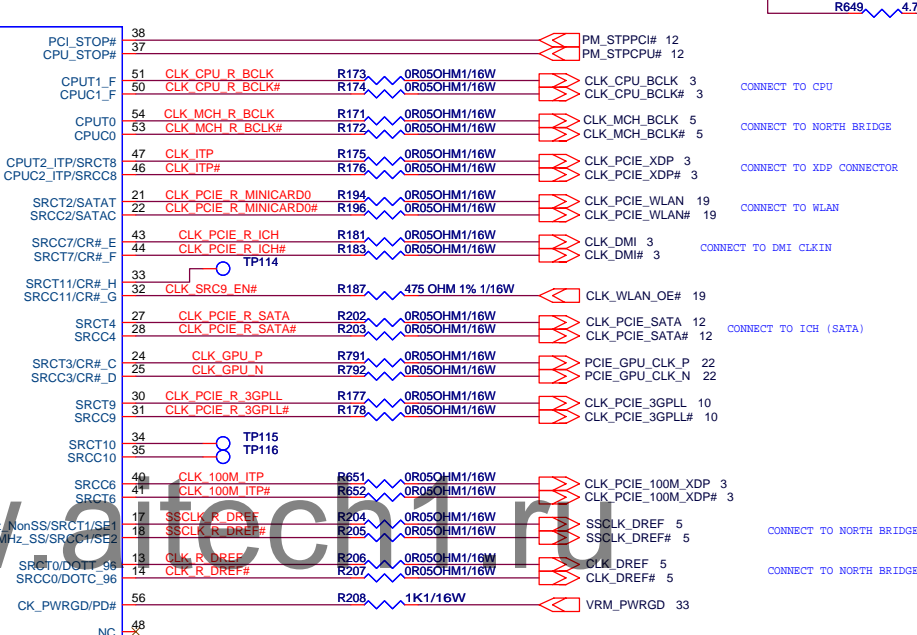
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| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 30 - REVISION HISTORY         | PCB NAME    | 715G3800-M0C-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 5 of 39               | <備註> |





| 27_SELECT | PIN 13.14           | PIN 17.18             |
|-----------|---------------------|-----------------------|
| 0         | DOT_96<br>/ DOT_96# | LCDCCLK<br>/ LCDCCLK# |
| 1         | SRC0<br>/ SRC0#     | 27M<br>/ 27M SS       |

| ITP EN    | 0    | 1   |
|-----------|------|-----|
| PIN 46.47 | SRC8 | ITP |



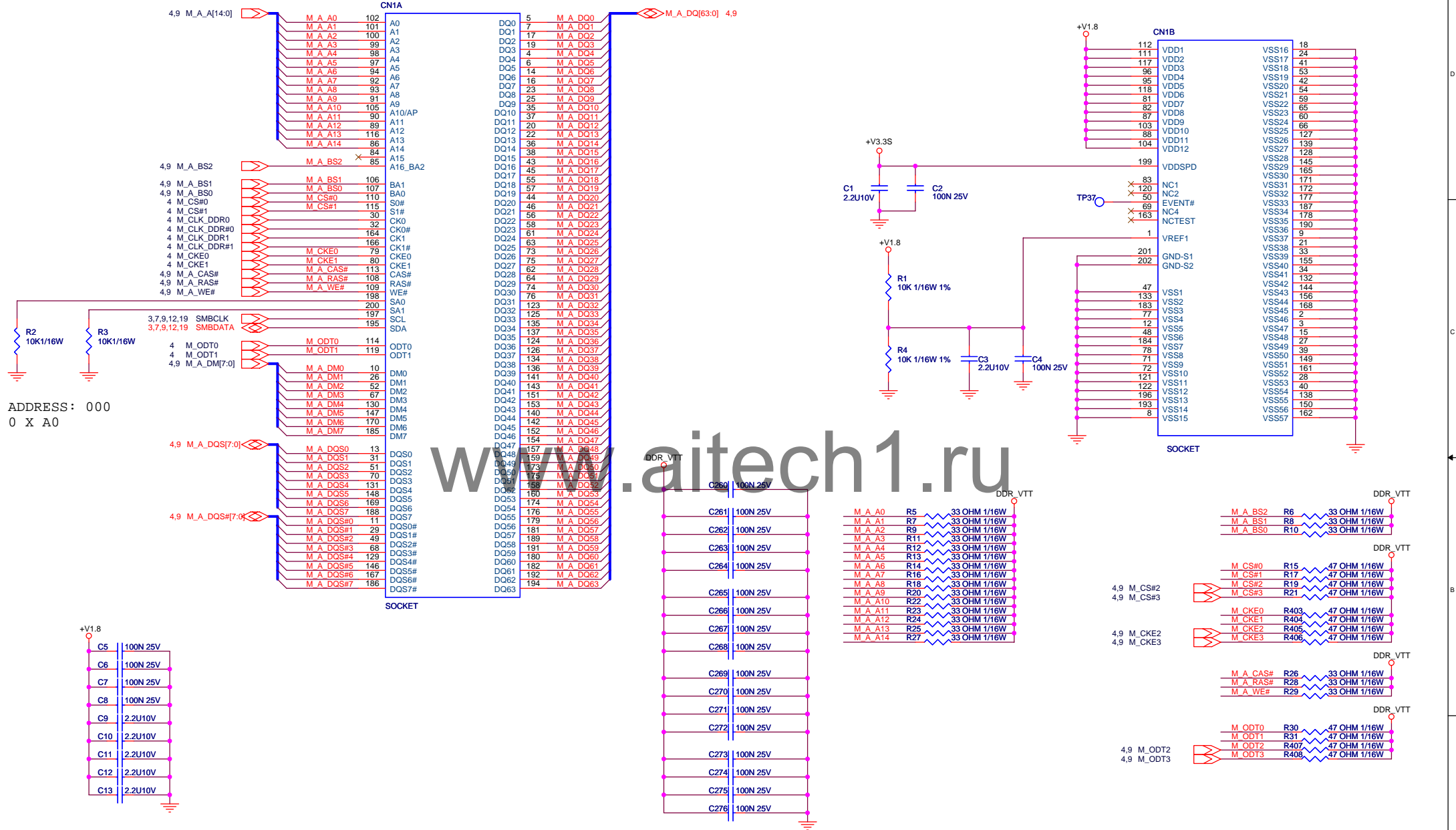
**Note -**  
BIOS should turn off  
unconnected clock  
outputs

| CPU,MCH and XDP BCLK FREQUENCY<br>SELECTION TABLE |              |              |                             |
|---|--------------|--------------|-----------------------------|
| FSC<br>BSEL2                                      | FSB<br>BSEL1 | FSA<br>BSEL0 | Host Clock<br>Frequency MHz |
| 1   | 0            | 1            | 100                         |
| 0   | 0            | 1            | 133                         |
| 0   | 1            | 1            | 166                         |
| 0   | 1            | 0            | 200                         |
| 0   | 0            | 0            | 266                         |
| 1   | 0            | 0            | 333                         |
| 1   | 1            | 0            | 400                         |
| 1   | 1            | 1            | Reserved                    |

|   |                               |             |                       |      |
|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 05.CLOCK GEN ICS9LPRS365GLFT  | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 7 of 39               | <備註> |



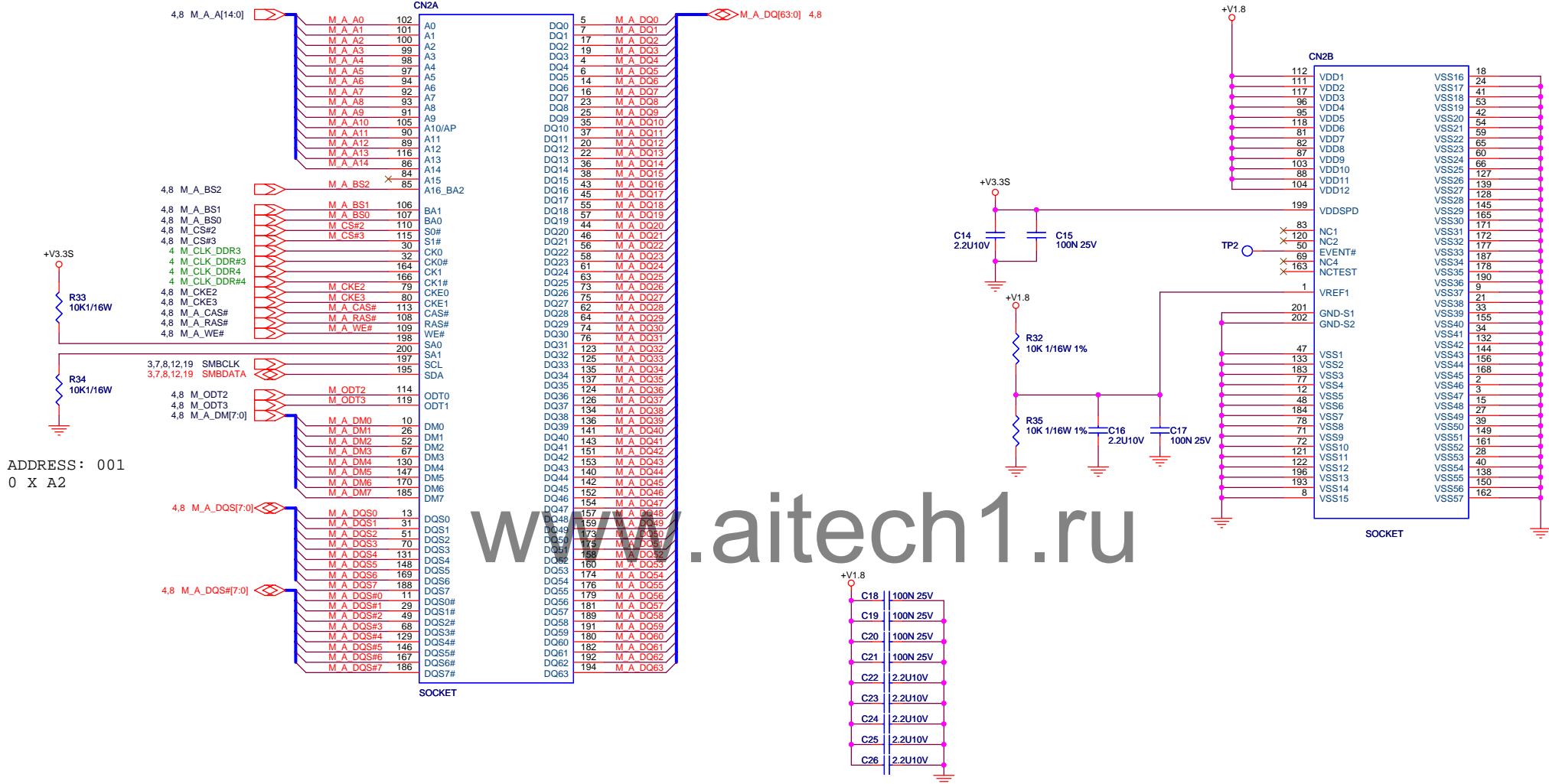
# DDR2 SODIMM0



|   |                               |             |                       |      |
|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 11.SO-DIMM CH_A DDR2          | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 8 of 39               | <備註> |



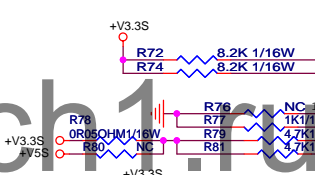
DDR2 SODIMM1



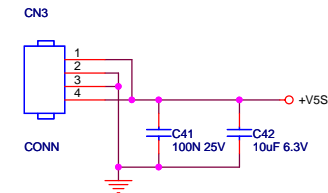
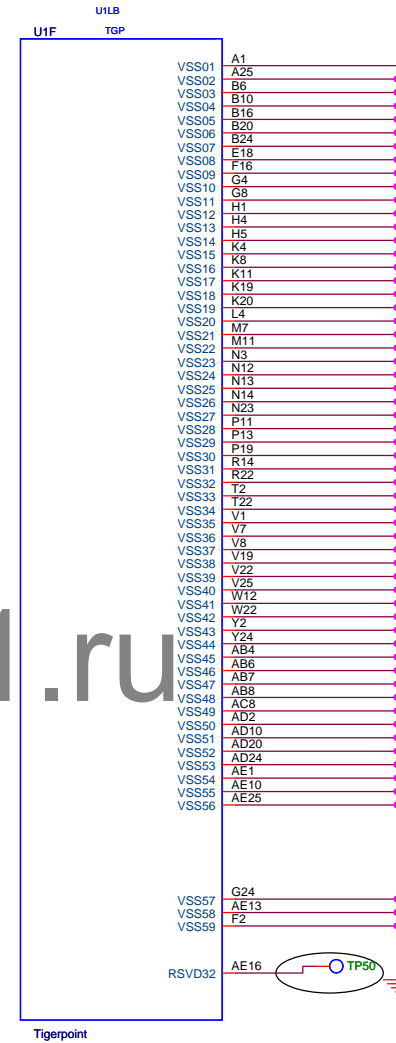
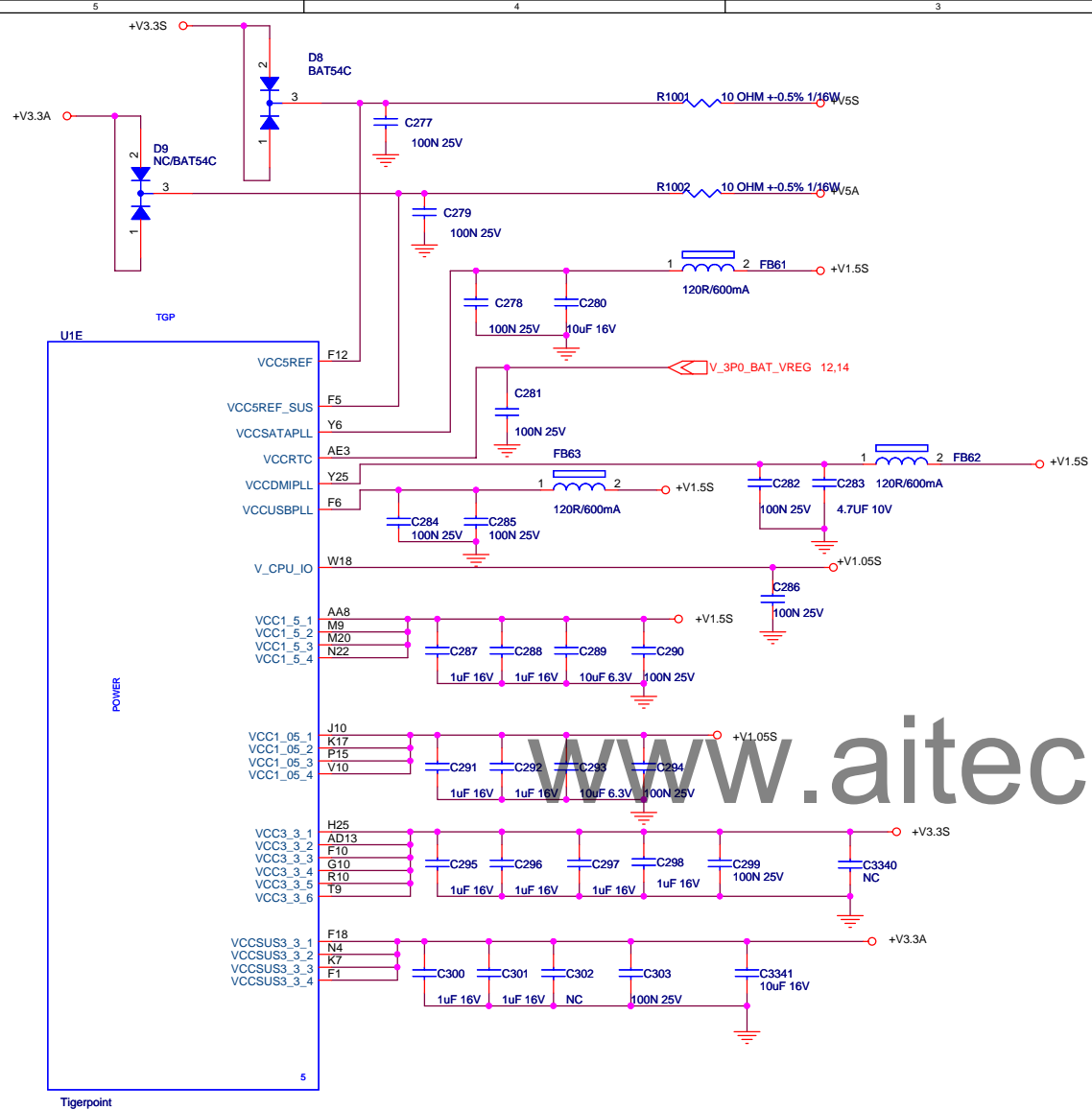
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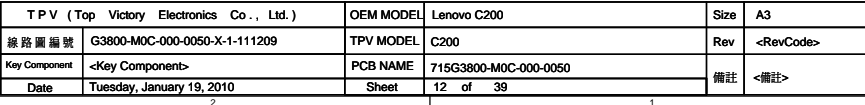
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|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 11.SO-DIMM CH_A DDR2          | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 9 of 39               | <備註> |



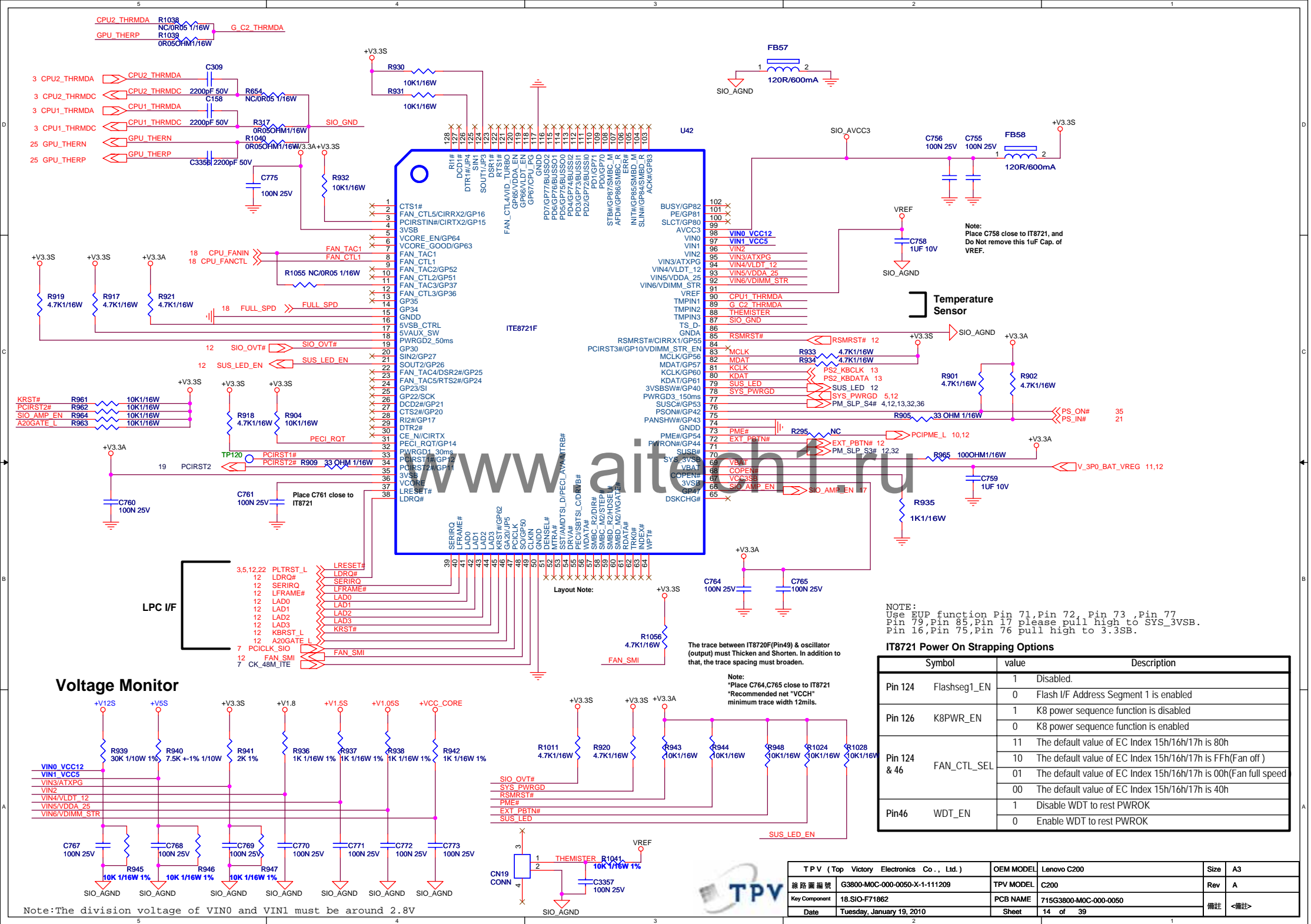
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|---|---------------------------|-----------|-----------------------|------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) |                           | OEM MODEL | Lenovo C200           | Size | A3        |
| 線路圖編號 G3800-M0C-000-0050-X-1-111209     |                           | TPV MODEL | C200                  | Rev  | <RevCode> |
| Key Component                           | <Key Component>           | PCB NAME  | 715G3800-M0C-000-0050 |      |           |
| Date                                    | Tuesday, January 19, 2010 | Sheet     | 10 of 39              | 備註   | <備註>      |

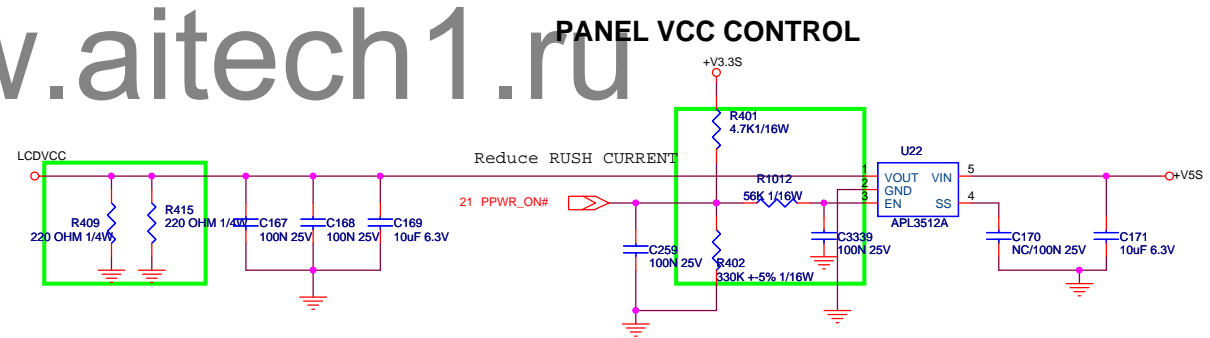
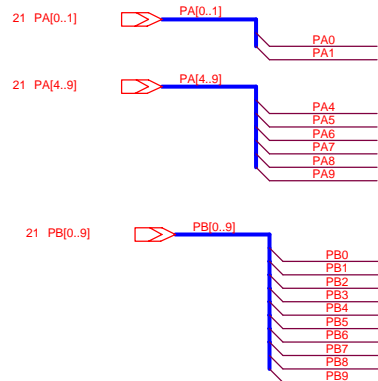
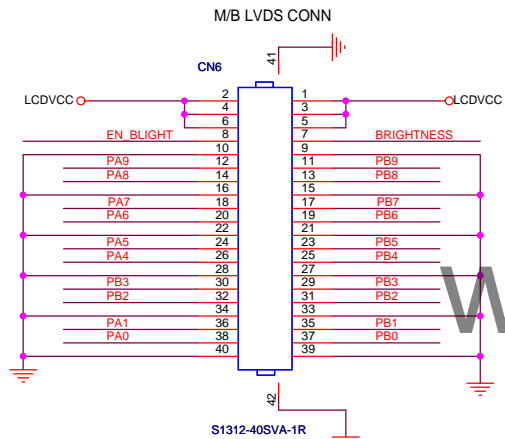
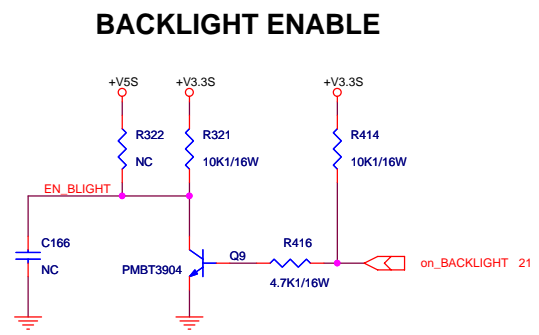
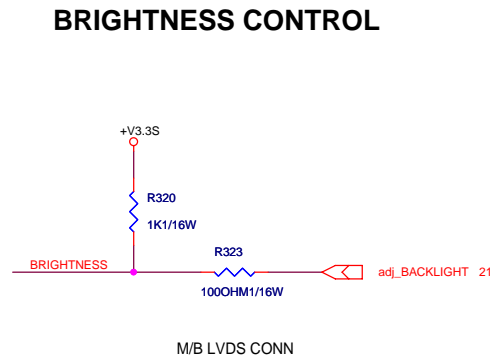
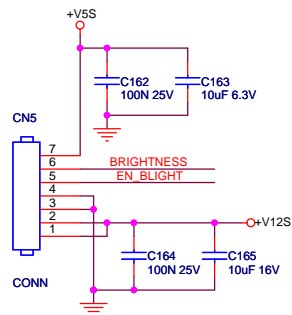


|   |                               |             |                       |               |
|---|-------------------------------|-------------|-----------------------|---------------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3            |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev <RevCode> |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-MOC-000-0050 | 備註 <備註>       |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 11 of 39              |               |



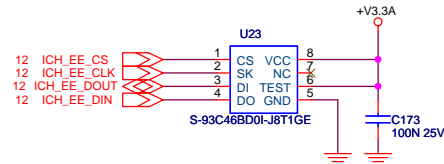
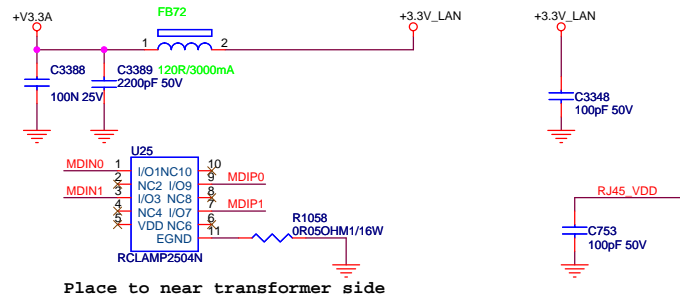






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|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 19.CH7308 LVDS                | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 15 of 39              | <備註> |

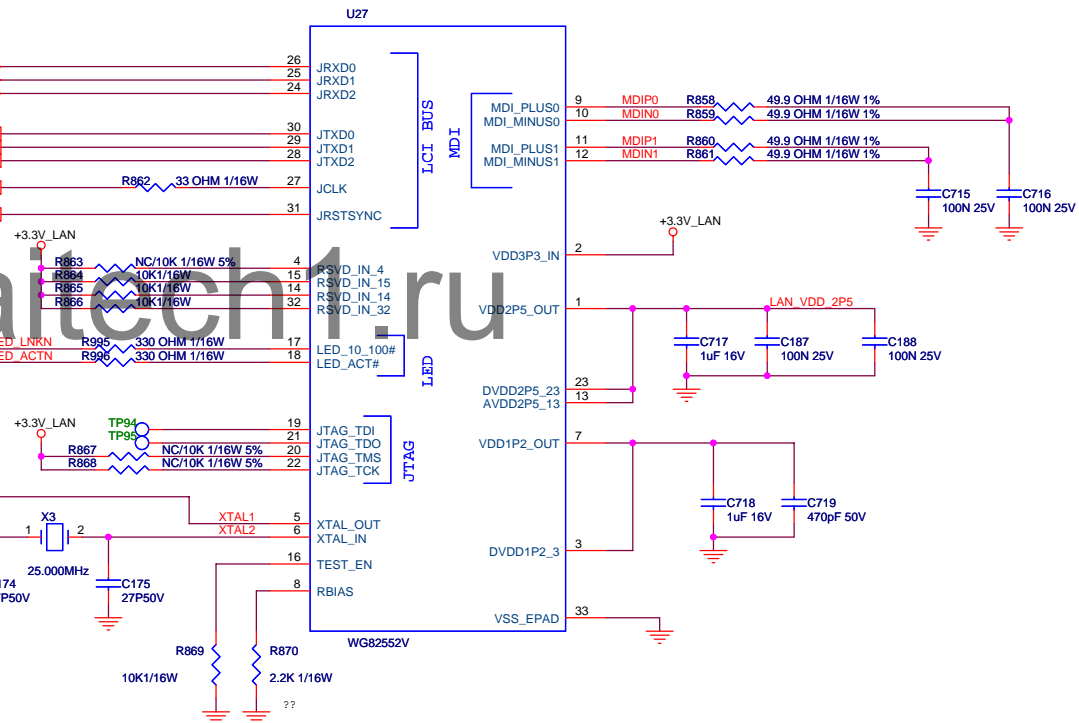




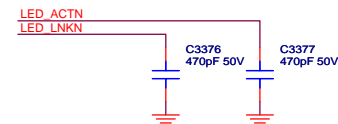
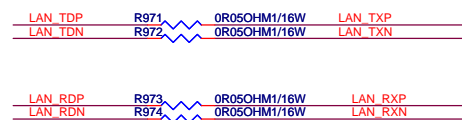
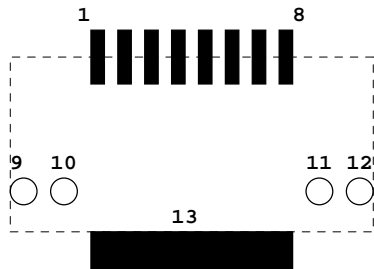
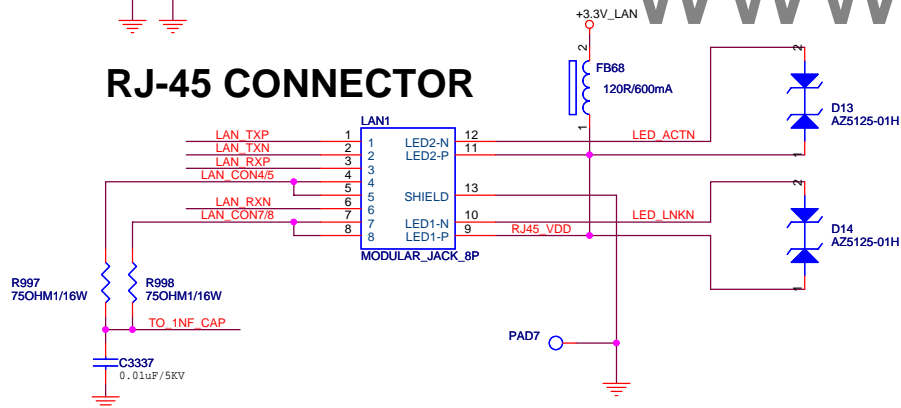
12 ICH\_LAN\_JRX0  
12 ICH\_LAN\_JRX1  
12 ICH\_LAN\_JRX2

12 ICH\_LAN\_JTX0  
12 ICH\_LAN\_JTX1  
12 ICH\_LAN\_JTX2

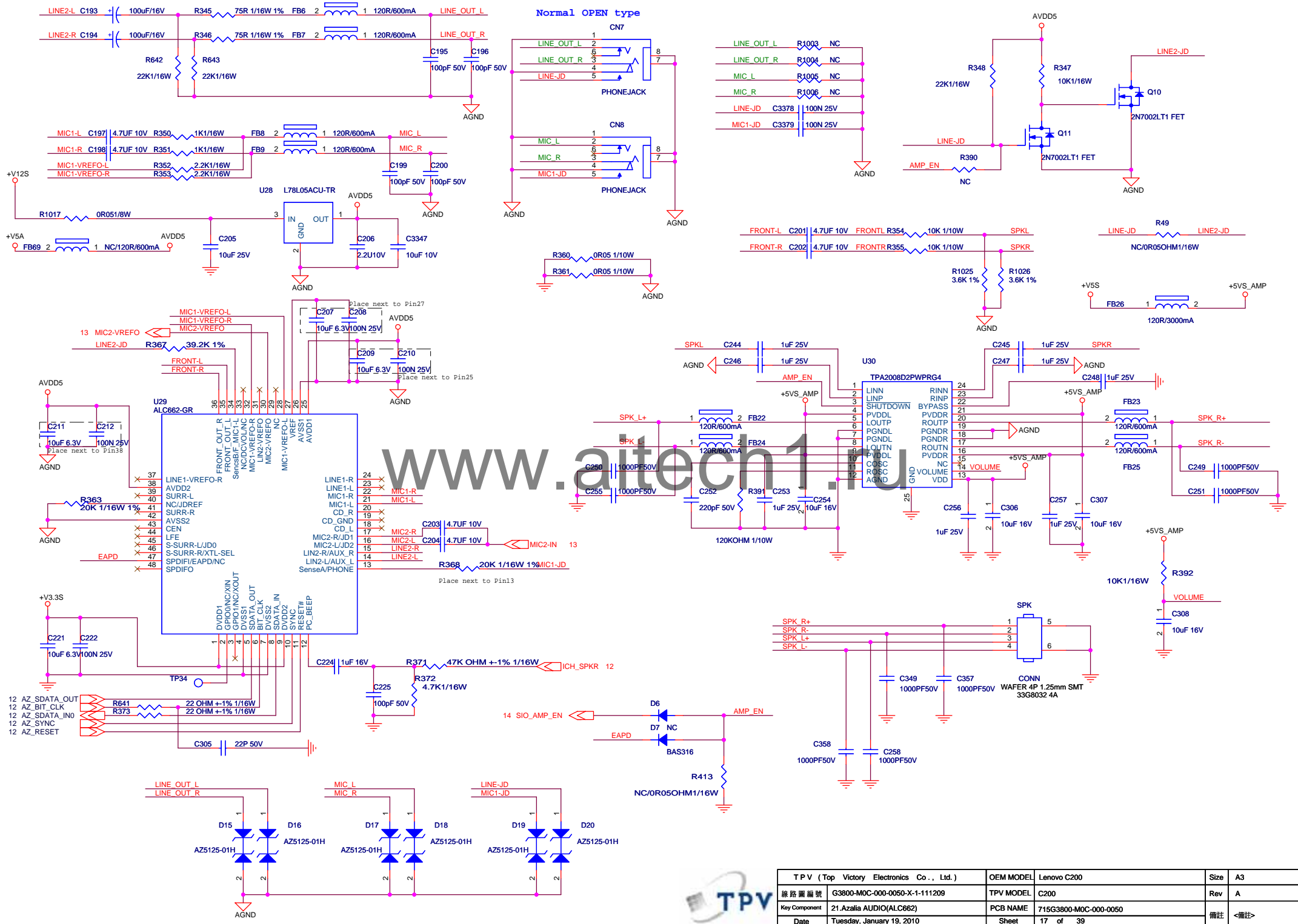
12 ICH\_LAN\_JCLK  
12 ICH\_LAN\_JRST

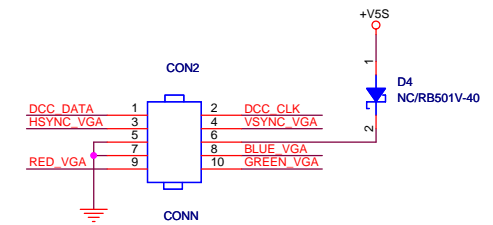
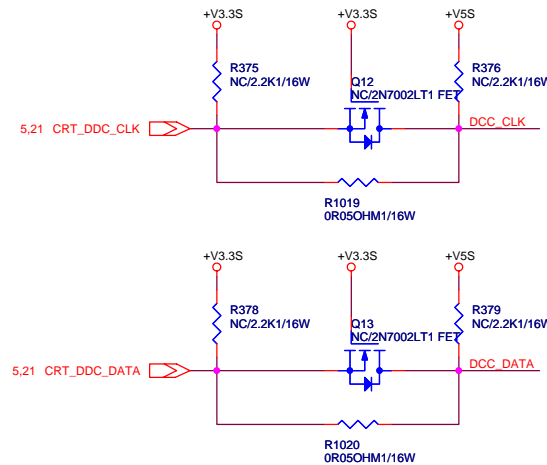
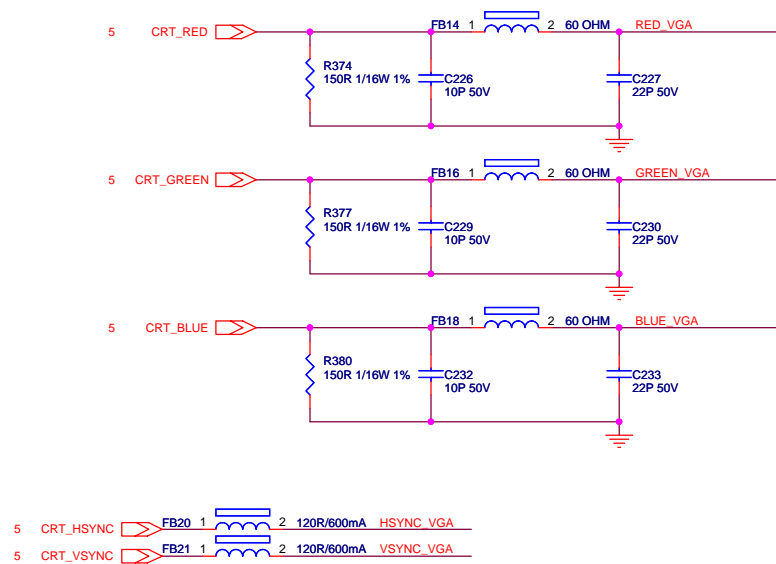


## RJ-45 CONNECTOR

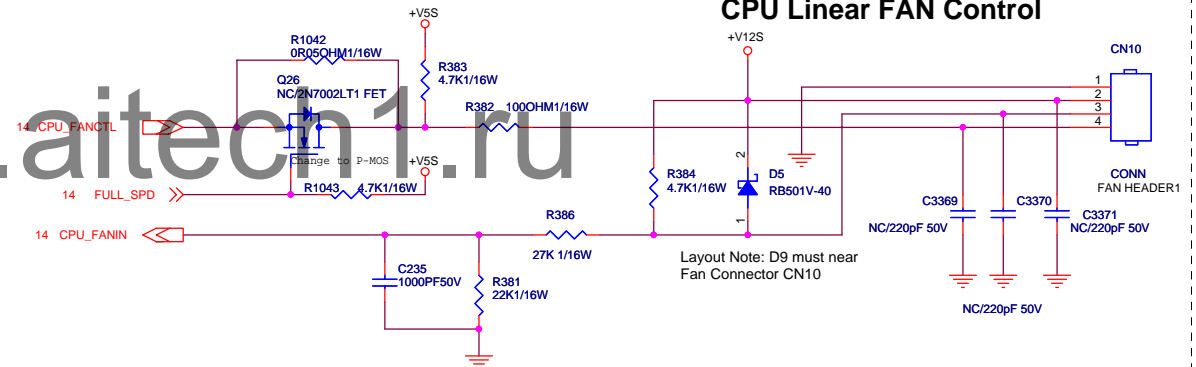


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|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 20.RTL8111DL                  | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 16 of 39              | <備註> |

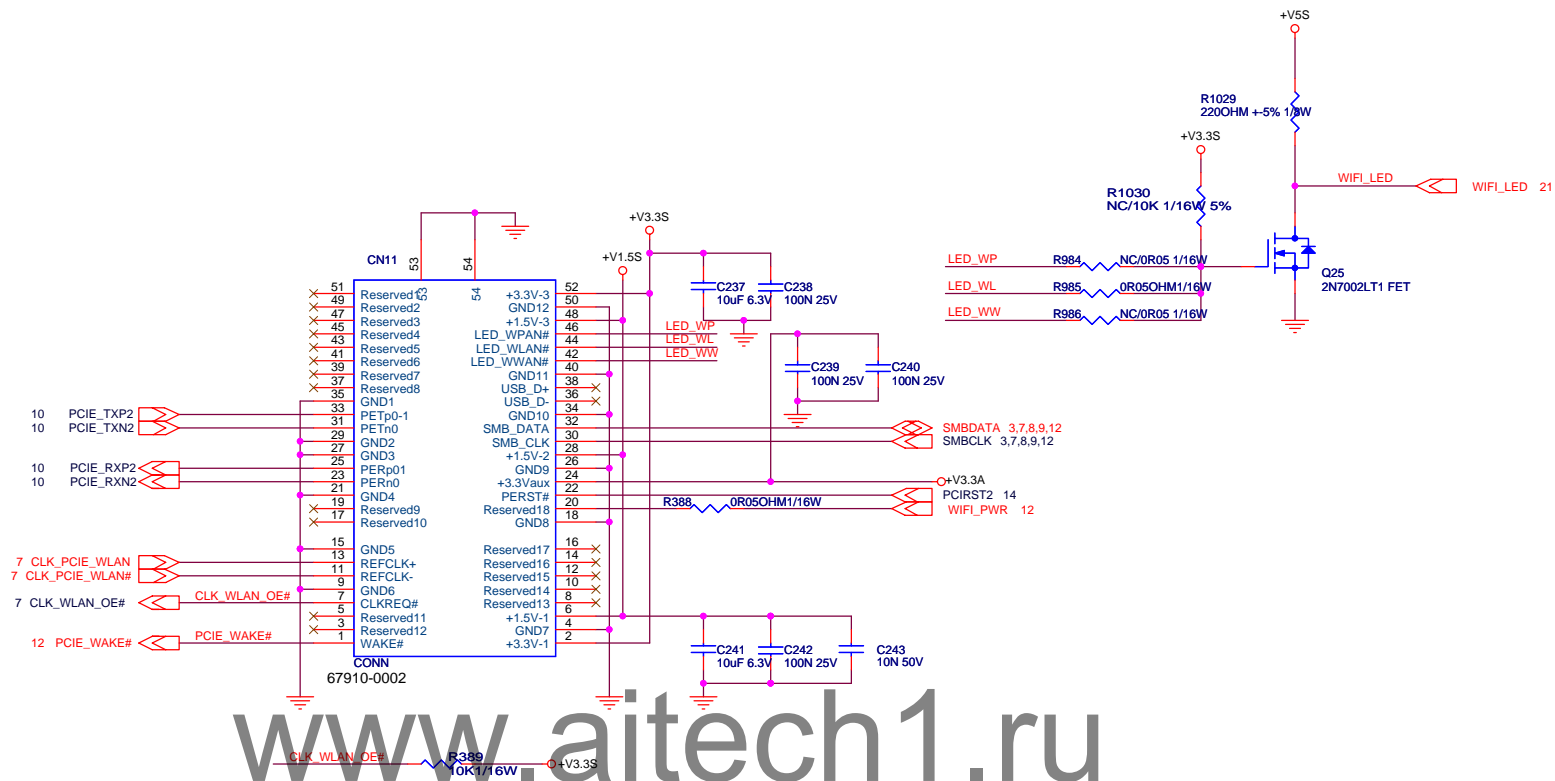




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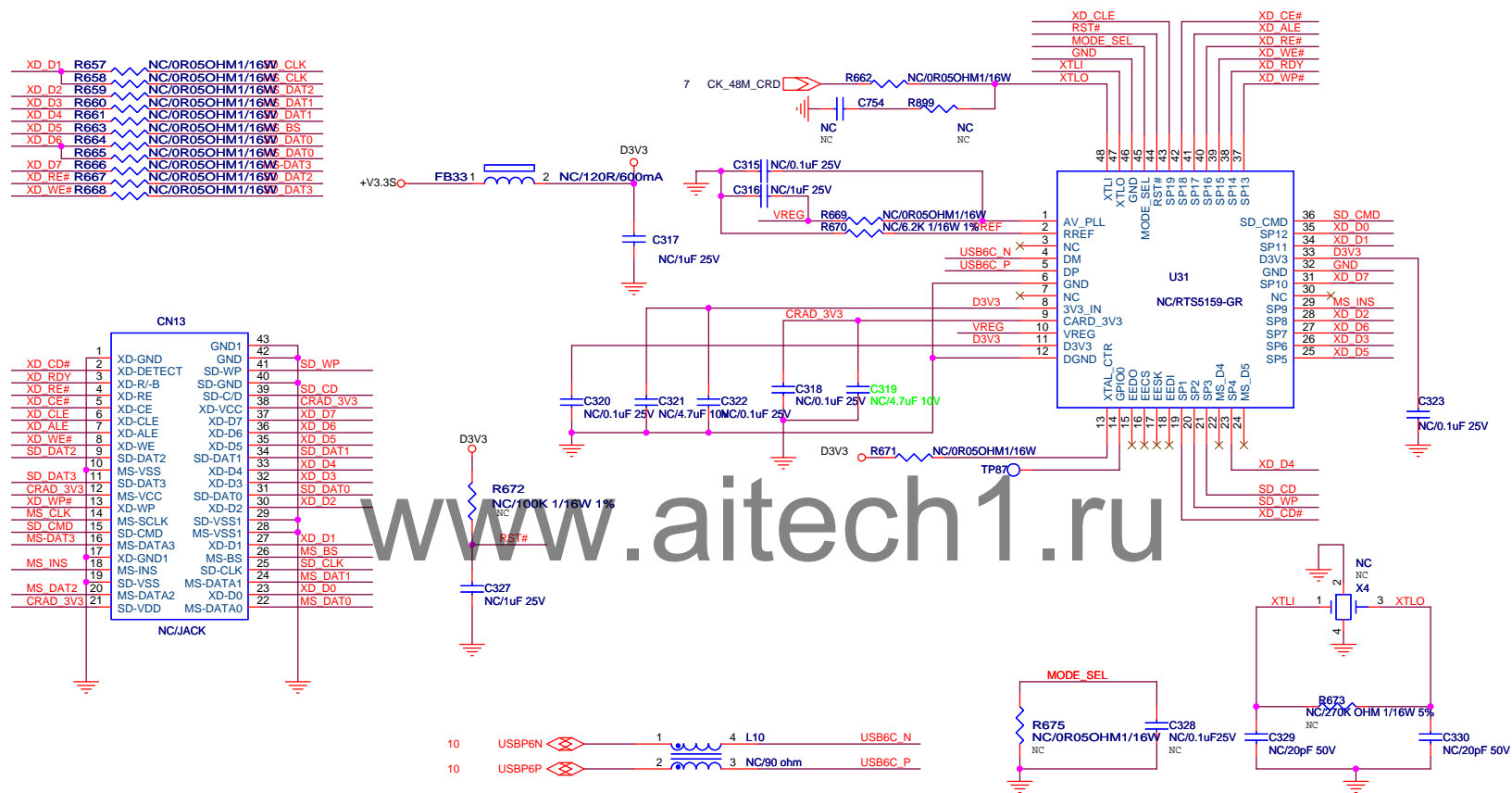
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| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 22KB MS/ VGA                  | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 18 of 39              | <備註> |



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|   |                               |             |                       |      |
|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 19.Mini Card                  | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 19 of 39              | <備註> |



|   |                               |             |                       |      |
|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-M0C-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 20 of 39              | <備註> |



|   |                               |             |                       |     |      |
|---|-------------------------------|-------------|-----------------------|-----|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | C   |      |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev | F    |
| Key Component                           | 03.Scalar                     | PCB NAME    | 715G3800-MOC-000-0050 |     |      |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 21 of 39              | 備註  | <備註> |



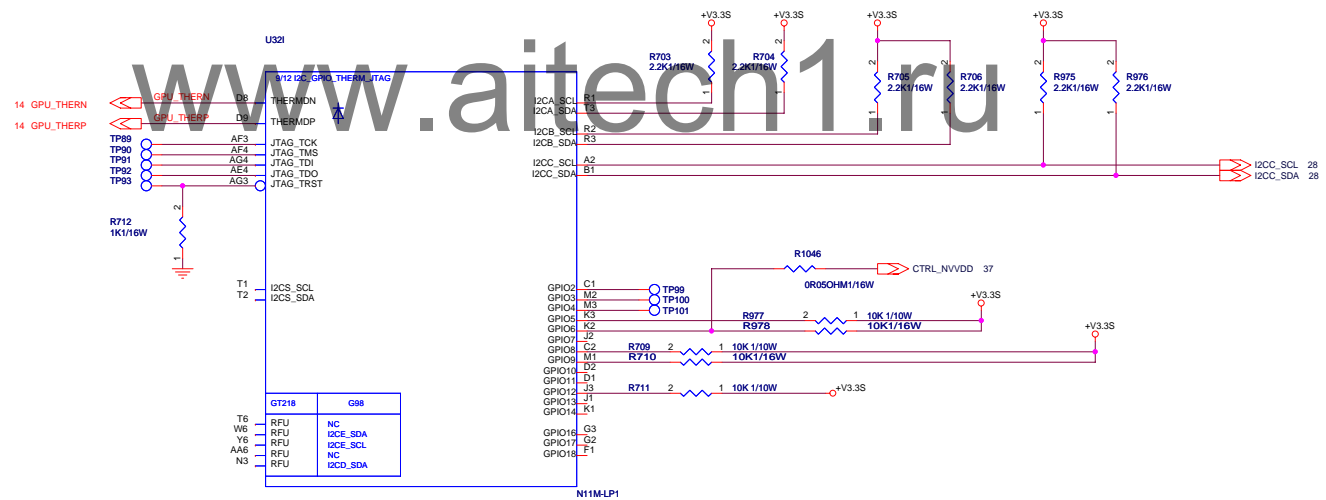
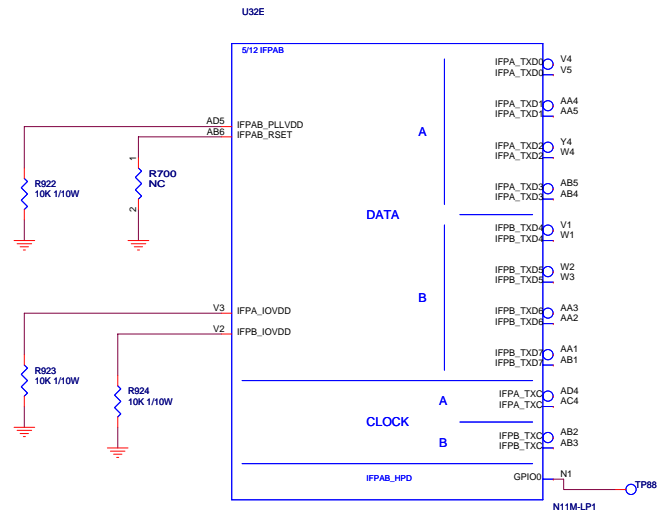




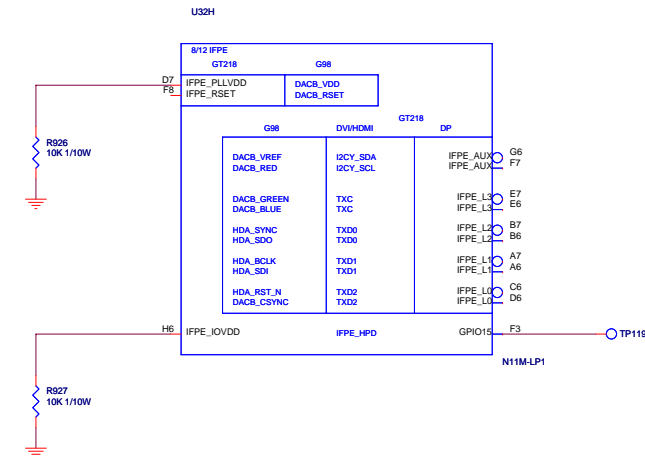
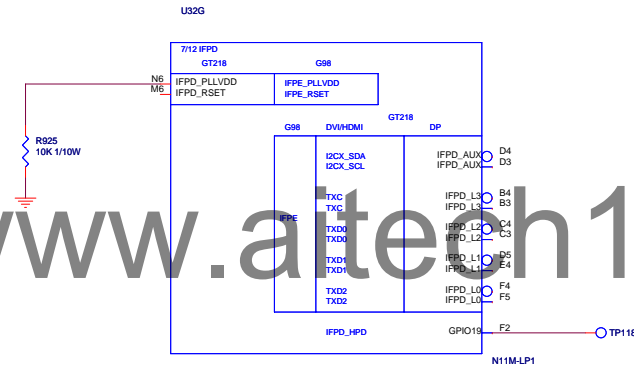
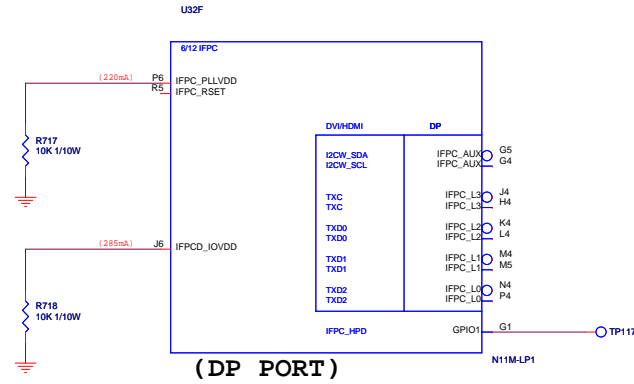
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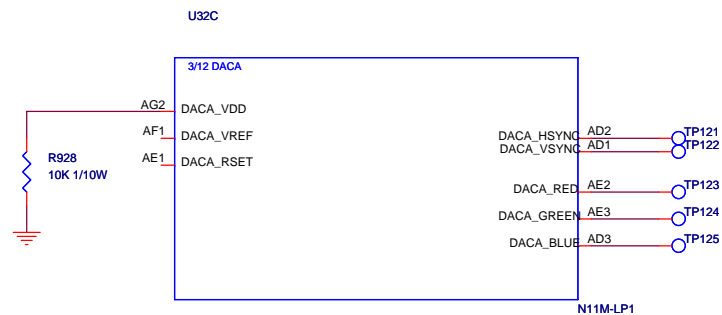
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|---|-------------------------------|-----------|-----------------------|------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) |                               | OEM MODEL | Lenovo C200           | Size | C         |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL | C200                  | Rev  | <RevCode> |
| Key Component                           | <Key Component>               | PCB NAME  | 715G3800-MOC-000-0050 | 備註   | <備註>      |
| Date                                    | Tuesday, January 19, 2010     | Sheet     | 24 of 39              |      |           |



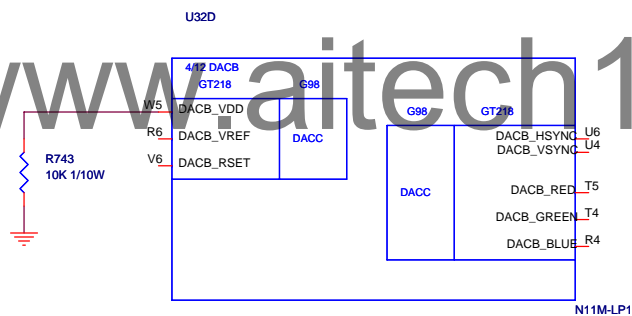
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| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | C         |
| 產品圖檔號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev       |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-MOC-000-0050 | <RevCode> |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 25 of 39              | 備註        |



|   |                               |             |                       |           |
|---|-------------------------------|-------------|-----------------------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | C         |
| Key Component                           | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev       |
|   |                               | PCB NAME    | 715G3800-MOC-000-0050 | <RevCode> |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 26 of 39              | 備註        |



(VGA PORT A)



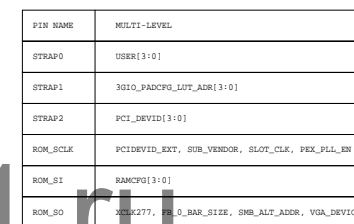
(VGA PORT B)

#### Unused DAC Interface

Pull down the DACx\_VDD with a 10 k ohm resistor.  
The other DAC IO pin (including DACx\_VREF, DACx\_REST) can be NC



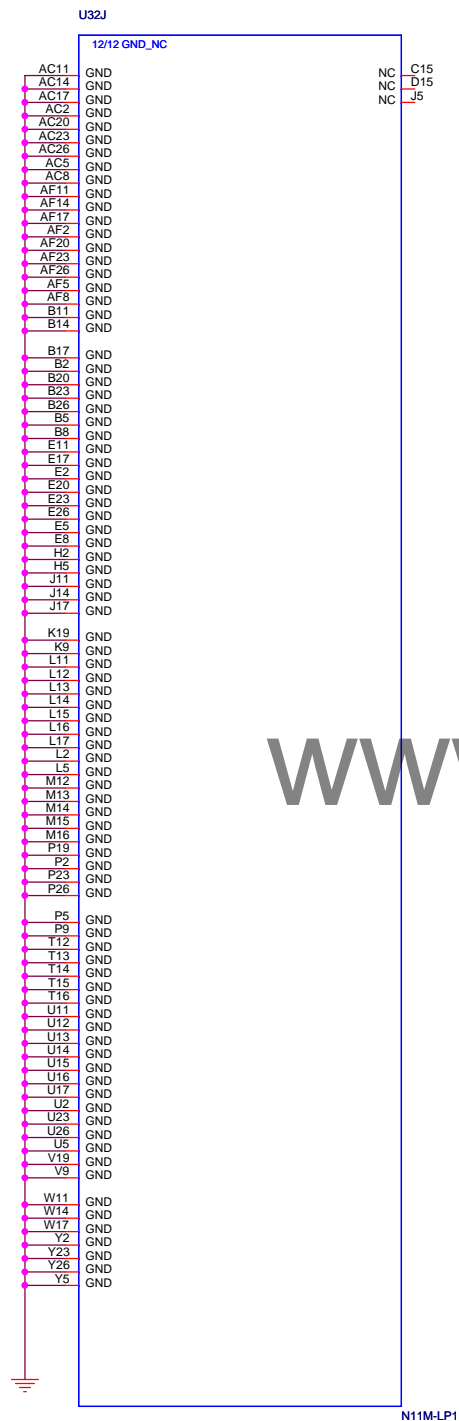
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| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3            |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev <RevCode> |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-MOC-000-0050 | 備註 <備註>       |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 27 of 39              |               |



```
RAMCFG for
Samsung 64Mx16 DDR3      0011
Hynix 64Mx16 DDR3        0010
```

```
PCIDEVID for
N10P-GS (0x0A34)      1 0100
N10P-GE (0x0A28)      0 1000
N10M-GS (0x0A74)      1 0100
N10M-GE (0x0A68)      0 1000
```



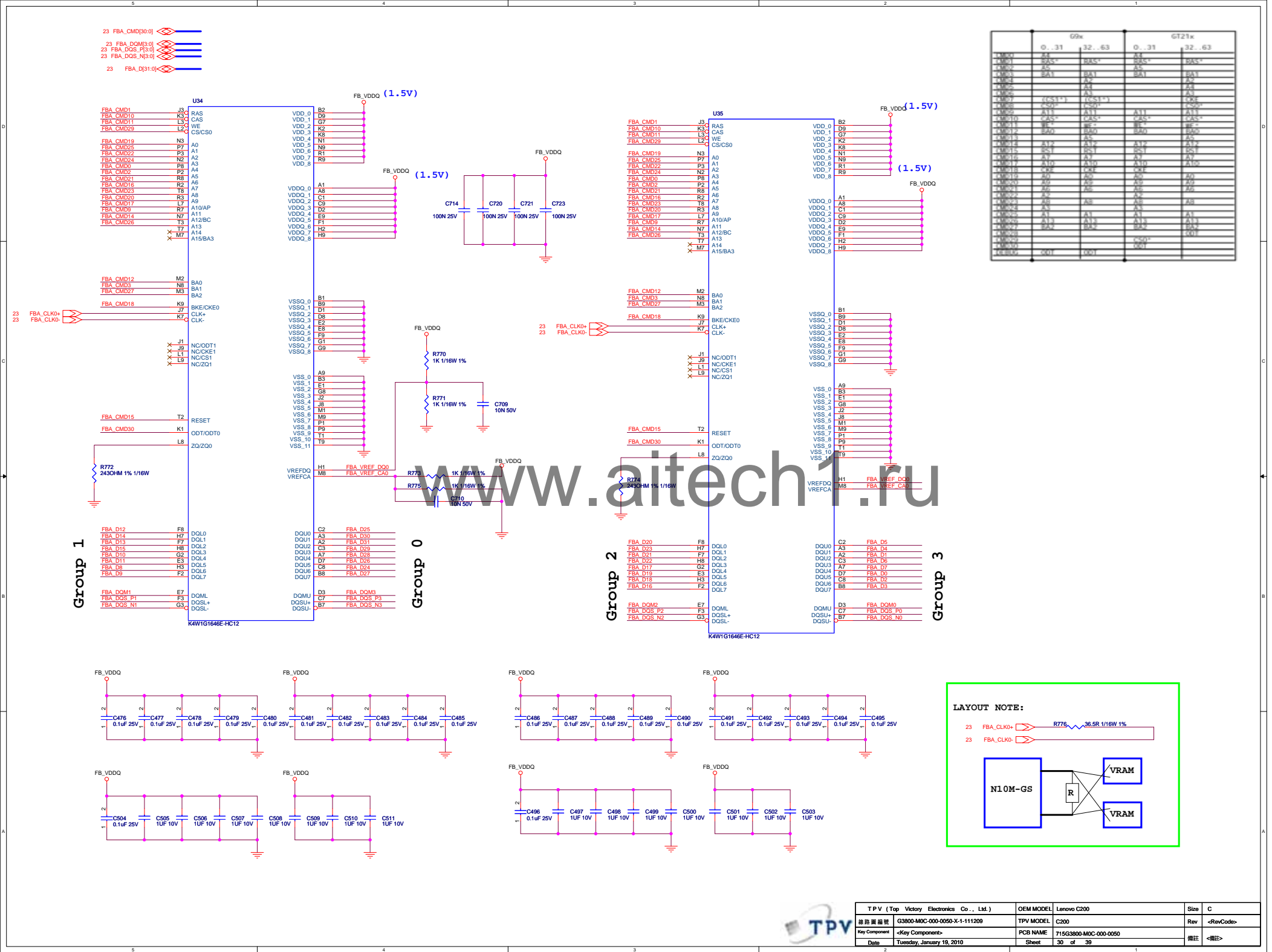


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|   |                               |           |                       |      |           |
|---|-------------------------------|-----------|-----------------------|------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) |                               | OEM MODEL | Lenovo C200           | Size | A3        |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL | C200                  | Rev  | <RevCode> |
| Key Component                           | <Key Component>               | PCB NAME  | 715G3800-M0C-000-0050 | 備註   | <備註>      |
| Date                                    | Tuesday, January 19, 2010     | Sheet     | 29 of 39              |      |           |

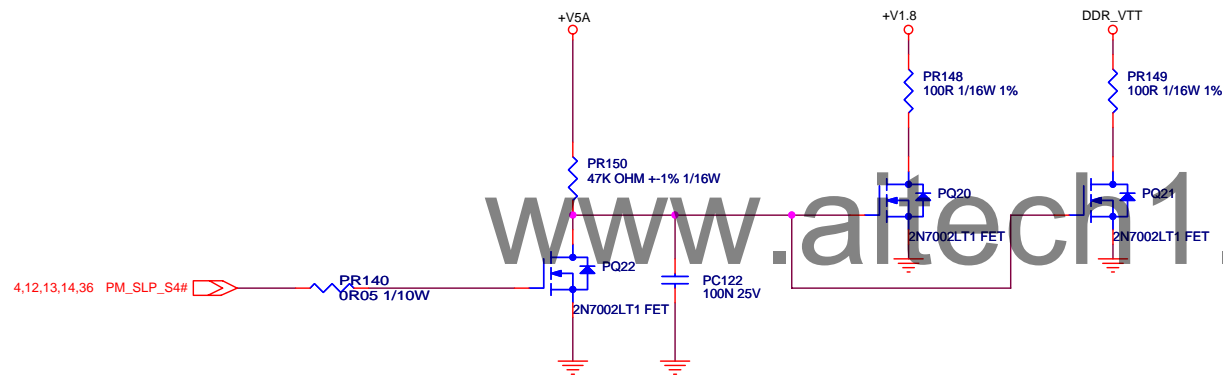
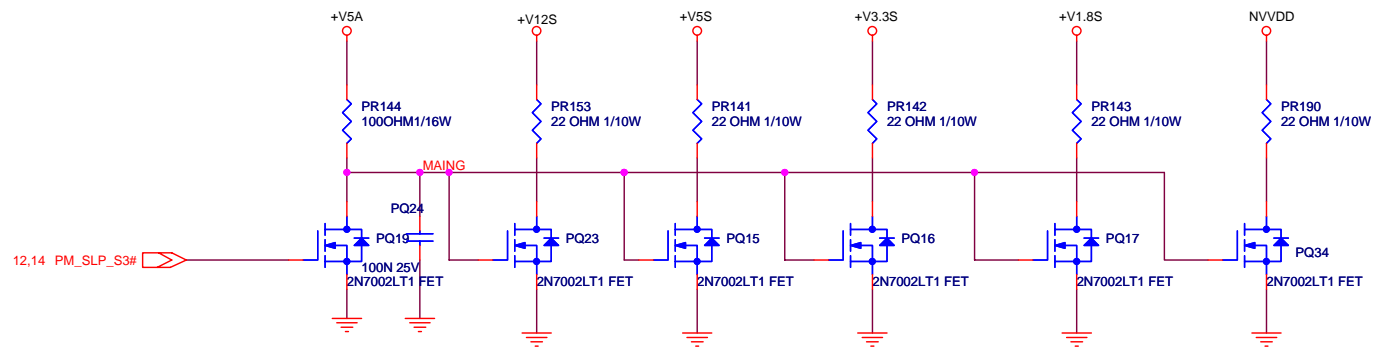




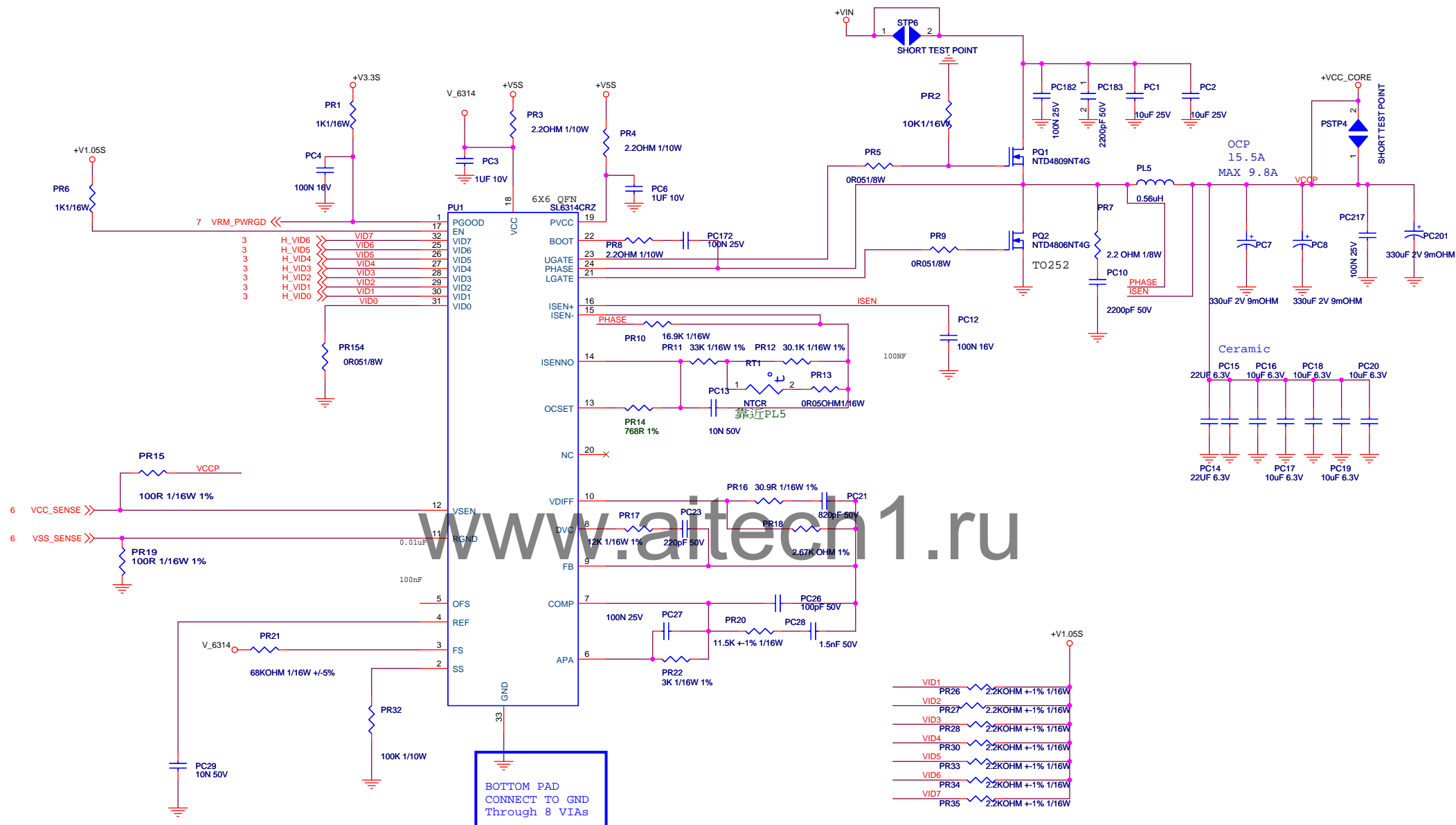
www.aitech1.ru



|   |                               |           |                       |      |      |
|---|-------------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                               | OEM MODEL | Lenovo C200           | Size | A3   |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | <Key Component>               | PCB NAME  | 715G3800-M0C-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010     | Sheet     | 31 of 39              |      |      |



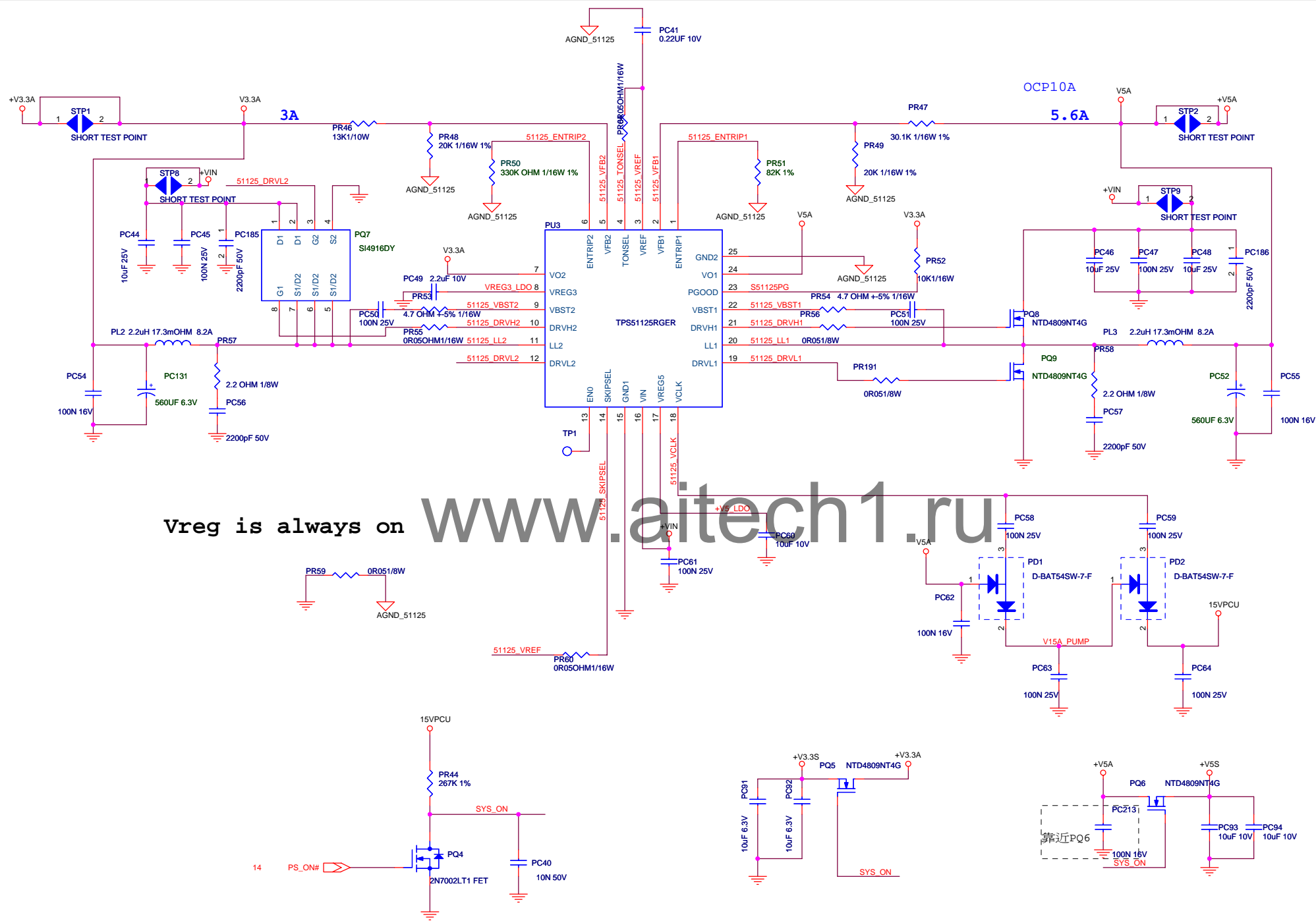
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|---|-------------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                               | OEM MODEL | Lenovo C200           | Size | B    |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | <Key Component>               | PCB NAME  | 715G3800-M0C-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010     | Sheet     | 32 of 39              |      |      |



|   |                           |           |                       |      |      |
|---|---------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                           | OEM MODEL | Lenovo C200           | Size | A3   |
| 線路圖編號                                   |                           | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | <Key Component>           | PCB NAME  | 715G3800-MOC-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010 | Sheet     | 33 of 39              |      |      |



|   |                           |           |                       |      |      |
|---|---------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                           | OEM MODEL | Lenovo C200           | Size | B    |
| 線路圖編號                                   |                           | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | <Key Component>           | PCB NAME  | 715G3800-M0C-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010 | Sheet     | 34 of 39              |      |      |

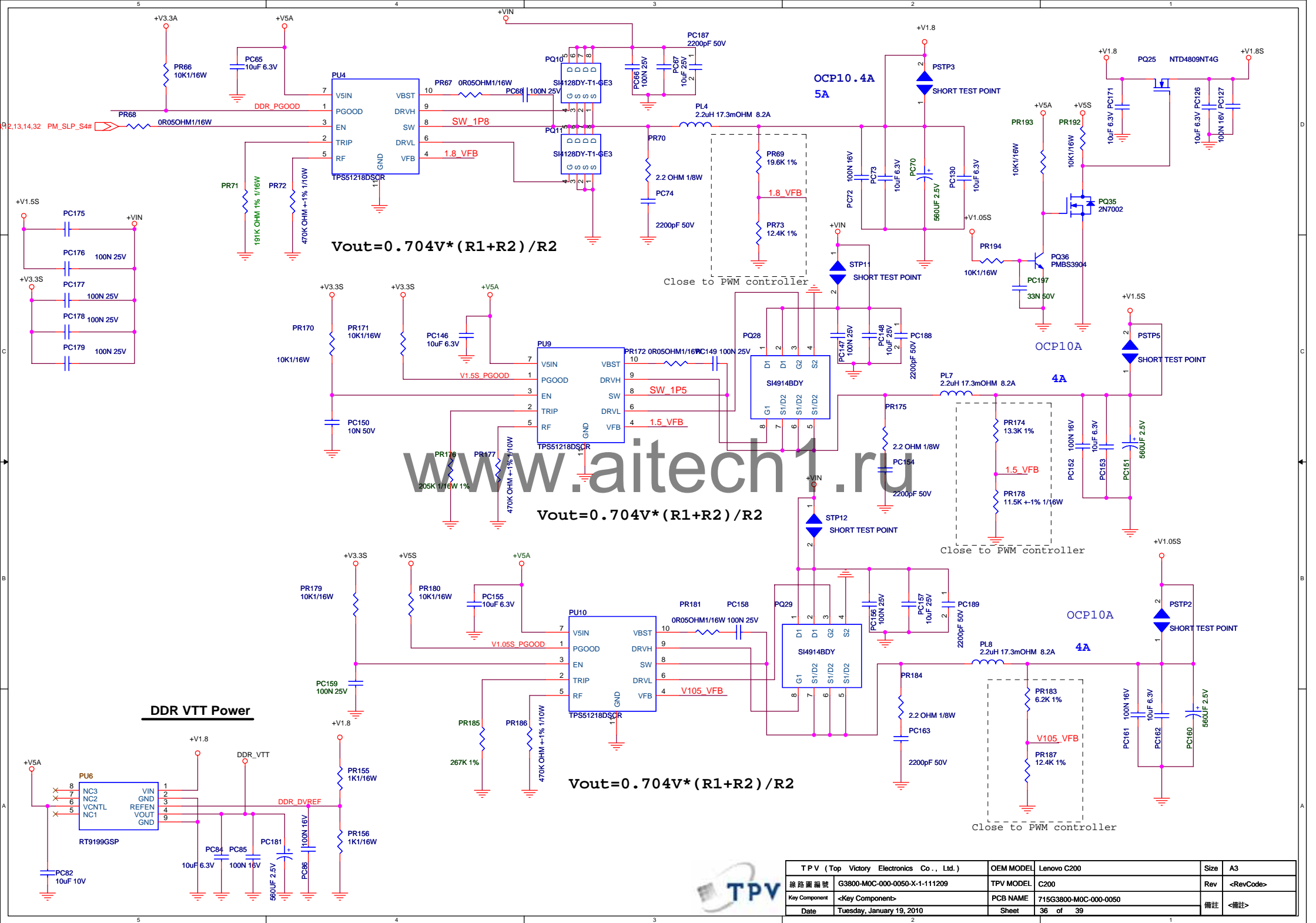


Vreg is always on

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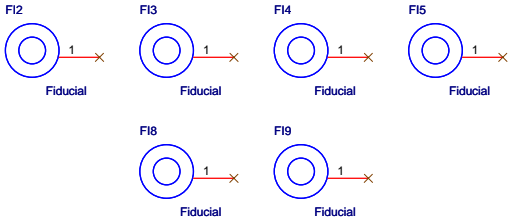
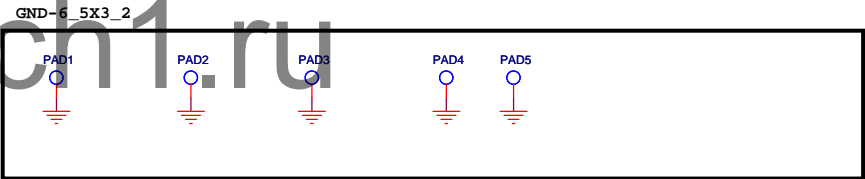
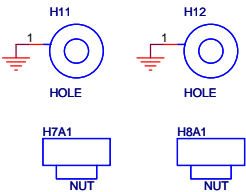
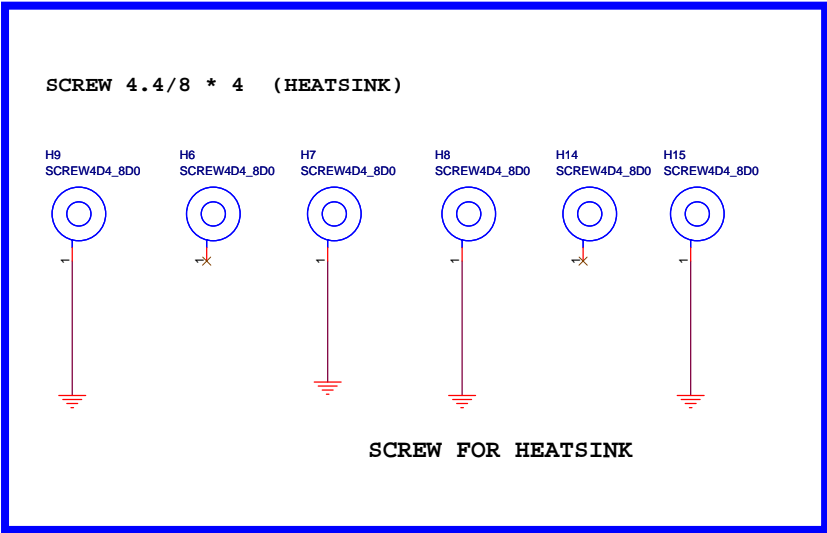
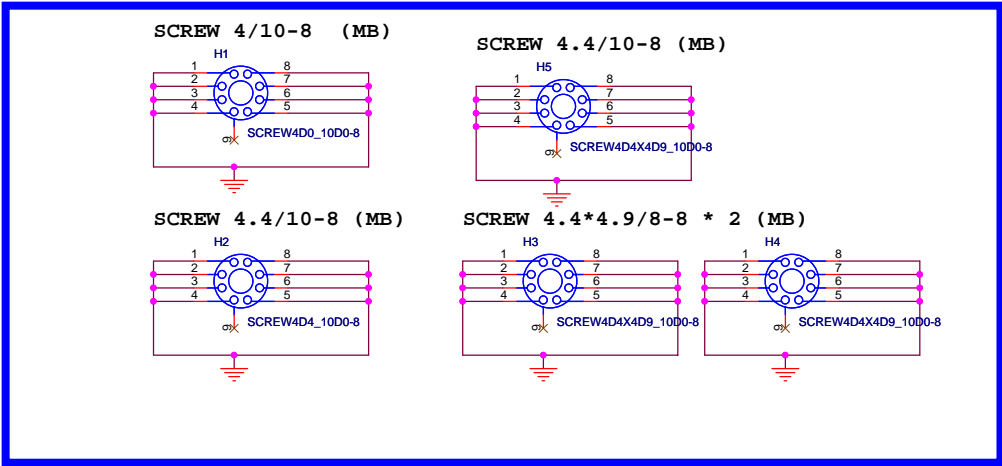
|   |                               |             |                       |           |
|---|-------------------------------|-------------|-----------------------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3        |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev       |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-MOC-000-0050 | 備註        |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 35 of 39              | <RevCode> |



|   |                               |             |                       |           |
|---|-------------------------------|-------------|-----------------------|-----------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3        |
| 線路圖編號                                   | G3800-M0C-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev       |
| Key Component                           | <Key Component>               | PCB NAME    | 715G3800-M0C-000-0050 | <RevCode> |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 36 of 39              | 備註        |







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|   |                               |             |                       |      |
|---|-------------------------------|-------------|-----------------------|------|
| TPV (Top Victory Electronics Co., Ltd.) | OEM MODEL                     | Lenovo C200 | Size                  | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL   | C200                  | Rev  |
| Key Component                           | 29.Screw Hole and NUT         | PCB NAME    | 715G3800-MOC-000-0050 | 備註   |
| Date                                    | Tuesday, January 19, 2010     | Sheet       | 38 of 39              | <備註> |

REVISION HISTORY

| Date | Author | Ver | Comments |
|------|--------|-----|----------|
|------|--------|-----|----------|

SIT2

For EMI solution:  
LAN item:  
1. Remove C712,C3372,C3373,C3374,C3375,C713  
2. C719 change to 470P  
3. C3348,C753 change to 100PF  
4. Short C3328,C3329  
5. Add GND spring at bottom layer H=6.2mm under LAN connector  
22. Delete C3384,C3385,C3386,C3387  
PS/2, DC-IN, USB, Camera/Mic connector item:  
6. Remove PC215 (Keeping PAD)  
11. FB27,FB28,FB29 change to 600 ohm Bead----(new part)  
12. Populate PAD6 H=6.2 on the Bottom side at DC\_IN connecter location  
13. Populate PAD4 H=6.2  
14. Add GND spring (H=9) on the Bottom side at PS/2 connecter location  
15. Add 330pF on the singal of CN15  
17. Improve USB connector GND (Bottom side adding GND shape to connect with GND)  
18. Adding 330pF on CN4 Pin 1, 4, 5, 6  
Audio item  
7. short FB30,PFB5  
8. Add 330P N18605929 to Gnd close FB29  
9. Add 330P N18605930 to Gnd close FB28  
10. Add 0.1uP N18933953 to Gnd close FB27  
19. Adding 1000p on SPK\_R+, SPK\_R-, SPK\_L+, SPK\_L-  
20. FB22,FB24,Fb23,FB25 change to 600 ohm Bead  
Screw hole item:  
16. Short R1052, R1054, R1057, R1053  
21. Screwhole Bottom side open SOLDER MASK

For S3/S4 auto resume issue:  
1.Touch panel controller board impact: Change power from +5VS to +5VA

For the first plug adapter power LED light issue:  
1. Add one GPIO pin(net SUS\_LED\_EN) of Super I/O to controller

For DFM issue:  
1.Modify I/O connector(USB port, phone jack) drill hole size  
2.Modify pad size of PAD1~PAD6  
3.Remove U6 and C132 location to bottom side

Delete Non-populate component :  
1. Footprint PR61,PR37,PR198,PR166,PR169,PR158,PR173,PR182,PR23,PR29,PR31  
PC5,PC36,PC22,PC25,PC24,PC11,PC69,PC195,PC203  
2. touch panel controller CKT



|   |                               |           |                       |      |      |
|---|-------------------------------|-----------|-----------------------|------|------|
| TPV (Top Victory Electronics Co., Ltd.) |                               | OEM MODEL | Lenovo C200           | Size | A3   |
| 線路圖編號                                   | G3800-MOC-000-0050-X-1-111209 | TPV MODEL | C200                  | Rev  | A    |
| Key Component                           | 26 - REVISION HISTORY         | PCB NAME  | 715G3800-MOC-000-0050 | 備註   | <備註> |
| Date                                    | Tuesday, January 19, 2010     | Sheet     | 39 of 39              |      |      |