## Jollen-Kit! Pro. JK2410\_2008 Board (S3C2410 Reference Board)

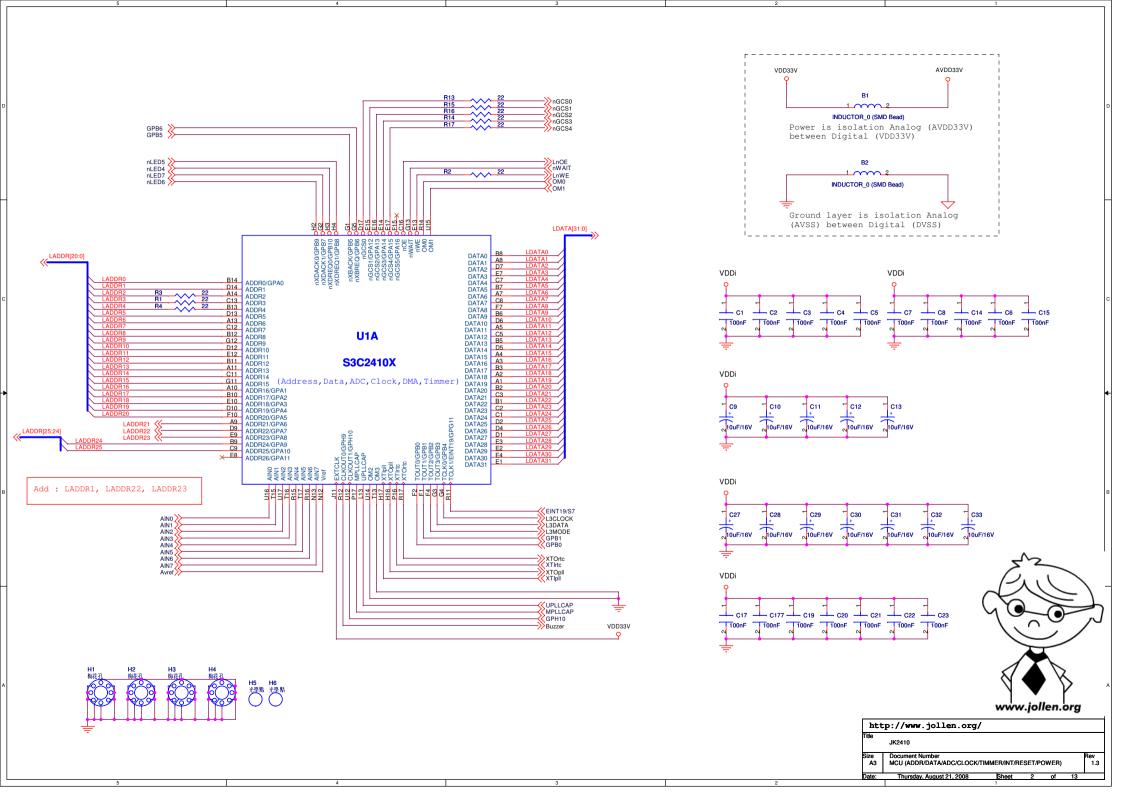
| PCB Revision | Revision Date Description |  |  |  |  |  |
|--------------|---------------------------|--|--|--|--|--|
|              |                           |  |  |  |  |  |
|              |                           |  |  |  |  |  |
|              |                           |  |  |  |  |  |
|              |                           |  |  |  |  |  |
|              |                           | The PCB Artwork guide for \$302410X  The recommended land open size is 0.39 - 0.41mm diameter on the bottom of the BGA. (Pattern 0.1mm, Space 0.12mm, Escape via pad 0.4mm/brill 0.2mm)  - All the SDRAM signals(nSCS, NSRAS, NSCS, MME, DQMn, SCKE, SCLK, MAN, ADDR, DATA) have to be similar length. By our lab test result, this PCB routing method has enhanced the SDRAM I/O voltage margin up to 2.5V  - Power signal (GND, 1.8V, 3.3V) should be reinforced as soon as possible. Also, the bypass capacitor has to be nearest to the power pads.  - All the memory signals are simulated at 35pf load. So, all capacitance including the board parasitic should be smaller than 35pf. The parasitic capacitance of the S3C2410 is typically 5pf.  Update Version Y2008: (1) Add : LED4, LED5, LED6, LED7 (2) Remove: il, 0.7 (3) Change CON12 from "Female" to "Male" (4) Add System bus: J10, Bus control: J11, Using pitch 2.0 (3) Change CON12 from "Female" to "Male" (4) Add System bus: J10, Bus control: J11, Using pitch 2.0 (3) Change CON12 from "Female" to "Male" (4) Add System bus: J10, Bus control: J11, Using pitch 2.0 (3) Change Switch: control: control co |  |  |  |  |

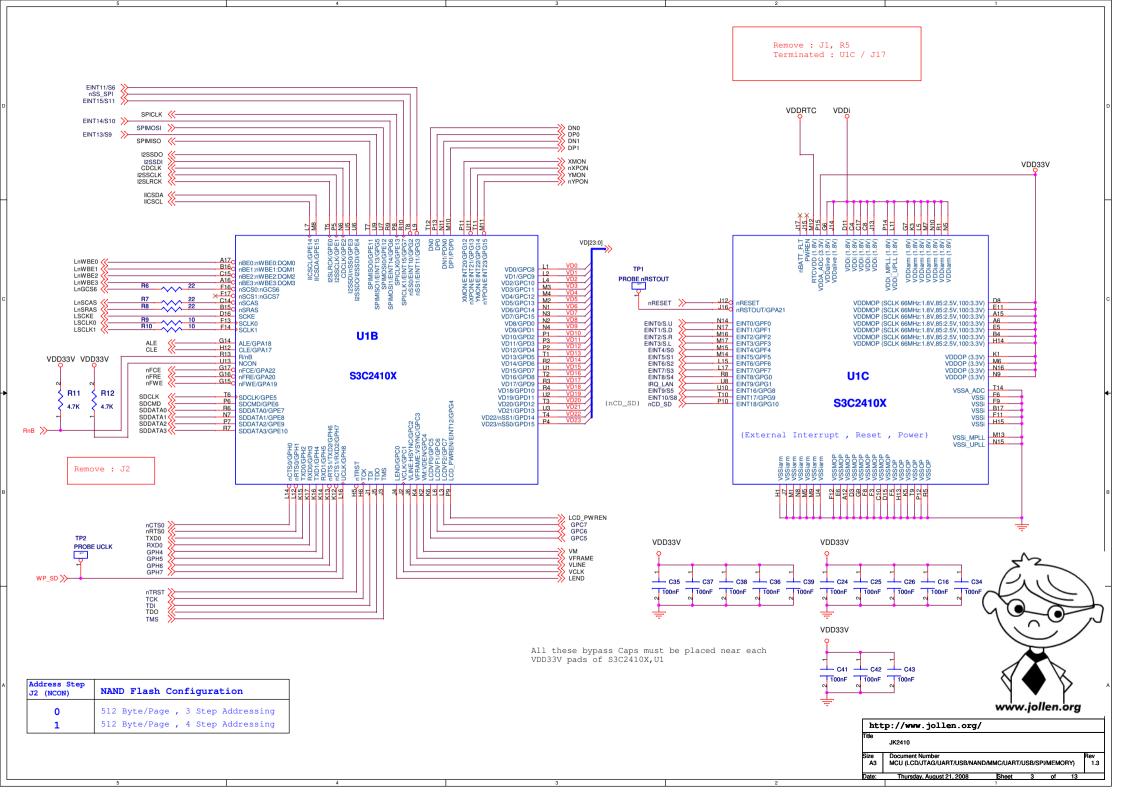
Title

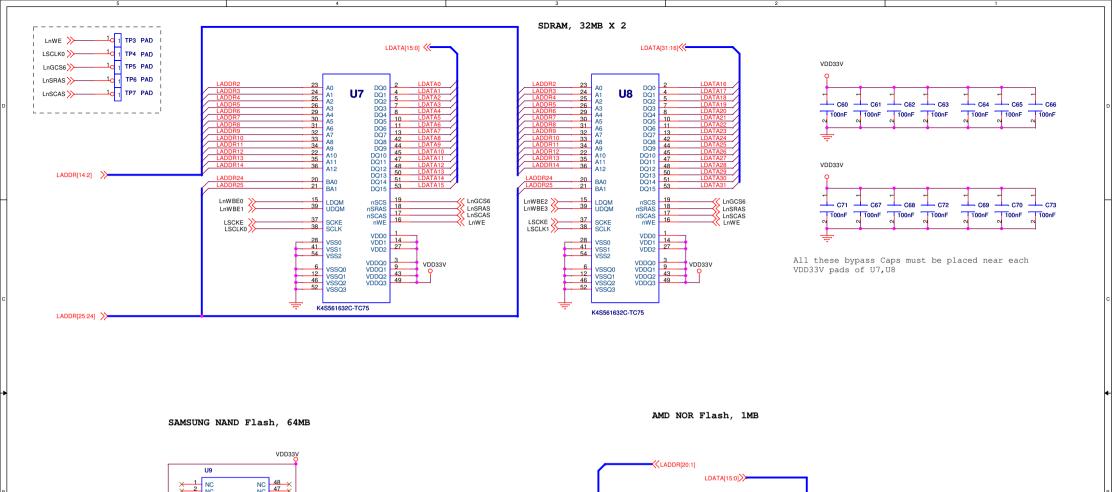
JK2410

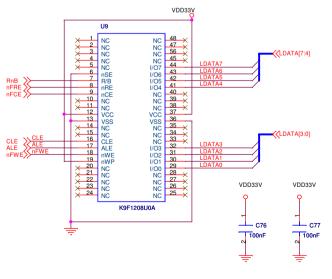
Size | Document Number | Revision History | 1.3

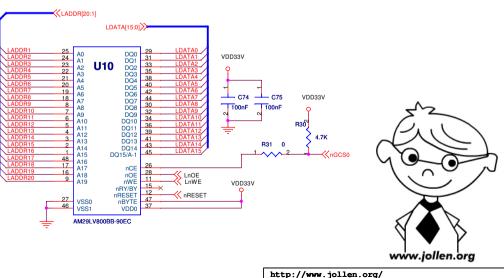
Date: Thursday, August 21, 2008 | Sheet 1 of 13











JK2410

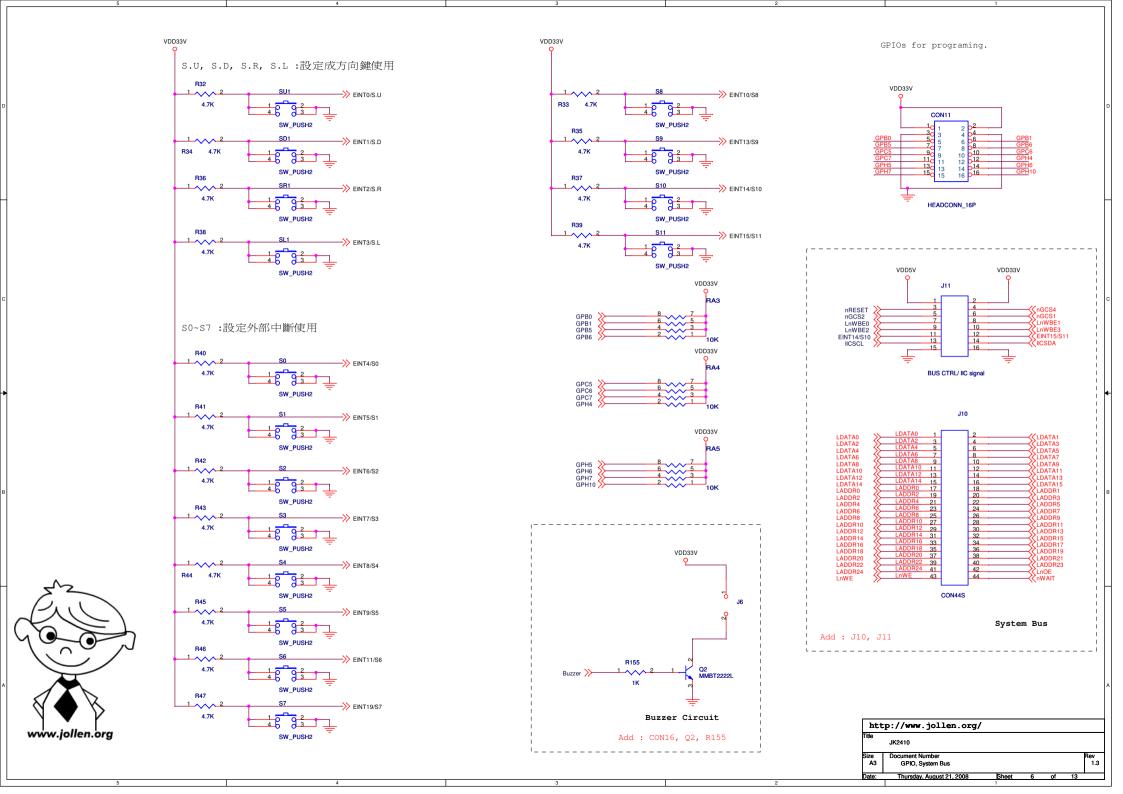
Ã3

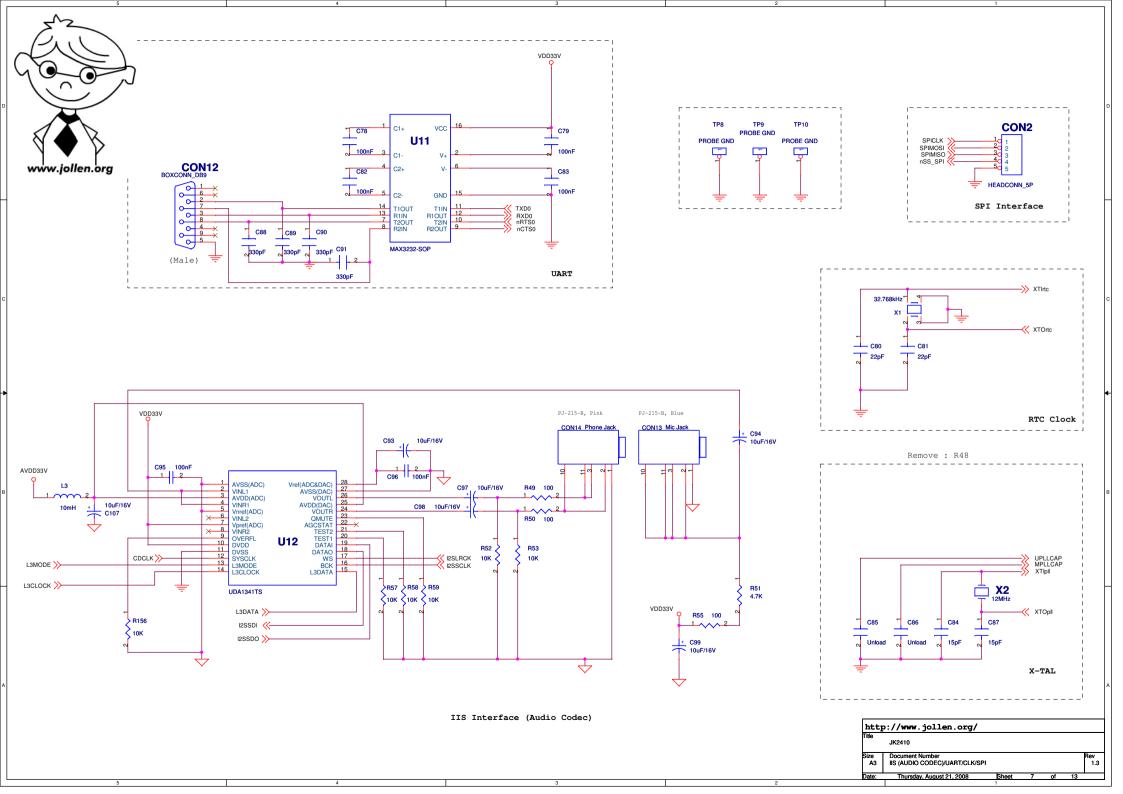
Document Number

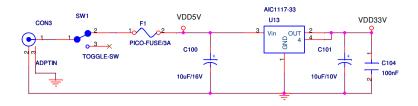
Thursday, August 21, 2008

Memory area

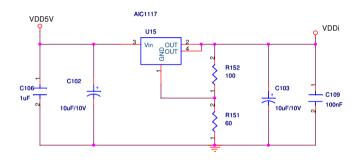
Rev 1.3

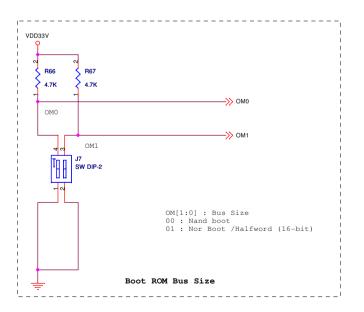


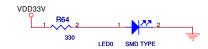


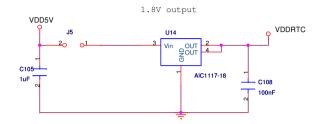


U15~~
CPU Default run on 266MHz, VDDi output = 2.0V

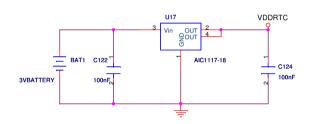


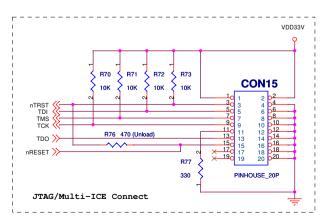


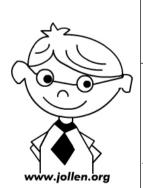




J5 in "on" when RTC function is none-sue, or battery is moved.







| http://www.jollen.org/ |   |       |   |    |    |            |  |  |  |
|------------------------|---|-------|---|----|----|------------|--|--|--|
| Title                  | JK2410  |       |   |    |    |            |  |  |  |
| Size<br>A3             | Document Number<br>POWER / SPI / JTAG/ LED / OM |       |   |    |    | Rev<br>1.3 |  |  |  |
| Date:                  | Thursday, August 21, 2008                       | Sheet | 8 | of | 13 | <u> </u>   |  |  |  |

