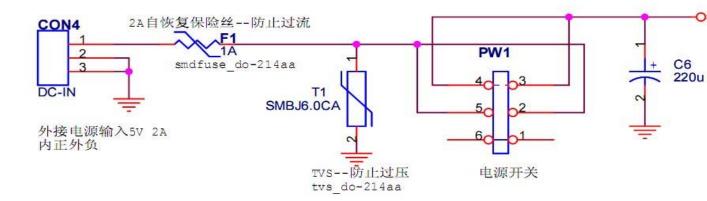
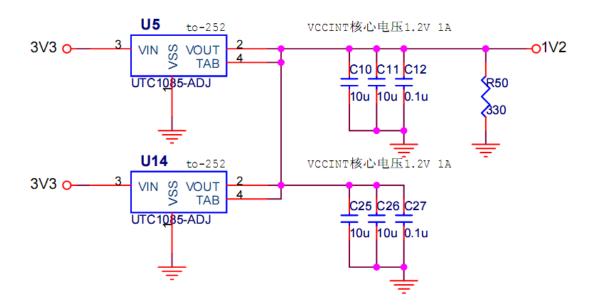
## **Hardware List V1.2**

In the ASK2CB board, FPGA 's VCCINT were connected to 1.2V, which is FPGA's core voltage, FPGA's another voltage is VCCIO, it's FPGA's IO voltage, connected to 3.3V.

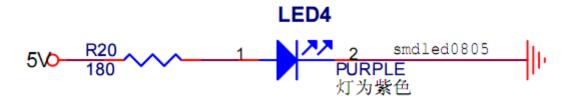
#### External power Part:



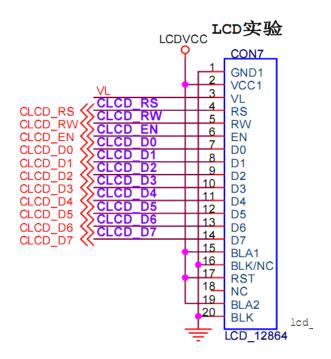
#### Power Supply:



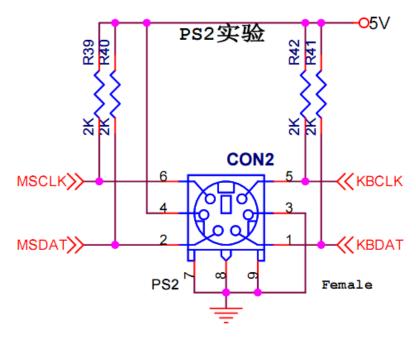
Power LED:



#### 1602 LCD:



#### PS2 interface:

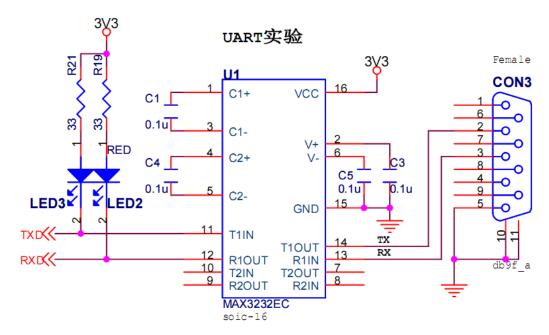


1.data 2.nc 3.gnd 4.vcc 5.clk 6.nc

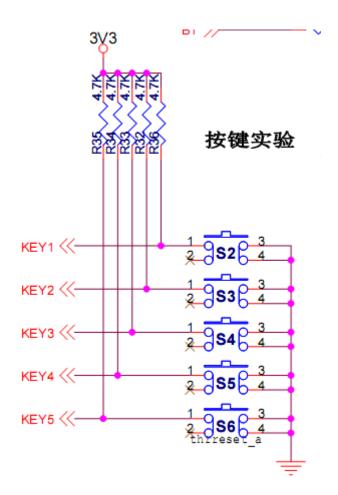
You can use PS/2 devider to use mouse and keyboard at the same time.



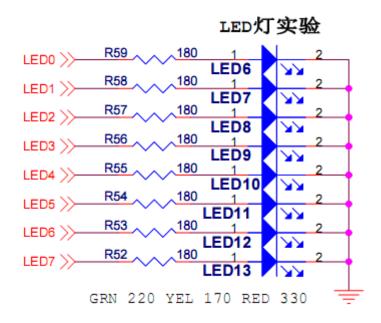
### RS232:



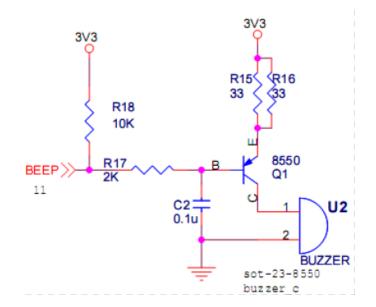
Button circuit:



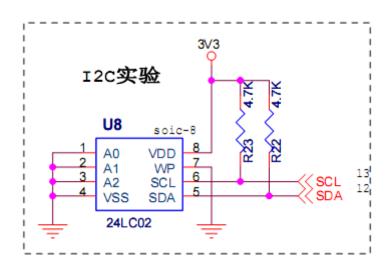
#### User LED:



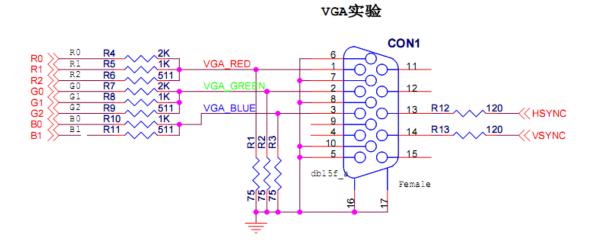
Buzzer:



I2C:

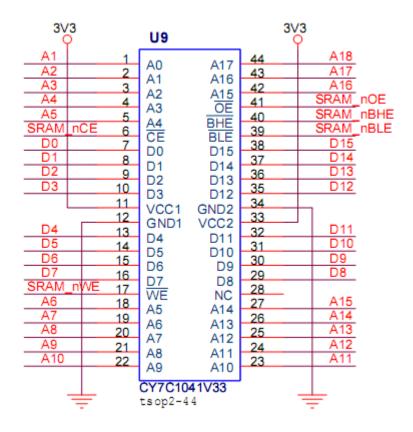


VGA:

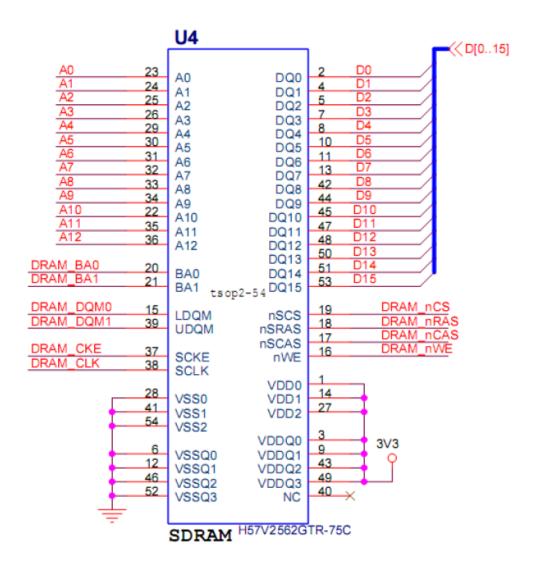


VGA circuit uses 8bit color mode, Red for 3 bit, Green for 3 bit, Blue for 2 bit, so total is 256-bit color.

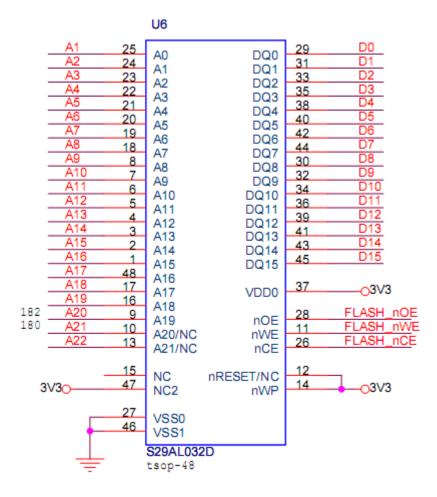
SRAM:



SDRAM:



FLASH:

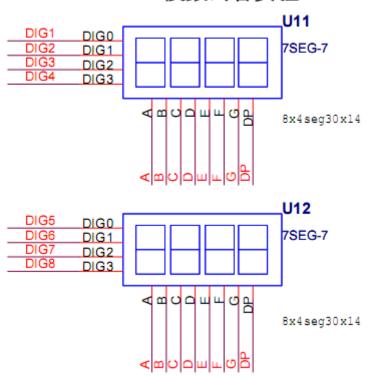


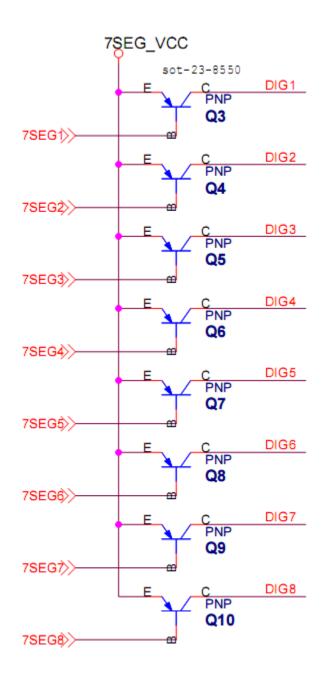
The actual Flash IC is S29AL064DN90:

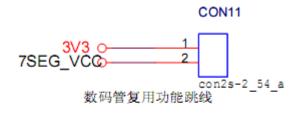
If you only wan to use SDRAM and FLASH, please discable SRAM's CS to high. If you want to use only SRAM and FLASH, please disable SDRAM's CS to high.

LED Tube:

# 7段数码管实验



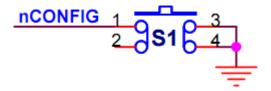




7SEGA 7SEGB 7SEGC 7SEGD 7SEGE 7SEGF	7SEGA 7SEGB 7SEGC 7SEGD 7SEGE 7SEGF 7SEGG	1 RP2 2 100 3 4 RP1 2 100 3	8 7 6 5 8 7 6	A B C D E F
7SEGG >>-		3	6	G
7SEGDP >>-	7SEGDP	4_^_	5	DP

7SEGA、7SEGB、7SEGC、7SEGD、7SEGE、7SEGF、7SEGG、7SEGDP are the seg select of the LED tubes, 7SEG1、7SEG2、7SEG3、7SEG4、7SEG5、7SEG6、7SEG7、7SEG8 are the bit select.

Reset:



AS and JTAG:

