

# OpenBoard

## Full Freedom Of Open Source Embedded Platform

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[翟开源](#)

<http://openbrd.5d6d.com>

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### 您可自由：



**分享** — 重製、散布及傳輸本著作



**重混** — 修改本著作

### 惟需遵照下列條件：



**姓名標示** — 您必須按照著作人或授權人所指定的方式，表彰其姓名（但不得以任何方式暗示其為您或您使用本著作的方式背書）。



**非商業性** — 您不得為商業目的而使用本著作。



**相同方式分享** — 若您變更、變形或修改本著作，您僅得依本授權條款或與本授權條款類似者來散布該衍生作品。

### 且認知到：

**免除** — 若您得到著作權人的同意，上述任何條件都可獲**免除**。

**公共領域** — 當本著作或其任何要素在相關法律下屬**公共領域**，此狀態絕不會受到本授權條款的影響。

**其他權利** — 任何下列的權利絕不會受到本授權條款的影響：

- 您**合理使用的權利**；
- 作者的**著作人格權**；
- 其他人可能對該著作本身或該著作如何被使用所擁有的權利，例如**形象權**或**隱私權**。

**聲明** — 為了再使用或散布之目的，您必須向他人清楚說明本著作所適用的授權條款。提供本網頁連結是最好的方式。



**What's free software?**

**--definition from GNU**



# Freedom(0)

**Run the program,  
for any purpose**



# Freedom(1)

**Study how the program  
works,  
and adapt it to your needs**



# Freedom(2)

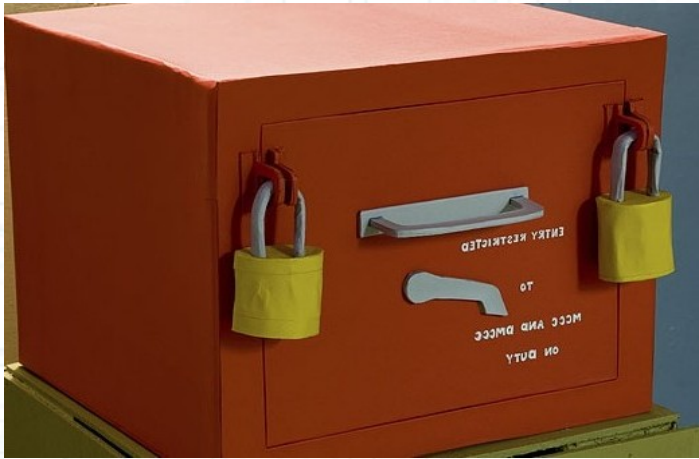
**Redistribute copies so you  
can help your neighbor**



# Freedom (3)

**Improve the program,  
and release your  
improvements to the public,  
so that the whole  
community benefits**





# What if free software meets close hardware?



**NDA**  
**Big Purchase**  
**Poor DS or UM**



# Restriction(0)

**I can't port my favourite  
game on my mp4**



# Restriction(1)

**I will study much painfully  
if there is no schematic**



# Restriction(2)

**I can't distribute it  
because there is no more  
PCBs**



# Restriction(3)

**I can't improve my  
washing-machine even  
he works like an idiot**



# I call it Open Source Embedded

- Open Hardware:
  - Open IC manual for programming
  - Open Schematic
  - Open PCB Layout (recommended)
  - Open Verilog ( if any )

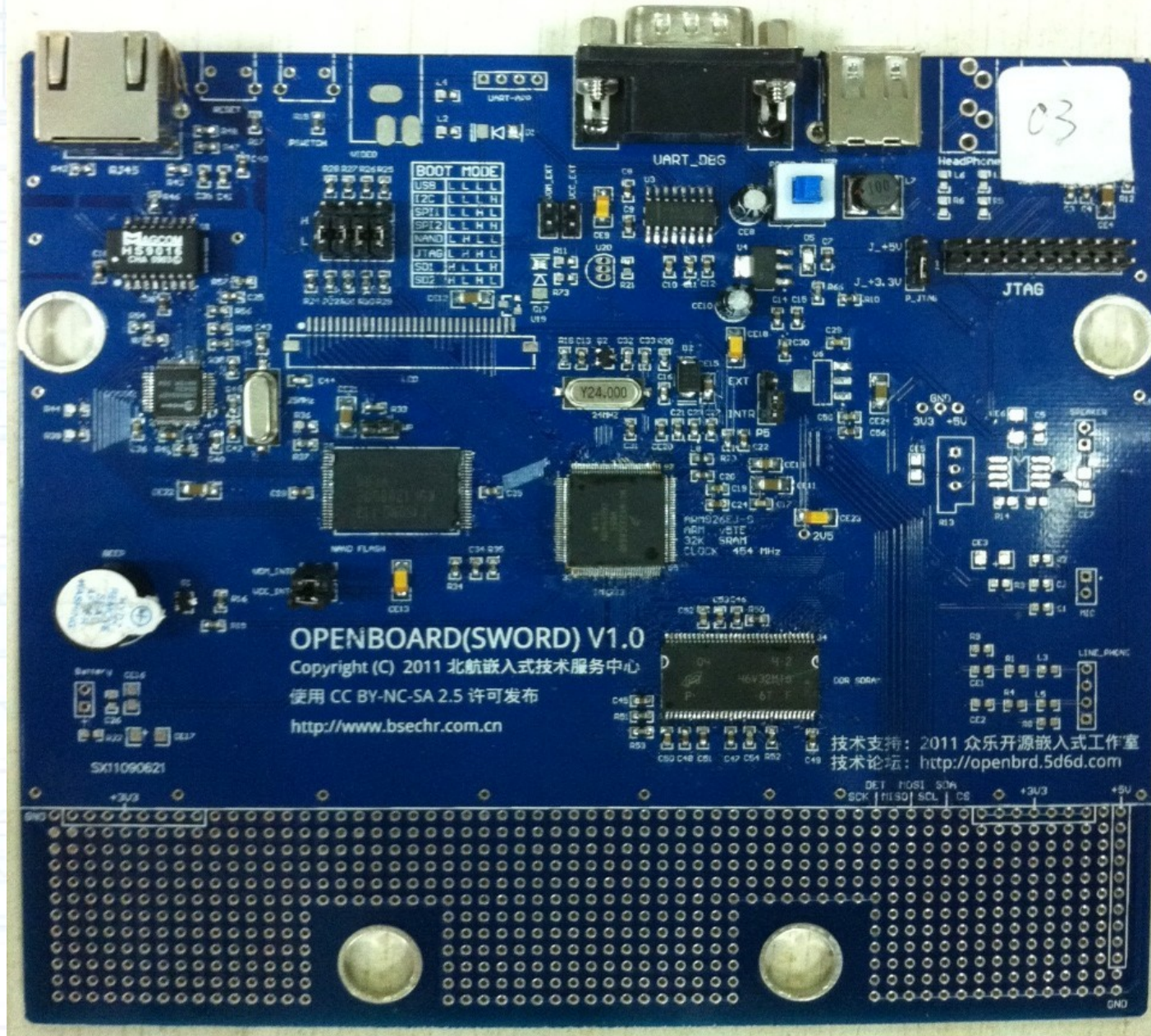


# I call it Open Source Embedded

- Open Source Firmware:
  - BSP (Board Specified Package)
  - OS (Linux or Open RTOS)
  - All Applications



# OpenBoard



# Features

- ARM9 with 454Mhz
- 64M DDR SDRAM
- 64M Nand-Flash
- Ethernet or Wifi
- USB/Audio&Video/UART/SD Card

**LCD and a big Lion battery**

**Plus a DIY area!**



# Advantages

- Getting all chip manuals from public
- Program from scratch (bare-metal)
- Porting latest Linux kernel
- Schematic and PCB with CC license

**Assembling Whole  
By Yourself!**



# Call Up Contributors

**mailing-list:**

**[openbrd@googlegroups.com](mailto:openbrd@googlegroups.com)**

**IRC:**

**[#openbrd @irc.freenode.net](irc://irc.freenode.net/#openbrd)**

**Forum:**

**<http://openbrd.5d6d.com>  
(chinese)**



git sources

**Bootloader:**

**[git://github.com/CFFHH/NiuBoot.git](https://github.com/CFFHH/NiuBoot.git)**

**BSP:**

**<https://github.com/tonghuix/openbrd>**



Open Day  
**Every Thursday**

**Room 1502,  
BeiHang BaiYan Buil.**

**Come and join in us!**

