

Luban-lite SDK配置

“工业芯、匠芯创”

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SDK下载



官方配置



板卡适配

PART1 | SDK下载

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仓库 (8)

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 d12x-doc

暂无描述

HTML

👁 1 ☆ 0 🗑 1

 luban-lite

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👁 9 ☆ 6 🗑 0

 thirdparty-app

本仓库用于存储三方dll库，本仓库内容只用于技术交流，不用于商业用途。

👁 10 ☆ 0 🗑 0



<https://gitee.com/artinchip/luban-lite.git>

master 分支 2 标签 0 克隆/下载

文件/目录	版本	提交时间
刘可亮 v1.0.4:update psram parameter 990c72f 1个月前 23次提交		
.vscode	v1.0.4	2个月前
application	v1.0.4	2个月前
bsp	v1.0.4	1个月前
doc	V1.0.1	6个月前
kernel	v1.0.4	2个月前
packages	v1.0.4	1个月前
target	v1.0.4:update psram parameter	1个月前
tools	v1.0.4	2个月前
.gitignore	v1.0.4	2个月前
Kconfig	V1.0.1	6个月前
README.md	v1.0.0	9个月前
ReleaseNote.md	v1.0.4	2个月前
SConscript	v1.0.3	4个月前
SConstruct	v1.0.0	9个月前
win_cmd.bat	v1.0.4	2个月前
win_env.bat	v1.0.0	9个月前

PART2 | 官方配置

```
... D:\luban-lite-master-V104
> list
scons: Reading SConscript files ...
Built-in configs:
 0. d12x_demo68-nand_baremetal_bootloader
 1. d12x_demo68-nand_rt-thread_helloworld
 2. d12x_demo68-nor_baremetal_bootloader
 3. d12x_demo68-nor_rt-thread_helloworld
 4. d12x_hmi-nor_baremetal_bootloader
 5. d12x_hmi-nor_rt-thread_helloworld
 6. d13x_demo88-nand_baremetal_bootloader
 7. d13x_demo88-nand_rt-thread_helloworld
 8. d13x_demo88-nor_baremetal_bootloader
 9. d13x_demo88-nor_rt-thread_helloworld
10. d13x_kunlunpi88-nor_baremetal_bootloader
11. d13x_kunlunpi88-nor_rt-thread_helloworld
12. d21x_demo128-nand_baremetal_bootloader
13. d21x_demo128-nand_rt-thread_helloworld
14. g73x_demo100-nor_baremetal_bootloader
15. g73x_demo100-nor_rt-thread_helloworld
```

- **支持:**

多种CPU

在售开发板

- **配置:**

BootLoader + RT-Thread

- **d13x_kunlunpi88-nor_rt-thread_helloworld**

CPU型号:	d13x
板卡名称:	kunlunpi88-nor
内核名称:	rt-thread
应用名称:	helloworld

PART3 | 板卡适配

● 操作系统



● 代码管理



- 串口调试



- 烧录工具



AiBurn

```
> scon --add-board
scons: Reading SConscript files ...
Chip list:
  0: d12x
  1: d13x
  2: d21x
  3: g73x
Select chip for new board(number): 0
d12x

Reference defconfig:(Create new board base on selected defconfig):
  0: d12x_demo68-nand_rt-thread_helloworld_defconfig
  1: d12x_demo68-nor_rt-thread_helloworld_defconfig
  2: d12x_hmi-nor_rt-thread_helloworld_defconfig
Select reference defconfig for new board(number): 1
d12x_demo68-nor_rt-thread_helloworld_defconfig

Input new board's name: test
test

Input new app's name: (default helloworld)
helloworld

Input manufacturer's name: aic
aic

Copy D:\luban-lite-master-V104\target\configs\d12x_demo68-nor_rt-thr
104\target\configs\d12x_test_rt-thread_helloworld_defconfig
Copy D:\luban-lite-master-V104\target\configs\d12x_demo68-nor_bareme
104\target\configs\d12x_test_baremetal_bootloader_defconfig
Copy D:\luban-lite-master-V104\target\d12x\demo68-nor to D:\luban-l
Add board test for aic succeed!
```

- CPU
- 模板
- 名称

- **pinmux**

target\<<CPU>\<board>\pinmux.c

- **BootLoader**

board->option

Baremetal options -> Console -> Console Uart ID

- **RT-Thread**

board->option

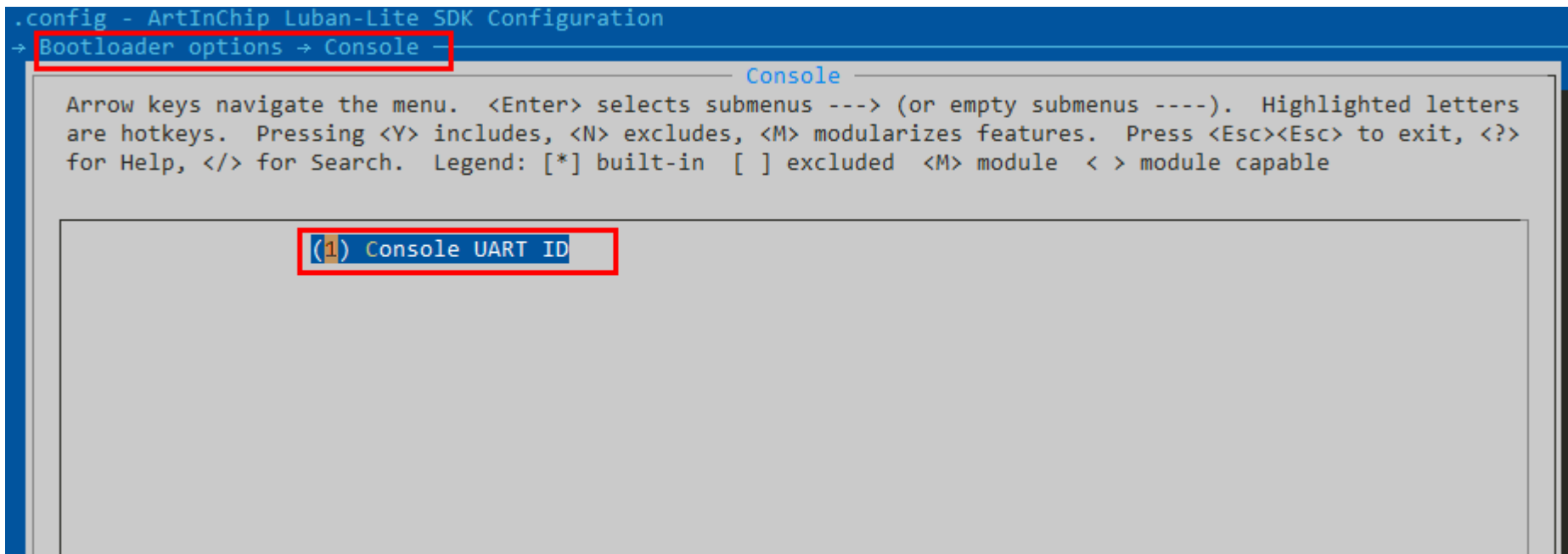
Rt-Thread options -> RT-Thread Kernel -> Kernel Device

Object

- pinmux

```
9  #include <aic_core.h>
10 #include <aic_hal.h>
11 #include "board.h"
12
13 struct aic_pinmux
14 {
15     unsigned char    func;
16     unsigned char    bias;
17     unsigned char    drive;
18     char *           name;
19 };
20
21 struct aic_pinmux aic_pinmux_config[] = {
22 #ifdef AIC_USING_UART0
23     /* uart0 */
24     {5, PIN_PULL_DIS, 3, "PA.0"},
25     {5, PIN_PULL_DIS, 3, "PA.1"},
26 #endif
27 #ifdef AIC_USING_UART1
28     /* uart1 */
29     {5, PIN_PULL_DIS, 3, "PA.2"},
30     {5, PIN_PULL_DIS, 3, "PA.3"},
31 #endif
```

- bootloader



- Rt-thread

```
.config - ArtInChip Luban-Lite SDK Configuration
→ Rt-Thread options → RT-Thread Kernel → Kernel Device Object :
----- Kernel Device Object -----
Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----). Highlighted letters
are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?>
for Help, </> for Search. Legend: [*] built-in [ ] excluded <M> module < > module capable

    [*] Using device object
    [ ] Using ops for each device object
    [ ] Enable additional interrupt trace information
    [*] Using console for rt_kprintf
    (128) the buffer size for console log printf
    (uart1) the device name for console
```


- **型号更改**

SPI-Nor: sfud

SPI-Nand: menuconfig

- **分区更改**

target\d12x\demo68-nor\pack\image_cfg.json

- SPI-Nor

```
.config - ArtInChip Luban-Lite SDK Configuration
→ Drivers options → Peripheral

Peripheral

Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----). Highlighted letters
are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?>
for Help, </> for Search. Legend: [*] built-in [ ] excluded <M> module < > module capable

[ ] SPINAND Driver library
[*] SPINOR Driver SFUD: Serial Flash Universal Driver
[*] Using defined supported flash chip information table
[ ] Aic NFTL support
    Touch Panel Support --->
    External Audio Codec Support --->
```

- SPI-Nand

```
.config - ArtInChip Luban-Lite SDK Configuration
→ Drivers options → Peripheral

Peripheral

Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----). Highlighted letters
are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?>
for Help, </> for Search. Legend: [*] built-in [ ] excluded <M> module < > module capable

-* SPINAND Driver library
[ ] Support Dosilicon SPI NAND
[ ] Support Etron SPI NAND
[ ] Support Micron SPI NAND
[ ] Support Macronix SPI NAND
[*] Support Winbond SPI NAND
[ ] Support GigaDevice SPI NAND
[ ] Support Toshiba SPI NAND
[ ] Support Foresee SPI NAND
[ ] Support Xtx SPI NAND
[ ] Support Zetta SPI NAND
[ ] Support Zbit SPI NAND
[ ] Support ESMT SPI NAND
[ ] Support UMTEK SPI NAND
[ ] Support QUANXING SPI NAND
[ ] Support XINCUN SPI NAND
```

- 分区

```
target > d12x > demo68-nor > pack > {} image_cfg.json > ...
1  {
2  "spi-nor": { // Device, The name should be the same with string in image:info:media:type
3  "size": "16m", // Size of SPI NOR
4  "partitions": {
5  "spl":      { "size": "256k" },
6  "userid":  { "size": "256k" }, // at least 16KB
7  "os":      { "size": "2m" },
8  "rodata":  { "size": "6m" },
9  "data":    { "size": "7m" }
10 }
11 },
```

让使用更简单

Sincere Cooperation For A Win-win Situation



Luban-lite 技术交流群



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