

# AndroidTool Manual

Version 1.2

2018-04-02



# Revision

Ver	Data	Author	Brief	Publish	Memo
1.0	2014-07-28	LY			
1. 1	2018-01-10	LY			
1. 2	2018-04-02	LY			



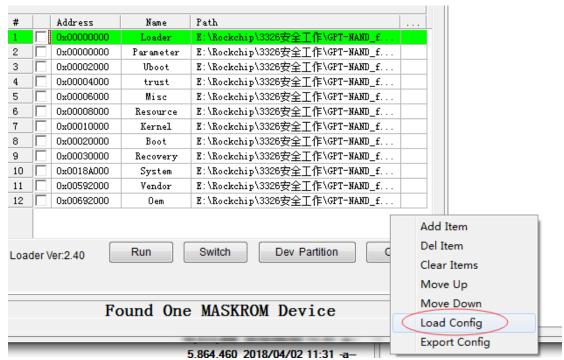
### TOC

1.	Main Function		
	1.1.	Import Partition config	4
	1.2.	Export partition config	5
	1.3.	Download image	6
	1.4.	Switch	6
	1.5.	Dev Partition	6
	1.6.	Download update.img	7
	1.7.	Erase Flash	7
	1.8.	unpack update.img	8
	1.9.	Download Boot	8
	1.10.	Download gpt	9
	1.11.	Read Capability	10
	1.12.	Go Maskrom	10
	1.13.	Clear sn	11
2.	Proble	ems	11
	2.1.	Download item not exist	11
	2.2.	Loading firmware failed	12
	2.3.	Check chip failed	12
	2.4.	Download Boot failed	12
	2.5.	Download image failed	13
	2.6.	Check image failed	
	2.7.	GPT not support	
3.	Notice	)	



### 1. Main Function

### 1.1. Import Partition config

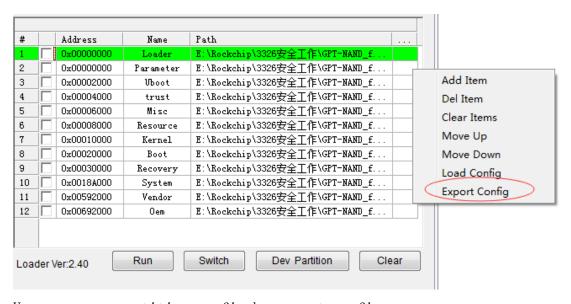


You can import partition by load Config $_{\circ}$  You can set default config in the config.ini at DEFAULT\_IMAGE\_CONFIG





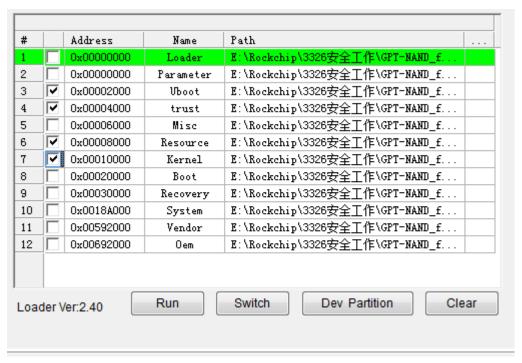
### 1.2. Export partition config



You can save partition config by export config



### 1.3. Download image



#### Step by step:

- Device enter into loader or maskrom and connect with pc. you should check loader at the state of maskrom
- Check download item, if address of item is zero, you can select parameter to load partition
- Click" Run"

#### 1.4. Switch

When tool found one msc adb mtp uvc, you can click switch to enter loader or maskrom state.

#### 1.5. Dev Partition

You want to user partition in the device, you can click" Dev Partition" at the loader or maskrom state.



### 1.6. Download update.img



#### Notice:

- You can only download update.img at the loader or maskrom.otherwise, switch firstly
- click "Firmware" can select update.img or loader file.

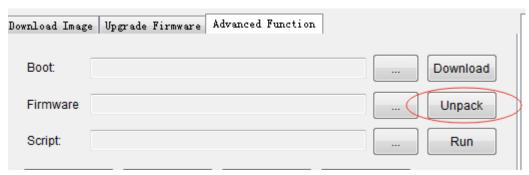
#### 1.7. Erase Flash

EraseFlash will erase all of data in the flash.

- 1. click "Firmware" to select update.img or loader.bin firstly
- 2. device enter into maskrom or loader and connect with pc
- 3. click "EraseFlash"



### 1.8. unpack update.img

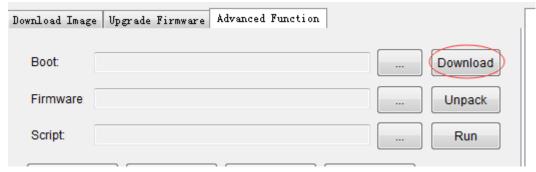


Unpack all of download item from update.img saving into output dir.

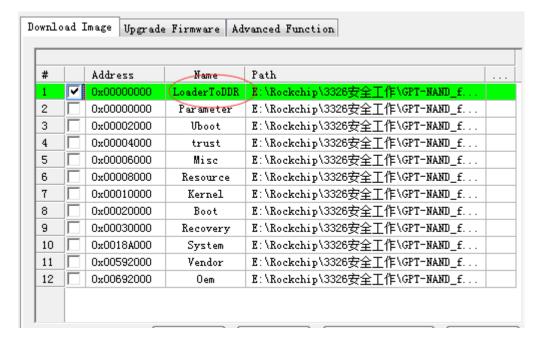
#### 1.9. Download Boot

It will do two things.

- 1. download ddr init code into sram and run
- 2. download rockusb code into ddr and run



Or double click"Loader"and choose "LoaderToDDR"





#### 1.10. Download gpt

Gpt file have two format: parameter or partition\_table.img,

Parameter pay attention to two point

1. It must have "TYPE:GPT" line in the parameter.

```
FIRMWARE_VER:7.1

MACHINE_MODEL:RK3126c

MACHINE_ID:007

MANUFACTURER:rk3126c

MAGIC: 0x5041524B

ATAG: 0x00200800

MACHINE: 3126c

CHECK_MASK: 0x80

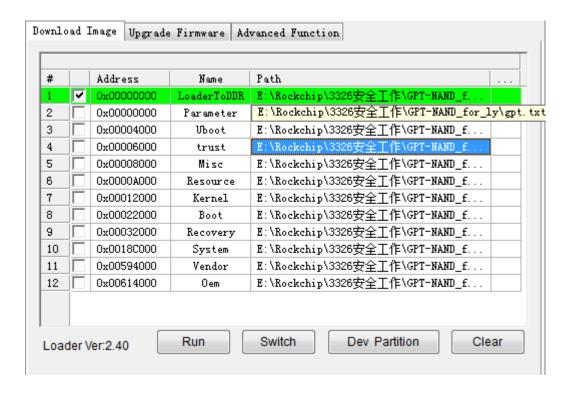
PWR_HLD: 0,0,A,0,1

TYPE: GPT

CMDLINE:mtdparts=rk29xxnand:0x00002000@0x00004000(uboot),0x000002000@0x000006
```

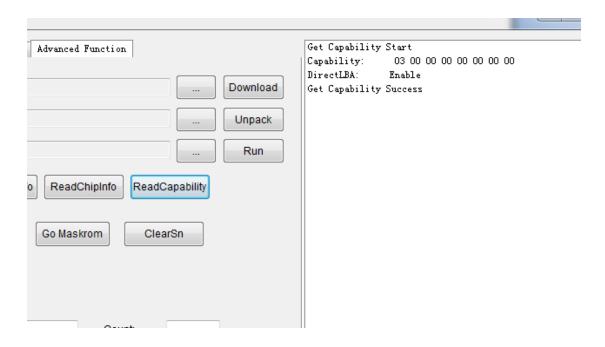
2.if last partition will want to have all of remain room,it must have "grow" property follow with name.

6000(atf),0x00038000@0x00008000(boot:bootable),-@0x0040000(rootfs:grow)





## 1.11. Read Capability



It must enable DirectLBA to download gpt, otherwise popup error" Writing gpt did not support"

### 1.12. Go Maskrom

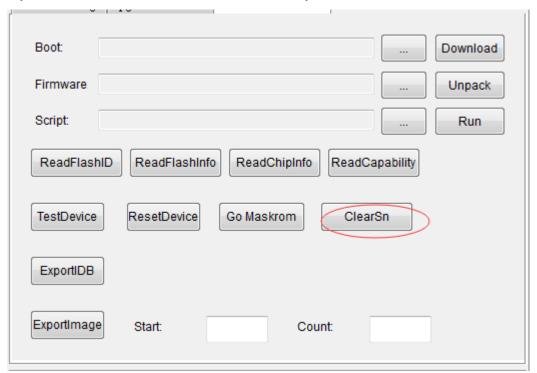


If you want device enter into maskrom at the state of loader, you can click "Go maskrom"



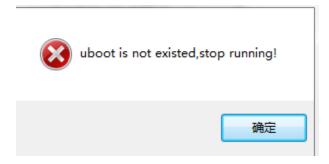
#### 1.13. Clear sn

If you want to clear sn mac ... in the idblock sector3, you can click "clear sn"



## 2. Problems

### 2.1. Download item not exist



It show you uboot item is not exist.



### 2.2. Loading firmware failed



- Check whether firmware was open by other process
- Checking format of firmware failed
- Firmware was modified

### 2.3. Check chip failed

- Chip info in the firmware was different with device
- Click" ReadChipInfo" to get chip info from device, chip info show at the red circle



Creating update.img need use chip parameter at the green circle

```
| mkupdate.bat - 记事本
| 文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
| Afptool -pack . / Image\update.img
| RKImageMaker.exe -RK31 | RK3188Loader(L)_V2.13.bin | Image\update.img update.img - os_type:androidos
```

#### 2.4. Download Boot failed

• Detect ddr hardware



• Check loader if match with device

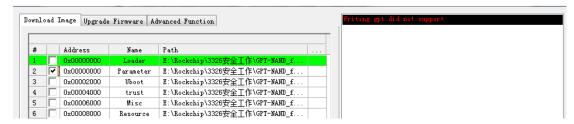
### 2.5. Download image failed

- Update tool and loader
- Connect device with pc into back usb port
- Detect flash hardware

### 2.6. Check image failed

- Confirm that partition size is enough in the parameter
- Flash driver has some bug, erase flash and retry
- Test ddr with tool

### 2.7. GPT not support



click "Read Capability" to confirm if function of DirectLBA is enabled

### 3. Notice

- Copy tool into dir including only ascii char under the non-chinese os
- Tool must run under the administrator account
- After updating Config.ini, it will be effect to restart tool.