



Application Notes

Amlogic Burning Key Instrunction

Revision 0.1

Amlogic, Inc.
3930 Freedom Circle
Santa Clara, CA 95054
U.S.A.
www.amlogic.com

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Revision History

Version	Date	Author	Modification
0.1	Mar 26, 2019	Pei.pei	Draft

Overview

This document is used for burn key instruction, burn key operation, 4 step.

- 1.Modify burn image, add burn Key option with CustomizationTool
- 2.Copy Key file to Tool Installation license directory
- 3.Check Key configuration ini to meet the demand
- 4.Burn Key image as common image

1. Modify burn image,add burn Key option

First,Need add burn key option for tell burn for which key should be burned,
Open CustomizationTool.exe, the main interface of the tool will be popped up (Figure 1.1).

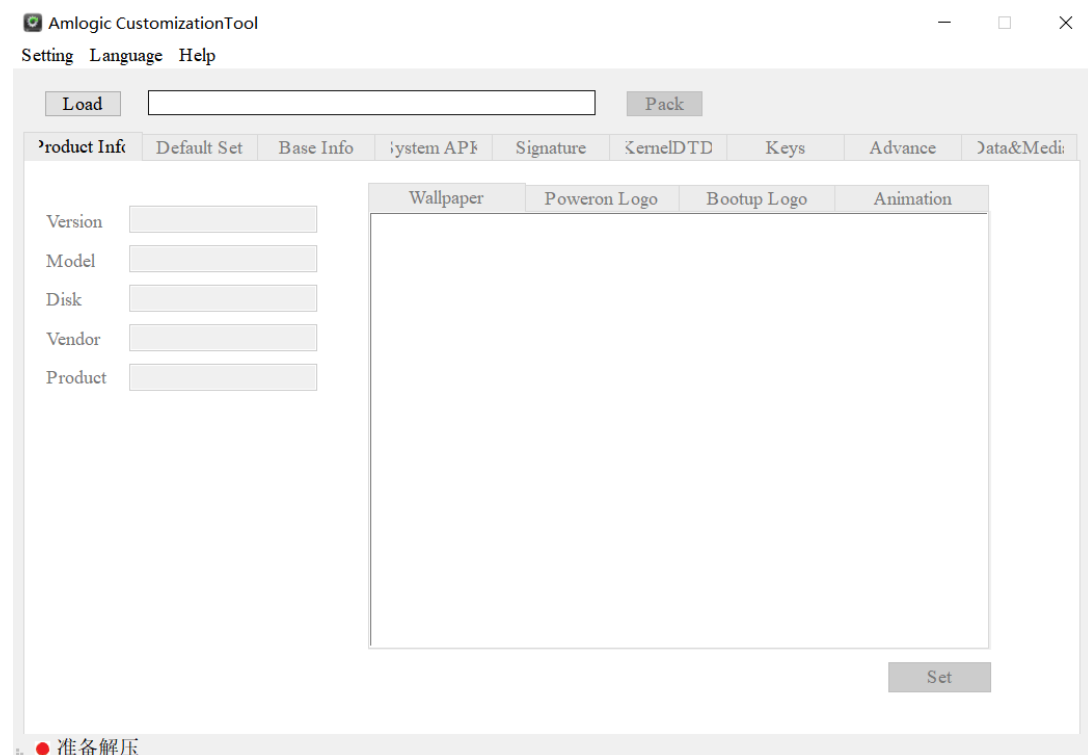


Figure 1.1 CustomizationTool

After loading the original image pack, it will enter the following unpack interface (Figure 1.2), choose “Setting Key” option.

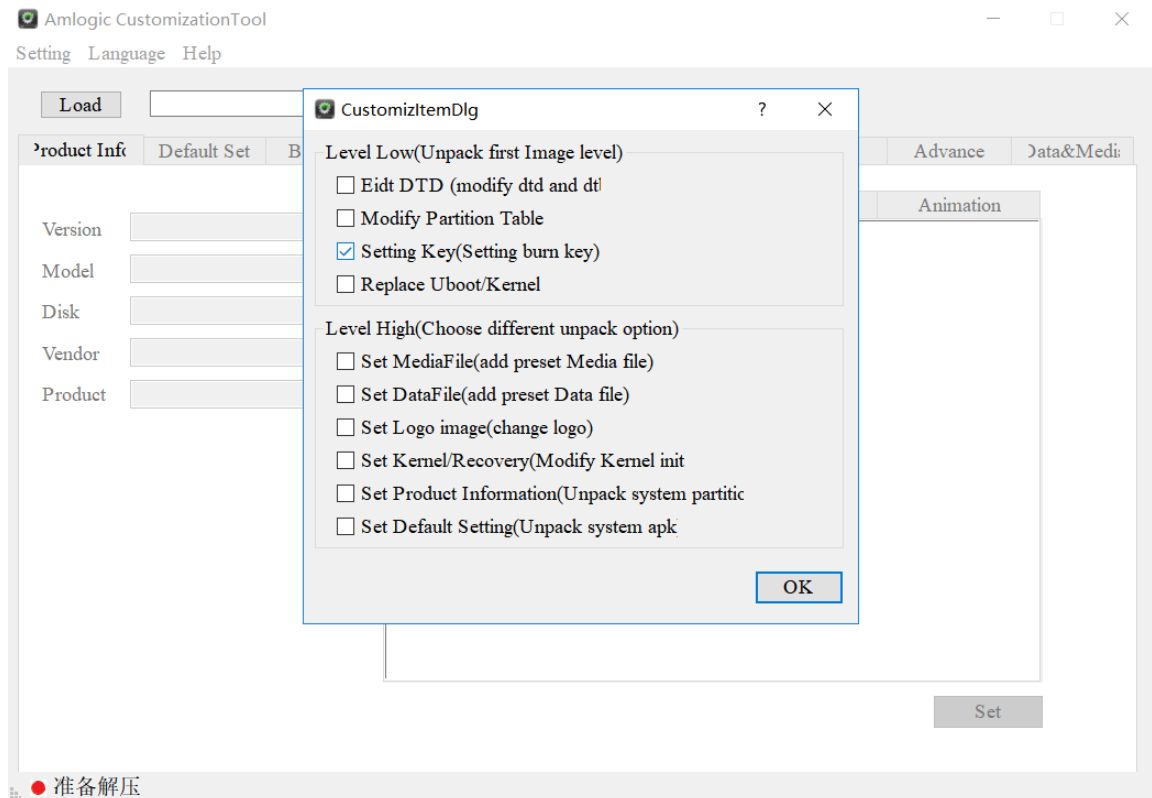


Figure 1.2 choose “Setting Key” option

There are some key option to be chosen in the Key configuration interface. Listbox have three column, first is key name(burn key name); second is file name of key(mean file name in License path the when burn), third is status of select to burn. The user can select the related key names, check the checkbox and click SetKeycfg button (Figure 1.3). The tool will set the keys to be burnt into keys.conf file. This file is needed when re-generating the image package. If the required key is not listed in the interface, the user can double click the items in the first column and edit the key name. **notice this name need the same as dts key name when build.**

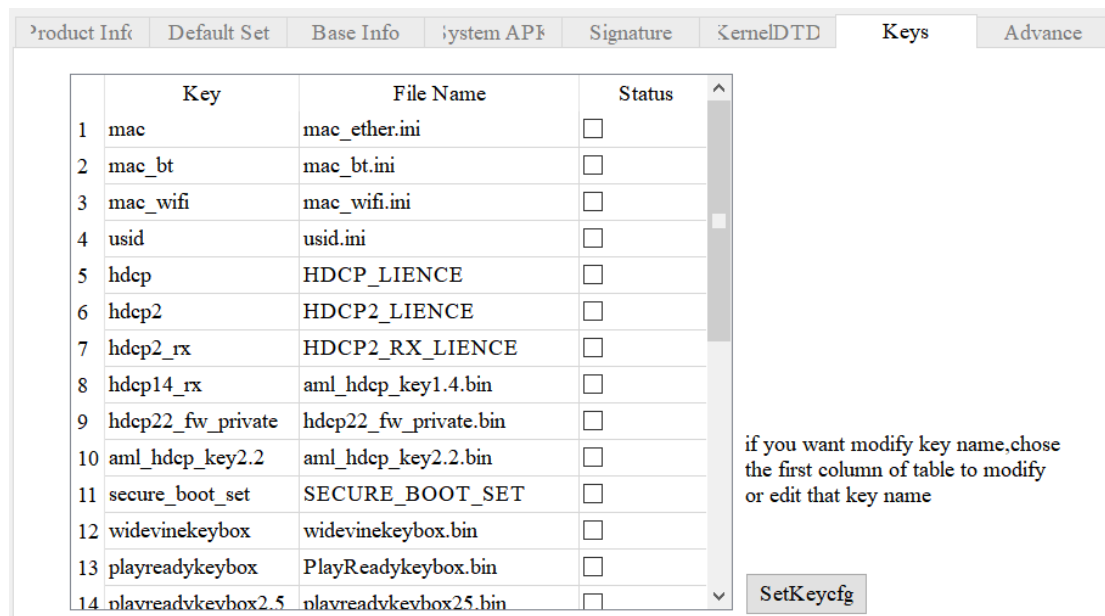


Figure 1.3 Set the configuration file of the keys to be burn

Then, User can make new image include Key or only key(do not include other partions, image is small).



Figure 1.4 Pack burn image with key

User can make new image include Key(Figure 1.4) or only key(do not include other partions, image is small).

New only Key image, choice menu “Setting->Pack Key image”(Figure 1.5) , generate only key iamge, very fast bacase not have other partions.

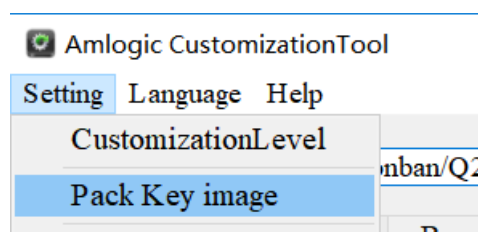


Figure 1.5 Pack to only Key image

2.Copy Key file to Tool Installation license directory

All key files are in license folder under tool category. The [licensePath] tell the path of key files

example:

```
[licensePath]
```

```
Path=D:\BurnTool\pccurningtool\pccurningtool_common\Release\license
```

For specific file, one single line for one key configuration, as **=**,

“=” left is key name, right is key file name.

example:

```
[MacManager]
```

```
mac=mac_ether.ini
```

Mac Key file name is mac_ether.ini

```
[OnlyOneManager]
```

```
secure_boot_set=SECURE_BOOT_SET
```

secure_boot_set Key file name is SECURE_BOOT_SET

3.Check Key configuration ini to meet the demand

In the installation directory, the KeysProviderCfg.ini, you can base on actual condition config your key for burn.

KeysProviderCfg.ini show:

```
[licensePath]
```

```
Path=D:\BurnTool\pccurningtool\pccurningtool_common\Release\license
```

Key license directory.

```
[MacManager]
```

mac=mac_ether.ini

...

[UsidManager]

usid=usid.ini

...

[Hdcp2Manager]

hdcp2=HDCP2_LIENCE

...

Mac,Usid,Hdcp2 clase config, "=" left is key name, right is key file name.

[FixLengthBinManger]

hdcp=HDCP_LIENCE;4,308

aml_hdcp_key2.2=aml_hdcp_key2.2.bin;0,2248

hdcp14_rx=aml_hdcp_key1.4.bin;0,348

widevinekeybox=widevinekeybox.bin;4,148

rxhdcp20=RXHDCP20_LIENCE;4,368

dtcp=dtcp.bin;4,584

The fix length class key, "=" left is key name, right is key file name. ";" right define the file head and single key length, "," left define key file head, "," right define single key length.you can modify config base on your actual condition.

[SpecialManger]

acs=ACS_key.txt

hwid=Hwid.ini

ssl=ssl

playreadykeybox25=

playreadykeybox=

hdcp2lc=hdcp2lc.bin

Special Key, key file name and size is assigned by Burn tool.

[OnlyOneManager]

secure_boot_set=SECURE_BOOT_SET

secure_boot_ext=SECURE_BOOT_EXT.bin

telecomkeybox=telecomkeybox.dat

usidonly=usidonly.txt

...

Only one key file, the single key is the content of file, “=” left is key name, right is key file name. User can add your Key, for instance, add a new key Aml_CusKey, corresponding file name is Aml.bin, the add line is:

[OnlyOneManager]

.....

Aml_CusKey=Aml.Bin

4.Burn Key image as common image

When all the steps are ready, Select and load the key image file, begin to burn image. User consider correct configuration when list show key name and amount.

Start

Refresh

Configuration

☐ Erase flash

Normal erase

☐ Erase bootloader
 ☐ Reset after success
 ☐ Whether overwrite key

Key(Overwrite)	Available
☒ mac	284
☐ mac_bt	1602
☐ usid	68719476...

Figure 4.1 Key config right

Popup error when config not correct, need to check configuration according to first and second steps.

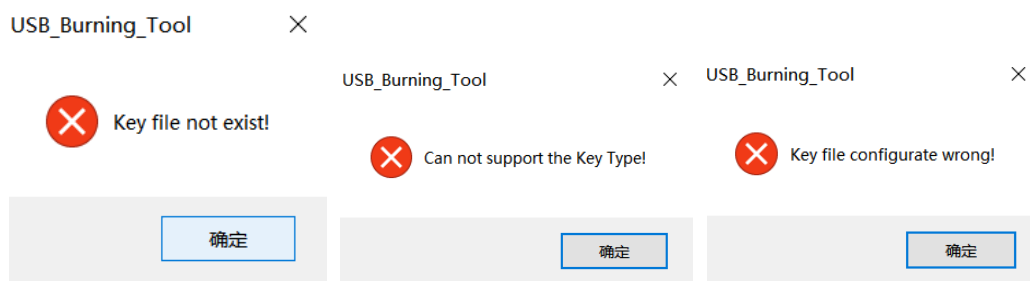


Figure 4.2 Key config wrong

☐ Erase flash

Normal erase

☐ Erase bootloader
 ☐ Reset after success
 ☒ Whether overwrite key

Key(Overwrite)	Available
☒ usid	1000

Figure 4.3 Set overwrite key

“Whether overwrite key” means overwriting the existing keys on board. The default is not overwriting, you can choose whether overwrite the key separate.