



PhoenixCard User Guide

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Revision History

Revision	Date	Author	Description
V4.1.4	2020-11-10	AWA1695	1. Add chapter 1. 2. Update document template. 3. Update picture.
V4.1.3	2019-12-30		Add Allwinner watermark.
V4.1.2	2019-04-15		Add the content of refreshing drive letter.
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1 About This Document

1.1 Purpose

The document introduces how to use PhoenixCard.

1.2 Intended Audience

PhoenixCard users

1.3 Related Versions

The document applies to the PhoenixCard software running on Windows.

1.4 Conventions and Terminology

The document gives the following conventions.

1.4.1 Symbol Conventions

Use an eye-catching symbol such as “WARNING” or “CAUTION” or “NOTE” to immediately show users what to do to prevent accidents and keep a high level of safety. The definition is as follows.

Symbol	Description
 WARNING	Indicates potential risk of injury or death exists if the instructions are not obeyed.
 CAUTION	Indicates potential risk of equipment damage, data loss, performance degradation, or unexpected results exists if the instructions are not obeyed.
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 TIP	Indicates a tip that may help you solve a problem or save time.

2 Overview

2.1 Introduction to the PhoenixCard

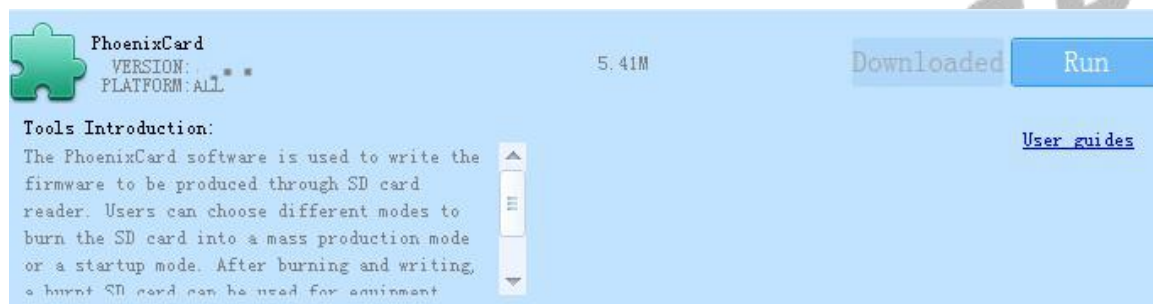
The PhoenixCard software is used to write the firmware to be mass-produced into the Secure Digital Memory Card (SD card) via the SD card reader. Users can choose different modes to burn the SD card into mass production mode or start-up mode. After the burning is completed, the burned SD card can be used for mass production or start-up.

2.2 Running Software

There are two ways to start the software.

(1). Find PhoenixCard from Allwinner Product Support Tool (APST), click the “Run” button to run the software, as shown in Figure 2-1.

Figure 2-1 Running form APST



(2). Run the executable file “PhoenixCard.exe” in the tools folder, as shown in Figure 2-2.

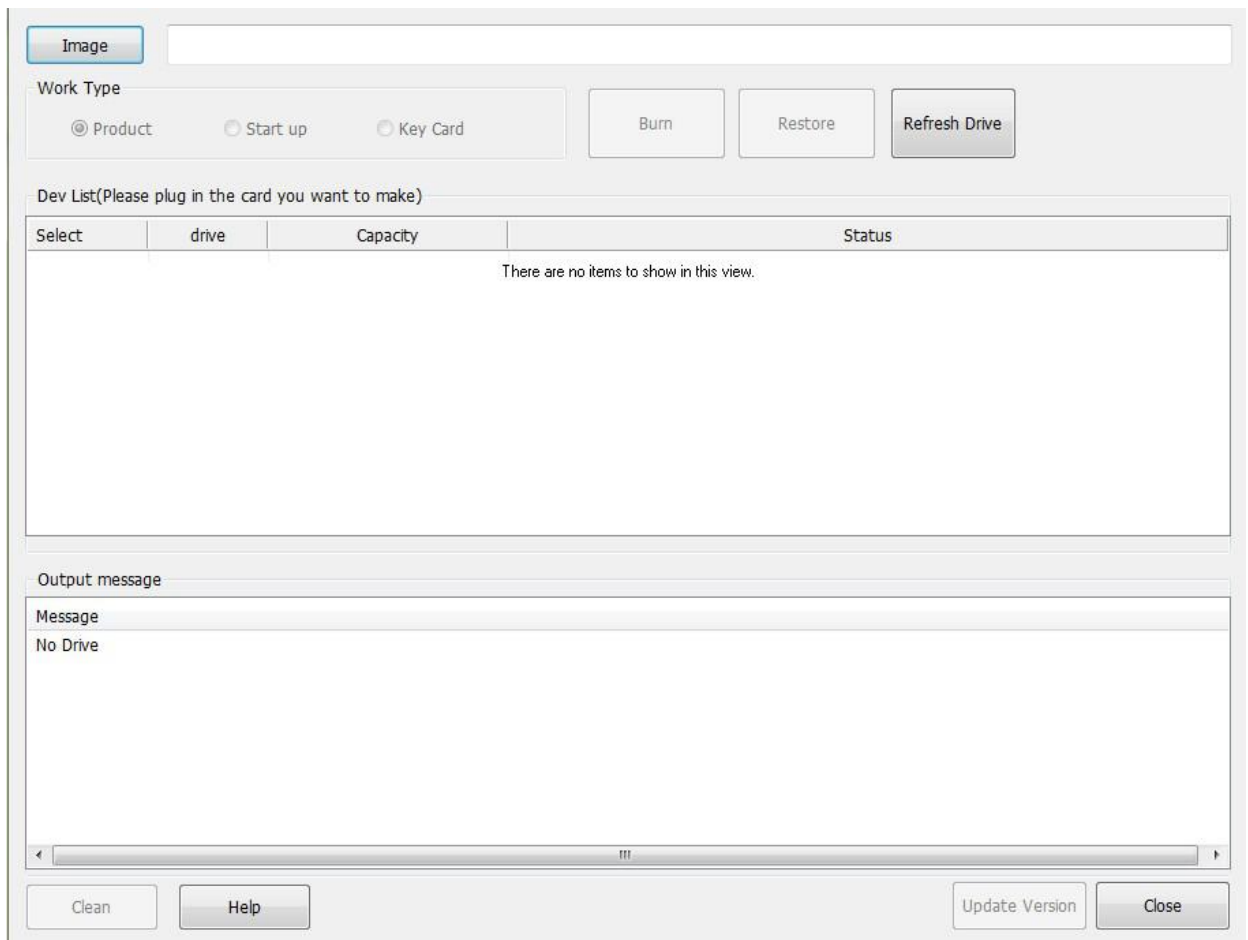
Figure 2-2 Running From Tools Folder

	PhoenixCard.exe	2/13/2019 8:08 AM	Application	1,744 KB
	UpdateVer.exe	4/6/2016 11:27 AM	Application	1,707 KB
	UpdateVerEx.exe	4/6/2016 11:27 AM	Application	1,707 KB
	AddSum.dll	6/15/2020 10:26 AM	Application extens...	32 KB
	CardOpPlg.dll	6/15/2020 10:26 AM	Application extens...	225 KB

2.3 Software GUI

Figure 2-3 shows the GUI of PhoenixCard.

Figure 2-3 Software GUI Diagram



(1).

Click the button to pop up a file selection dialog box with the suffix *.img, and the user can select the firmware file to be burned.

(2).

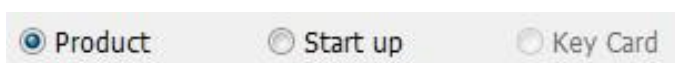
There are two modes for making cards (product, start up), as shown in Figure 2-4. The key burning function (key card) is currently disabled.

Figure 2-4 Making Card Mode



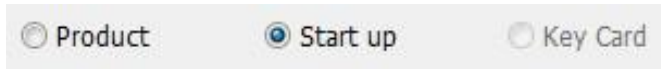
Select "Product" to burn SD cards for mass production.

Figure 2-5 Selecting Mass Production Card



Select "Start up" to burn SD cards for start-up.

Figure 2-6 Selecting Start-up Card



(3). Device Lists

Figure 2-7 Device Lists

Dev List(Please plug in the card you want to make)			
Select	drive	Capacity	Status
☒ 1	F	7599M	
☒ 2	G	1900M	

The device list will automatically enumerate all inserted TF cards and mobile storage devices into this list for users to burn (as shown in Figure 2-7). The user only needs to check the corresponding drive letter of the card to be burned. (It is recommended to pull out the card or U disk that is not burned)



NOTE

This software can program multiple TF cards at the same time.



(4).

Click this button to start burning the card, do not do other operations during the burning process.



CAUTION

The burning operation can clear the data on the card, please back up important data on the card before the burning operation.



(5).

Click the button to format the card.



CAUTION

The restore operation is generally not used. Because it can clear the data on the card, please back up the important data on the card before the restore operation.



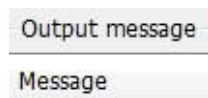
Click the button to clear the information in the information list.



Click the button to check whether there is a card inserted into the computer again.

(8). List of prompt messages

Figure 2-8 List of Prompt Messages



There are prompt messages during card burning.

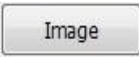
ALLWINNER

3 Burning

3.1 Burning Steps

Perform the following steps.

Step 1: Run PhoenixCard.

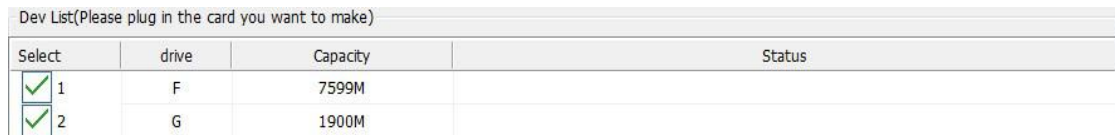
Step 2: Click  to select the firmware file with the suffix *.img.

Step 3: Insert a reader with SD card.

Step 4: Select the drive letter corresponding to the card to be burned on the device list, as shown in

Figure 3-1.

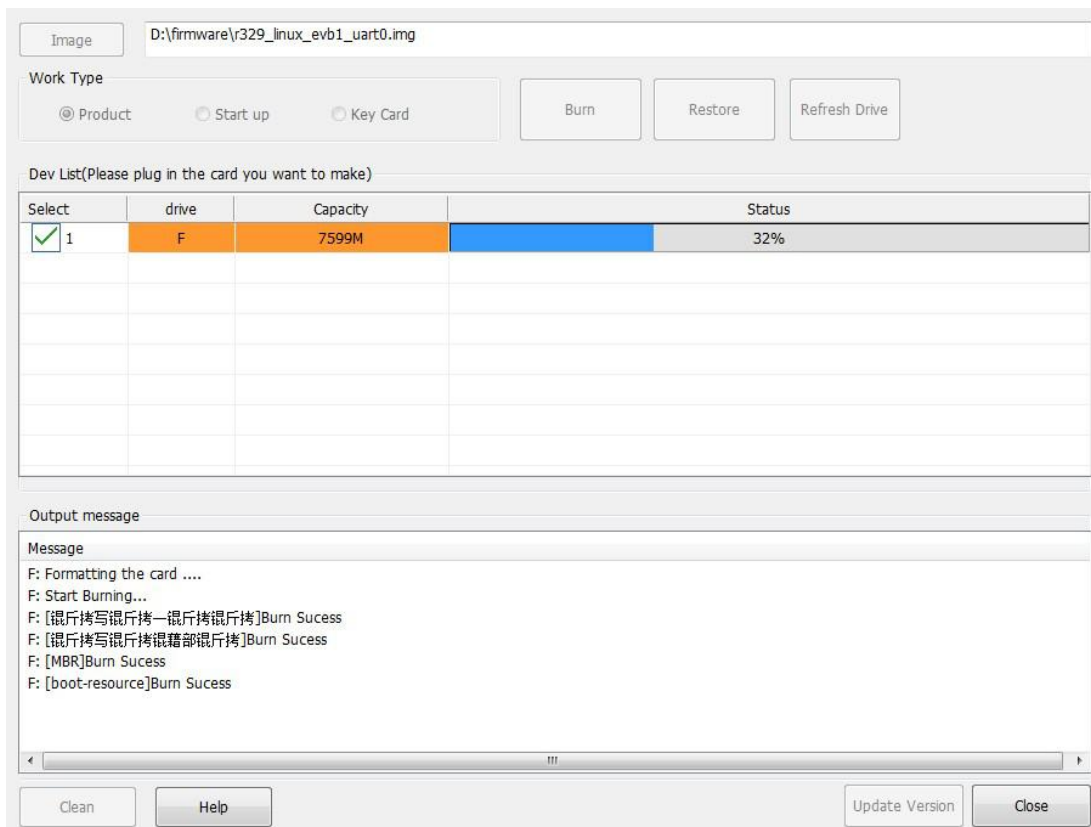
Figure 3-1 Device List



Select	drive	Capacity	Status
☒ 1	F	7599M	
☒ 2	G	1900M	

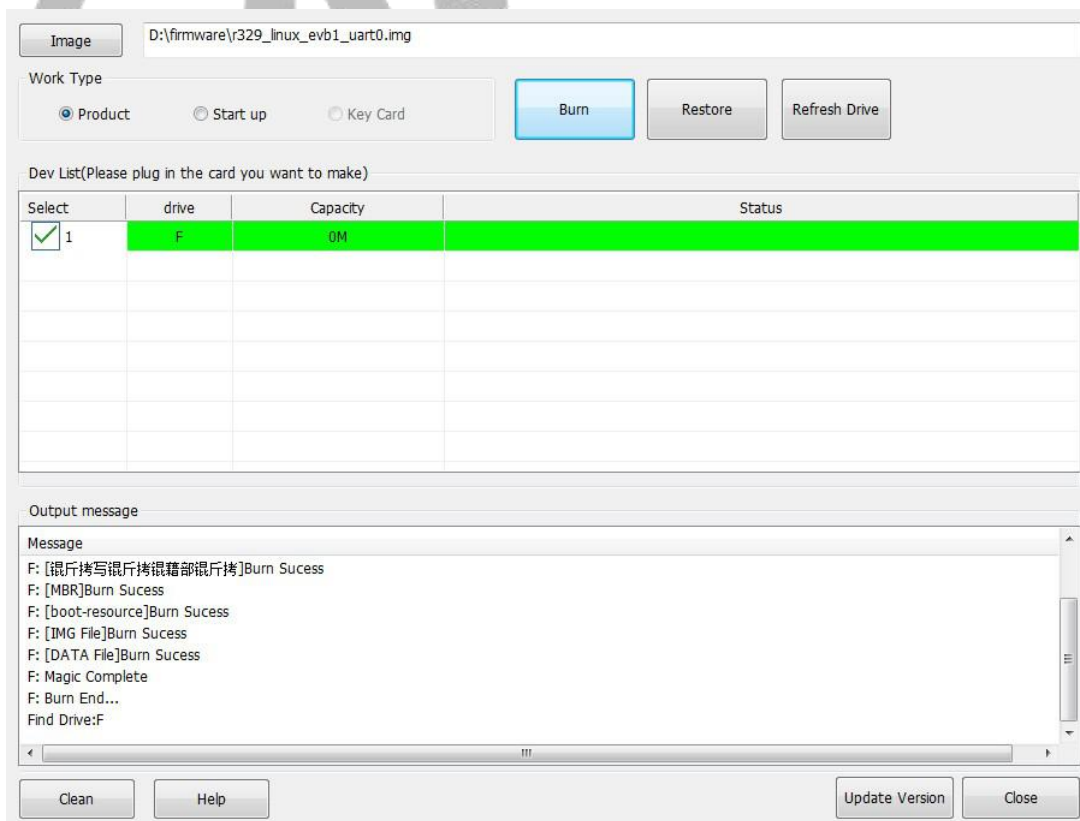
Step 5: Select the mode for making cards, as shown

Figure 3-3 Burning Process GUI



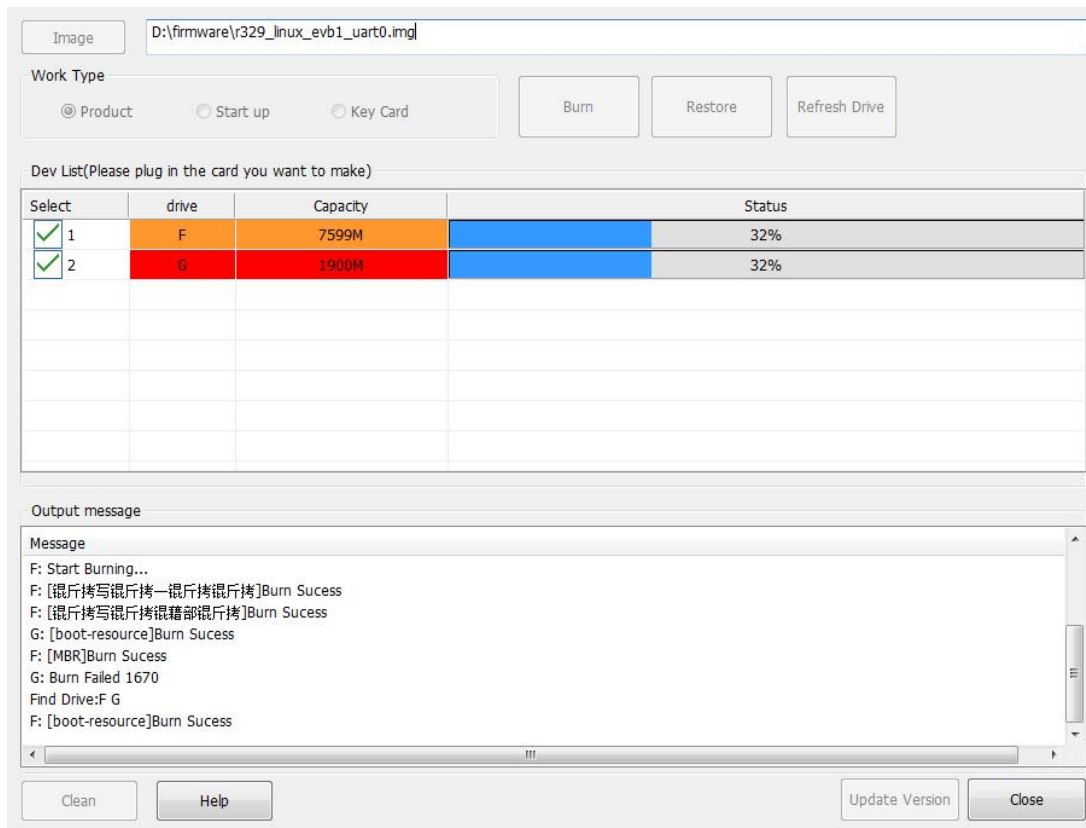
(2). Burning Successfully GUI

Figure 3-4 Burning Successfully GUI



(3). Burning Failure GUI

Figure 3-5 Burning Failure GUI



A red prompt message indicates failure. For example, the G card in the above figure indicates failure.

4 Restoring Card

Perform the following steps.

Step 1: Run PhoenixCard.

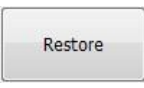
Step 2: Click  to select the firmware file with the suffix *.img.

Step 3: Insert a reader with SD card.

Step 4: Select the drive letter corresponding to the card to be formatted on the device list, as shown in Figure 4-1.

Figure 4-1 Device List

Dev List(Please plug in the card you want to make)			
Select	drive	Capacity	Status
☒ 1	F	7599M	
☒ 2	G	1900M	

Step 5: Click  to format the card.

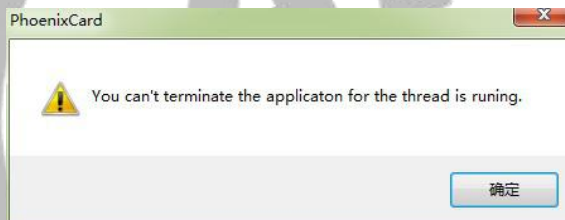
Step 6: Pull out the card.



CAUTION

- Before the card making operation is completed, clicking “close” will display a dialog box.

Figure 4-2 Prompt Dialog Box



- During the burning process, the operation of card insertion and removal will directly cause burning failure.
- If the SD card is made into a mass production card or startup card, the card must be formatted with the recovery card function of the tool if the card wants to be restored to normal capacity. The card cannot be restored to its normal capacity with the computer's own formatting tools.

5 Refreshing Drive Letter

When the user inserts the "card", you can click the "Refresh" button to confirm whether the computer recognizes the card. If the card is recognized, the content is displayed in Figure 5-1; if the card is not recognized, display "Drive not found" in the information box.

Figure 5-1 Device List



The screenshot shows a software interface with the following elements:

- Image:** A text box containing the path `D:\firmware\r329_linux_evb1_uart0.img`.
- Work Type:** Three radio buttons: **Product** (selected), **Start up**, and **Key Card**.
- Action Buttons:** **Burn**, **Restore**, and **Refresh Drive** (highlighted with a blue border).
- Dev List(Please plug in the card you want to make):** A table with the following data:

Select	drive	Capacity	Status
☒ 1	F	7599M	



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