

# **Write Motherboard SN Tool User Manual**

**Vision 5.00.05**

## Content

<b>1</b>	<b>OVERVIEW .....</b>	<b>3</b>
<b>2</b>	<b>HARDWARE INSTALLATION .....</b>	<b>3</b>
<b>3</b>	<b>SOFTWARE INSTALLATION.....</b>	<b>3</b>
3.1	SOFTWARE REQUIREMENT.....	3
3.2	THE MAIN INTERFACE.....	3
3.3	RELATED SETTING.....	4
3.3.1	<i>PASSWORD SETTING.....</i>	<i>5</i>
3.3.2	<i>DOWNLOAD TYPE.....</i>	<i>5</i>
3.3.3	<i>TARGET.....</i>	<i>5</i>
3.3.4	<i>THE GENERATION OF MBSN.....</i>	<i>6</i>
3.3.5	<i>FLAG SETTING.....</i>	<i>6</i>
<b>4</b>	<b>USE THE WRITE MOTHERBOARD SN TOOL.....</b>	<b>7</b>
4.1	CONNECT THE HARDWARE.....	7
4.2	RUN THE TOOL.....	7
4.3	SET THE PORT.....	7
4.4	CHOOSE THE TARGET.....	7
4.5	CHOOSE THE WAY TO GENERATE THE MBSN.....	7
4.6	SET THE FLAG.....	7
4.7	INPUT THE MBSN.....	7
<b>5</b>	<b>TROUBLESHOOTING .....</b>	<b>9</b>

# 1 Overview

The document introduces the basic functions and the usage of the Write motherboard SN tool, including the hardware install, the software install, troubleshooting etc.

## 2 Hardware installation

- PC with Windows installed.
- The laser scanner.
- The fixture for downloading.
- The line used for downloading.

## 3 Software installation

### 3.1 Software requirement

Above Windows 2k or Windows xp or Windows 7 , Write motherboard SN tool, MS Excel.

### 3.2 The main interface

Click the “Start->Coolsand mobile telephone product line tool->Write mainboard SN tool”, Then the main interface is shown as the figure 1:

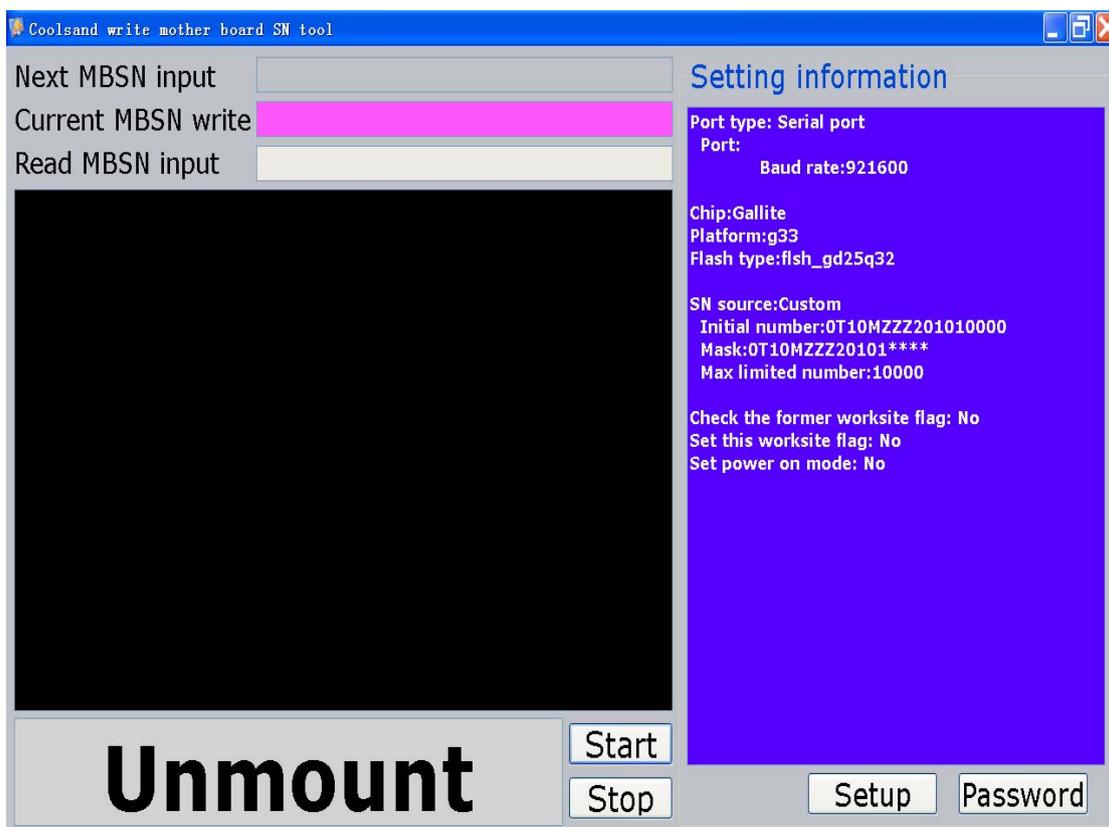


Figure 1

### 3.3 Related setting

Click the setup button at the bottom left corner, and then the login dialog appears (Figure 2 ). After inputting the correct password, the setup dialog will appear(Figure 3).



Figure 2

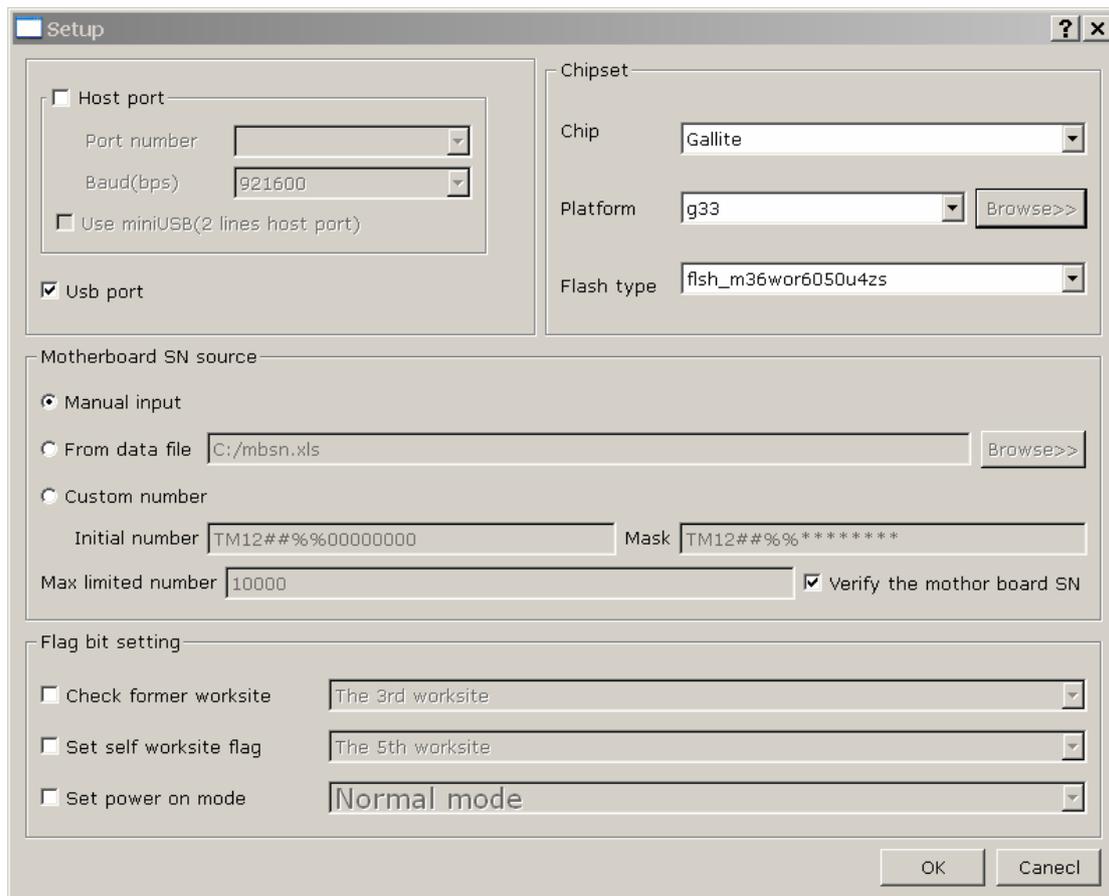


Figure 3

After the setting of this dialog, there shows the setting information on the right side of the main interface(Figure 1).

### 3.3.1 Password setting

Press the password button at left bottom corner, the password dialog appears(Figure 4).After inputting the correct original password, the new password can be set.



Figure 4

### 3.3.2 Download type

There is an area at the up of the setting dialog(see figure 5), which is used for choosing the download type.

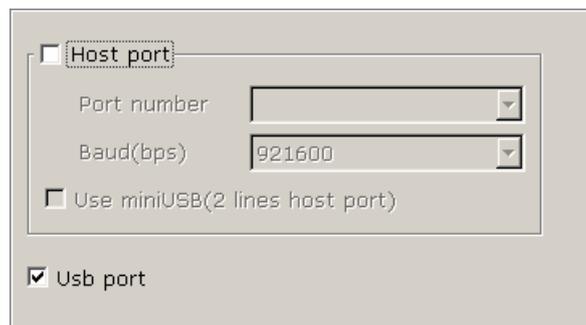


Figure 5

Setting the serial port is base on the port connected with the fixture. Choose 921600 for the baud setting.

### 3.3.3 Target

There is an area at the right up of the setting dialog, which is used for choosing the target type (Figure 7).You'd better choose the very type of chip model here. After the chip model is chosen, the flash list will be updated to the corresponding flash types. Choose the flash type used here.

If the user did not use the standard design provided by Coolsand, They can select "Others" item in "Platform" Combobox, and click the "Browse>>" button to select a special flash programmer file (\*\_ramrun.lod) for the mobile phone.

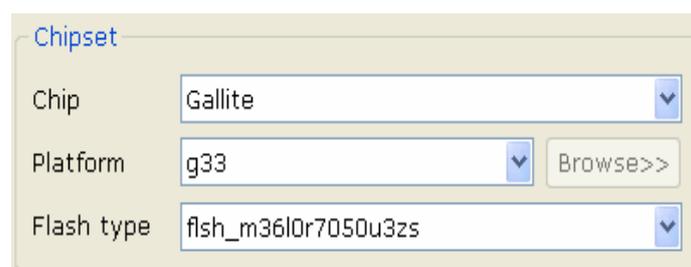


Figure 6

### 3.3.4 The generation of MBSN

There is an area at the middle of the setting dialog (figure 7), which is used for setting the way of generating the MBSN.

Motherboard SN source

Manual input

From data file

Custom number

Initial number  Mask

Max limited number   Verify the mother board SN

Figure 7

- Manual input is chosen to input the MBSN manually with the keyboard or scanner.
- If “from data file” is chosen to input the MBSN from a Excel file in which there must be a table called MBSN and the MBSN numbers are listed in the first column.
- If Custom number is chosen, Initial number and mask must match, and \* represents the position to be generated automatically and these characters must be digital numbers from 0 to 9. Another thing, If we hope the MBSN contain the date in a given position, we can set the given position of the Initial number and mask to be “##%”, Then “##%” will be replaced by the month and day value when we write the MBSN to the mobile phone.
- Max limited number is used for From data file and Custom number. It means that you can’t add any MBSN when it has imputed that number of MBSN.
- If using the USB mode, you can’t verify by reading the MBSN.

### 3.3.5 Flag setting

There is an area at the bottom of the setting dialog, which is used for setting the flags.

Flag bit setting

Check former worksit

Set self worksite flag

Set use mode

Figure 8

Check the check box if you want to choose anyone, and set the value at the following list.

**Check former works:** Check the complete flag of the former worksite on the product line. If the former worksite isn’t finished, the operation of the current worksite can’t begin.

**Set self worksite flag:** This option is selected if setting the finished flag of the current worksite is needed. Then choose the flag, and select the item in the combobox.

**Set use mode:** This option is selected if it needs to set the power on mode at the current worksite.

# 4 Use the Write Motherboard SN tool

## 4.1 Connect the hardware

Connect the mobile phone to the PC with our special download line, if you use the scanner ,you also need connect it to the PC. When you use the USB port , you must user battery or a DC power which provide a voltage about 4.2V.

## 4.2 Run the tool

Connect the fixture and the scanner with the PC. Click the icon to run the tool shown as figure 1.

## 4.3 Set the port

Select the serial port connected with the fixture and select a baud rate of 921600 bps, or choose to download by USB(Figure 5).

Attention: Motherboard Tool can remember the last setting of the port and baud. If the port and the type of the phone are not changed, it never needs to set again.

## 4.4 Choose the target

Choose the chip model and flash type shown as figure 6.

Attention: Motherboard Tool can remember the last setting of the chip model and flash type. If the port and the type of the phone are not changed, it never needs to set again.

## 4.5 Choose the way to generate the MBSN

Choose the way to generate the MBSN as figure 7.

Attention: Motherboard Tool can remember the way to generate the MBSN. If the port and the type of the phone are not changed, it never needs to set again.

## 4.6 Set the flag

Set the flag as shown in the figure 8.

Attention: Motherboard Tool can remember the flag set. If the port and the type of the phone are not changed, it never needs to set again.

## 4.7 Input the MBSN

Above operations are used to set the port, the baud, the flash type and the way to generate the MBSN. It's time to start downloading. If Manual input is chosen, you should input a MBSN of 16 characters manually in the first line shown in the figure 9, or use the scanner to gather the input MBSN( When using the scanner, the download process will be started after scanning if the character enter is added at the end of the MBSN scanned.). Click the start button to start downloading. If either of the other two types is chosen, click the start directly. It will show the MBSN written in the second line as shown in the figure 9. If Read the MBSN Number is chosen as shown in the figure 7, it will show the MBSN read from the phone in the third line.

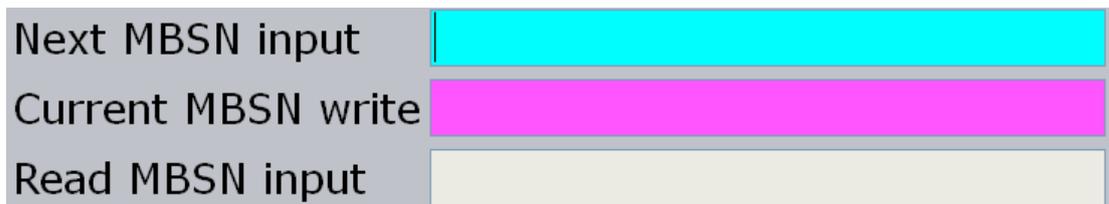


Figure 9

After starting the download process, the black area in the middle of the interface will update the information (shown in the figure 10) within the download progress. Please follow the prompt to plug and unplug the phone.

```
Open the serial port...  
Waiting for plugging a handset...  
Start to read factory sector(100%)  
Checking the worksite flag...  
Writing the mother board SN to flash...(100%)  
Write the mother board SN OK!  
Waiting for unplugging the handset!
```

Figure 10

The status bar at the bottom of the interface will also show Unmount (gray), Idle (white), Writing(bottle green), Finished (aqua) along the downloading process. It means writing shown as the figure 11.

The image shows a horizontal bar with a bottle green background. In the center, the word 'Writing...' is written in a large, bold, black serif font.

Figure 11

# 5 Troubleshooting

In the process of downloading, Thanks to the hardware error or the operating error, the process maybe quit or stop occasionally. The user can do the following steps to restart the downloading:

1. Click the stop button to stop downloading.
2. Pull out the unfinished mobile and close the application.
3. Plug the phone again and open the application to restart the download process.
4. Make sure whether the configure file has the read-only attribute. Cancel the read-only attribute if it does.
5. If the above steps take no effect, please restart the Windows.