G+ Mass Production Tool For GPL329xx

User Manual

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Revision History

Revision	Date	By	Remark
1.0.1	07/18/2011	Phoebe	1. Support Lua Script. 2. Support the decimal or hex when putting. 3. Add auto mode, including 3 steps, Dram Calibration, Send nand database, app header parsing, will auto adjust related content when downloading.
1.0.0	05/12/2011	Eric	1st Version

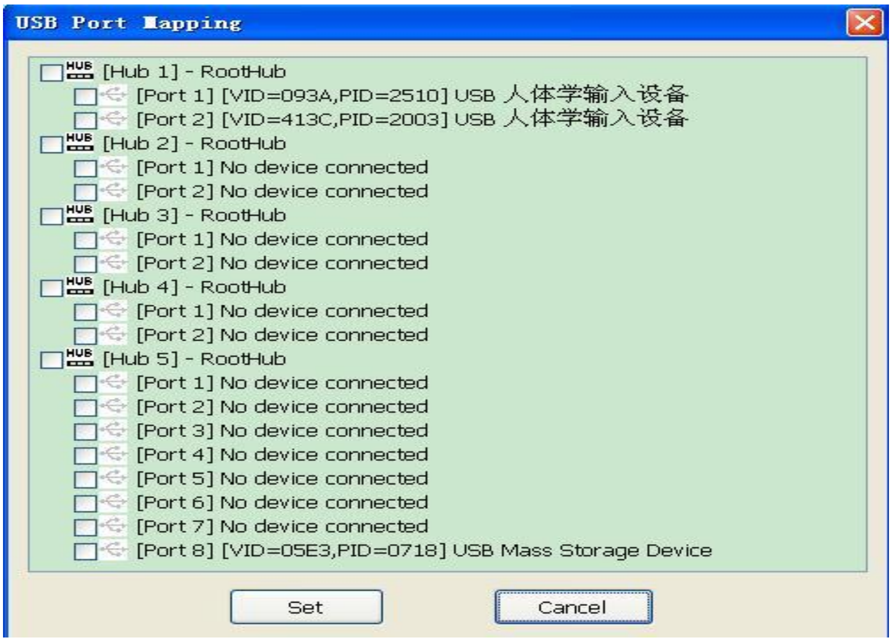
1 Introduction

After the binary file or hdb file is generated, please use G+ Mass Production Tool For GPL329xx to download it to the selected Flash. However, user should make a configuration file for it.

So before executing download action, you will better to select corresponding configuration file which you made it at first. There are serval steps to use this tool. Following will make exhaustive description for you.

1.1 USB Port Mapping Dlg

User can select the specific USB port to download in the USB port tree list, and then the main dialog will display the relevant hub and port number according to selected list tree item. When first time start excutive programe, if the configuration of port mapping information has not been setted and there is no GPL329xx device plug into PC, it will pop up this dialog on your sight. The USB port mapping dialog as shown below:

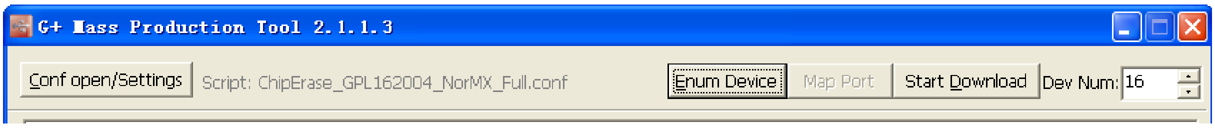


- ☐ [Hub 1] - RootHub
  - ☐ [Port 1] [VID=093A,PID=2510] USB 人体学输入设备
  - ☐ [Port 2] [VID=413C,PID=2003] USB 人体学输入设备
- ☐ [Hub 2] - RootHub
  - ☐ [Port 1] No device connected
  - ☐ [Port 2] No device connected
- ☐ [Hub 3] - RootHub
  - ☐ [Port 1] No device connected
  - ☐ [Port 2] No device connected
- ☐ [Hub 4] - RootHub
  - ☐ [Port 1] No device connected
  - ☐ [Port 2] No device connected
- ☐ [Hub 5] - RootHub
  - ☐ [Port 1] No device connected
  - ☐ [Port 2] No device connected
  - ☐ [Port 3] No device connected
  - ☐ [Port 4] No device connected
  - ☐ [Port 5] No device connected
  - ☐ [Port 6] No device connected
  - ☐ [Port 7] No device connected
  - ☐ [Port 8] [VID=05E3,PID=0718] USB Mass Storage Device

All the USB devices plug into PC will be shown in this dialog, you could make options on each item freely. After selecting, make sure to click the Set button. Otherwise, the options you just choose will not be valid.

1.2 Main window

After selecting port mapping dialog, you will enter into main dialog. Following is the UI of main dialog:

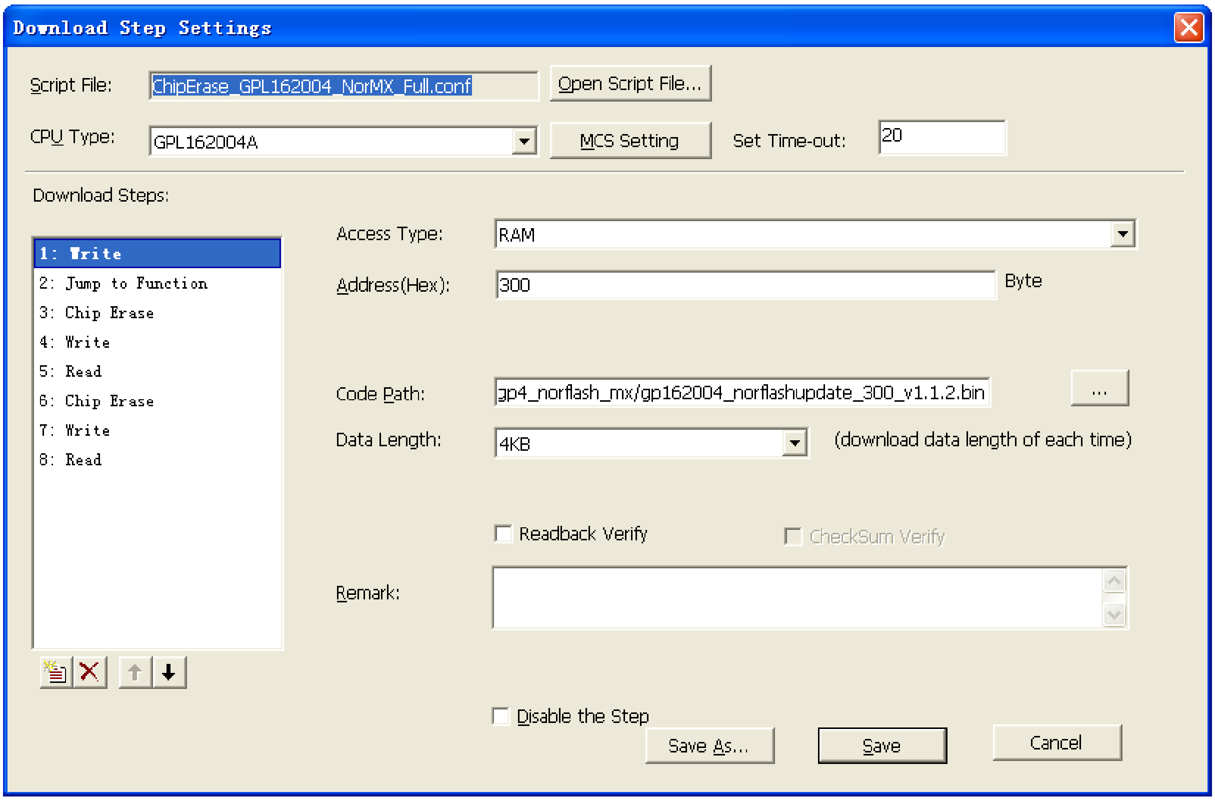

G+ Mass Production Tool 2.1.1.3
Conf open/Settings
Enum Device
Map Port
Start Download

Script: ChipErase_GPL162004_NorMX_Full.conf

Dev Num: 16

1.2.1 Conf open/Settings

Click the Conf open/Settings button, will pop up the Download Step Settings dialog. You can view the download steps or create a new download steps.


Download Step Settings
Open Script File...
MCS Setting
...
Save As...
Save
Cancel

Script File: ChipErase_GPL162004_NorMX_Full.conf

CPU Type: GPL162004A

Set Time-out: 20

Download Steps:

1: Write
2: Jump to Function
3: Chip Erase
4: Write
5: Read
6: Chip Erase
7: Write
8: Read

Access Type: RAM

Address(Hex): 300 Byte

Code Path: gp4_norflash_mx/gp162004_norflashupdate_300_v1.1.2.bin

Data Length: 4KB (download data length of each time)

☐ Readback Verify ☐ CheckSum Verify

Remark:

☐ Disable the Step

Open Script File: Open a conf file.

CPU Type: Select the CPU type of the device.

MCS Setting: Setting the MCS.

Download Steps: Open an existed conf file, then you can view the download steps, or create a new conf file. Double click the step, you can rename it. The UI of a step will be displayed on the right.

📄: Add a download step.

☒: Delete the selected step.

↑↓: Adjust the order of the steps.

Disable the Step: Check it, the step will be skipped when downloading, and execute the next step directly.

Save As: Save the script to another file.

Save: Save the current script.

Cancel: Cancel this operation, return to the main dialog.

1.2.2 Enum Device

Usually, the MP Tool detects the device automatically.when the device plugs in the USB port. But if you are not sure the tool has not found all devices, you can try to click this button.

1.2.3 Map Port

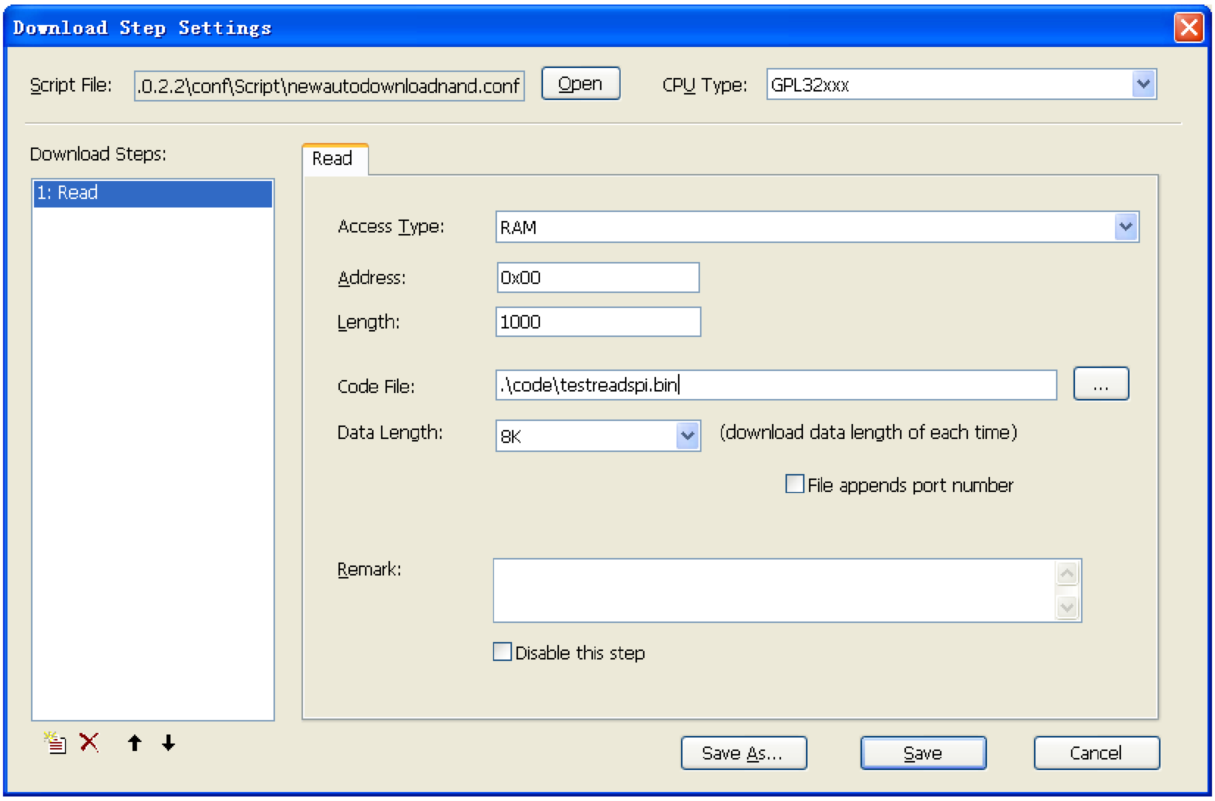
Pop up the USB Port Mapping dialog.

1.2.4 Start Download

Click this button will trigger the download event, every time plug in a GPL329xx device in the USB port which selected in USB port mapping, it will start download automatically.Then you will monitor the downloading progress and status for each devices. Of course, you will push down the enter key on the keyboard; it will be the same effect. If you want to view the log message,you can double-click the status bar or find the log folder in the installation directory of the tool to view it.

1.3 Action Configuration

1.3.1 Read action



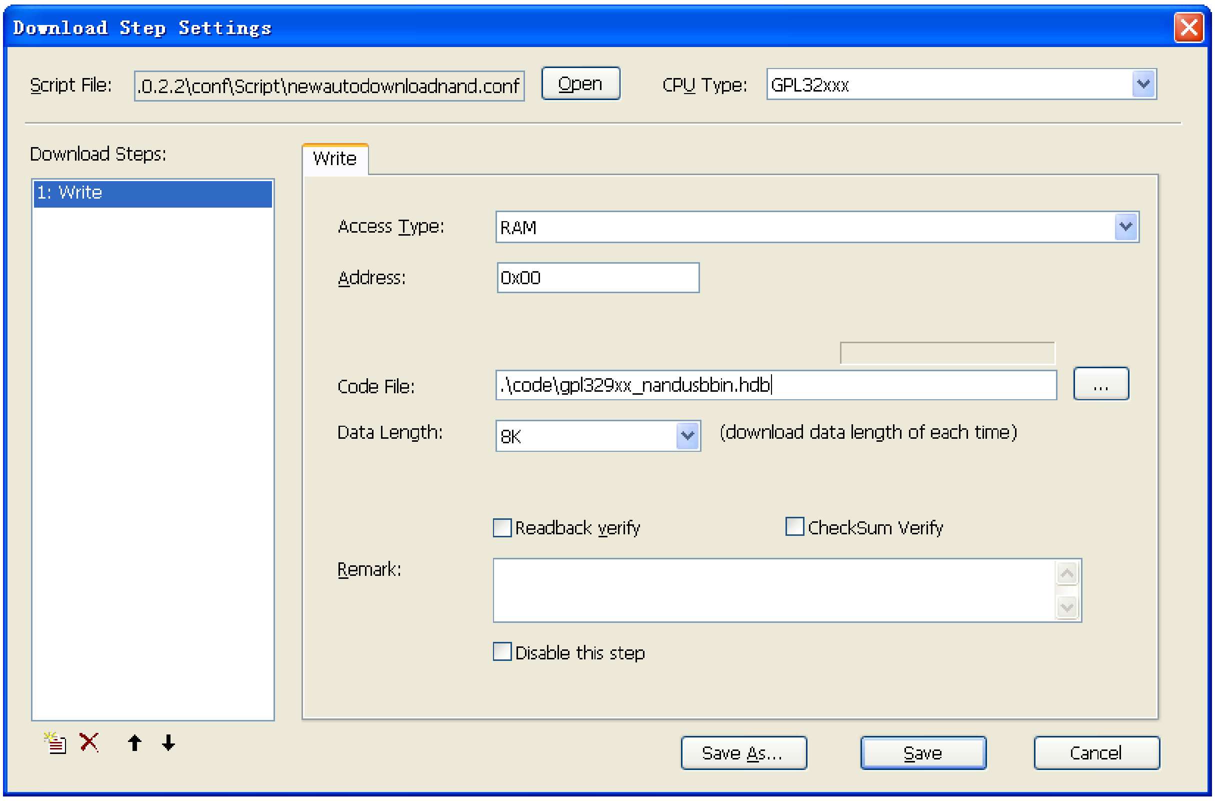
Script File: .0.2.2\conf\Script\newautodownloadnand.conf
CPU Type: GPL32xxx
Download Steps: 1: Read
Access Type: RAM
Address: 0x00
Length: 1000
Code File: .\code\testreadspi.bin
Data Length: 8K (download data length of each time)
☐ File appends port number
Remark:
☐ Disable this step

You may choose different memory type in the list when you would like to select read action. This version support five memory types, including RAM, SPI Flash, Nor Flash, Nand Flash App Area and Nand Flash Data Area. Different momroy type has different item to be contained in the combo Box. The details of columns as below:

- ✓ Access Type: choose the Flash type in Access Type list.
- ✓ Address: specify the start address for reading. You can input the address by Hex or Decimal. The unit is byte by default.

- ✓ Length: specify length for reading .
- ✓ Read to File: Specify the readback file path and name after readback the memory content.
- ✓ Data Length: identify that tool will read same size from device each time

1.3.2 Write action



Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx
Download Steps:
1: Write

Access Type: RAM
Address: 0x00
Code File: .\code\gpl329xx_nandusbbin.hdb

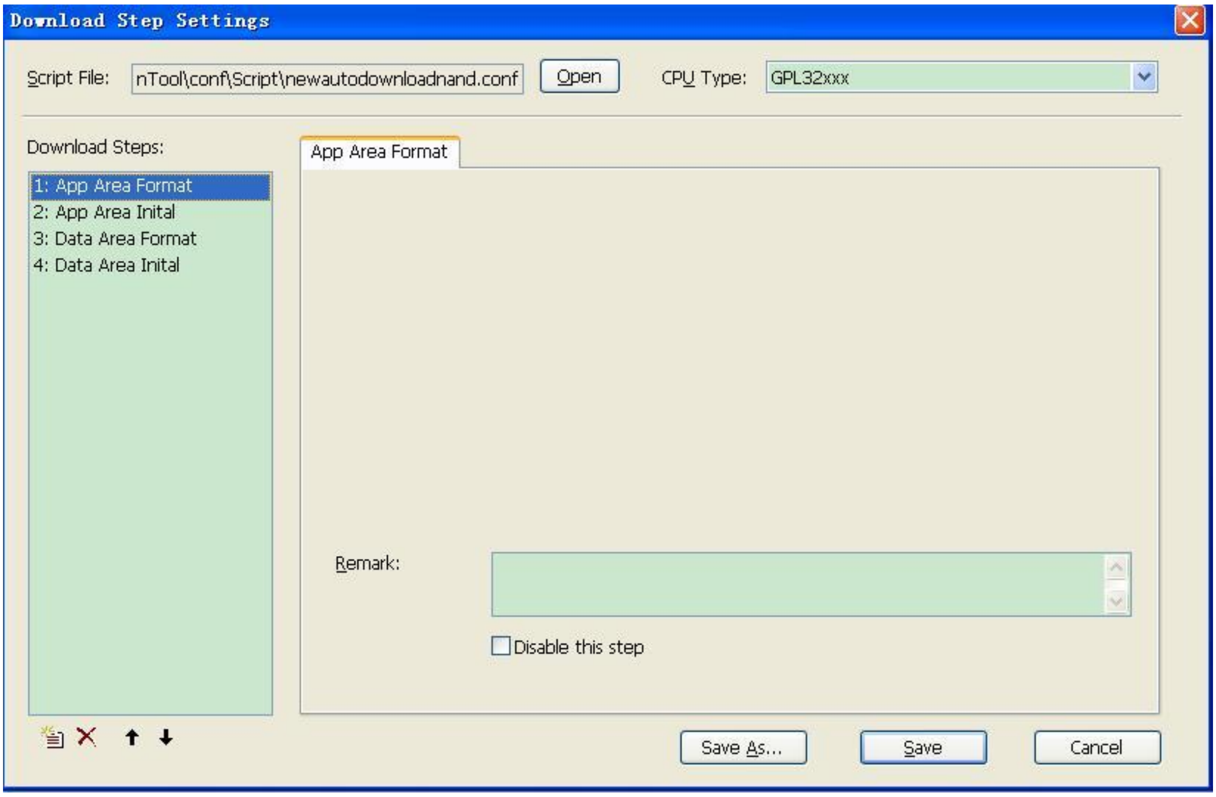
Data Length: 8K (download data length of each time)
☐ Readback verify
☐ CheckSum Verify
Remark:
☐ Disable this step

The accessed memory type is the same with read action, so there are five memory types to select. Additionally, the code file may be hdb file, if it is hdb file, tool will get the informations of file such as software ID and software tool version, and display on the user interface. Furthermore, tool will extract bin file from HDB file when perform ing download.

- ✓ Access Type: choose the Flash type in Access Type list.
- ✓ Address: specify the start address for writing. It Supports both decimal and hexadecimal input mode.

- ✓ Code File: Specify the file path that you want to write.
- ✓ Code File: Specify the file path that you want to write.
- ✓ Data Length: Download data size of each time.
- ✓ Readback option: decide to verify or not when download file,

1.3.3 App Area and Data Area Actions



Script File: nTool\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

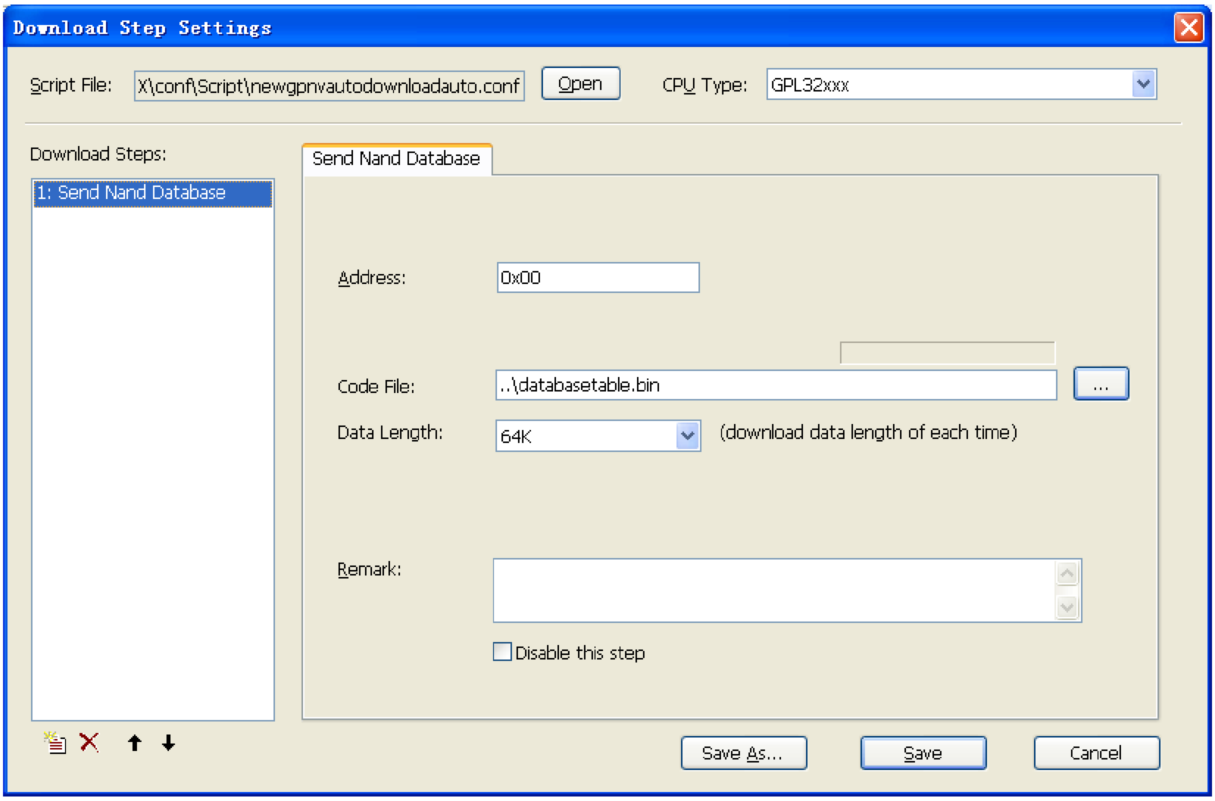
Download Steps:
1: App Area Format
2: App Area Inital
3: Data Area Format
4: Data Area Inital

Remark:

☐ Disable this step

These actions are for initializing and formatting Nand Flash area. They belong to step command. Each step command may have the same user interface, but has different function. Step commands perform action with polling status from device, in order to make sure the action had been executed properly.

1.3.4 Send Nand Database


Download Step Settings
Open
Download Steps:
Send Nand Database
Save As...
Save
Cancel

Script File: X\conf\Script\newgpnvautodownloadauto.conf

CPU Type: GPL32xxx

1: Send Nand Database

Address: 0x00

Code File: ..\databasetable.bin

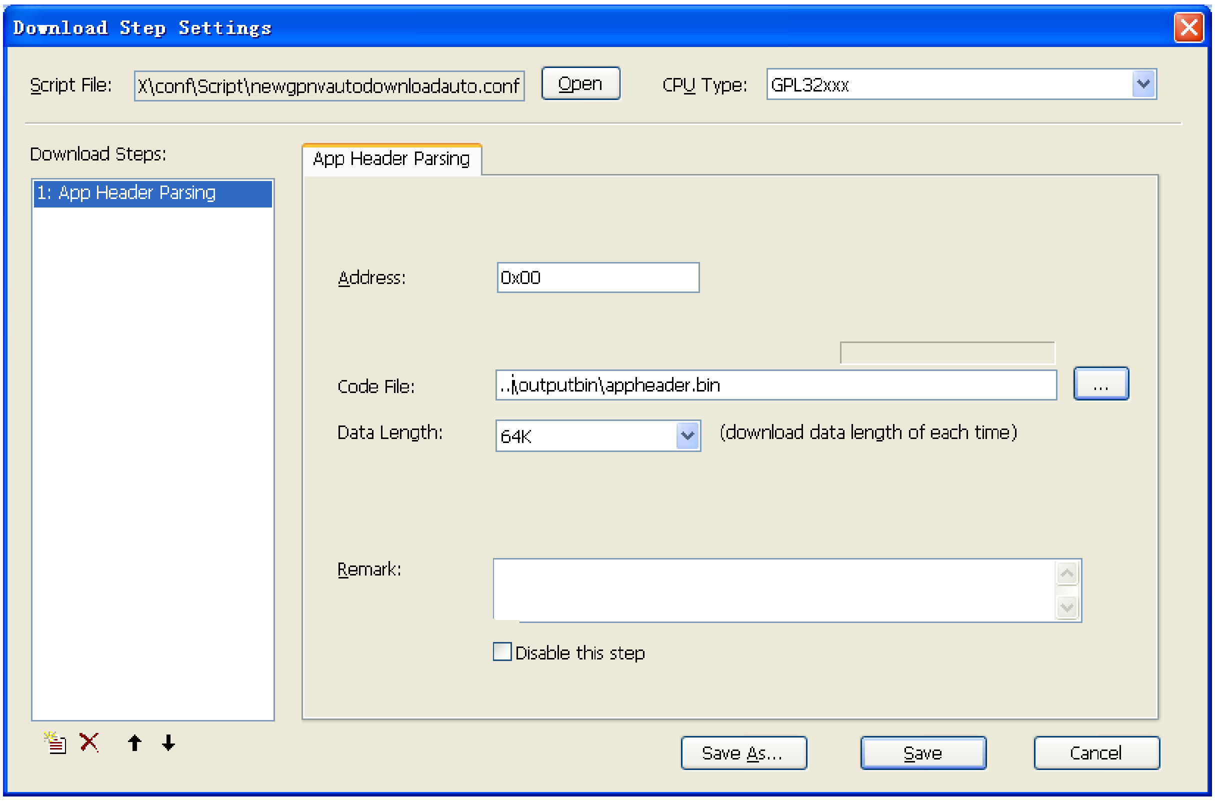
Data Length: 64K (download data length of each time)

Remark:

☐ Disable this step

This step will send data base table file to device with command 0xFF55, the device will according the current nand type, query and access to relevant information automatically after parsing the bin file.

1.3.5 App Header parsing Action



Download Step Settings

Script File: X\conf\Script\newgpnvautodownloadauto.conf

CPU Type: GPL32xxx

Download Steps: 1: App Header Parsing

Address: 0x00

Code File: ..\outputbin\appheader.bin

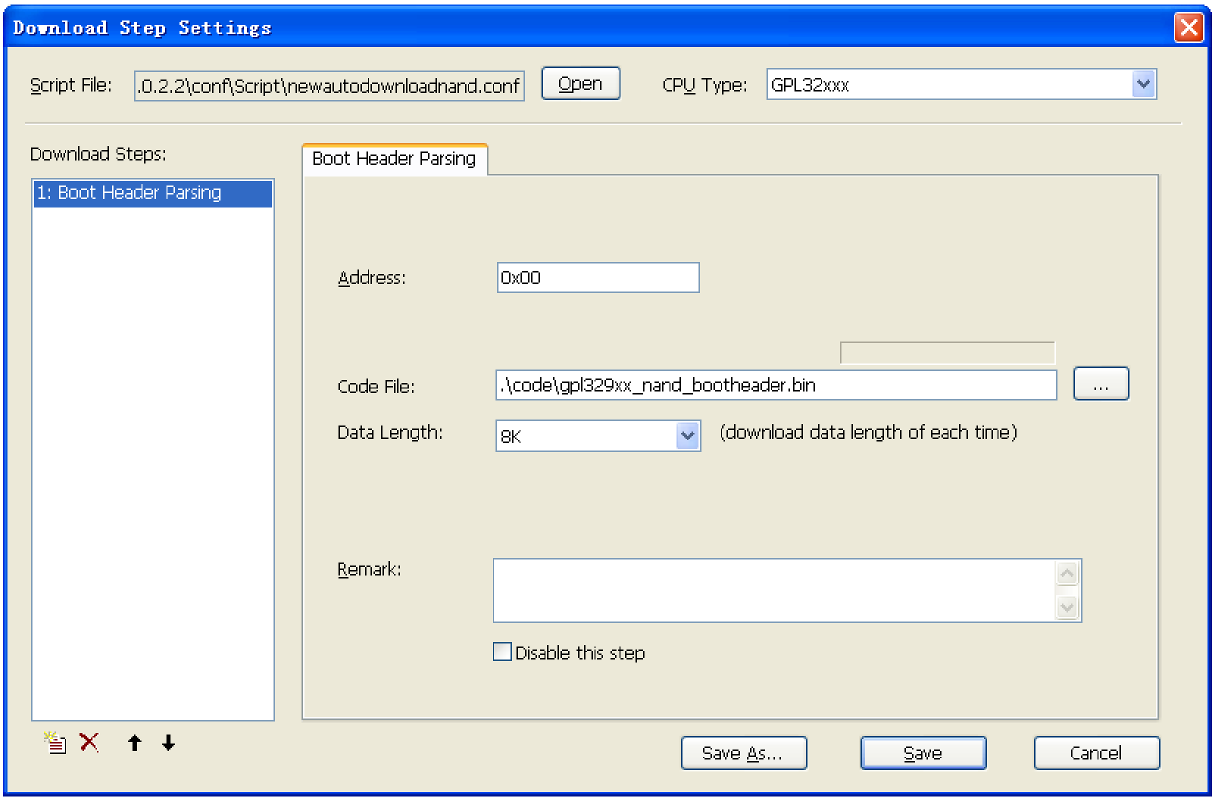
Data Length: 64K (download data length of each time)

Remark:

☐ Disable this step

This step will send AppHeader file to device with command 0xFF56, the device will parsing the bin file, and according to the result to automatically adjust the related information when writing app area.

1.3.6 Boot Header parsing Action



Download Step Settings
Open
Download Steps:
Boot Header Parsing
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

1: Boot Header Parsing

Address: 0x00

Code File: .\code\gpl329xx_nand_bootheader.bin

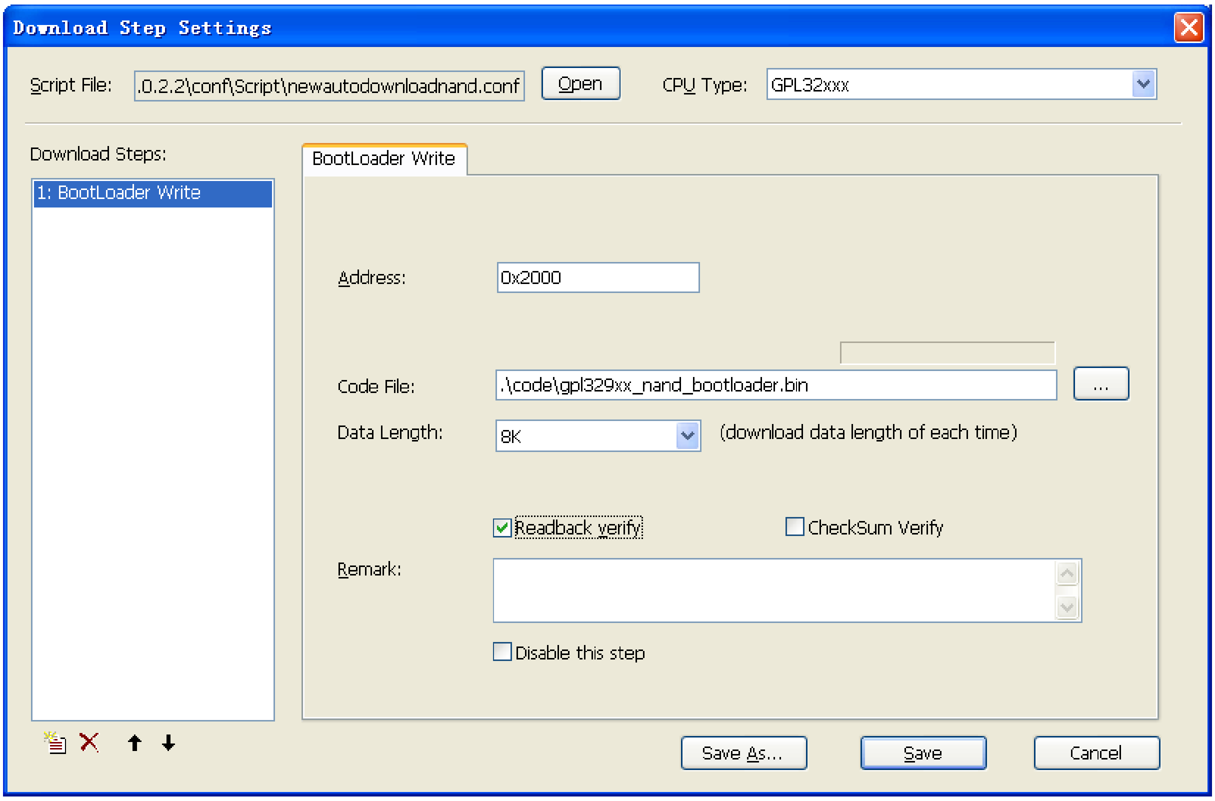
Data Length: 8K (download data length of each time)

Remark:

☐ Disable this step

This step will send boot header file to device with command 0xFF51, so the device will get some parameters form this header file.

1.3.7 Boot Header Write Action



Download Step Settings
Open
Download Steps:
BootLoader Write
...
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

1: BootLoader Write

Address: 0x2000

Code File: .\code\gpl329xx_nand_bootloader.bin

Data Length: 8K (download data length of each time)

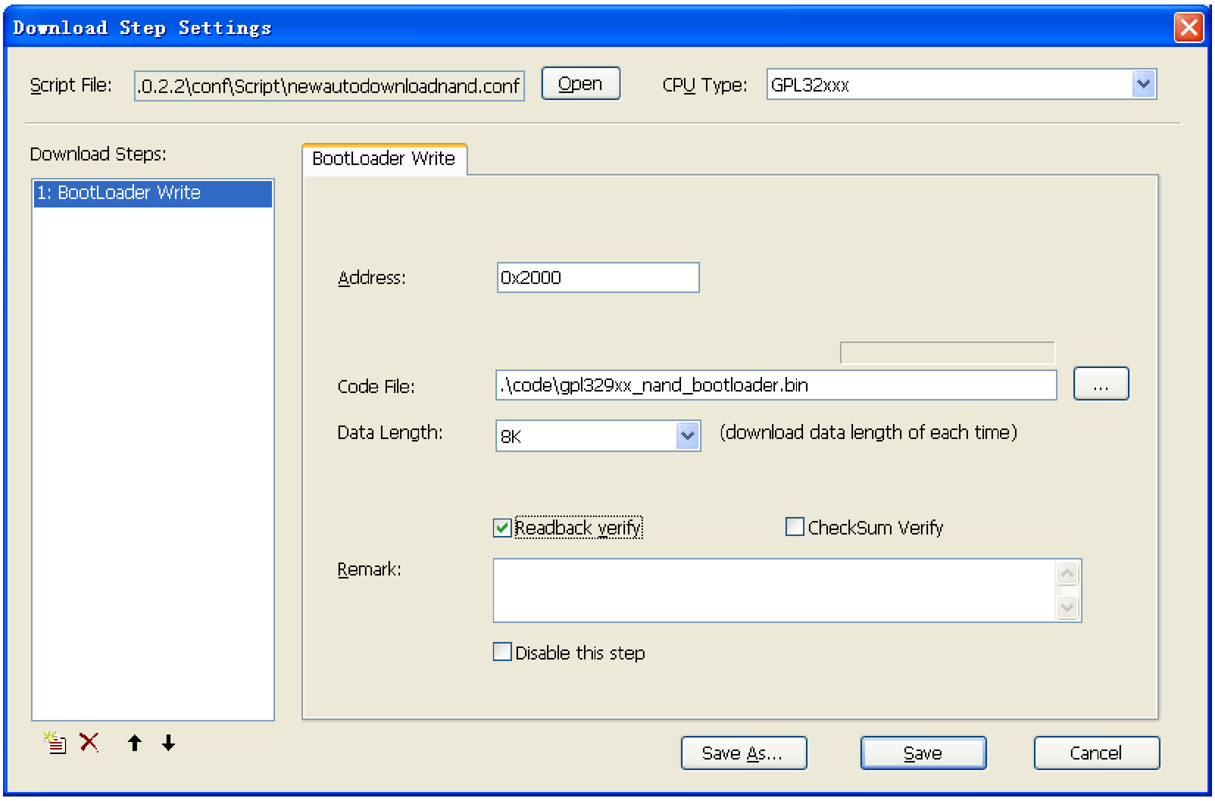
☑ Readback verify ☐ CheckSum Verify

Remark:

☐ Disable this step

In this step, we will provide two verification modes. One is the readback verify, and the other is checksum verify.Both may check the correctness of the file you download, besides, it belongs to the step command.

1.3.8 Boot Loader Write Action


Download Step Settings
Open
Download Steps:
1: BootLoader Write
BootLoader Write
...
(download data length of each time)
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Address: 0x2000

Code File: .\code\gpl329xx_nand_bootloader.bin

Data Length: 8K

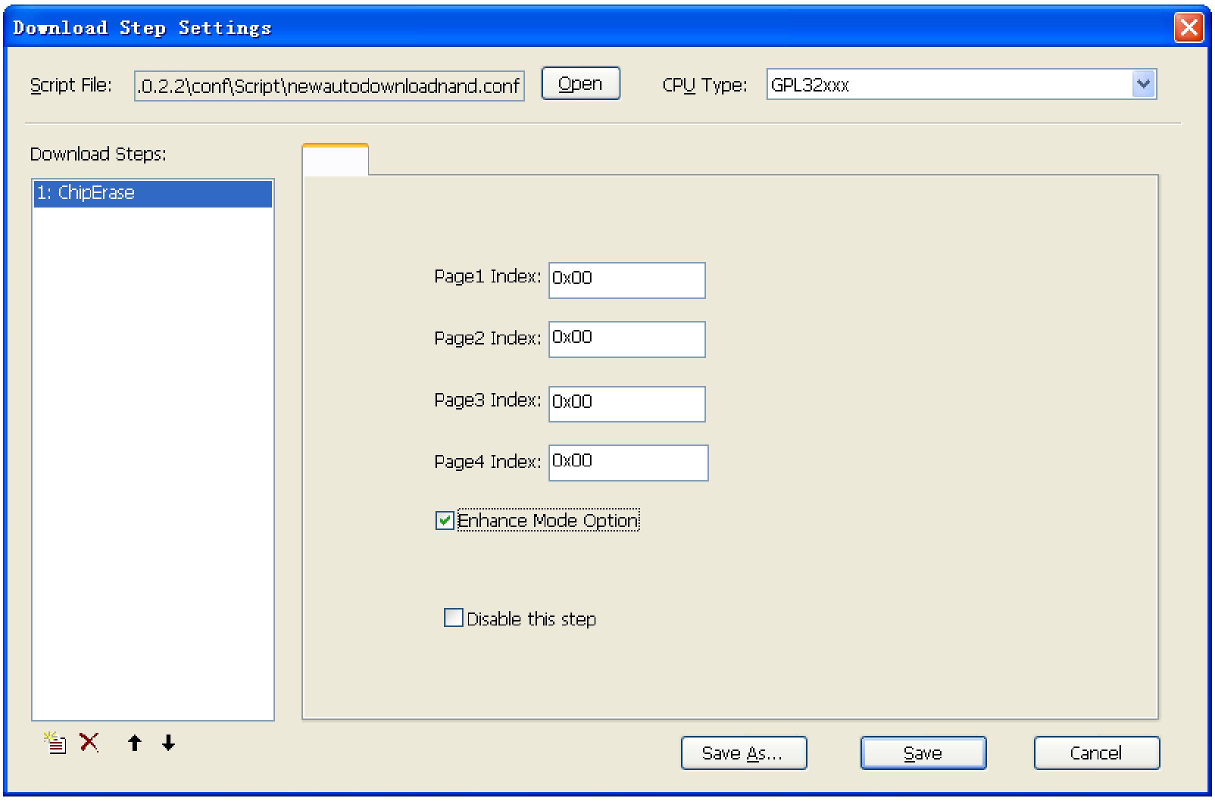
☑ Readback verify ☐ CheckSum Verify

Remark:

☐ Disable this step

This step is the similar with boot header write action. It also belongs to the step command.

1.3.9 Chip Erase Action



Download Step Settings

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Download Steps:

1: ChipErase

Page1 Index: 0x00

Page2 Index: 0x00

Page3 Index: 0x00

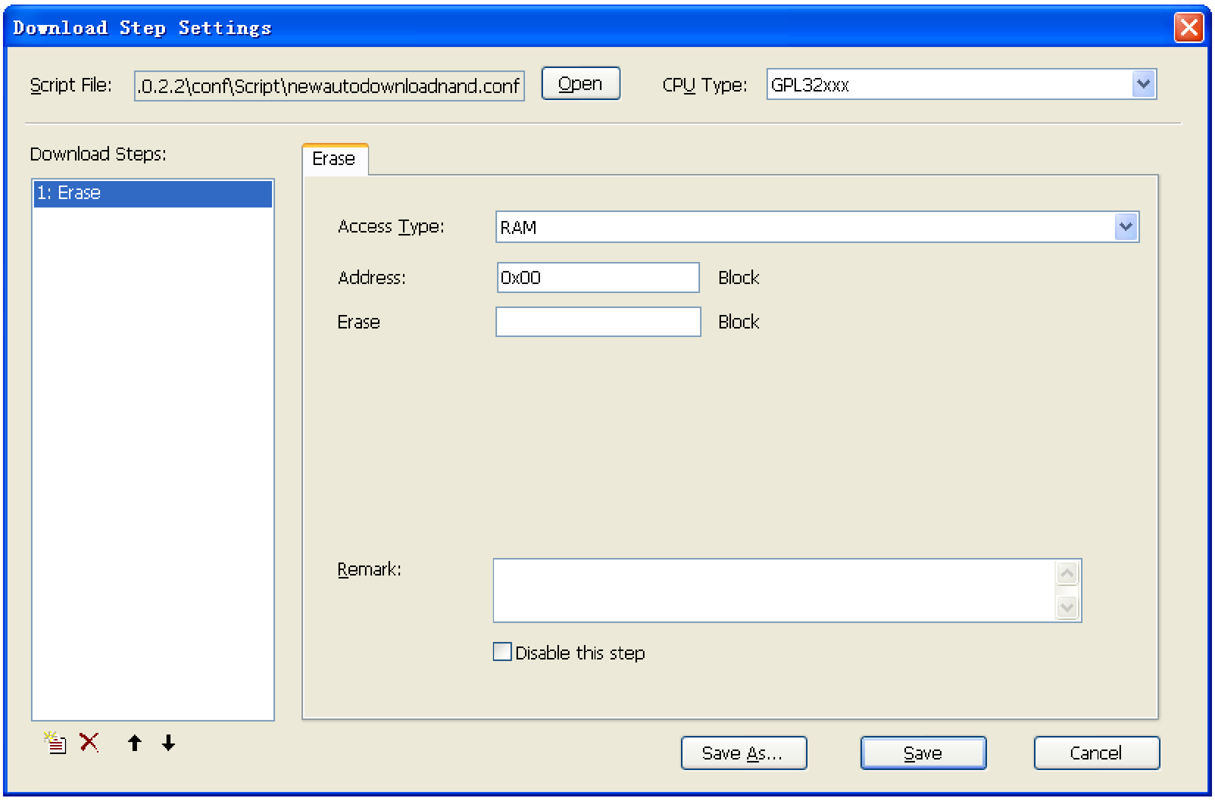
Page4 Index: 0x00

☑ Enhance Mode Option

☐ Disable this step

- ✓ This action is used to erase all blocks of the Nand Flash. There have two modes: general mode and enhance mode. General Mode is the default mode.
- ✓ Check “Enhance Mode Option”, input the page number that you want to erase, will erase the specified page by enhance mode.

1.3.10 Erase Action



Download Step Settings
Script File:
Open
Download Steps:
Erase
Access Type:
Address:
Block
Erase
Block
Remark:
☐ Disable this step
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

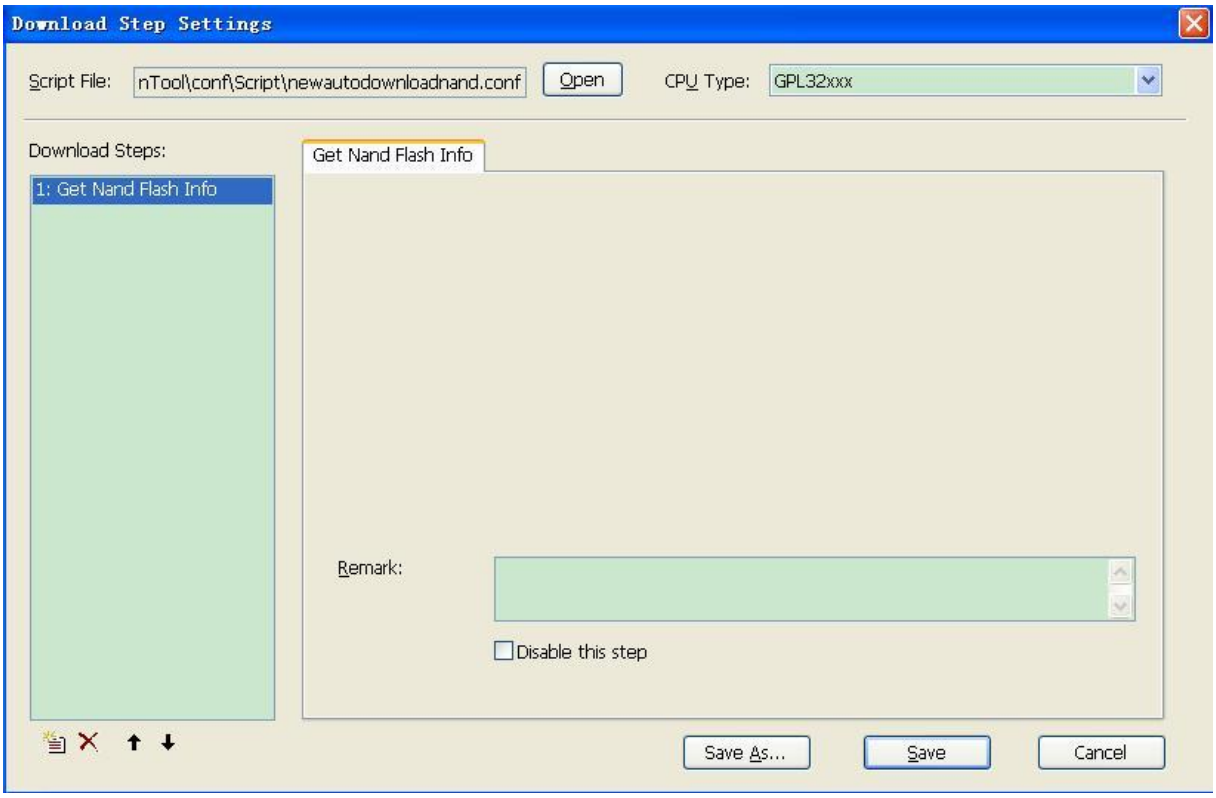
1: Erase

Access Type: RAM

Address: 0x00 Block

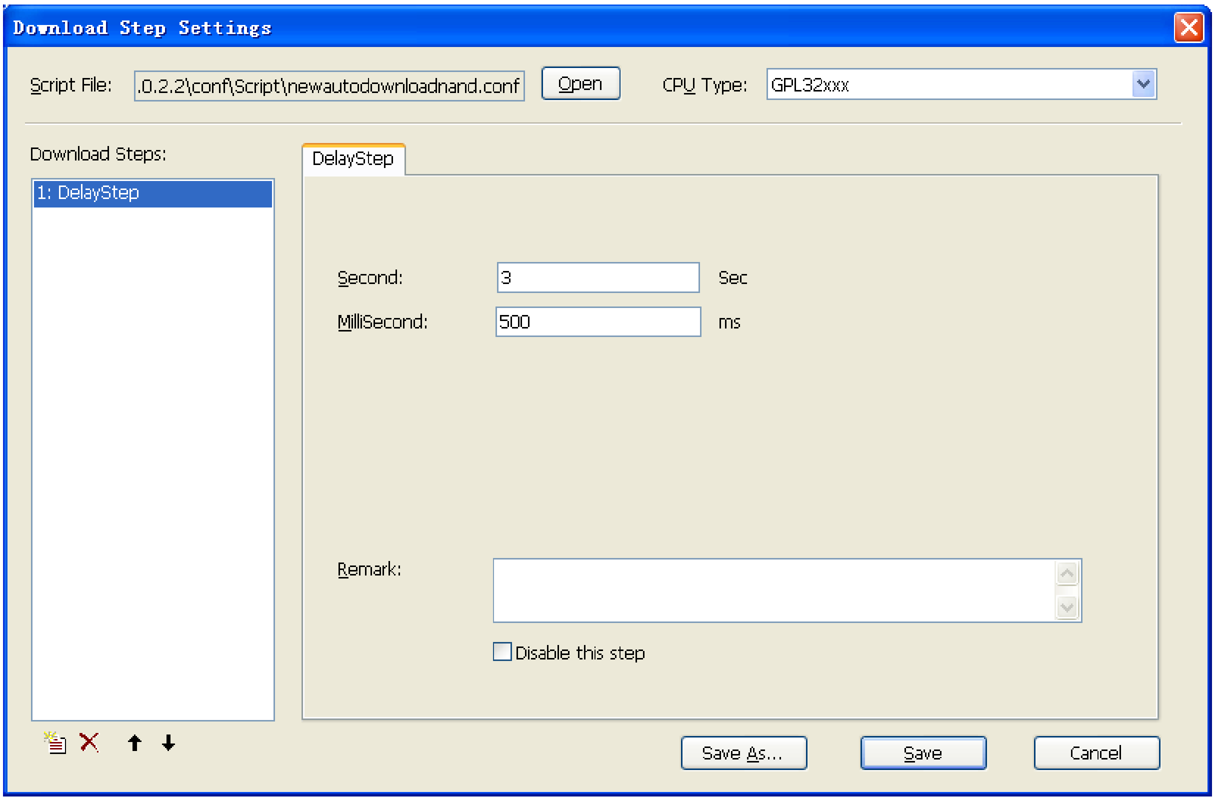
- ✓ Access Type: Choose the Flash type in Access Type list.
- ✓ .Address: Input the start block that will be erased.
- ✓ Erase: Input the block number that will be erased.

1.3.11 Get Nand Info Action


Download Step Settings
Script File: nTool\conf\Script\newautodownloadnand.conf
Open
CPU Type: GPL32xxx
Download Steps:
1: Get Nand Flash Info
Get Nand Flash Info
Remark:
☐ Disable this step
Save As...
Save
Cancel

When device excute this step, it will output nand flash information to uart debug tool. In other words, we can monitor the nand flash information when the host communicates with device.

1.3.12 Host Command Delay Action



Download Step Settings
Open
Download Steps:
1: DelayStep
DelayStep
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Second: 3 Sec

MilliSecond: 500 ms

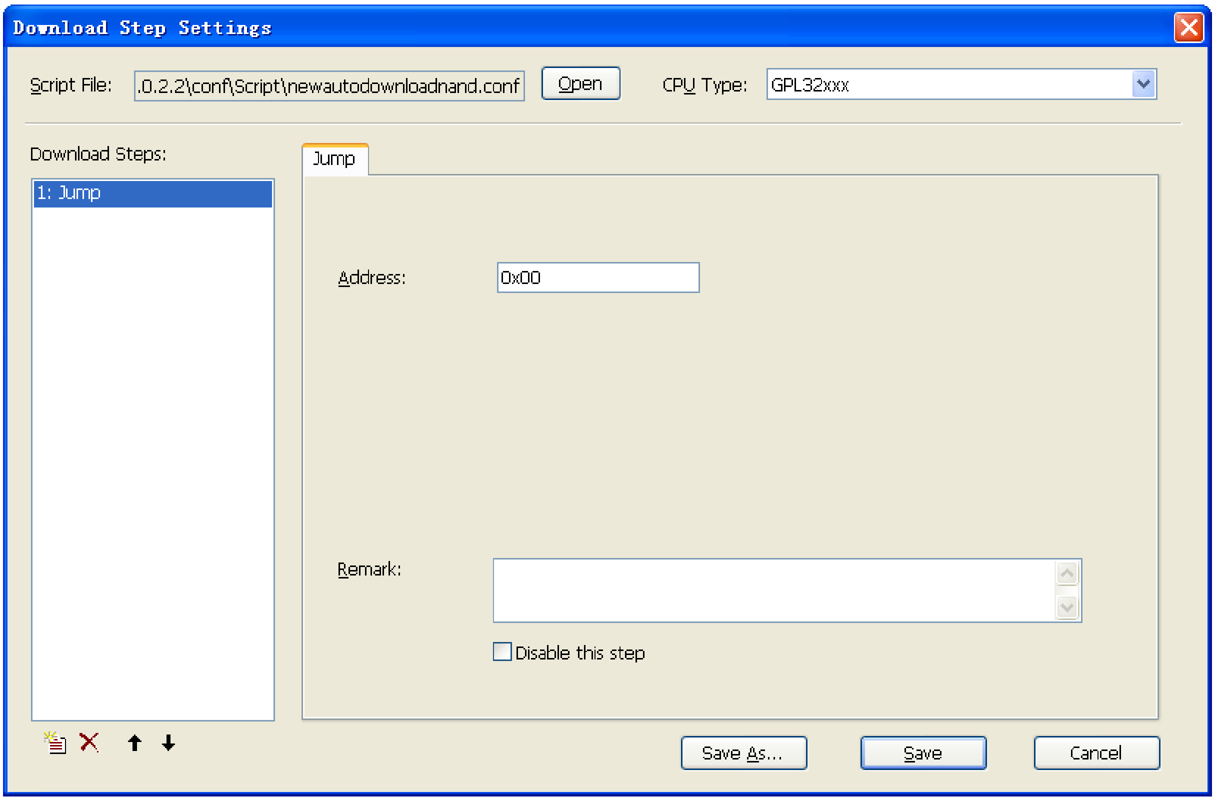
Remark:

☐ Disable this step

This Command is just for pc side, it do not communicate with device.

- ✓ Specify the delay time that you want.

1.3.13 Jump Action


Download Step Settings
Open
Download Steps:
Jump
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

1: Jump

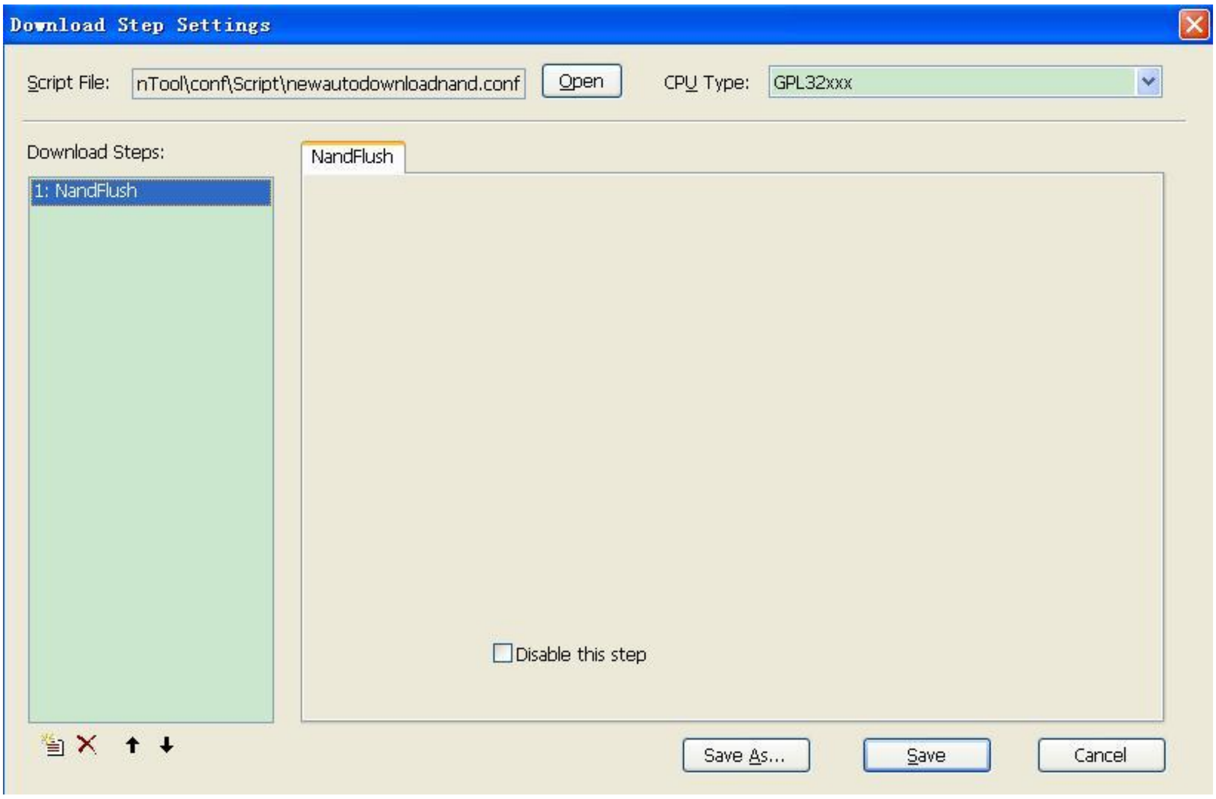
Address: 0x00

Remark:

☐ Disable this step

This action will tell device to jump to the specified ram address.

1.3.14 Nand Flush Action



Script File: nTool\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Download Steps:

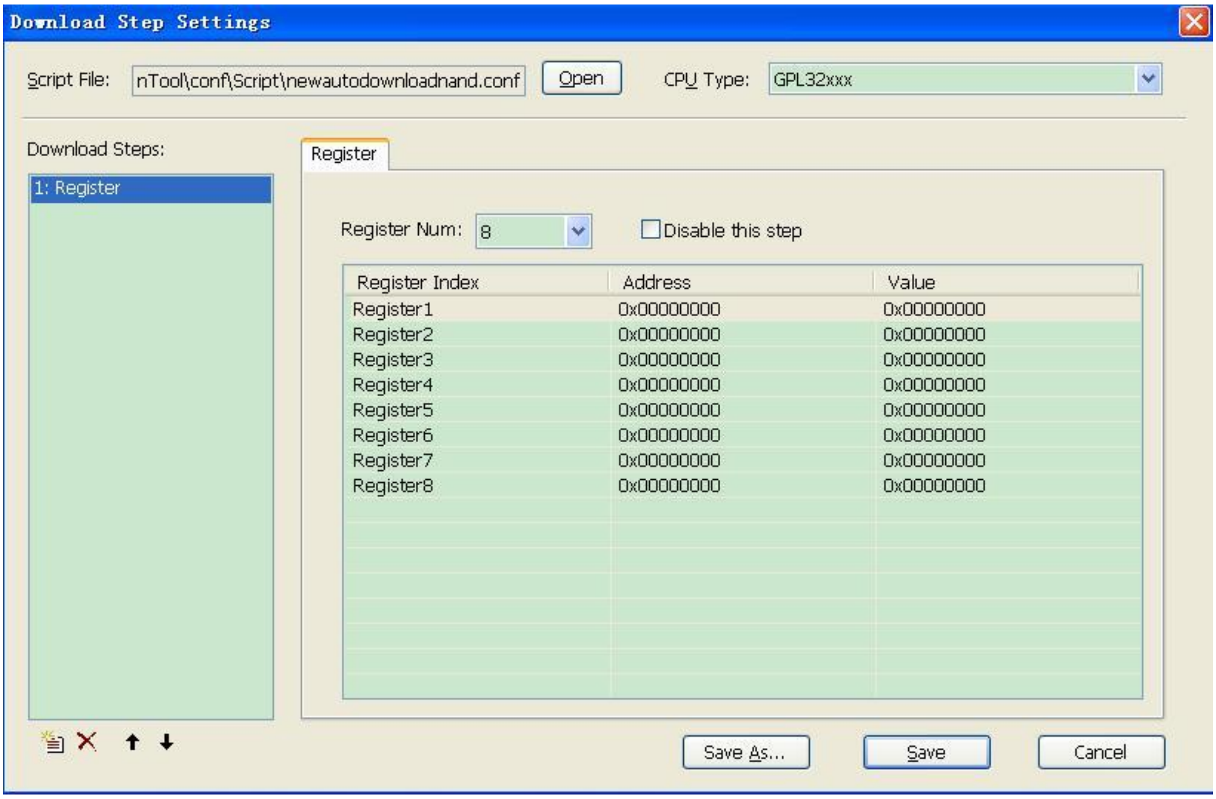
1: NandFlush

☐ Disable this step

Download Step Settings
Open
NandFlush
Save As...
Save
Cancel

This action is used to flush nand flash, move the data in the butter to Nand.

1.3.15 Register Action



Script File: nTool\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Download Steps:
1: Register

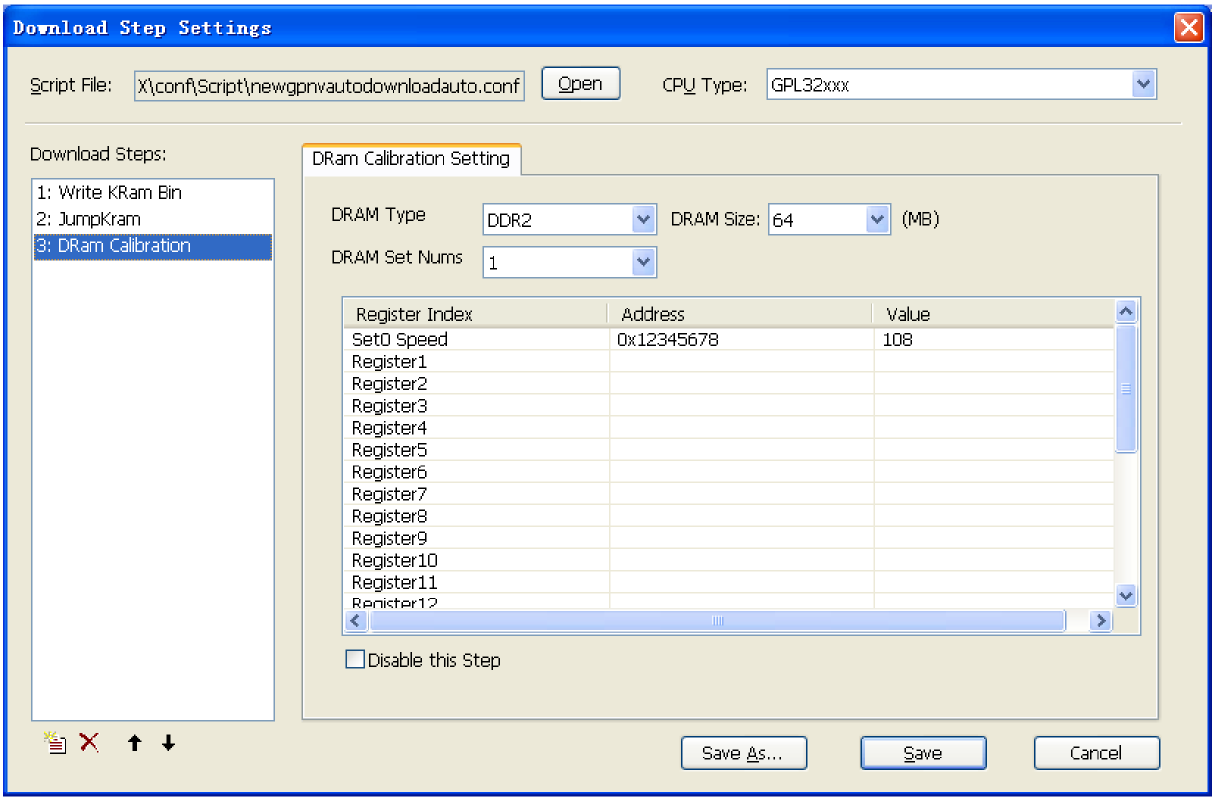
Register Num: 8

☐ Disable this step

Register Index	Address	Value
Register1	0x00000000	0x00000000
Register2	0x00000000	0x00000000
Register3	0x00000000	0x00000000
Register4	0x00000000	0x00000000
Register5	0x00000000	0x00000000
Register6	0x00000000	0x00000000
Register7	0x00000000	0x00000000
Register8	0x00000000	0x00000000

This action is used to send the value to specified register. We will provide 31th items to configurate.Besides, there is another action name read register. It is the similar with write pre-register action on the user interface. It primarily used to read register value. these value will be now written back into log file for each device. User just specify the number items and the each register address they would like to read . when the device was completely finished executing tasks. User can view these value Information in the log file under the folder of the executable file.

1.3.16 Dram Calibration



Script File: X\conf\Script\newgpnvautodownloadauto.conf

CPU Type: GPL32xxx

Download Steps:

1: Write KRam Bin
2: JumpKram
3: DRam Calibration

DRAM Type: DDR2

DRAM Size: 64 (MB)

DRAM Set Nums: 1

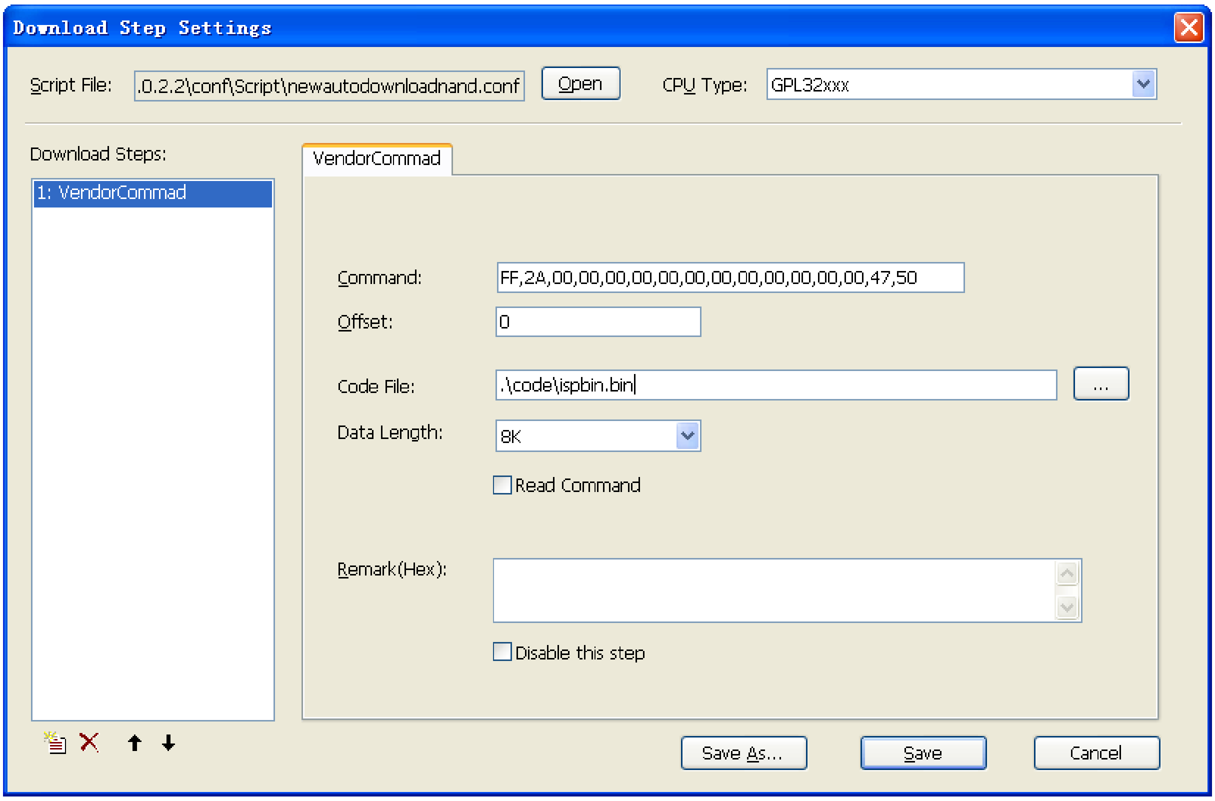
Register Index	Address	Value
Set0 Speed	0x12345678	108
Register1		
Register2		
Register3		
Register4		
Register5		
Register6		
Register7		
Register8		
Register9		
Register10		
Register11		
Register12		

☐ Disable this Step

According to writng a bin file and jump step, then send the DRAM type、DRAM size and SRAM set nums to the device, the device will do the DRAM calibration operation automatically. Finally, the MP tool will read the relatived register and value to display on the interface.

1.3.17 Vendor Command Action

Vendor Command Write:



Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

1: VendorCommad

Command: FF,2A,00,00,00,00,00,00,00,00,00,00,00,00,47,50

Offset: 0

Code File: .\code\ispbin.bin

Data Length: 8K

☐ Read Command

Remark(Hex):

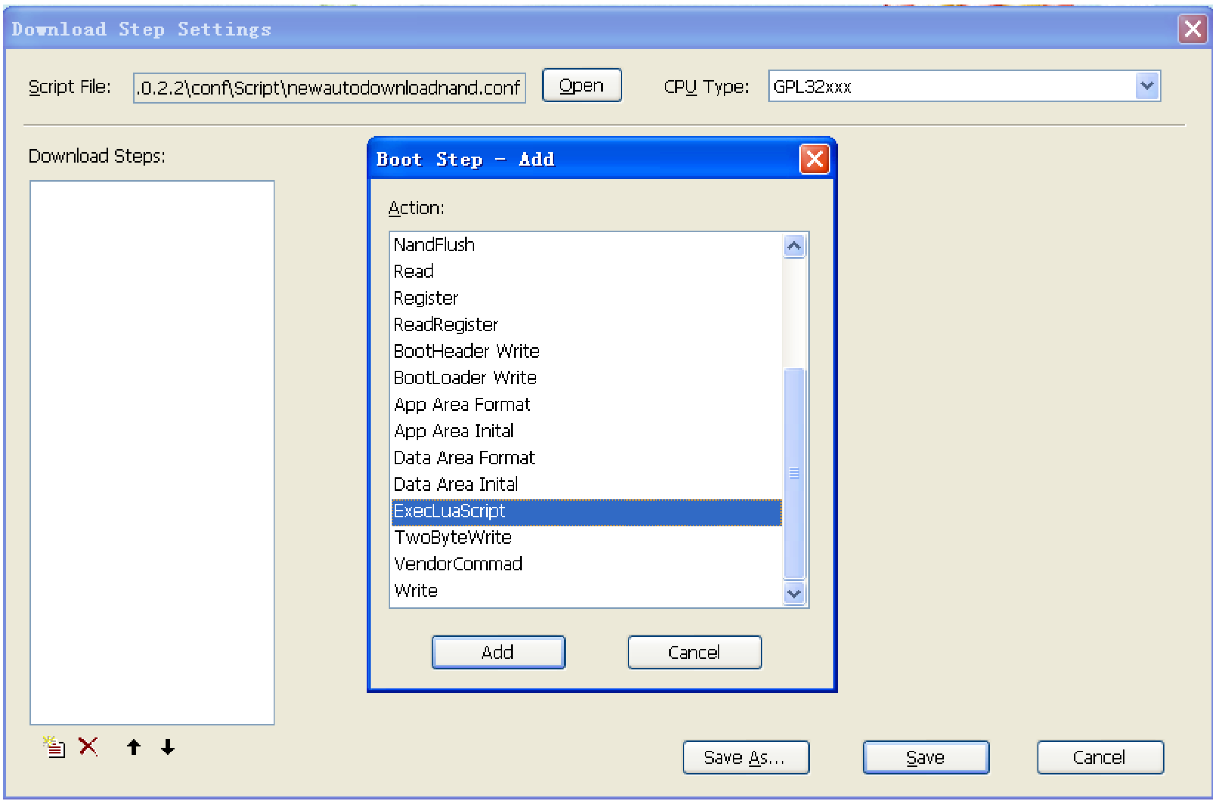
☐ Disable this step

You may customerized the command protocol, if you do not select the read command option, it indicates write Command default. There are some parameters in the remark, if the code file is not empty, the previous four bytes are the offset of the code file, and the next four bytes are the data length begins from this offset. Of course, if the code file is empty, the command protocol will send to device directly. Additionally, if the remark is no content, and thd code file is not empty, it indicates that the code file will be transmitted to device with command protocol.

- ✓ Command: Specify the command that you want to send to device. The command input has a limited format,the correct input way is:Move you mouse cursor to the beginning position where you want to input the command,then enter your command in turns.Note:You can't use the mouse to select a byte command to enter; Also,you can't copy one byte command to paste to a different location.
- ✓ Offset: Specify the offset value.
- ✓ Code file: Specify the code file that you want to write. If you check “Read Command”, it will save the data to the defined code file.
- ✓ Data Length: Specify the data length per time when writing or reading.
- ✓ Read Command: Will read back the data and saved in the code file that you defined.

1.3.18 Lua Script

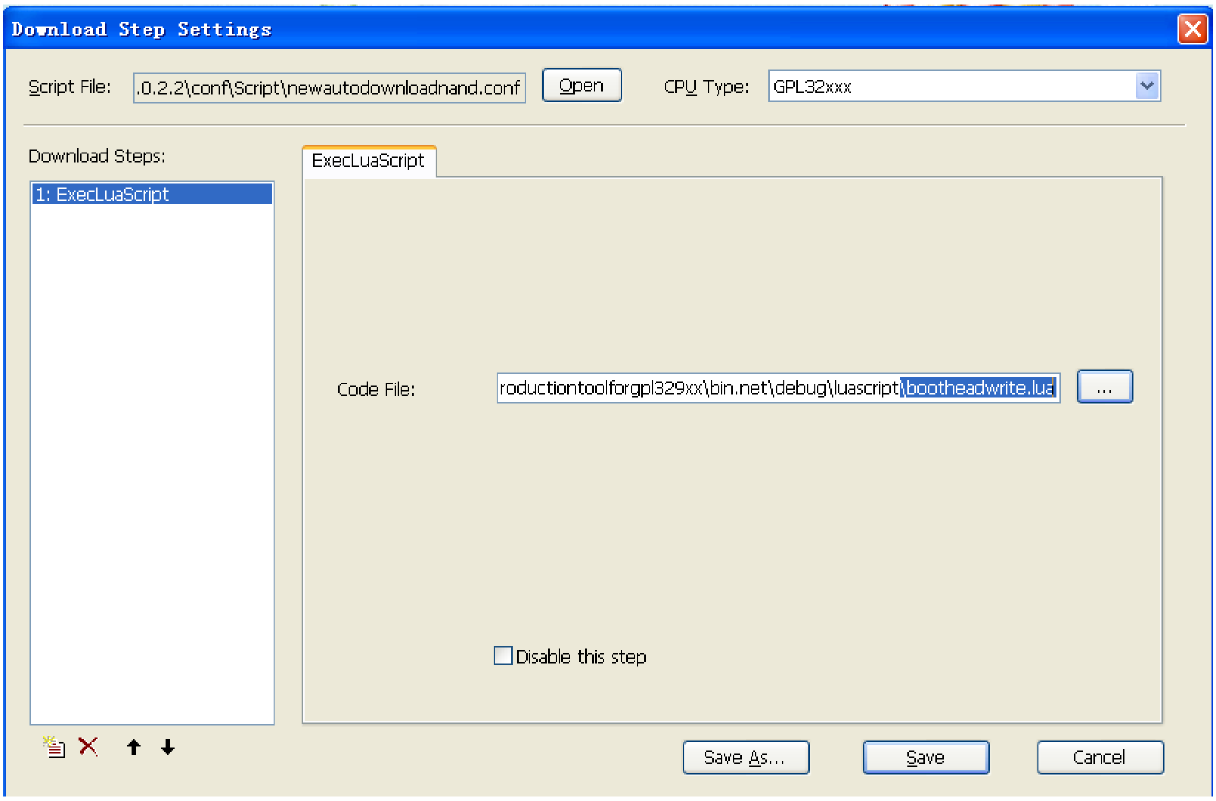
We supported the Lua script from this version, the user can define the steps by lua script, and add to the download steps, the MP Tool will parse the script to finish the download.



Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Download Step Settings
Open
Download Steps:
Boot Step - Add
Action:
NandFlush
Read
Register
ReadRegister
BootHeader Write
BootLoader Write
App Area Format
App Area Inital
Data Area Format
Data Area Inital
ExecLuaScript
TwoByteWrite
VendorCommad
Write
Add
Cancel
Save As...
Save
Cancel


Download Step Settings
Open
ExecLuaScript
...
Save As...
Save
Cancel

Script File: .0.2.2\conf\Script\newautodownloadnand.conf

CPU Type: GPL32xxx

Download Steps:

1: ExecLuaScript

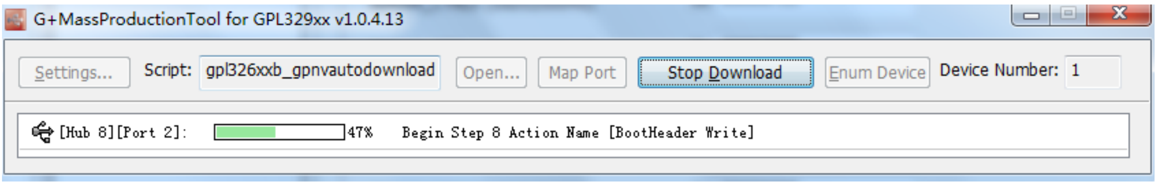
Code File: roductiontoolforgpl329xx\bin.net\debug\luascript\bootheadwrite.lua

☐ Disable this step

1.4 Execution(Download)

1.4.1 Single Device download

Click “Start Download” and the status bar will keep updated until it finishes. You can click “stop download” to stop it when it’s downloading.

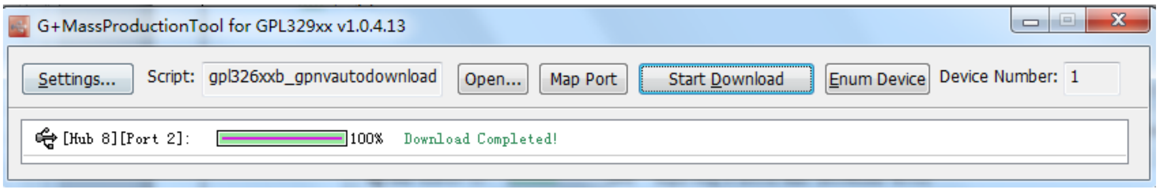

G+MassProductionTool for GPL329xx v1.0.4.13
Settings...
Open...
Map Port
Stop Download
Enum Device

Script: gpl326xxb_gpnvautodownload

Device Number: 1

[Hub 8][Port 2]: 47% Begin Step 8 Action Name [BootHeader Write]

After finished ,it will show 100% to us,and “Stop Download” also change to “Start Download”.If you want to download to another device,you just change the device and do again


G+MassProductionTool for GPL329xx v1.0.4.13
Settings...
Open...
Map Port
Start Download
Enum Device

Script: gpl326xxb_gpnvautodownload

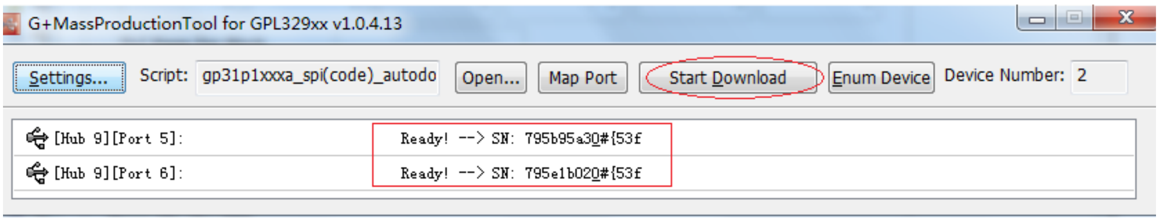
Device Number: 1

[Hub 8][Port 2]: 100% Download Completed!

1.4.2 Mutiple Devices download

If user want to download more than one devices at the same time,You must do like this.

1. After the binary file or hdb file is generated by G+Code packer, then click “download” button ,it will pop up the interface of “ G+ Mass Production Tool For GPL329xx “,Mutiple devices download steps is:
   (1) Open G+Code packer , then DRAM calibration
   (2) After setting the correct parameters,and click “pack “successfully
   (3) Click “Download” button to pop up G+ Mass Production Tool For GPL329xx Tool
   (4) Access the GP USB device one by one to a Hub,and then turn on power for each device (Don’t access Hub to another Hub,Hub can provide 2A current itself)
   (5) After MP Tools UI display all devices, and then click “StartDownload”,when it’s in downloading,” StartDownload” will change to “StopDownload”


G+MassProductionTool for GPL329xx v1.0.4.13
Settings...
Open...
Map Port
Start Download
Enum Device

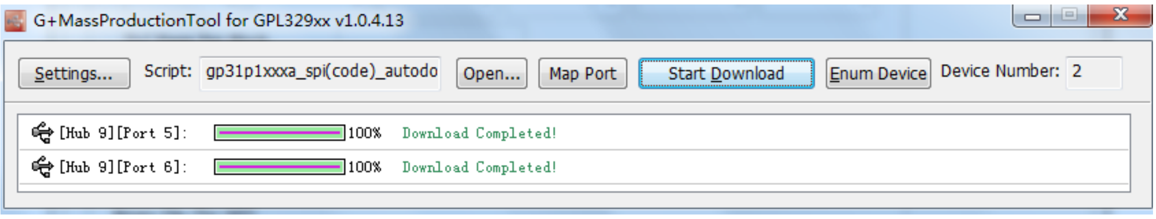
Script: gp31p1xxxa_spi(code)_autodo

Device Number: 2

[Hub 9][Port 5]: Ready! --> SN: 795b95a30#{53f

[Hub 9][Port 6]: Ready! --> SN: 795e1b020#{53f

   (6) After all devices download completed , “StopDownload” will change to “StartDownload” again, and also show to us 100%,turn off the power of all devices , repeat Step 4 to download other devices



Script: gp31p1xxxa_spi(code)_autodo

Device Number: 2

```
[Hub 9][Port 5]:  100%  Download Completed!
[Hub 9][Port 6]:  100%  Download Completed!
```

Don’t plug any USB bus when it is in downloading.

If there have some devices download completed or failure before all completed,

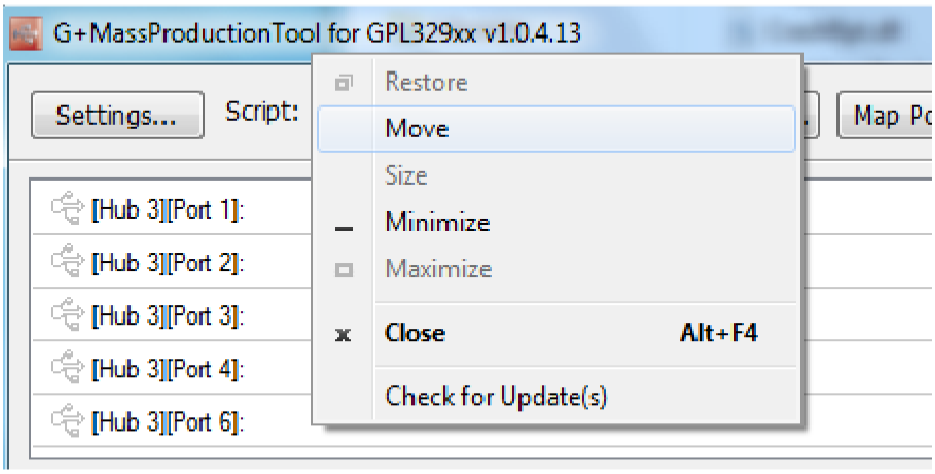
Please wait for all devices completed , and then you can turn off or plug device.

2. If user already has conf or bin file , and open “ G+ Mass Production Tool For GPL329xx” by double-click “USBMassProductionTool_For_GPL329XX \G+MassProductionTool For GPL329xx.exe”, you can directly begin at Step 4

1.5 Check for Update(s)

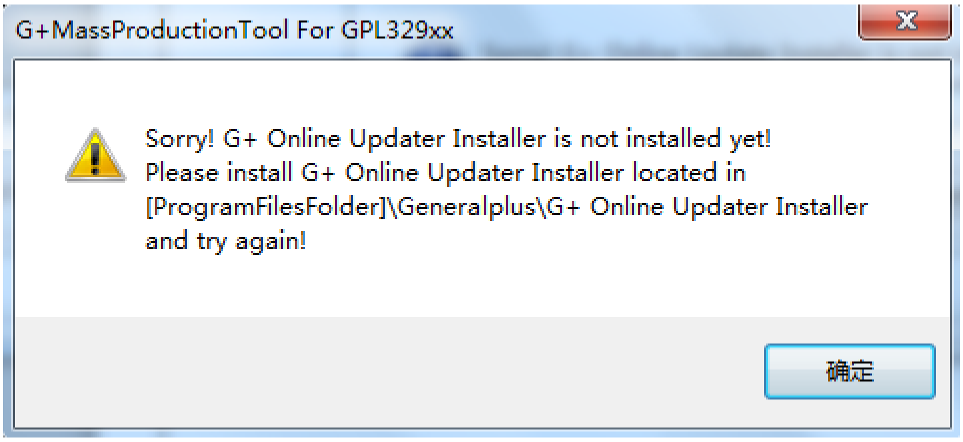
The “Check for Update(s)” button will be seen when user click right button on the G+MassProductionTool For GPL329xx icon in taskbar. The function is used to check the tool version is newest or not. It also allows the user which has A-Key to download the newest version directly. The operation of the function is described below：

1. The “Check for Update(s)” button will be seen when user click right button on the G+MassProductionTool For GPL329xx in taskbar.


G+MassProductionTool for GPL329xx v1.0.4.13
Settings...
Script:
Map Po
[Hub 3][Port 1]:
[Hub 3][Port 2]:
[Hub 3][Port 3]:
[Hub 3][Port 4]:
[Hub 3][Port 6]:
Restore
Move
Size
Minimize
Maximize
Close Alt+F4
Check for Update(s)

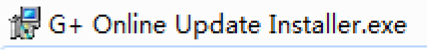
2. Click button to execute the function of “Check for Update(s)”.

2.1 It will pop up following message if the tool “GP SW Tool Online Updater” is not installed.

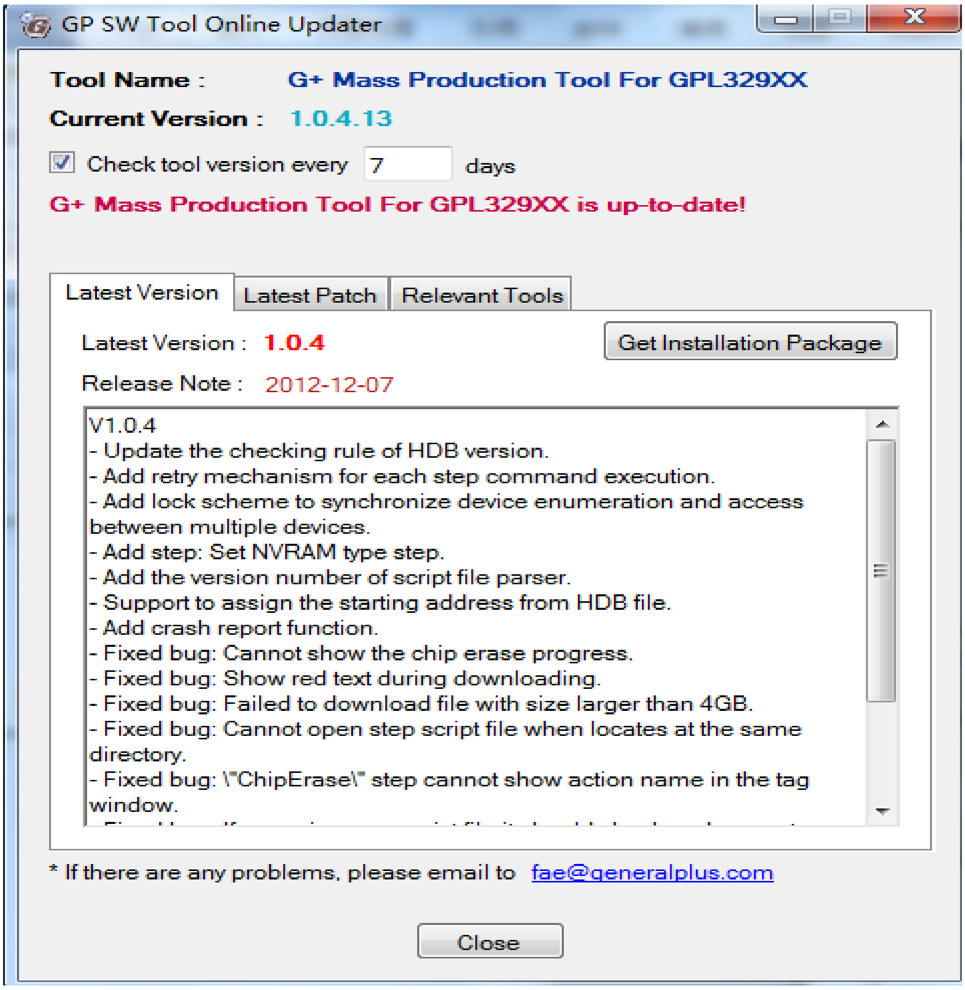

G+MassProductionTool For GPL329xx
确定

Sorry! G+ Online Updater Installer is not installed yet!
Please install G+ Online Updater Installer located in
[ProgramFilesFolder]\Generalplus\G+ Online Updater Installer
and try again!

You can execute “G+ Online Update Installer.exe ” in the folder mentioned in the message to install the tool “GP SW Tool Online Updater”.


G+ Online Update Installer.exe

2.2 It will pop up the user interface of “GP SW Tool Online Updater” if the tool is installed. You can get the information of current tool version、latest version、latest release date … and so on. You can also set the auto check version period. The user which has A-Key can press “Get Installation Package” button to download the newest version when the current tool version is out of date.



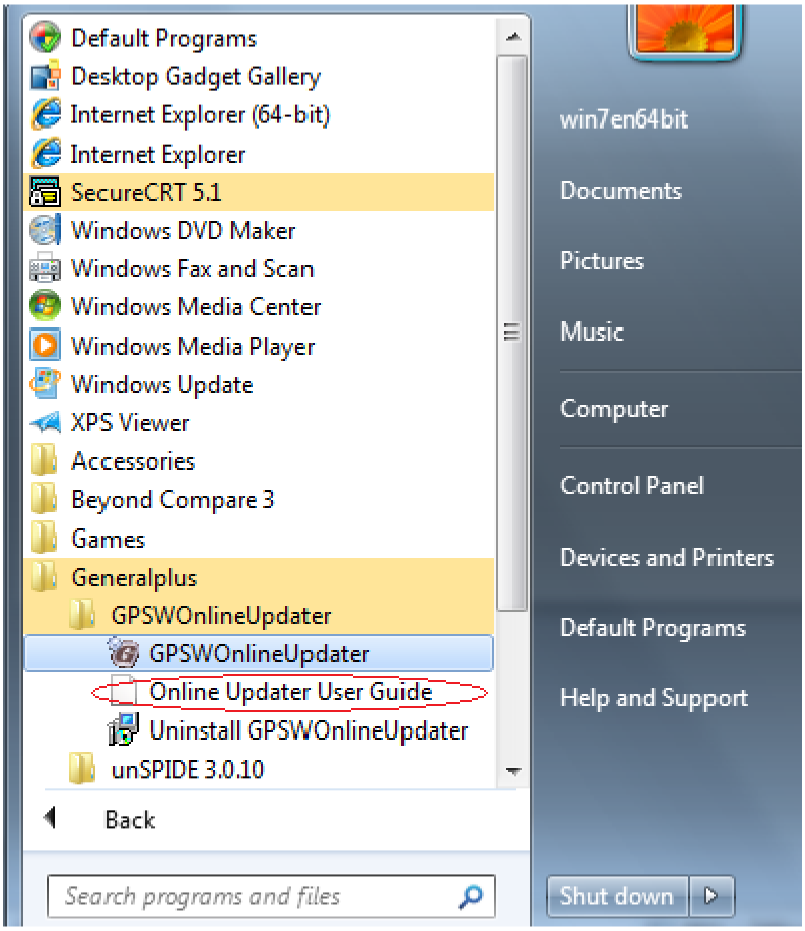
Tool Name : G+ Mass Production Tool For GPL329XX
Current Version : 1.0.4.13
☑ Check tool version every 7 days
G+ Mass Production Tool For GPL329XX is up-to-date!

Latest Version : 1.0.4
Release Note : 2012-12-07

V1.0.4
- Update the checking rule of HDB version.
- Add retry mechanism for each step command execution.
- Add lock scheme to synchronize device enumeration and access between multiple devices.
- Add step: Set NVRAM type step.
- Add the version number of script file parser.
- Support to assign the starting address from HDB file.
- Add crash report function.
- Fixed bug: Cannot show the chip erase progress.
- Fixed bug: Show red text during downloading.
- Fixed bug: Failed to download file with size larger than 4GB.
- Fixed bug: Cannot open step script file when locates at the same directory.
- Fixed bug: \"ChipErase\" step cannot show action name in the tag window.

* If there are any problems, please email to fae@generalplus.com

2.3 If you want to kown more about the “G+ Online Updater”, After the “GP SW Tool Online Updater” tool is installed, you can read the guide of “Online Updater User Guide.pdf”. (The Path: All Programs-> Generalplus -> GPSWOnlineUpdater -> Online Updater User Guide.pdf)


Default Programs
Desktop Gadget Gallery
Internet Explorer (64-bit)
Internet Explorer
SecureCRT 5.1
Windows DVD Maker
Windows Fax and Scan
Windows Media Center
Windows Media Player
Windows Update
XPS Viewer
Accessories
Beyond Compare 3
Games
Generalplus
GPSWOnlineUpdater
GPSWOnlineUpdater
Online Updater User Guide
Uninstall GPSWOnlineUpdater
unSPIDE 3.0.10
Back
Search programs and files
win7en64bit
Documents
Pictures
Music
Computer
Control Panel
Devices and Printers
Default Programs
Help and Support
Shut down

2 DownloadFile Stored rules(conf/ bin / hdb)

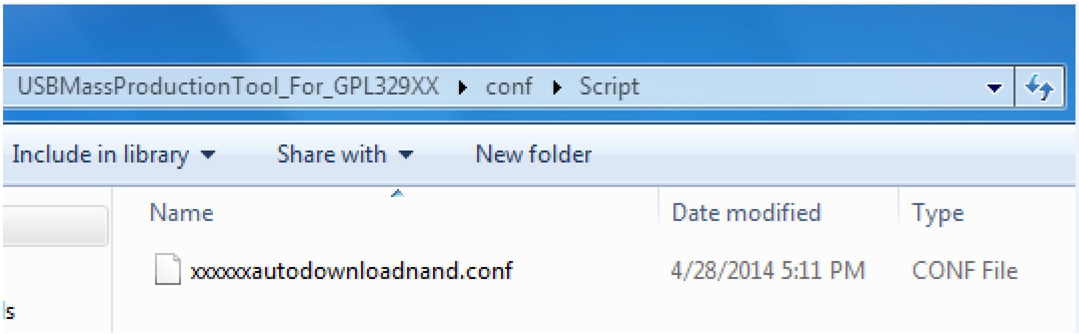
After the binary file or hdb file is generated by G+Code packer, user may need to move the files to other location or computer to download, It is very easy to bring some problems:G+ Mass Production Tool For GPL329xx can’t find these files (.conf/ .bin / .hdb) when download.To avoid this happened, it is recommended to store files using the following rules

2.1 “. Conf” file stored rules

Rules：Stored the Conf(ScriptFile) to the directory of “USBMassProductionTool_For_GPL329XX\conf\Script”

Example：

” xxxxxautodownloadnand.conf “ will be used to Mass Production Tool For GPL329xx to download, so move it to “USBMassProductionTool_For_GPL329XX\conf\Script”



USBMassProductionTool_For_GPL329XX ▸ conf ▸ Script

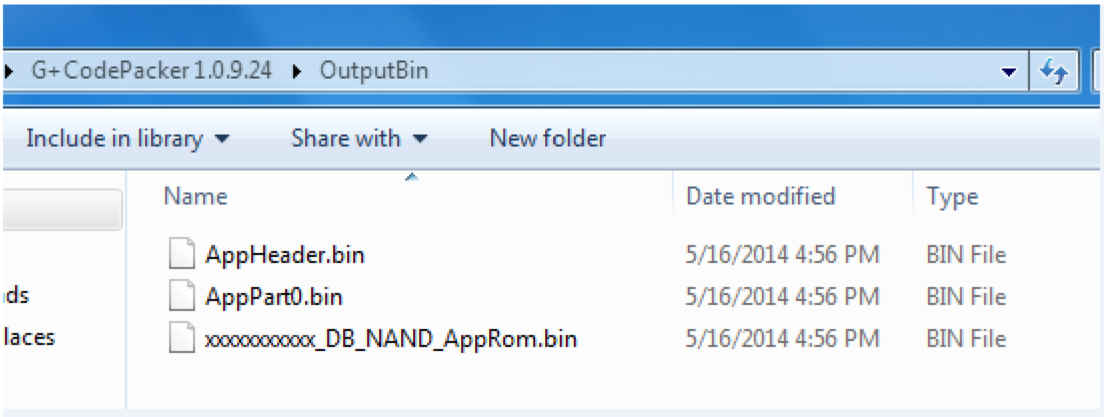
xxxxxautodownloadnand.conf 4/28/2014 5:11 PM CONF File

2.2 “.bin/.hdb” stored rules

Rules：Copy the binary file or hdb file which is generated by G+Code packer to the directory of “USBMassProductionTool_For_GPL329XX\Code”

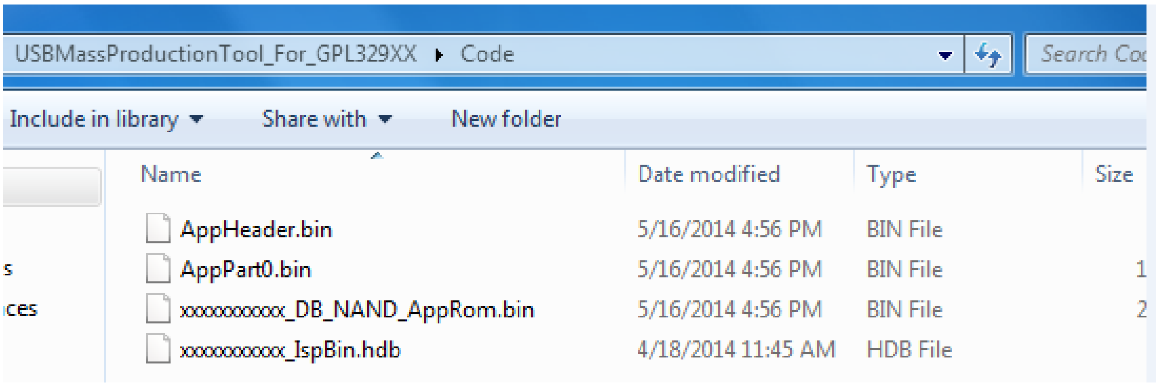
Example：

Step 1：Binary file (.bin) which is generated by G+Code packer will be stored in the directory of “G+CodePacker 1.0.9.24\OutputBin” first


G+CodePacker 1.0.9.24 ▸ OutputBin
Include in library ▾
Share with ▾
New folder
ds
laces

Name	Date modified	Type
AppHeader.bin	5/16/2014 4:56 PM	BIN File
AppPart0.bin	5/16/2014 4:56 PM	BIN File
xxxxxxxxxxx_DB_NAND_AppRom.bin	5/16/2014 4:56 PM	BIN File

Step 2：Copy the Step 1 binary file (.bin) or some other binary file the user downloading will be used to directory “USBMassProductionTool_For_GPL329XX\Code”, and it also needs to copy HDB file(.hdb) to this directory


USBMassProductionTool_For_GPL329XX ▸ Code
Search Coc
Include in library ▾
Share with ▾
New folder
s
ces

Name	Date modified	Type	Size
AppHeader.bin	5/16/2014 4:56 PM	BIN File	
AppPart0.bin	5/16/2014 4:56 PM	BIN File	1
xxxxxxxxxxx_DB_NAND_AppRom.bin	5/16/2014 4:56 PM	BIN File	2
xxxxxxxxxxx_IspBin.hdb	4/18/2014 11:45 AM	HDB File	

Description：hdb file (.hdb)　which is generated by G+Code packer will be stored in the directory of “G+CodePacker 1.0.9.24\USBMassProductionTool_For_GPL329XX\Code” first. If hdb in other directory,please copy it to ” USBMassProductionTool_For_GPL329XX\Code”