



USB Mass Production Tool

Parameter Editor

User Manual

v1.2

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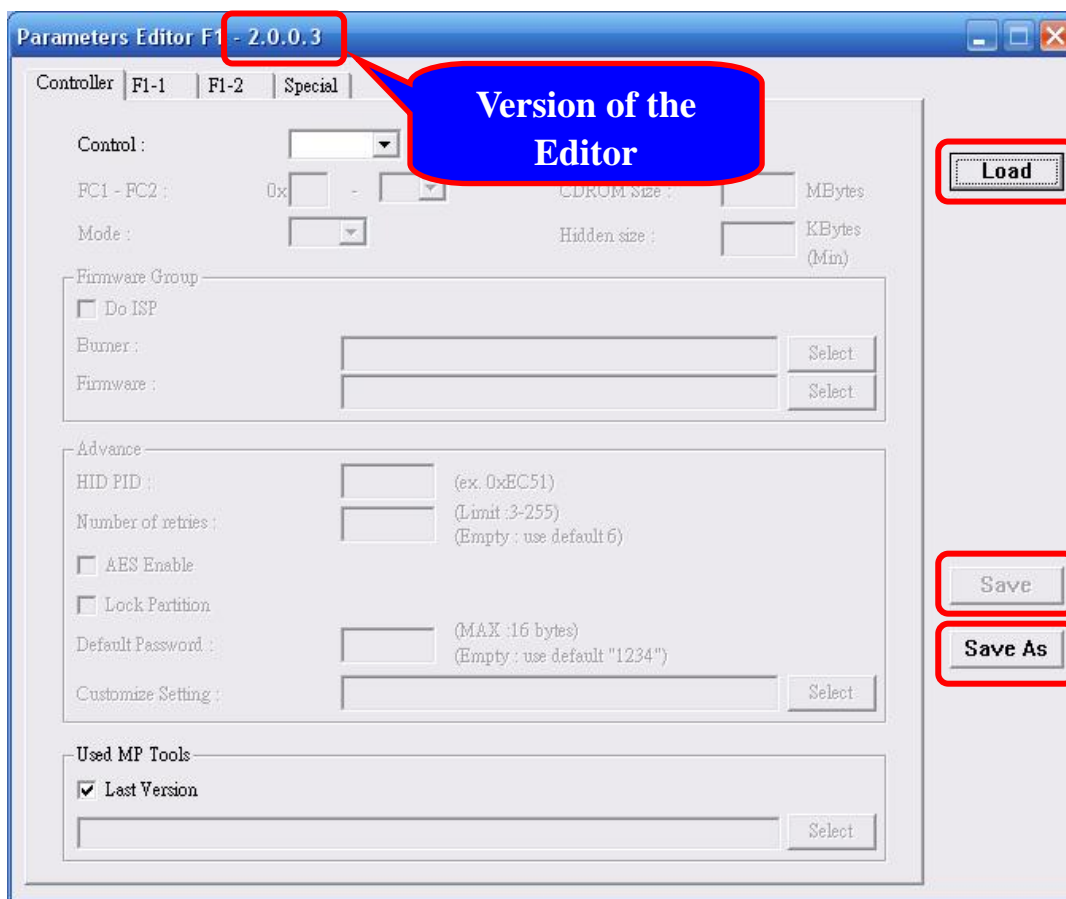
A. Setting up “F1.ini” File with ParamEdt

The main purpose of this file is, allowing you to enter customised information, such as Manufacture Name and Product Name of your choice. Some of this information will show when plugging in the device to a computer, others may store in the registry.

A1. Setting “F1-Controller” Page

You must set up a correct “F1.ini” file before proceed with F1 production process.

Step 1 Start the parameter editing software “ParamEdt-F1.exe” by double clicking it.
(file name may be different)



Load

Load an old “F1.ini” file.

Save

This function is only available when you made changes to an old (existing) file and you want to save the new contents using the same old file name.

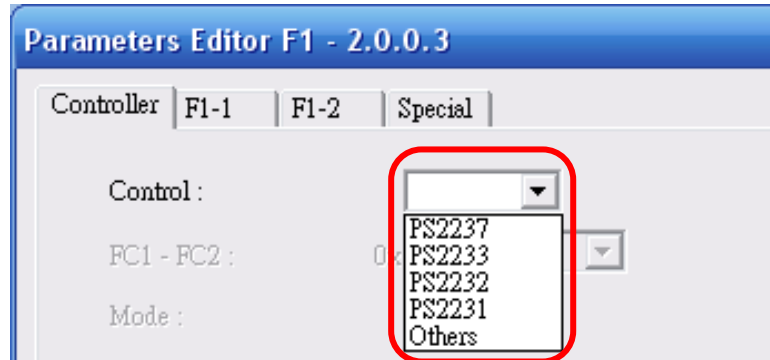
Save As

When you are creating a new file or if you made changes to an old file, but you want to save it using different file name.

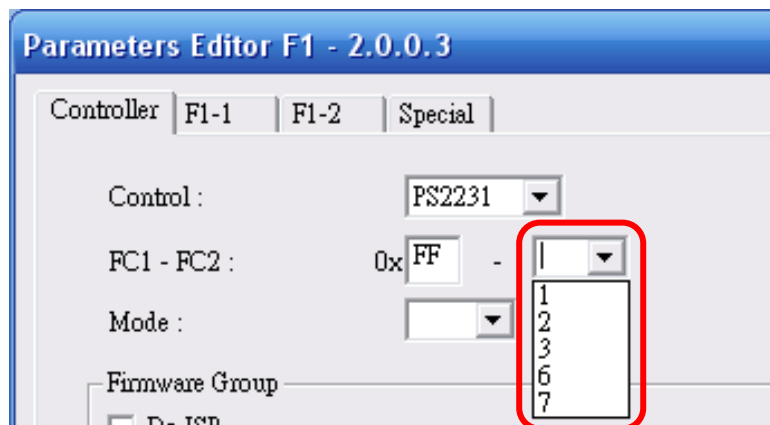
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- Step 2** Select the controller used. If the controller you are using is not on the list, then please select “Others”.



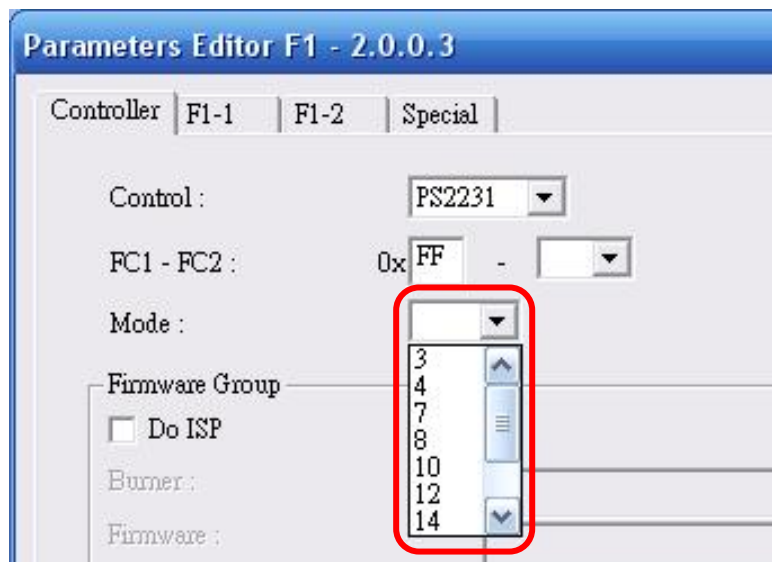
- Step 3** Select the correct firmware type. The firmware type will be notified by Phison when providing the firmware file, if you have any question, please check with Phison's engineer or FAE.



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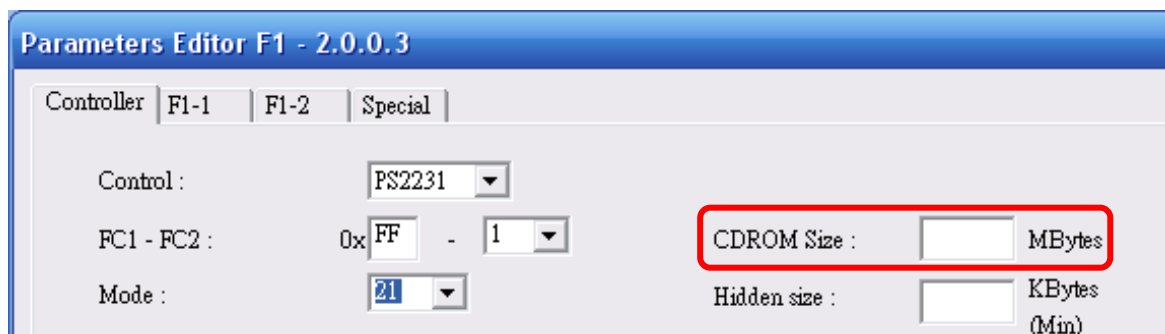
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- Step 4** Select the mode that you want to create. If you are not too sure or have problem selecting the correct mode, please check with Phison's engineer or FAE.



Note : The availability of mode will depend on firmware, certain modes can only supported by specific firmware.

- Step 5** For **Mode 21**, you can decide the capacity of the CD-Rom partition, simply enter the size you want for the CD-Rom partition.



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Step 6 Set the capacity for hidden area. If you do not need this function, simply leave it blank.

PS : for PS2135 & PS2231 FF-03 firmware, you must enter a size for hidden area, if you do not need the hidden area, please enter "Min", to use the minimum capacity (16KB).

Parameters Editor F1 - 2.0.0.3

Controller: F1-1 | F1-2 | Special

Control: PS2231

FC1 - FC2: 0x FF - 1

Mode: 21

CDROM Size: MBytes

Hidden size: KBytes (Min)

Step 7 Some of the controllers are flash type controller, meaning that you can upgrade the firmware any time you want, however by default, the controller itself does not have a default firmware, so if you are using the controller for the first time, then you must load the firmware to the controller. The firmware loading process is called - "ISP".

Please tick the "Do ISP" box if you

(a) are using the flash type controller for the first time

OR

(b) if you have replaced the flash memory

OR

(c) you want to change or upgrade the existing firmware.

Firmware Group

☒ Do ISP

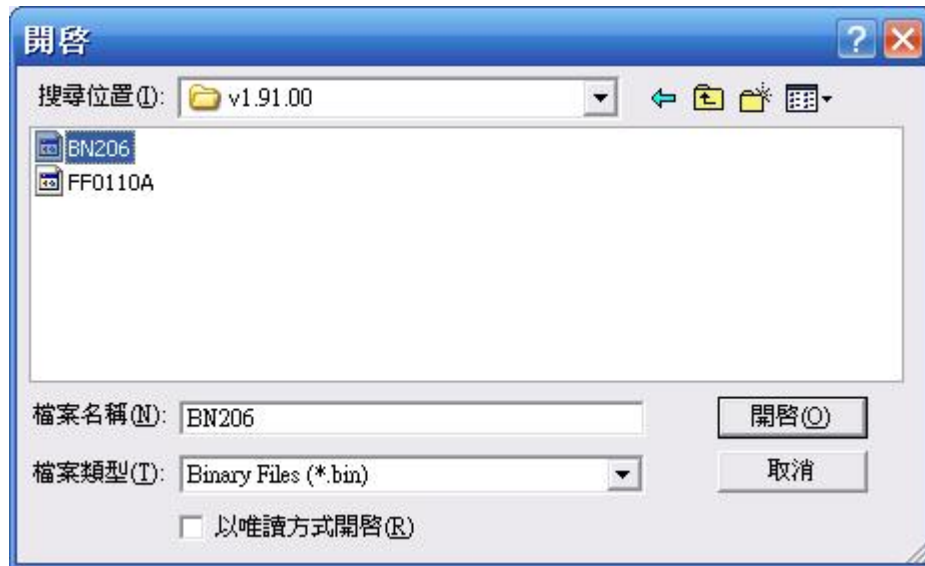
Burner: [] Select

Firmware: [] Select

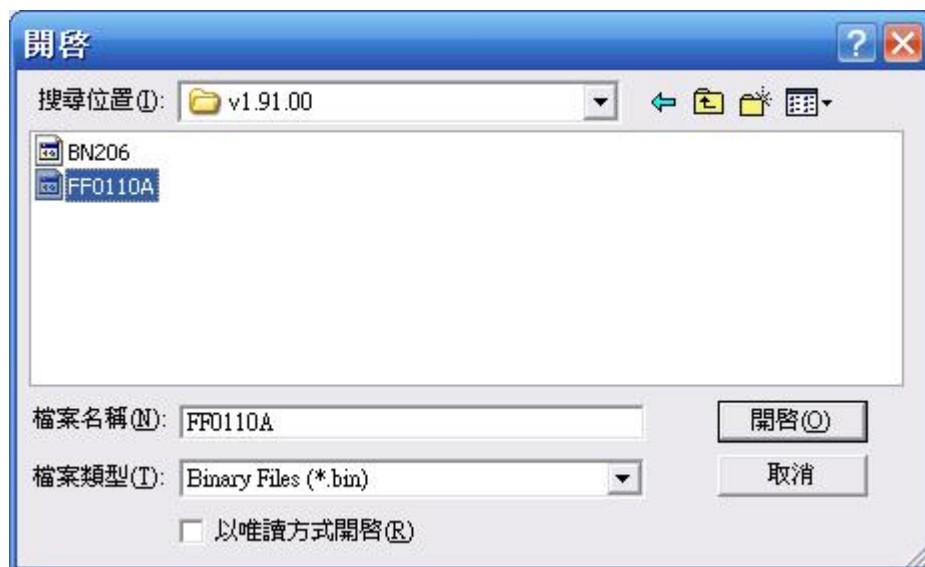
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- Step 8** If you have not ticked the “Do ISP” box in step 7, then please go to step 11 directly. Otherwise, please select the correct burner file, the burner file name is in the format of “BNXXX.bin”



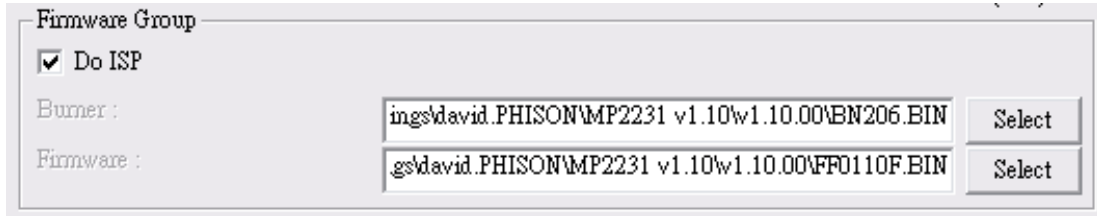
- Step 9** Select the correct firmware file. The firmware file name is in the format of “FFXXXXXX.bin”.



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Step 10 Once you have correctly selected the above 2 files, it should like the following.



Firmware Group

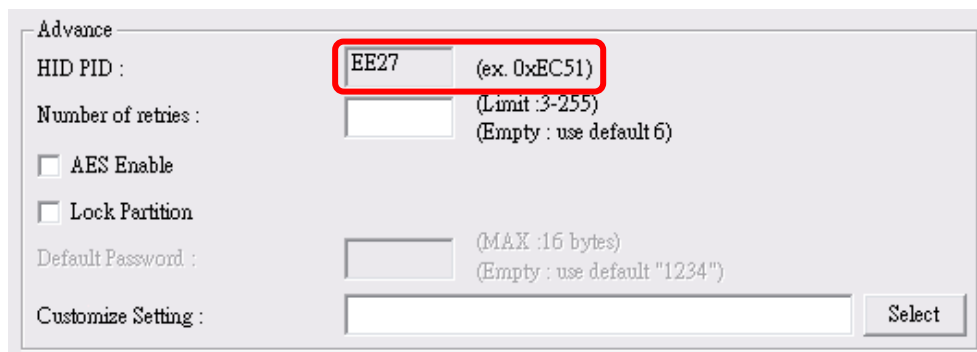
☒ Do ISP

Burner :

Firmware :

Step 11 The following only apply to AES type (FF-03) of firmware, if you are not using this type of firmware, please go to section A2 directly.

Step 12 If you are using AES function, HID-PID is required. It will be automatically been set to default value, you can only change it unless you are not using Phison's default VID-PID. (refer to section A2 for more detail)



Advance

HID PID : (ex. 0xEC51)

Number of retries : (Limit :3-255)
(Empty : use default 6)

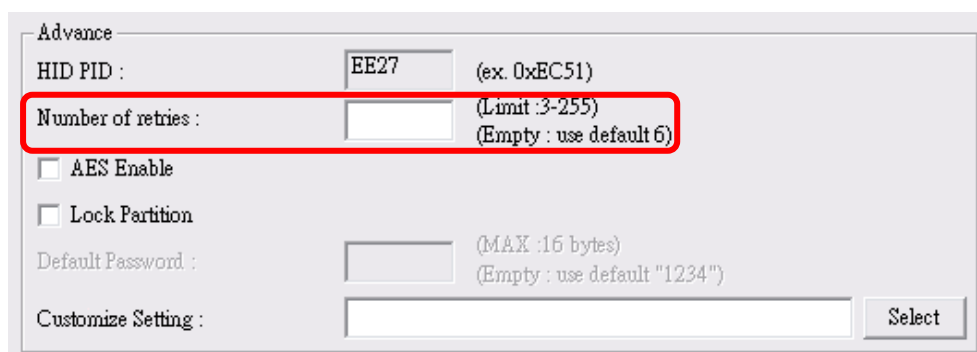
☐ AES Enable

☐ Lock Partition

Default Password : (MAX :16 bytes)
(Empty : use default "1234")

Customize Setting :

Step 13 Enter the retry number for security software; so when the retry number is reached, the device will get formatted and the data gets destroyed. The default value is set to 6 times. (This function is only available with particular firmware)



Advance

HID PID : (ex. 0xEC51)

Number of retries : (Limit :3-255)
(Empty : use default 6)

☐ AES Enable

☐ Lock Partition

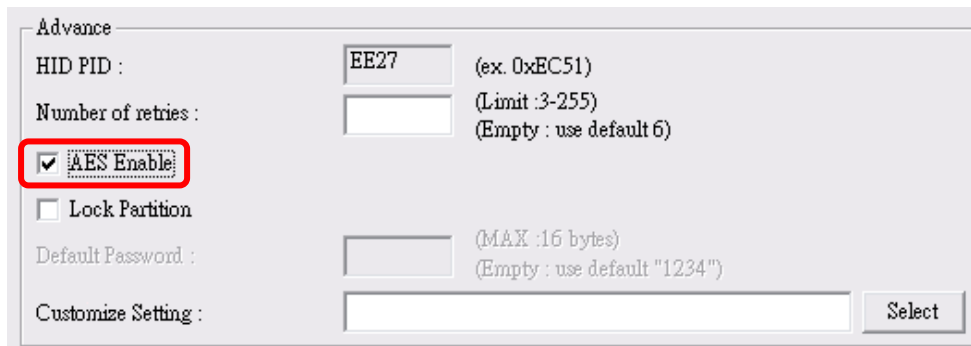
Default Password : (MAX :16 bytes)
(Empty : use default "1234")

Customize Setting :

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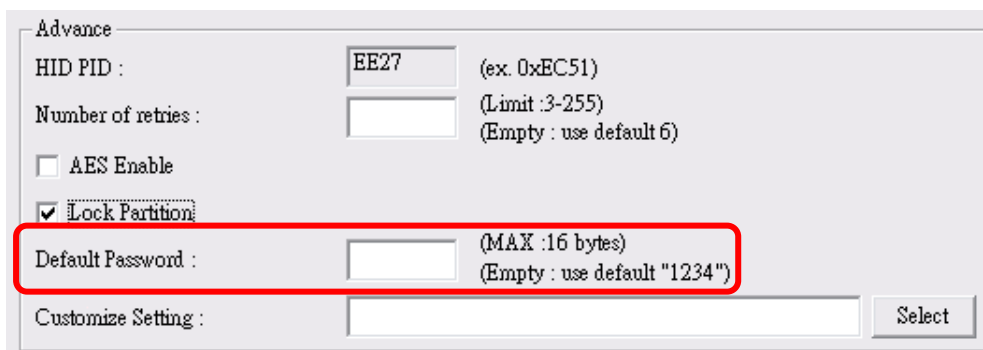
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Step 14 If you want to enable AES function, please tick the “AES Enable” box.



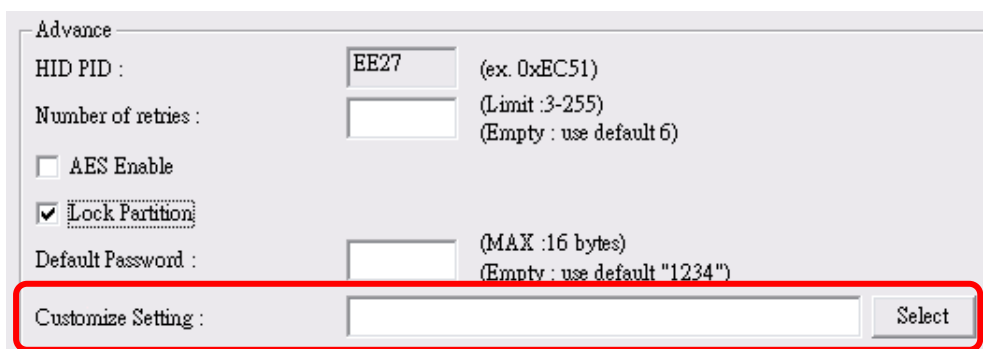
The screenshot shows the 'Advance' settings window. The 'AES Enable' checkbox is checked and highlighted with a red box. Other visible fields include 'HID PID' (EE27), 'Number of retries' (empty), 'Default Password' (empty), and 'Customize Setting' (empty). A 'Select' button is located next to the 'Customize Setting' field.

Step 15 For mode 7 and mode 21, you can lock the secure (private) partition by default. If you wish to do so, please tick the “Lock Partition” box and enter a default password.



The screenshot shows the 'Advance' settings window. The 'Lock Partition' checkbox is checked and highlighted with a red box, along with the 'Default Password' field. Other visible fields include 'HID PID' (EE27), 'Number of retries' (empty), 'AES Enable' (unchecked), and 'Customize Setting' (empty). A 'Select' button is located next to the 'Customize Setting' field.

Step 16 Customize setting is for Phison use only. Please leave it blank.



The screenshot shows the 'Advance' settings window. The 'Customize Setting' field is highlighted with a red box. Other visible fields include 'HID PID' (EE27), 'Number of retries' (empty), 'AES Enable' (unchecked), 'Lock Partition' (checked), and 'Default Password' (empty). A 'Select' button is located next to the 'Customize Setting' field.

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A2. Setting “F1-1” Page

Parameters Editor F1 - 2.0.0.3

Controller F1-1 F1-2 Special

Customer Data

☒ Load Default

VID (0x) 13FE (ex: 0D7D) Manufacturer: USB (max. 8 Bytes)

PID (0x) 1E27 (ex: 1400) Product: DISK CD (max. 16 Bytes)

Inquiry Revision: PMAP (max. 4 Bytes)

Configuration:

flash detect

☒ Auto detect

Device count:

Flash: MBytes

Flash count:

Serial Number (SN)

Start SN: (0-)

End SN: (-0xFFFF)

PC Number:

Mode: 21

1 private removable + 1 CD-ROM

Public Area

Volume Label:

☐ Source Image Select

Privacy Area

Secure Volume Label: USB DISK CD

☐ Source Image2 Select

Preformat

☐ Preformat

Load Save Save As

Step 1 You will see the main screen window as show above. The default value will be automatically shown, if you do not wish to use the default values, please un-tick the “Load Default” box and then enter the customised information and necessary values in each box.

Controller F1-1 F1-2 Special

Customer Data

☒ Load Default

VID (0x) 13FE (ex: 0D7D) Manufacturer: USB (max. 8 Bytes)

PID (0x) 1E27 (ex: 1400) Product: DISK CD (max. 16 Bytes)

Inquiry Revision: PMAP (max. 4 Bytes)

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Load Default Tick the “Load Default” box if you want to use the default values of VID-PID, Manufacture name and Product Name. (refer to appendix)

VID **Vendor ID** (4 digits long)
Enter a 4 digits Hexadecimal value.
The VID is a registered ID, which is given by USB-IF organization. In order to obtain a VID for a company, the company must register with USB-IF organization and pay an annual fee to the organization to maintain this VID.

PID **Product ID** (4 digits long)
Enter a 4 digits Hexadecimal value.
You can define your own PID for each of the product line, as long as you have your own VID. **If you do not have your own VID**, and you are **using Phison’s VID**, then **the PID cannot be changed**.

Manufacturer **Manufacturer Name** (maximum 8 characters)
You can enter a manufacturer name here or leave it blank. Please note, “spaces” are count as 1 character.

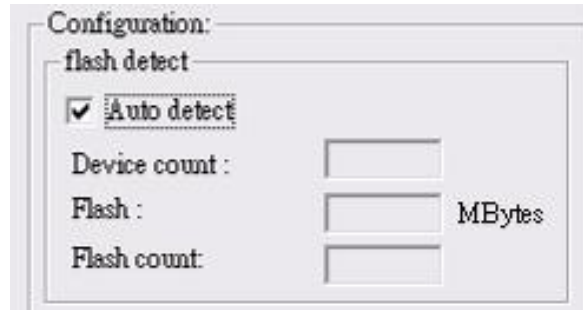
Product **Product Name** (maximum 16 characters)
You can enter a product name of your choice. Please note, “spaces” are count as 1 character.

Inquiry Revision **Inquiry Revision** (maximum 4 digits)
Please do not modify this value, unless for special use.
Please leave it as default value “PMAP”.

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Step 2 Enter flash memory information.



Auto Detect Select auto detect to allow MPTool to automatically detect the flash capacity. We recommend you use the “Auto Detect” function during production.

Device Count Enter number of devices (or drives) appeared in “My Computer”.

Flash Enter the capacity of a single flash memory used.

Flash Count Enter the number of flash memory pieces used.

Step 3 Setting Serial Number.

Phison’s USB product all had a unique 12 digits serial number.

Serial Number Example : AABCDDEEFFFF

AA Customer Code, given by Phison and cannot be changed.

B Year in hexadecimals, from computer date. (e.g. 2008 = 8)

C Month in hexadecimals, from computer date.
(e.g. September = 9, October = A, November = B, December = C)

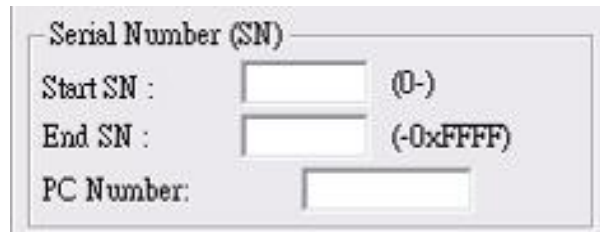
DD Day in hexadecimals, from computer date. (e.g. 9th = 09, 10th = 0A)

EE Computer (PC) number in hexadecimals. For each production PC, please assign a number.

FFFF Serial number in hexadecimals.

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A screenshot of a software window titled "Serial Number (SN)". It contains three input fields: "Start SN :" with a dropdown menu showing "(0-)", "End SN :" with a dropdown menu showing "(-0xFFFF)", and "PC Number:" with a text input field.

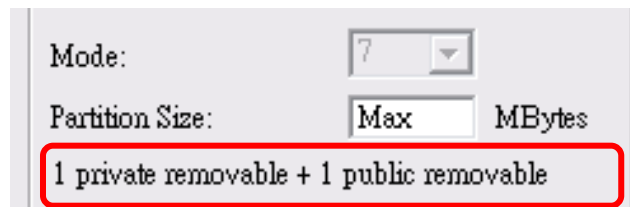
Start Serial Number Set the starting serial number. You can leave it blank, and the program will use the next serial number from last production.

End Serial Number Set the ending serial number. We recommend just leave it blank.

PC Number Set the PC number for each production PC used.

Step 4 Other settings.

Mode When mode is selected in the previous section, the partition information of that mode will shown.



A screenshot of a software window showing "Mode:" with a dropdown menu set to "7". Below it, "Partition Size:" is set to "Max" MBytes. At the bottom, a red-bordered box contains the text "1 private removable + 1 public removable".

You will need to set the “**Public Partition**” size (mode7 & 8 only); default value is set to its maximum capability, and the remaining capacity is dedicated to “Secure Partition”.

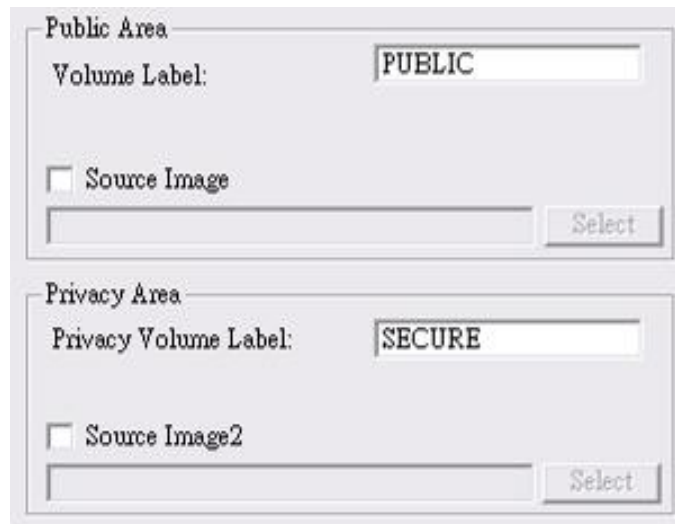
PS : When you select different modes, a short description of the mode’s characteristic will shown as circled in RED above.

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Step 5 Set Volume Labels.

Maximum 11 characters in **capital letters**. Spaces are also count as 1 character. Please set the volume label for both public partition and secure partition (mode 4 / mode 7 / mode 8 only).



PS : Please disregard “Source Image” function, it is for Phison internal use only, if this function will apply, Phison will inform separately of how to use this function.

Step 6 Preformat (low-level-format).

Normally pretest (preformat) is carried out automatically by firmware with the brand new flash memory used. However, in some cases, pretest may be necessary. There are two ways to do pretest, one is by hardware, and the other is using the software.

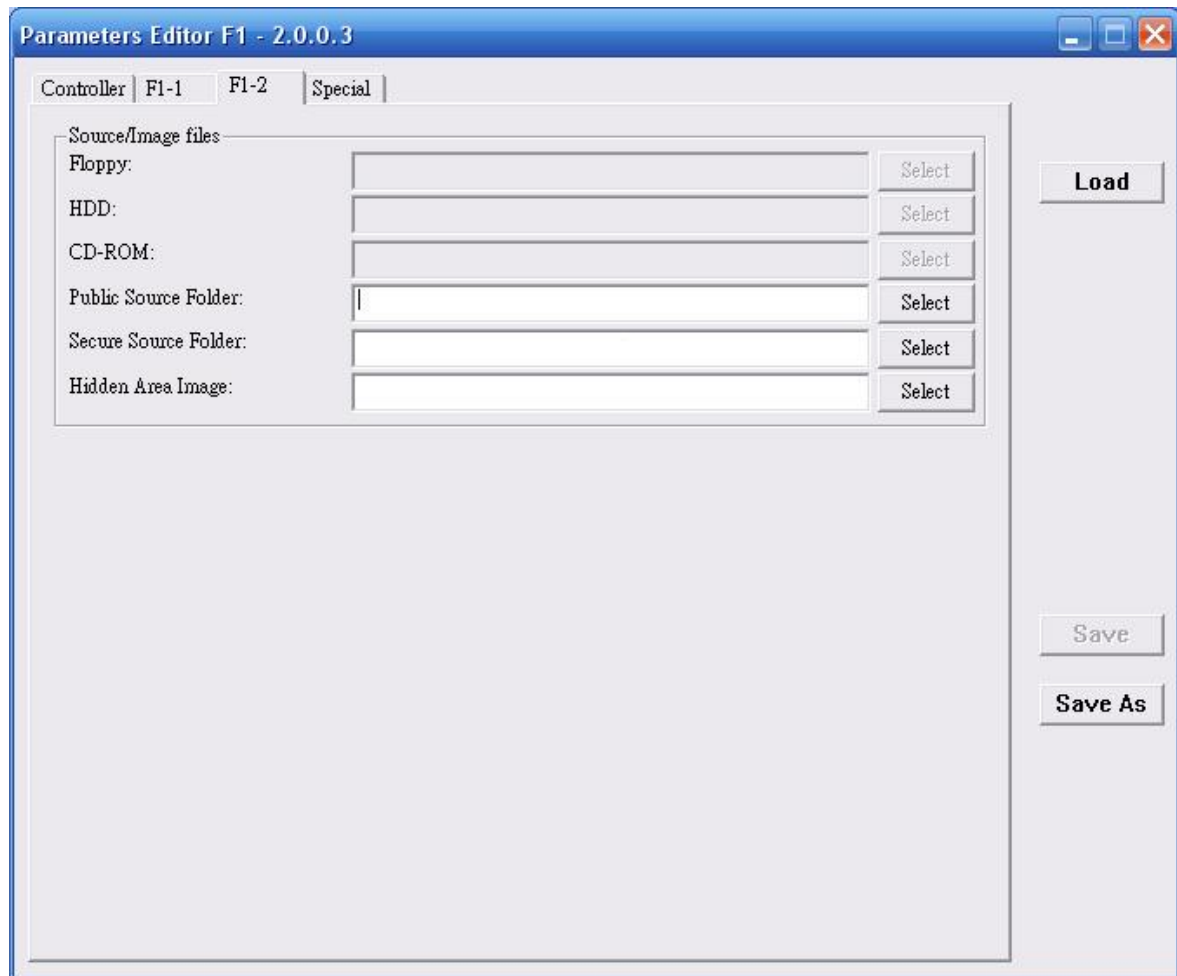
Simply tick the “Preformat” box to do pretest (low-level-format) during testing.



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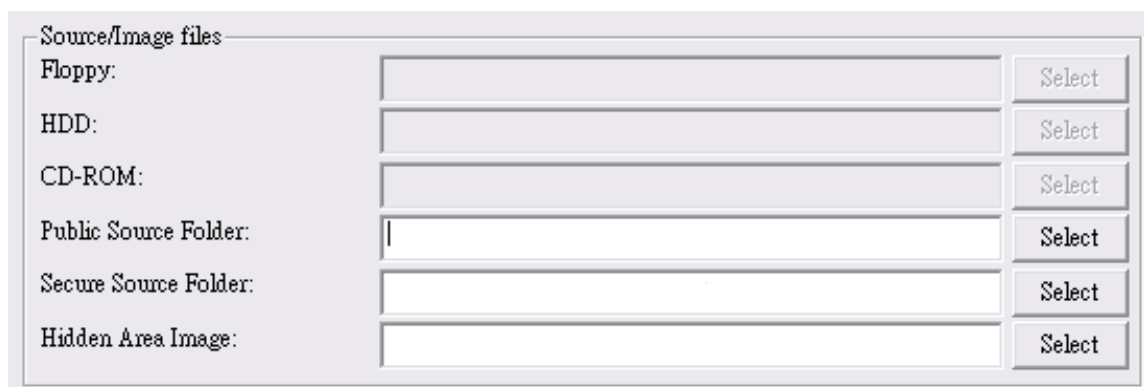
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A3. Setting "F1-2" Page



Step 1 Source file or image files.

These settings are related to mode. When you select a mode, only the appropriate boxes will become active, others will be marked out.



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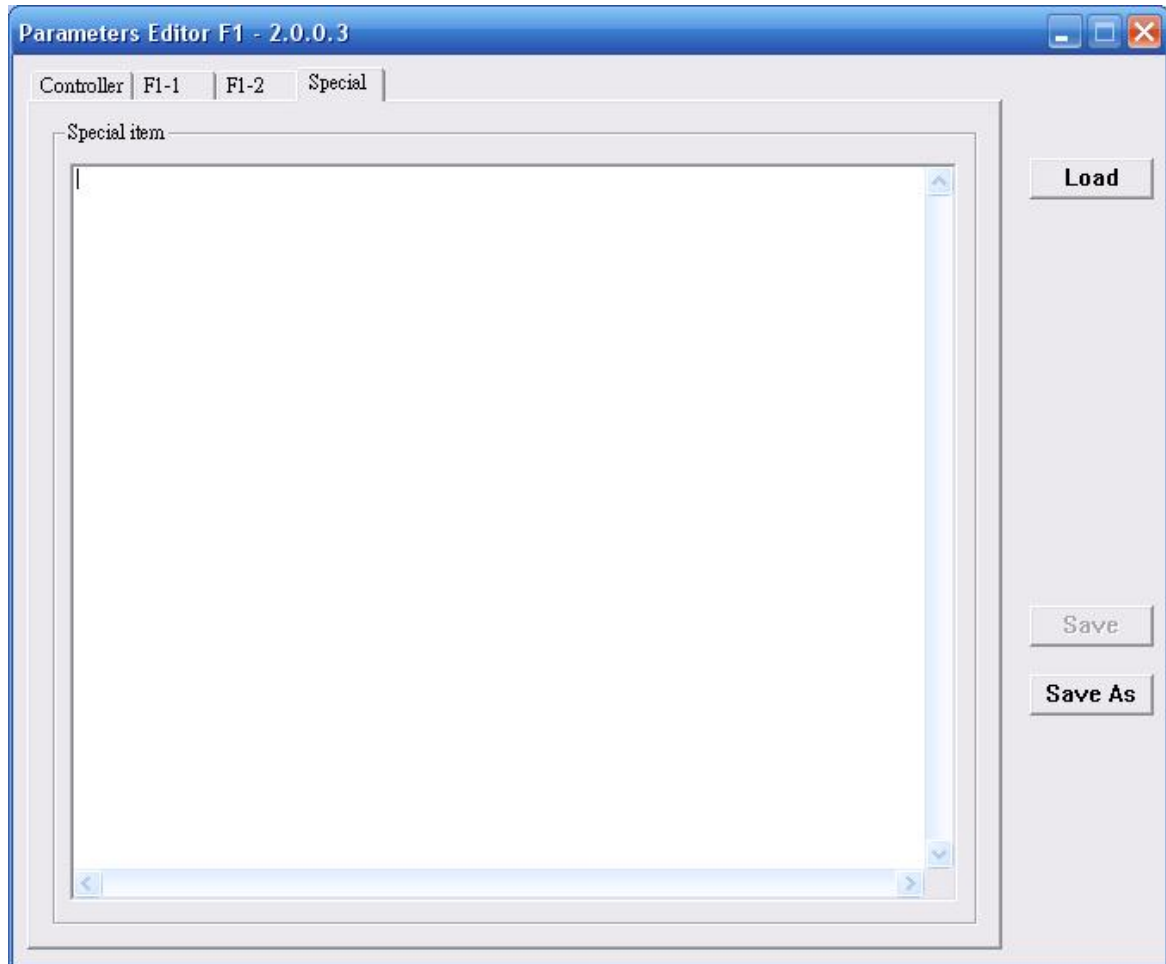
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Floppy	Active when mode 4 is selected. Choose the floppy image file.
HDD	Active when mode 14 is selected. Choose the HDD image file.
CD-ROM	Active when mode 14 or mode 21 is selected. Choose the CD-ROM image file.
Public Source Folder	Active when mode 3 / 7 / 8 is selected. Put all the data which you wish to copy on to the public partition in a folder, then type/select the location of the data folder. (eg: C:\Data1\) <i>PS : Do not enter the file name, just the location of the folder.</i>
Privacy Source Folder	Active when mode 4 / 7 / 8 / 14 / 21 is selected. Put all the data which you wish to copy on to the secure (private) partition in a folder, then type/select the location of the data folder. (eg: C:\Data2\) <i>PS : Do not enter the file name, just the location of the folder.</i>
Hidden Area Image	If a hidden area will be created and data will be loaded into the hidden area, then choose the image file for hidden area.

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A4. Setting “Special” Page



This section is designed for special function use. Phison will inform separately how to enter the function here, if some special function will apply.

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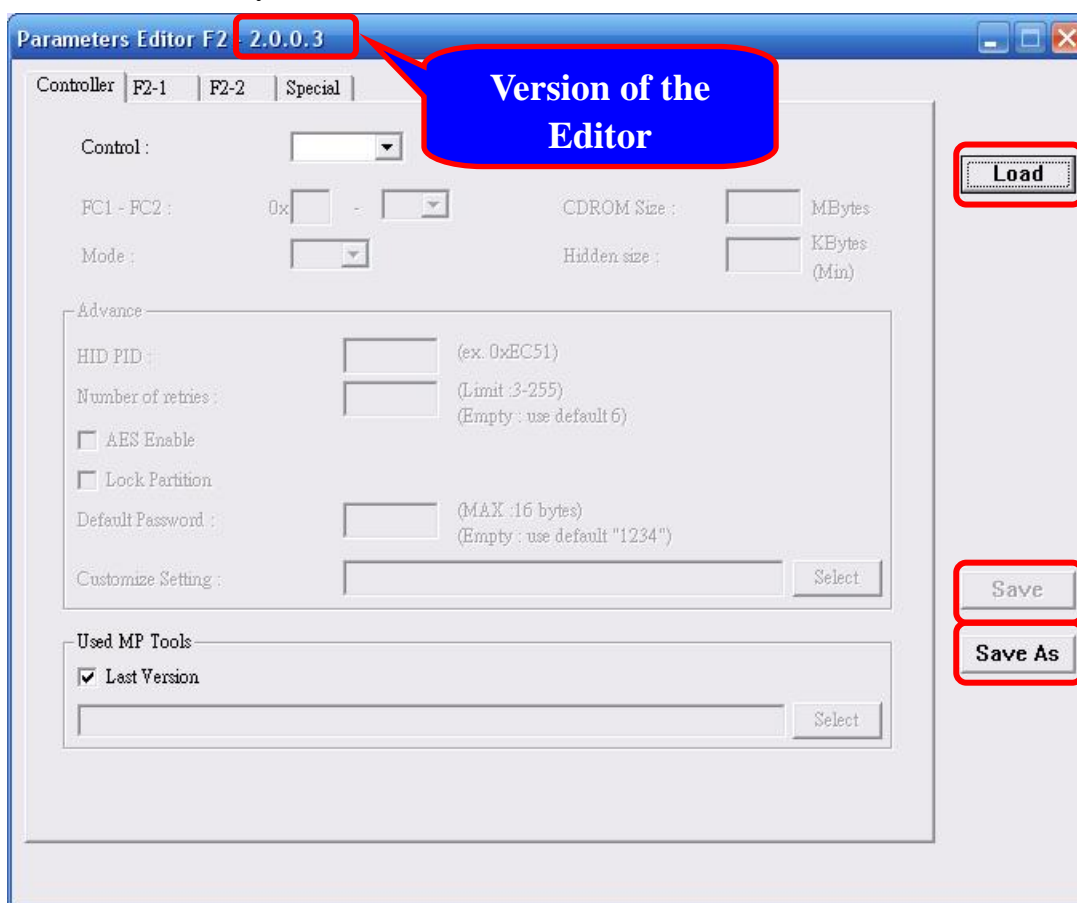
B. Setting up “F2.ini” File with ParamEdt

The main purpose of this file is, to compare the information entered and the information stored in the device, and make sure the stored information were correct. The information entered here should be the information expected after F1 production.

B1. Setting “F2-Controller” Page

You must set up a correct “F2.ini” file before proceed with F2 production process.

Step 1 Start the parameter editing software “ParamEdt-F2.exe” by double clicking it.
(file name may be different)



Load Load an old “F2.ini” file.

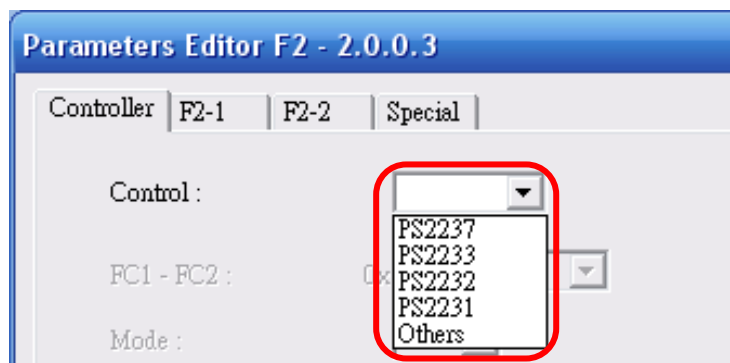
Save This function is only available when you made changes to an old (existing) file and you want to save the new contents using the same old file name.

Save As When you are creating a new file or if you made changes to an old file, but you want to save it using different file name.

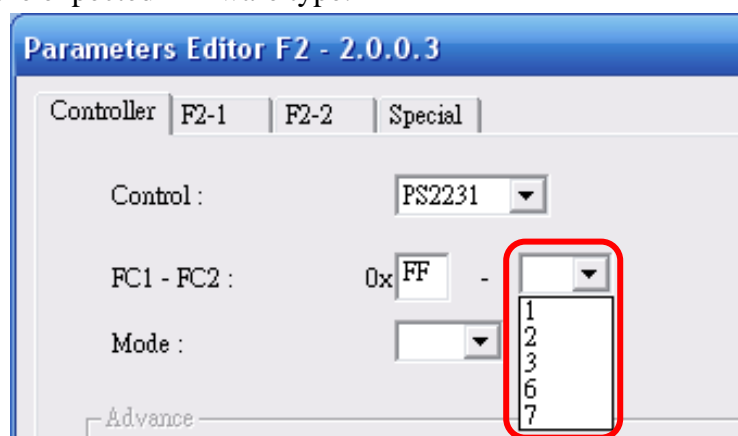
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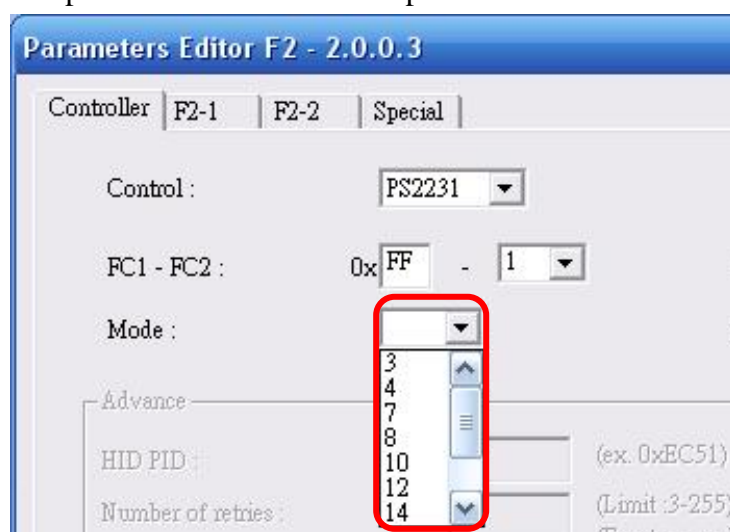
- Step 2** Select the controller used. If the controller you are using is not on the list, then please select “Others”.



- Step 3** Select the expected firmware type.



- Step 4** Select the expected mode that the final product should have.

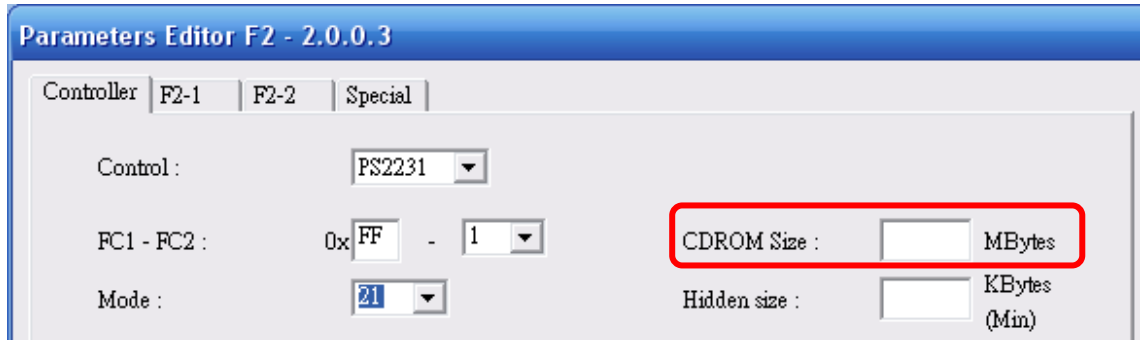


Note : The availability of mode will depend on firmware, certain modes can only be supported by specific firmware.

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Step 5 For **Mode 21** only, enter the expected size for the CD-Rom partition.



Parameters Editor F2 - 2.0.0.3

Controller: F2-1 | F2-2 | Special

Control: PS2231

FC1 - FC2: 0x FF - 1

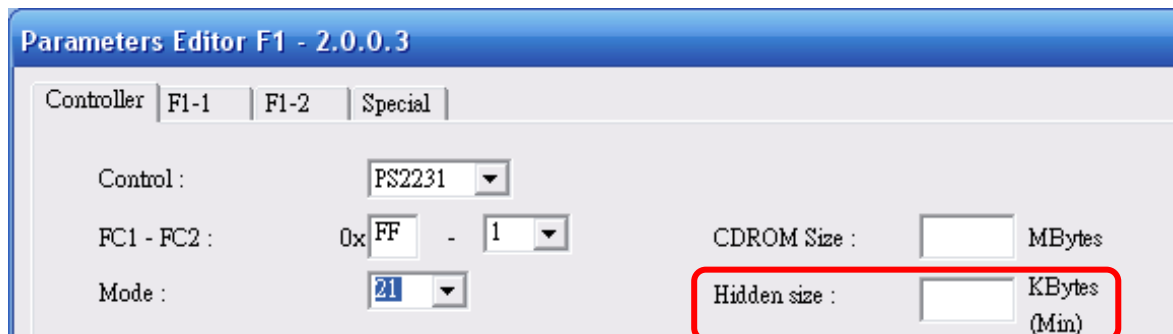
Mode: 21

CDROM Size: [] MBytes

Hidden size: [] KBytes (Min)

Step 6 Enter the expected capacity for hidden area.

PS : for PS2135 & PS2231 FF-03 firmware, you must enter a size for hidden area, if you do not need the hidden area, please enter "Min", to use the minimum capacity (16KB).



Parameters Editor F1 - 2.0.0.3

Controller: F1-1 | F1-2 | Special

Control: PS2231

FC1 - FC2: 0x FF - 1

Mode: 21

CDROM Size: [] MBytes

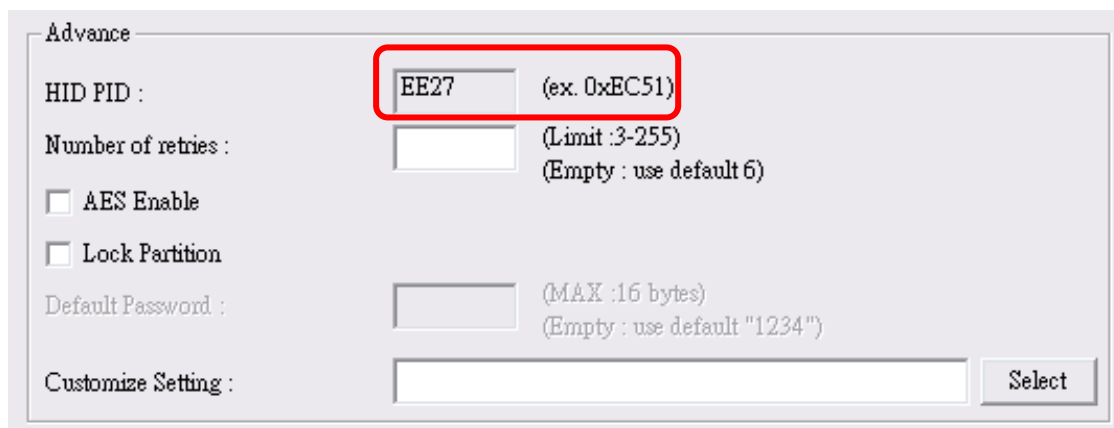
Hidden size: [] KBytes (Min)

Step 7 The following only apply to AES type (FF-03) of firmware, if you are not using this type of firmware, please go to section B2 directly.

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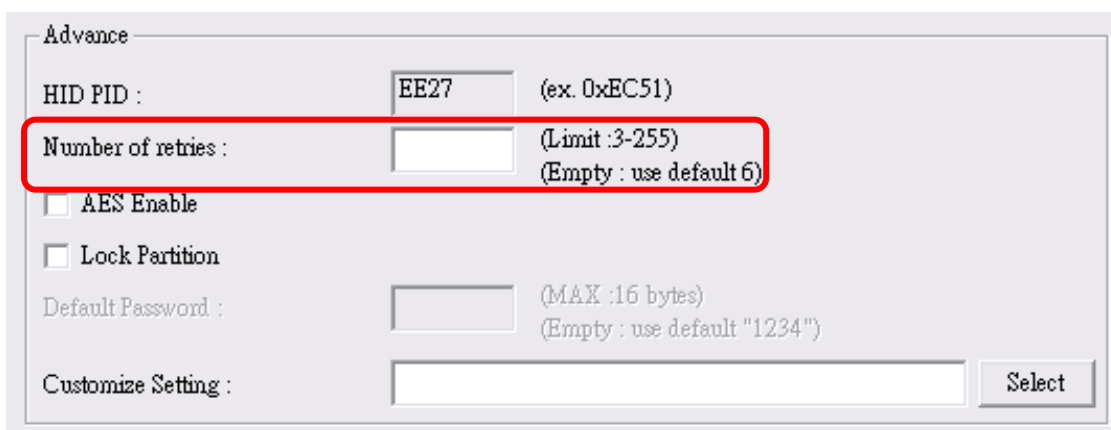
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- Step 8** Enter the expected HID PID number. The default value will be shown automatically, if need to enter customised HID-PID value, please un-tick the “Load Default” box in section B2.



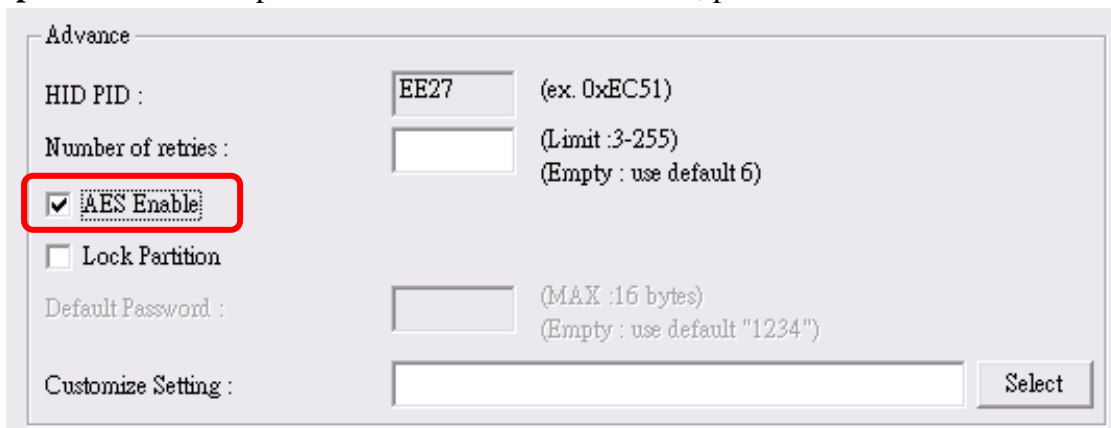
The screenshot shows the 'Advance' settings window. The 'HID PID' field is highlighted with a red box and contains the value 'EE27'. To its right, there is a label '(ex. 0xEC51)'. Below this, the 'Number of retries' field is empty, with a label '(Limit :3-255)' and '(Empty : use default 6)'. There are two checkboxes: 'AES Enable' and 'Lock Partition', both of which are unchecked. Below these is the 'Default Password' field, which is empty, with a label '(MAX :16 bytes)' and '(Empty : use default "1234")'. At the bottom, there is a 'Customize Setting' field and a 'Select' button.

- Step 9** Enter the expected retry number for security software; so when the retry number is reached, the device will get formatted and the data gets destroyed. The default value is set to 6 times.



The screenshot shows the 'Advance' settings window. The 'Number of retries' field is highlighted with a red box and is empty. To its right, there is a label '(Limit :3-255)' and '(Empty : use default 6)'. The 'HID PID' field contains 'EE27' with a label '(ex. 0xEC51)'. The 'AES Enable' and 'Lock Partition' checkboxes are unchecked. The 'Default Password' field is empty with a label '(MAX :16 bytes)' and '(Empty : use default "1234")'. At the bottom, there is a 'Customize Setting' field and a 'Select' button.

- Step 10** If the finish product should have AES function, please tick the “AES Enable” box.

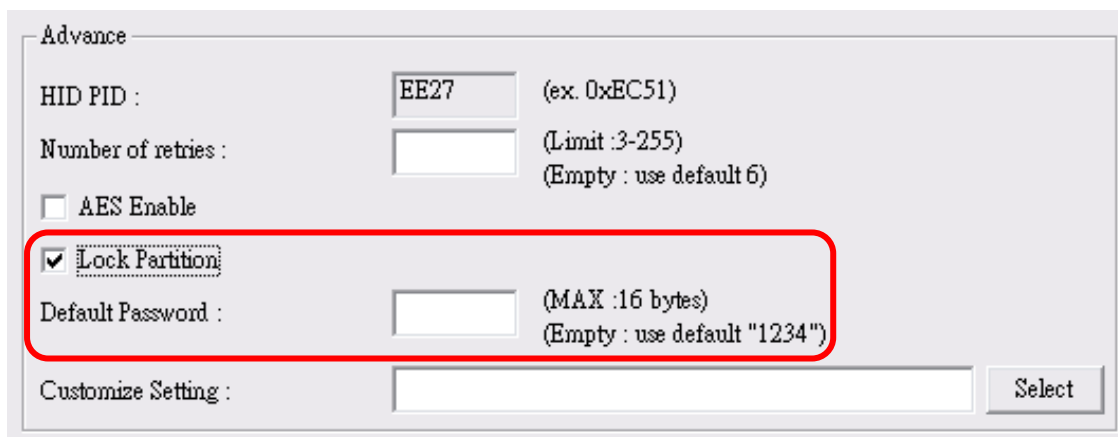


The screenshot shows the 'Advance' settings window. The 'AES Enable' checkbox is highlighted with a red box and is checked. The 'Number of retries' field is empty, with a label '(Limit :3-255)' and '(Empty : use default 6)'. The 'HID PID' field contains 'EE27' with a label '(ex. 0xEC51)'. The 'Lock Partition' checkbox is unchecked. The 'Default Password' field is empty with a label '(MAX :16 bytes)' and '(Empty : use default "1234")'. At the bottom, there is a 'Customize Setting' field and a 'Select' button.

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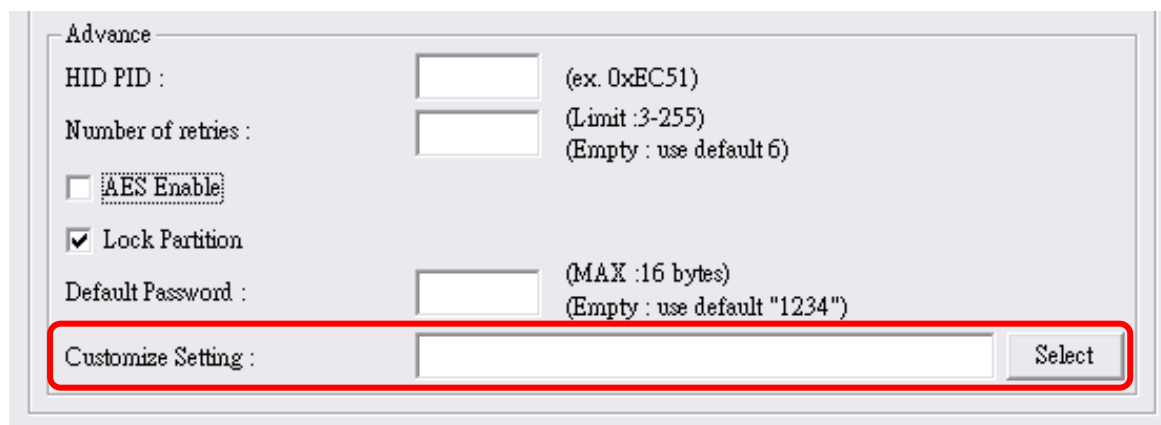
Step 11 For mode 7 and mode 21, if the secure (private) partition should be locked by default, then please tick the “Lock Partition” box and enter the default password.



The screenshot shows the 'Advance' settings window. The 'Lock Partition' checkbox is checked and highlighted with a red rectangle. The 'Default Password' field is empty. The 'Customize Setting' field is also empty, and the 'Select' button is visible.

Advance		
HID PID :	EE27	(ex. 0xEC51)
Number of retries :		(Limit :3-255) (Empty : use default 6)
<input type="checkbox"/> AES Enable		
<input checked="" type="checkbox"/> Lock Partition		
Default Password :		(MAX :16 bytes) (Empty : use default "1234")
Customize Setting :		Select

Step 12 Customize setting is for Phison use only. Please leave it blank.



The screenshot shows the 'Advance' settings window. The 'Customize Setting' field is highlighted with a red rectangle. The 'Lock Partition' checkbox is checked. The 'Default Password' field is empty. The 'Select' button is visible.

Advance		
HID PID :		(ex. 0xEC51)
Number of retries :		(Limit :3-255) (Empty : use default 6)
<input type="checkbox"/> AES Enable		
<input checked="" type="checkbox"/> Lock Partition		
Default Password :		(MAX :16 bytes) (Empty : use default "1234")
Customize Setting :		Select

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B2. Setting “F2-1” Page

The screenshot shows the 'Parameters Editor F2 - 2.0.0.3' window with the 'F2-1' tab selected. The window is divided into several sections:

- Controller:** F2-1, F2-2, Special
- Customer Data:**
 - ☒ Load Default
 - VID (0x): 13FE (ex: 0D7D)
 - PID (0x): 1E21 (ex: 1400)
 - Manufacturer: (max. 8 Bytes)
 - Product: USB DISK Pro (max. 16 Bytes)
 - Inquiry Revision: PMAP (max. 4 Bytes)
- Firmware Version:** (ex: 1.05.10)
- Firmware Released Date:** Year, Month, Day
- FC1:** 0x FF
- FC2:** 0x 3
- Configuration:**
 - flash detect
 - ☒ Auto detect
 - Device count: (max. 16)
 - Flash: (max. 16) MBytes
 - Flash count: (max. 16)
 - Mode: 7
 - Partition Size: Max MBytes
 - 1 private removable + 1 public removable
- Volume Label:** PUBLIC
- ☐ Source Image (Select)
- Secure Volume Label:** SECURE
- ☐ Source Image2 (Select)

Buttons on the right: Load, Save, Save As.

Step 1 You will see the main screen window as show above. Enter the expected information (value) in each box. The default value will be loaded automatically after you have selected a mode in section B1. Un-tick the “Load Default” box to enter customised information.

This close-up shows the 'Customer Data' section of the 'Parameters Editor F2 - 2.0.0.3' window. The 'Load Default' checkbox is checked. The fields are populated with default values: VID (0x) 13FE, PID (0x) 1E21, Product: USB DISK Pro, and Inquiry Revision: PMAP. The maximum byte limits are shown in parentheses next to each field.

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Load Default Tick the “Load Default” box if you expect the default Manufacture Name and Product Name will be used.
(refer to appendix)

VID **Vendor ID** (4 digits long)
Enter a 4 digits Hexadecimal value.

PID **Product ID** (4 digits long)
Enter a 4 digits Hexadecimal value.

Manufacturer **Manufacturer Name** (maximum 8 characters)
Enter expected manufacturer name here or **enter “NA” if you don’t want to check the manufacture name.** Please note, “spaces” are count as 1 character.

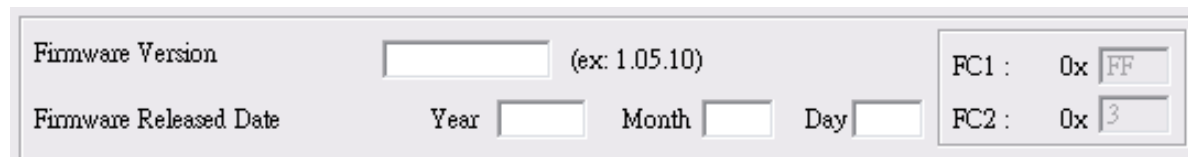
Product **Product Name** (maximum 16 characters)
Enter expected product name here or **enter “NA” if you don’t want to check the product name.** Please note, “spaces” are count as 1 character.

Inquiry Revision **Inquiry Revision** (maximum 4 digits)
Enter expected inquiry revision. Default value=“PMAP”.

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Step 2 Enter firmware information.



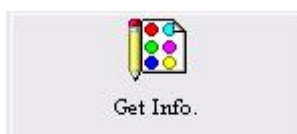
The screenshot shows a software window for entering firmware information. It contains two rows of input fields. The first row is for 'Firmware Version' with a text box and an example '(ex: 1.05.10)'. The second row is for 'Firmware Released Date' with separate text boxes for 'Year', 'Month', and 'Day'. To the right of these fields are two hexadecimal input boxes labeled 'FC1' and 'FC2', each with a '0x' prefix and a numeric keypad.

Firmware Version

Enter the expected firmware version. **Enter “NA”, if you do not wish to check this information.**

Firmware Release Date

Enter the firmware date. Firmware date can be obtained by checking with Phison’s engineer or FAE, or simply click “Get Info.” button from the main program of the MPTool (F1 or F2), and read back this information. **Enter “NA”, if you do not wish to check this information.**

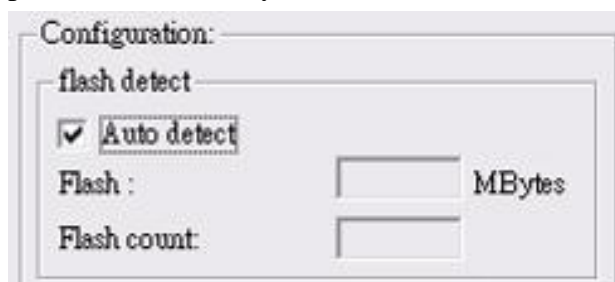


Year : Enter the last digit of the year. (eg: 2008, just enter 8)

Month : Enter month.

Day : Enter day.

Step 3 Enter the expected flash memory information.



The screenshot shows a 'Configuration' dialog box. It has a section titled 'flash detect' which contains a checked checkbox labeled 'Auto detect'. Below this, there are two input fields: 'Flash :' followed by a text box and the unit 'MBytes', and 'Flash count:' followed by a text box.

Auto Detect

Select auto detect to allow MPTool to automatically detect the flash capacity. We recommend you use the “Auto Detect” function during production.

Flash

Enter the capacity of a single flash memory used.

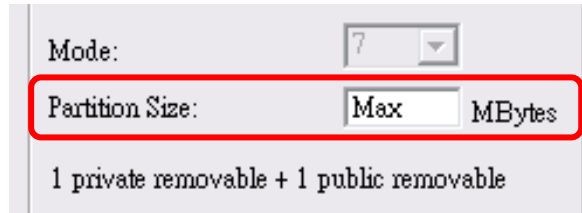
Flash Count

Enter the number of flash memory pieces used.

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Step 4 Other settings.



Mode: 7

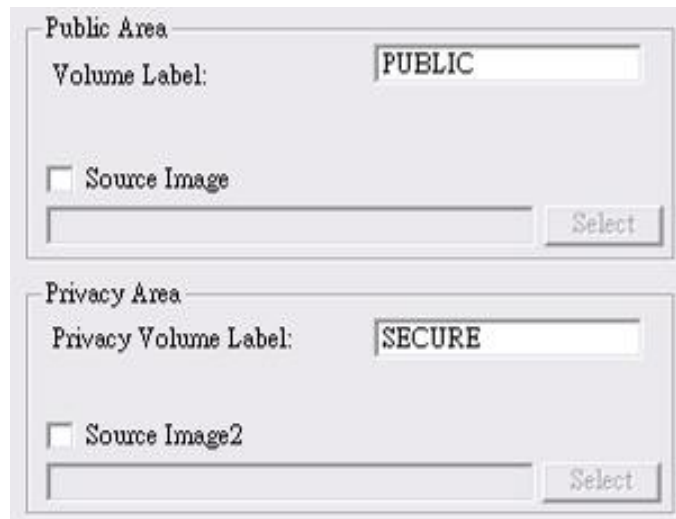
Partition Size: Max MBytes

1 private removable + 1 public removable

When mode 7 or mode 8 is selected. Extra “Partition Size” information will appear. Enter the expected “**Public Partition**” size; default value is set to maximum capability, and the remaining capacity is dedicated to “Secure Partition”.

PS : When you select different modes, a short description of the mode’s characteristic will shown.

Step 5 Enter Expected Volume Labels. Maximum 11 characters in **capital letter**. Spaces are also count as 1 character. Enter the volume label for both public partition and secure partition (mode 4 / mode 7 / mode 8 only).



Public Area

Volume Label: PUBLIC

☐ Source Image

Select

Privacy Area

Privacy Volume Label: SECURE

☐ Source Image2

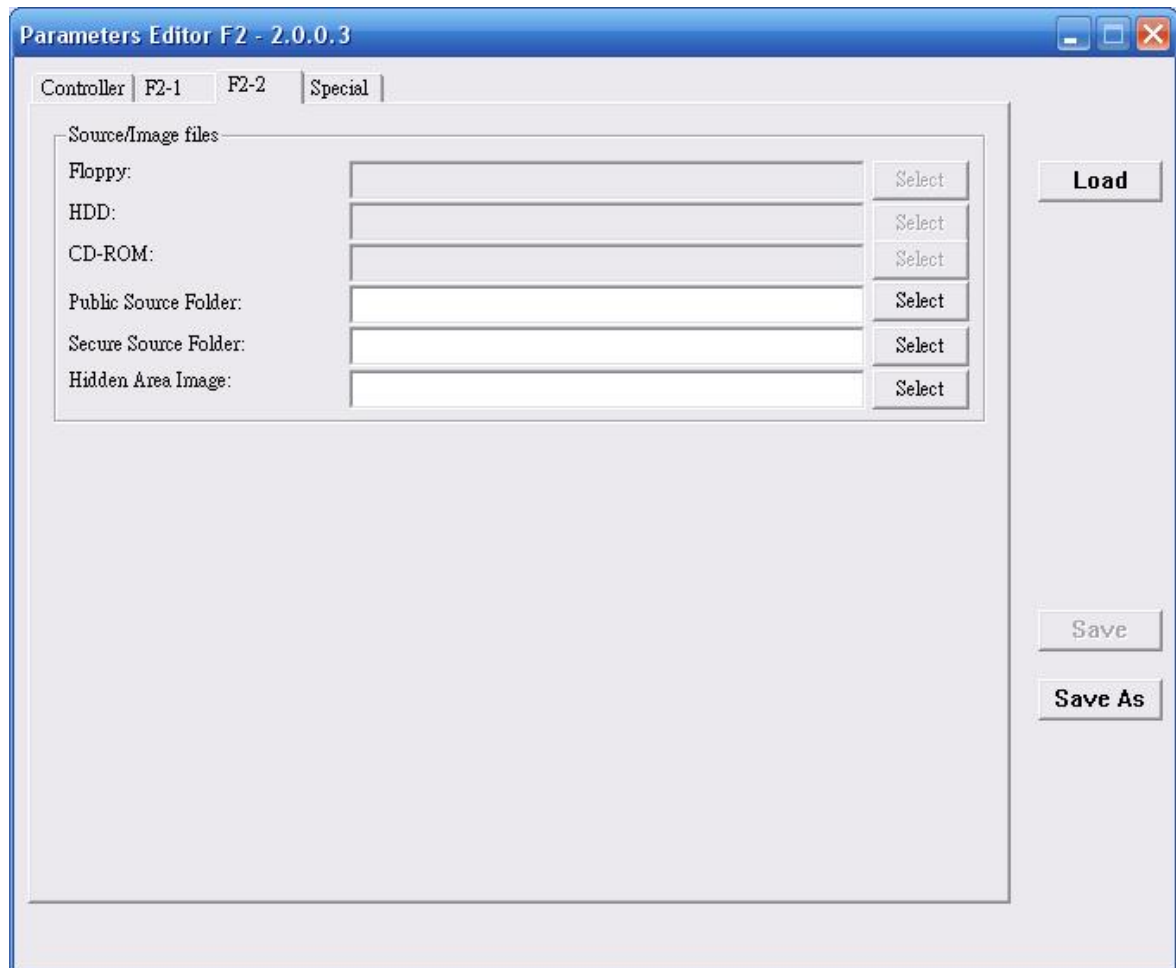
Select

PS : Please disregard “Source Image” function, it is for Phison internal use only, if this function will apply, Phison will inform separately of how to use this function.

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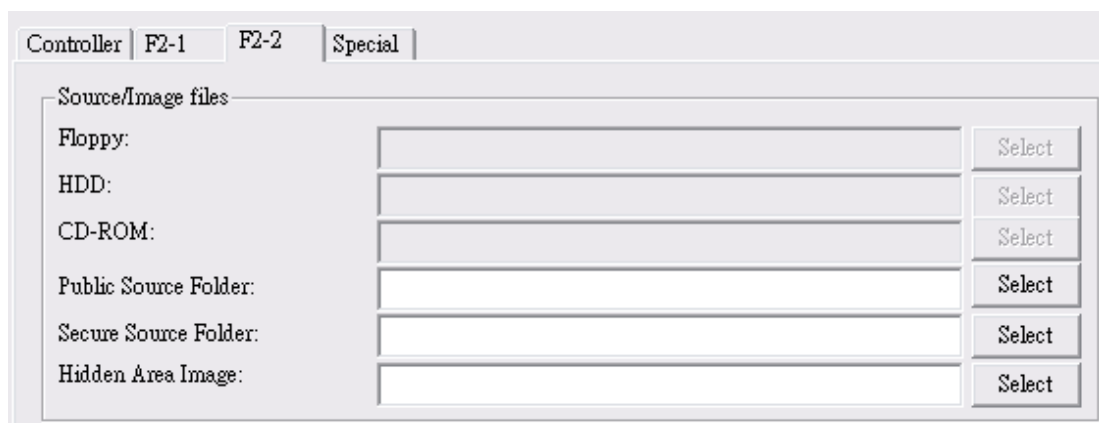
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B3. Setting "F2-2" Page



Step 2 Source file or image files.

These settings are related to mode. When you select a mode, only the appropriate boxes will become active, others will be marked out.



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Floppy

Active when mode 4 is selected.

Choose the expected floppy image file.

HDD

Active when mode 14 is selected.

Choose the expected HDD image file.

CD-ROM

Active when mode 14 or mode 21 is selected.

Choose the expected CD-ROM image file.

Public Source Folder

Active when mode 3 / 7 / 8 is selected.

Put all the data which you expected in the public partition into a folder, then type/select the location of the data folder. (eg: C:\Data1\)

PS : Do not enter the file name, just the location of the folder.

Privacy Source Folder

Active when mode 4 / 7 / 8 / 14 / 21 is selected.

Put all the data which you expected in the secure (private) partition into a folder, then type/select the location of the data folder. (eg: C:\Data2\)

PS : Do not enter the file name, just the location of the folder.

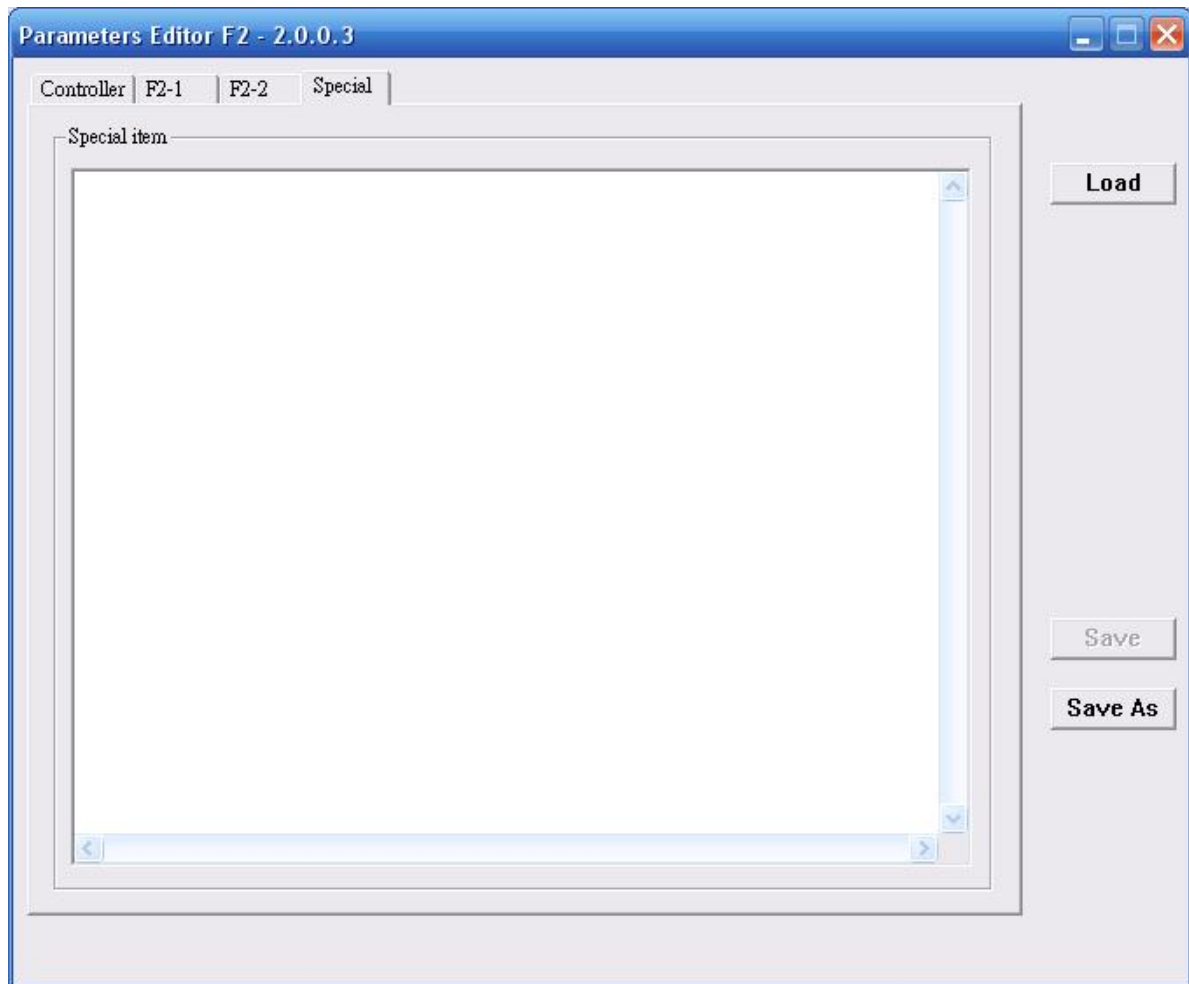
Hidden Area Image

If a hidden area exists and data were stored in the hidden area, then choose the image file for hidden area.

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B4. Setting “Special” Page



This section is designed for special function use. Phison will inform separately how to enter the function here, if some special function will apply.

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C. Appendix

C1. Default Values

Mode	VID	PID	Manufacture Name	Product Name	Label(s)
3	13FE	XX00	(empty)	USB DISK 2.0	USB DISK
4	13FE	XX20	(empty)	USB DISK Pro	UDISK PRO
7	13FE	XX21	(empty)	USB DISK Pro	UDISK PRO
8	13FE	XX23	(empty)	USB DISK Pro	UDISK PRO
14	13FE	XX24	USB	DISK CD	USB DISK CD
21	13FE	XX27	USB	DISK CD	USB DISK CD

C2. Mode Description

- Mode 3 Normal Pen Drive** Total partition : 1 partition
- No software
 - See 1 Removable drive in "My Computer".
- Mode 4 Secure Pen Drive** Total partition : 2 partitions
- With security AP
 - See 1 Floppy drive and 1 Removable drive in "My Computer".
 - If password exist, will lock the Removable drive partition
- Mode 7 Secure Pen Drive** Total partition : 2 partitions
- With security AP
 - See 2 Removable drives in "My Computer".
 - Customer can change the partition sizes by themselves.
 - If password exist, will lock first removable partition.
- Mode 8 Secure Pen Drive** Total partition : 2 partitions
- With security AP
 - See only 1 Removable drive in "My Computer".
 - Customer can change the partition size by themselves.
 - If password exist, will lock the second removable partition.
 - Secure(private) partition can only be access when password exist.

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Mode 14 CD Autorun Total partition : 3 partitions

- Partition 1 CD-Rom partition
- Partition 2 HDD partition
- Partition 3 Removable partition
- See partition 1 & 3 in Windows 2000 / XP
- See partition 2 & 3 in Windows ME
- Partition 1 & 2 are read only partitions.
- Can only see two partitions at the same time.
- Autorun data are stored in partition 1 & 2.



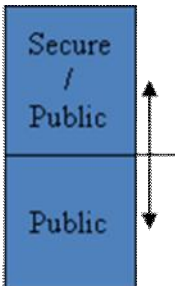
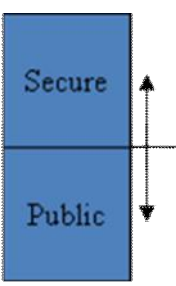
Mode 21 CD Autorun Total partition : 2 partitions

- Partition 1 CD-Rom partition
- Partition 2 Removable partition
- See partition 1 & 2 in Windows 2000 / XP
- Partition 1 is read only partition.
- Autorun data are stored in partition 1.
- Cannot autorun in Windows ME.

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C3. Mode Graphical Description

	Mode 3	Mode 4	Mode 7	Mode 8
Partition	1	2	2	2
Security Function	No	Yes	Yes	Yes
Partition Appearance	Removable	FDD + Removable	Removable + Removable	Removable
Appearance at the same time	1 partition	2 partitions	2 partitions	1 partition
Resize Partition	N/A	No	Yes	Yes
Diagrammatic				

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	Mode 14	Mode 21
Partition	3	2
Security Function	Yes	Yes
Partition Appearance	CD & Removable (2000/XP) or HDD & Removable (98/ME)	CD & Removable (2000/XP) or Removable (98/ME)
Appearance at the same time	2 partitions	1 or 2 partitions
Resize Partition	No	No
Advantage	Can autorun in all Windows OS.	No missing capacity.
Disadvantage	Need to explain to customer about missing capacity.	Can only autorun in Windows 2000 / XP.
Diagrammatic	