

# *USB Mass Production Tool*

# **Parameter Editor**

# **User Manual**

v1.1

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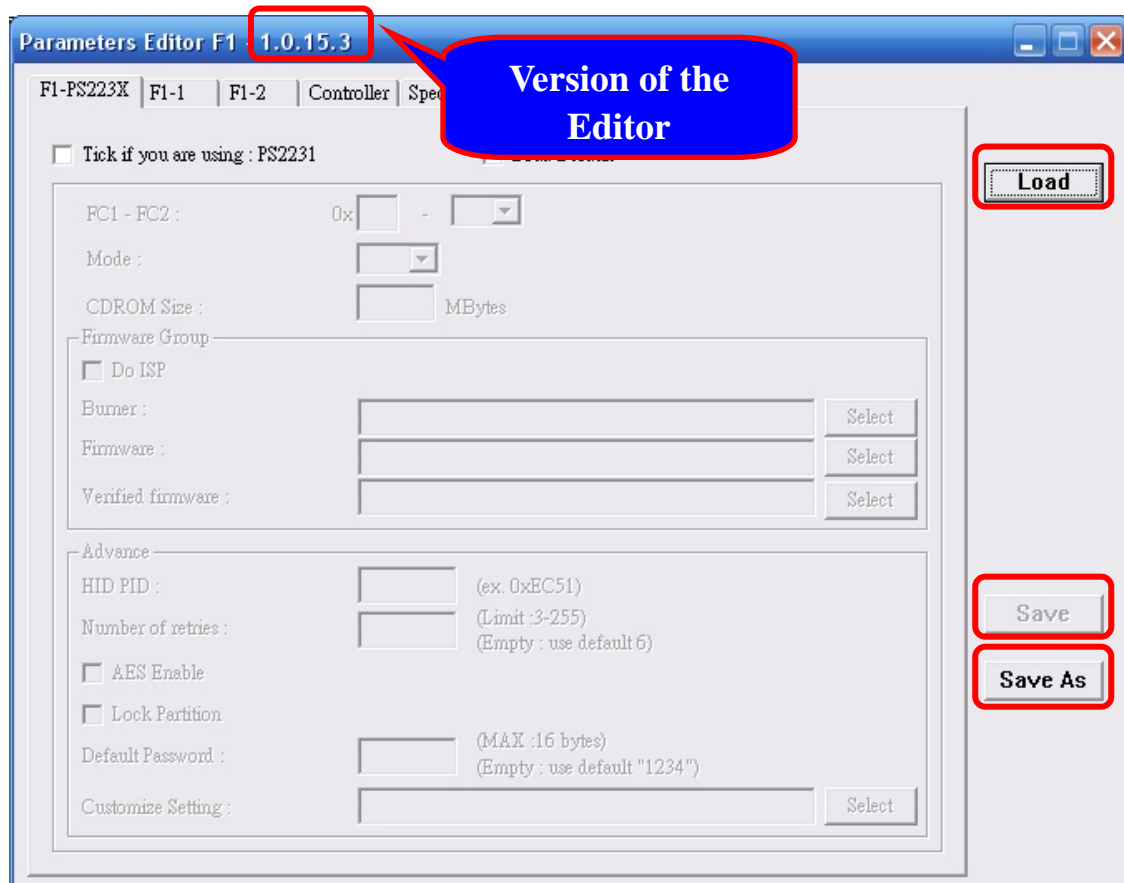
## A. Setting up “F1.ini” File with ParamEdt

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-PS223X” 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.

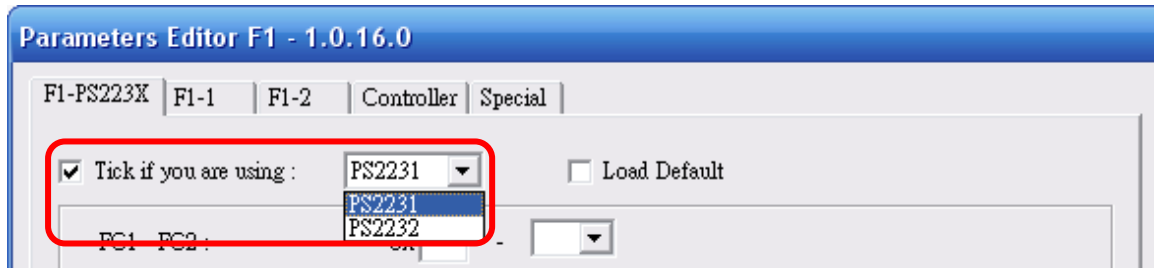
**Save** This function is only available when you made changes to an old (existing) file and you want to save the new contents using the same old file name.

**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.

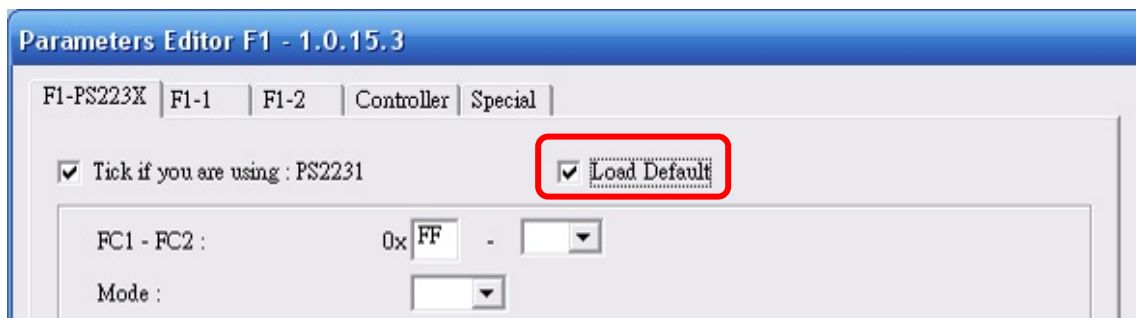
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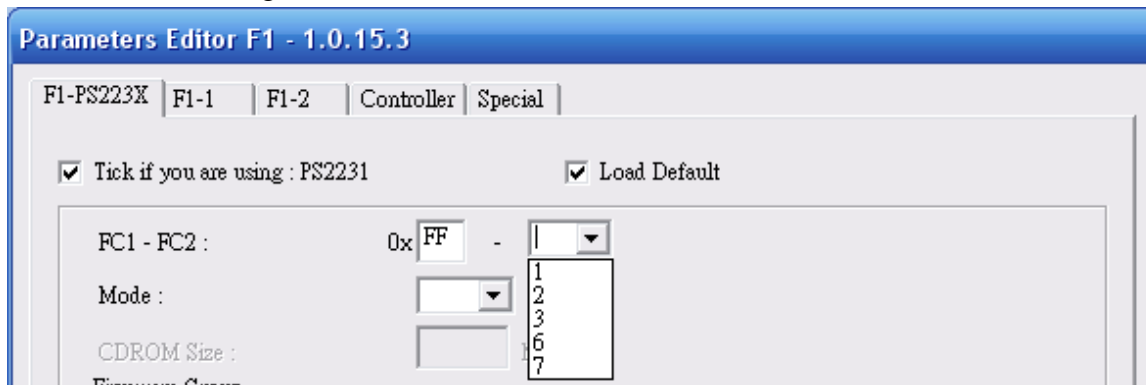
**Step 2** Tick the box if you are using PS223X controller, select the controller you are using, then continue with step 3, otherwise, if you are not using the PS223X controller, do not tick this box and go to section A2.



**Step 3** If you wish to use default "Manufacture Name" & "Product Name", then tick the "Load Default" box, otherwise, do not tick.



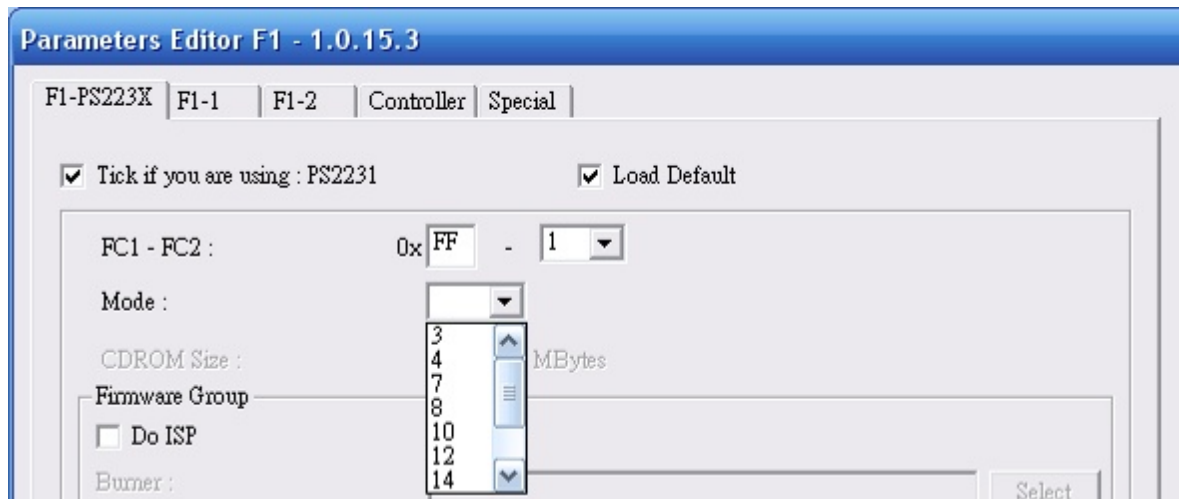
**Step 4** Select the correct firmware type. The firmware type will be notified by Phison when providing the firmware file, if you have any question, please check with Phison's engineer or FAE.



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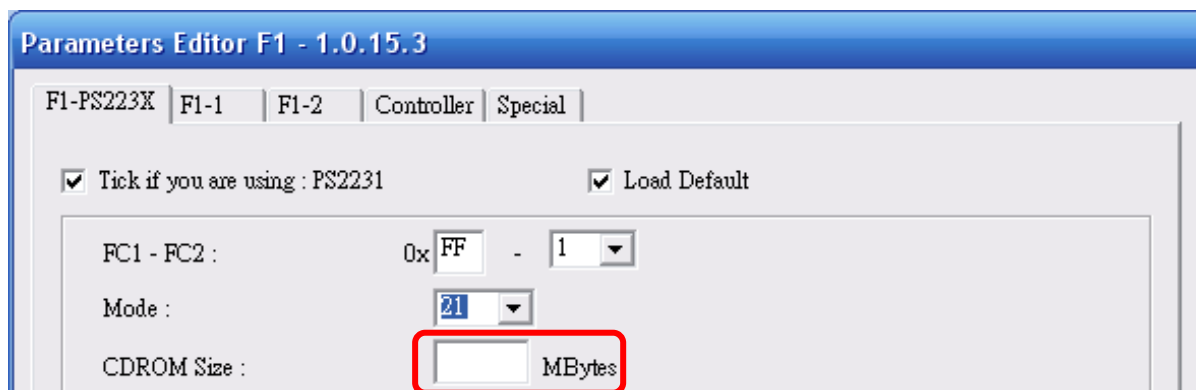
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**Step 5** Select the mode that you want to create. If you are not too sure or have problem selecting the correct mode, please check with Phison's engineer or FAE.



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

**Step 6** 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 7** PS2231 is a 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 call - “ISP”.

Please tick the “ISP” box if you

(a) are using the PS2231 controller for the first time

OR

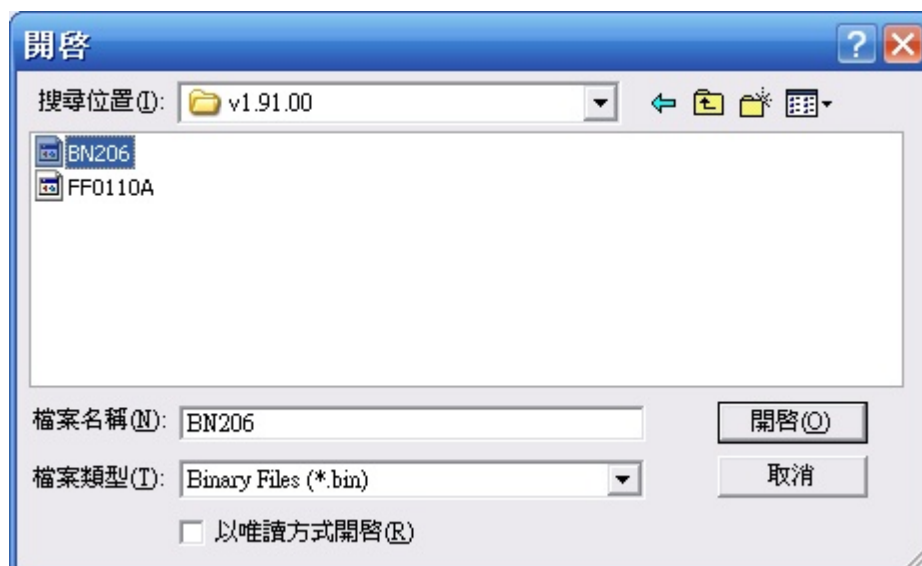
(b) if you have replaced the flash memory

OR

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



**Step 8** If you have not ticked the “Do ISP” box in step 7, then please go to step 12 directly. Otherwise, please select the correct burner file, the burner file name is in the format of “BNXXX.bin”

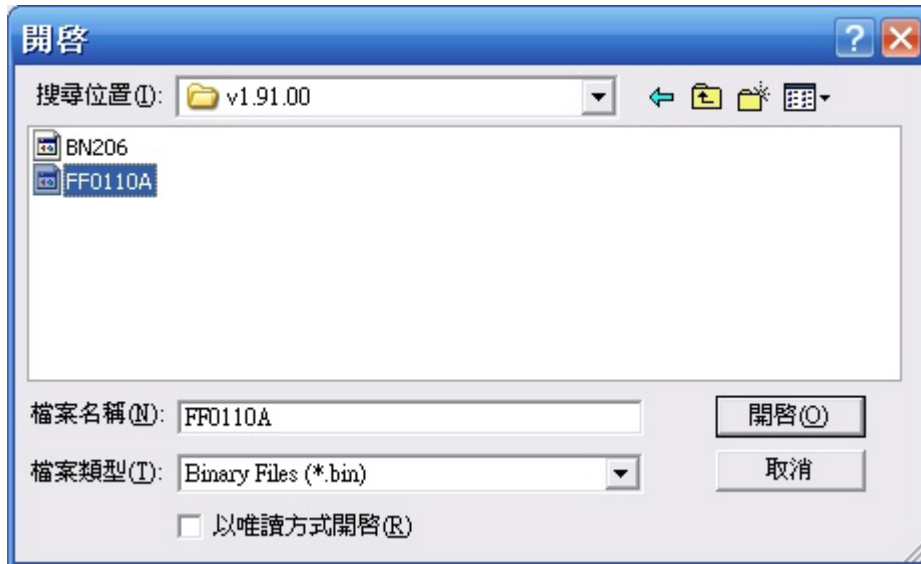


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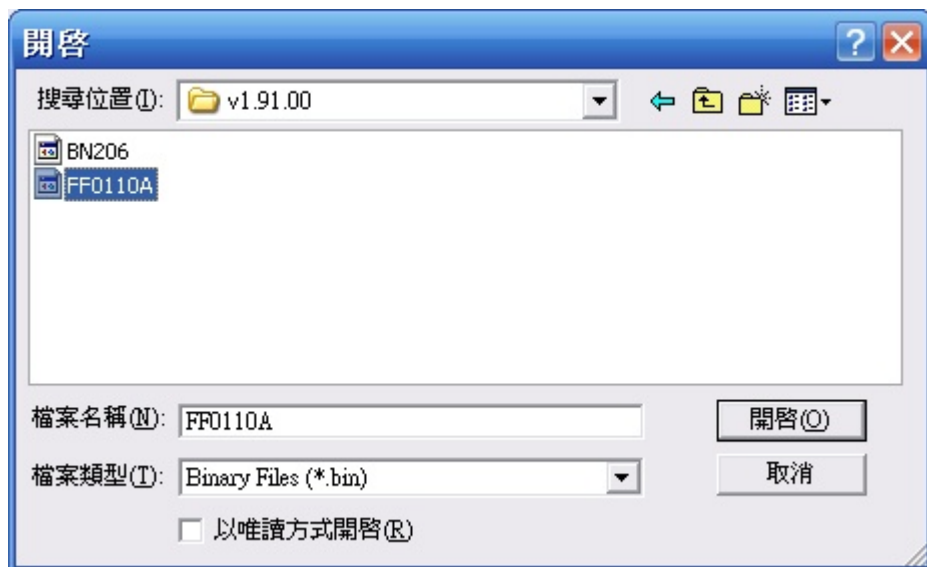
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- Step 9** Select the correct firmware file. The firmware file name is in the format of “FFXXXXX.bin”.



- Step 10** Select the correct firmware for verification use. This should be the same file as the firmware you have selected in step 9.

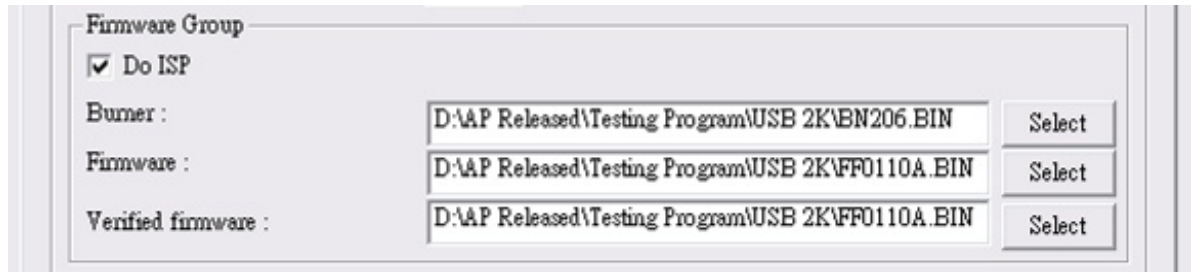


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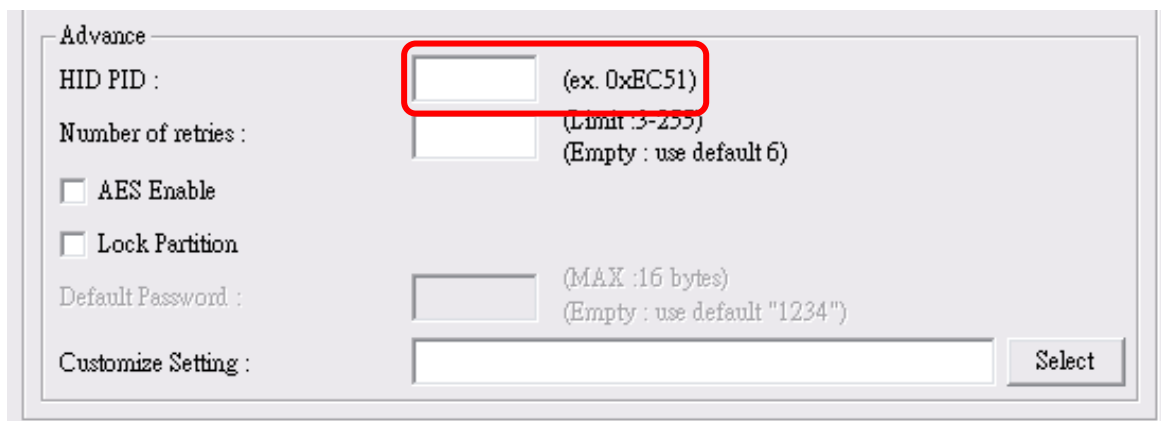
**Step 11** Once you have correctly selected the above 3 files, it should like the following.



The screenshot shows a software window titled "Firmware Group". It contains a checked checkbox for "Do ISP". Below this are three rows, each with a label and a text field followed by a "Select" button. The first row is "Burner :" with the path "D:\AP Released\Testing Program\USB 2K\BN206.BIN". The second row is "Firmware :" with the path "D:\AP Released\Testing Program\USB 2K\FF0110A.BIN". The third row is "Verified firmware :" with the path "D:\AP Released\Testing Program\USB 2K\FF0110A.BIN".

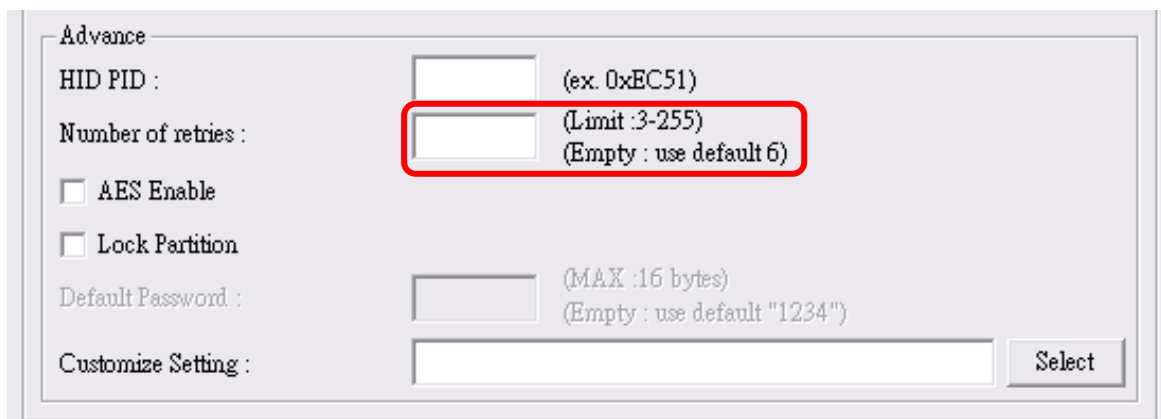
**Step 12** The following only apply to firmware type **FF-03**, if you are not using FF-03 type firmware, please go to section A2 directly.

**Step 13** Enter the HID PID number. Leave it blank to use Phison's default HID PID.



The screenshot shows a software window titled "Advance". It contains several settings: "HID PID :" with a text field and "(ex. 0xEC51)", "Number of retries :" with a text field and "(Limit :3-255) (Empty : use default 6)", two unchecked checkboxes for "AES Enable" and "Lock Partition", "Default Password :" with a text field and "(MAX :16 bytes) (Empty : use default \"1234\")", and "Customize Setting :" with a text field and a "Select" button. A red box highlights the "HID PID" text field.

**Step 14** 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.



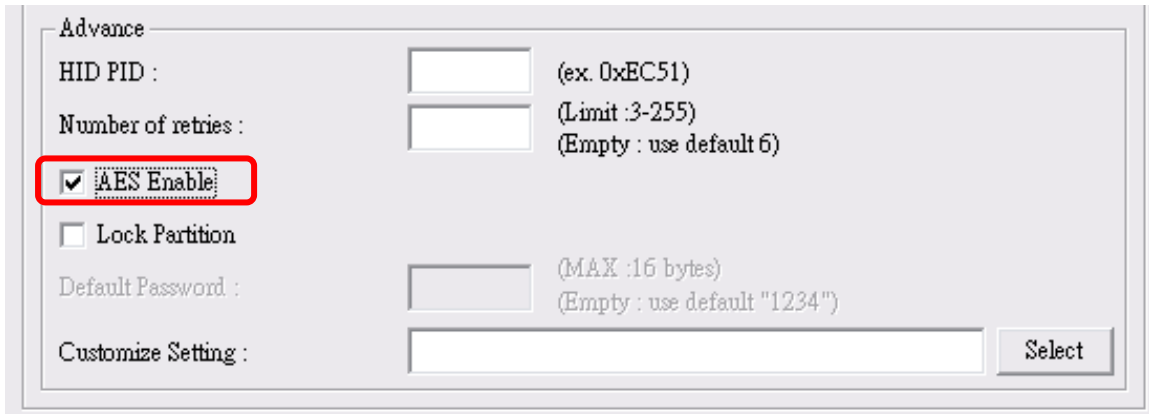
The screenshot shows the same "Advance" settings window as in Step 13. A red box highlights the "Number of retries" text field.

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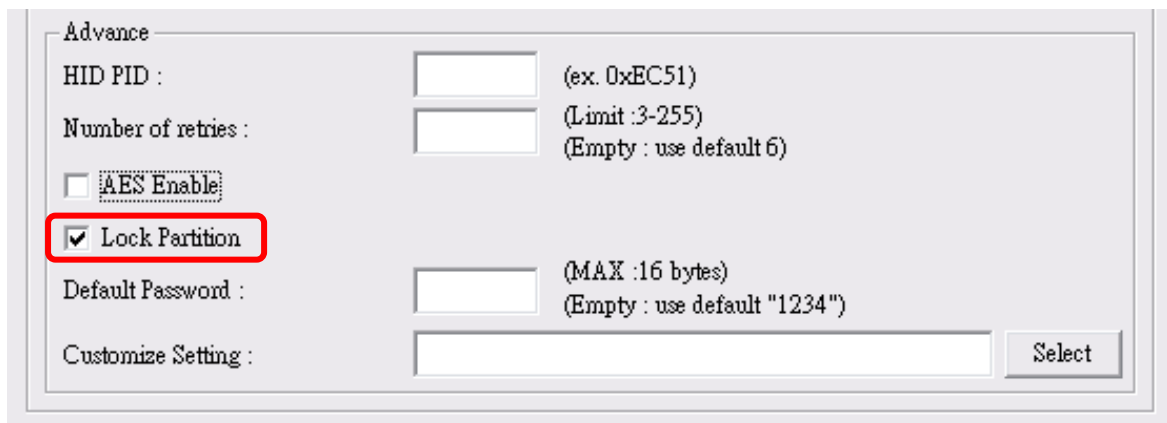
**Step 15** If you want to enable AES function, please tick the “AES Enable” box.



The screenshot shows the 'Advance' settings window. The 'AES Enable' checkbox is checked and highlighted with a red box. Other fields include 'HID PID', 'Number of retries', 'Lock Partition', 'Default Password', and 'Customize Setting'.

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

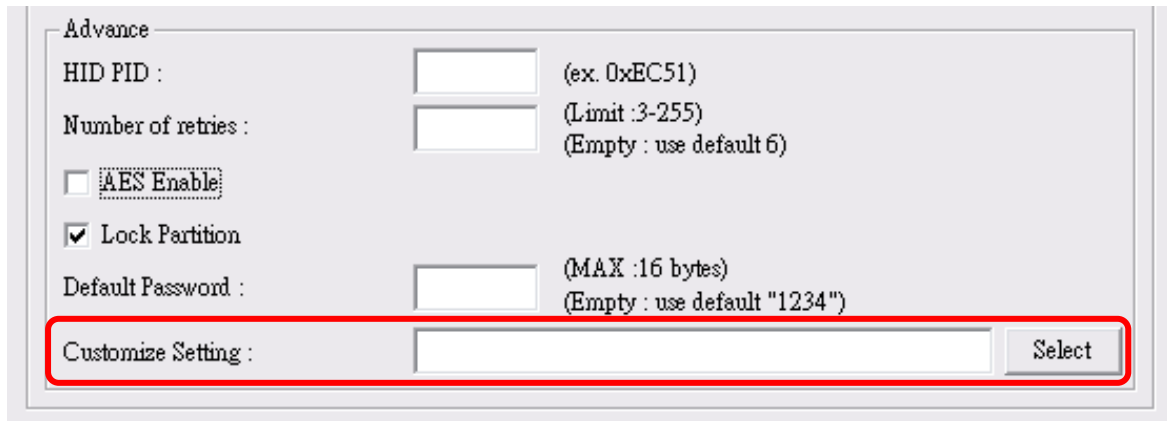
**Step 16** For mode 7 and mode 21, you can lock the secure (private) partition by default. If you wish to do so, please tick the “Lock Partition” box and enter a default password.



The screenshot shows the 'Advance' settings window. The 'Lock Partition' checkbox is checked and highlighted with a red box. Other fields include 'HID PID', 'Number of retries', 'AES Enable', 'Default Password', and 'Customize Setting'.

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

**Step 17** Customize setting is for Phison use only. Please leave it blank.



The screenshot shows the 'Advance' settings window. The 'Customize Setting' field and its 'Select' button are highlighted with a red box. Other fields include 'HID PID', 'Number of retries', 'AES Enable', and 'Lock Partition'.

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



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## A2. Setting "F1-1" Page

**Step 1** You will see the main screen window as show above. Enter the customised information and necessary values in each box.

### Load Default

Tick the "Load Default" box if you want to use the default Manufacture name and Product Name. (refer to appendix)

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## VID

### Vendor ID (4 digits long)

Enter a 4 digits Hexadecimal value.

(must type “0x” before typing the VID)

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.

If you do not have a VID for your company, just leave it blank, and Phison’s VID will apply.

## PID

### Product ID (4 digits long)

Enter a 4 digits Hexadecimal value.

(must type “0x” before typing the PID)

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)

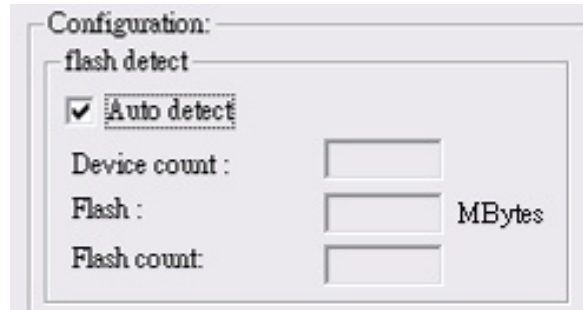
Please do not modify this value, unless for special use. Please leave it as default value “PMAP”.

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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 an 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. (2007 = 7)

**C** Month in hexadecimals, from computer date.  
(September = 9, October = A)

**DD** Day in hexadecimals, from computer date. (9<sup>th</sup> = 09, 10<sup>th</sup> = 0A)

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

**FFFF** Serial number in hexadecimals.

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Serial Number (SN)

Start SN :  (0-)

End SN :  (-0xFFFF)

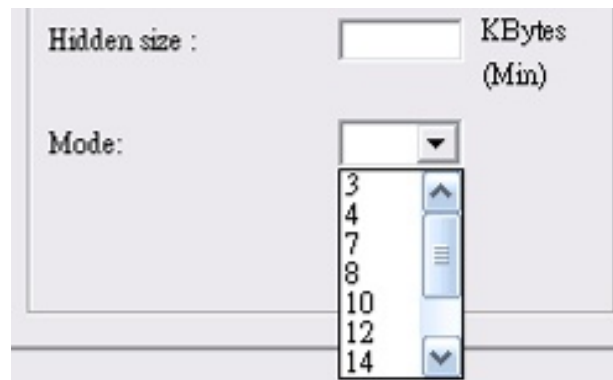
PC Number:

**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.

## Step 4 Other settings.



Hidden size :  KBytes (Min)

Mode:  ▼

- 3 ▲
- 4
- 7
- 8
- 10
- 12
- 14 ▼

**Hidden Size** Set the capacity for hidden area. If you do not need this function, simply leave it blank.

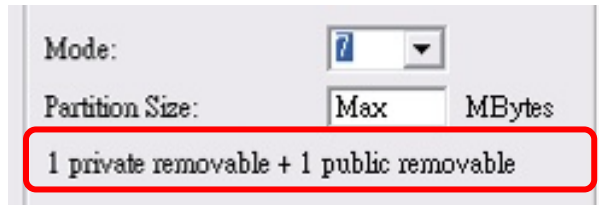
**PS : for PS2135 & PS2231 FF-03 firmware, you must enter a size for hidden area, if you do not need the hidden area, please enter "Min", to use the minimum capacity (16KB).**

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**Mode** Set mode. (Please refer to appendix for different mode description)  
When mode 7 or mode 8 is selected. Extra partition information will appear.

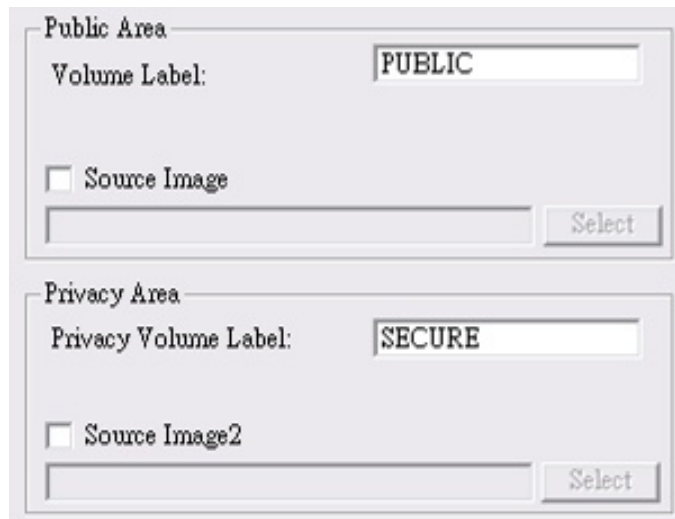


You will need to set the “**Public Partition**” size; default value is set to its maximum capability, and the remaining capacity is dedicated to “Secure Partition”.

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

## Step 5 Set Volume Labels.

Maximum 11 characters in **capital letter**. 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.*

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## 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.

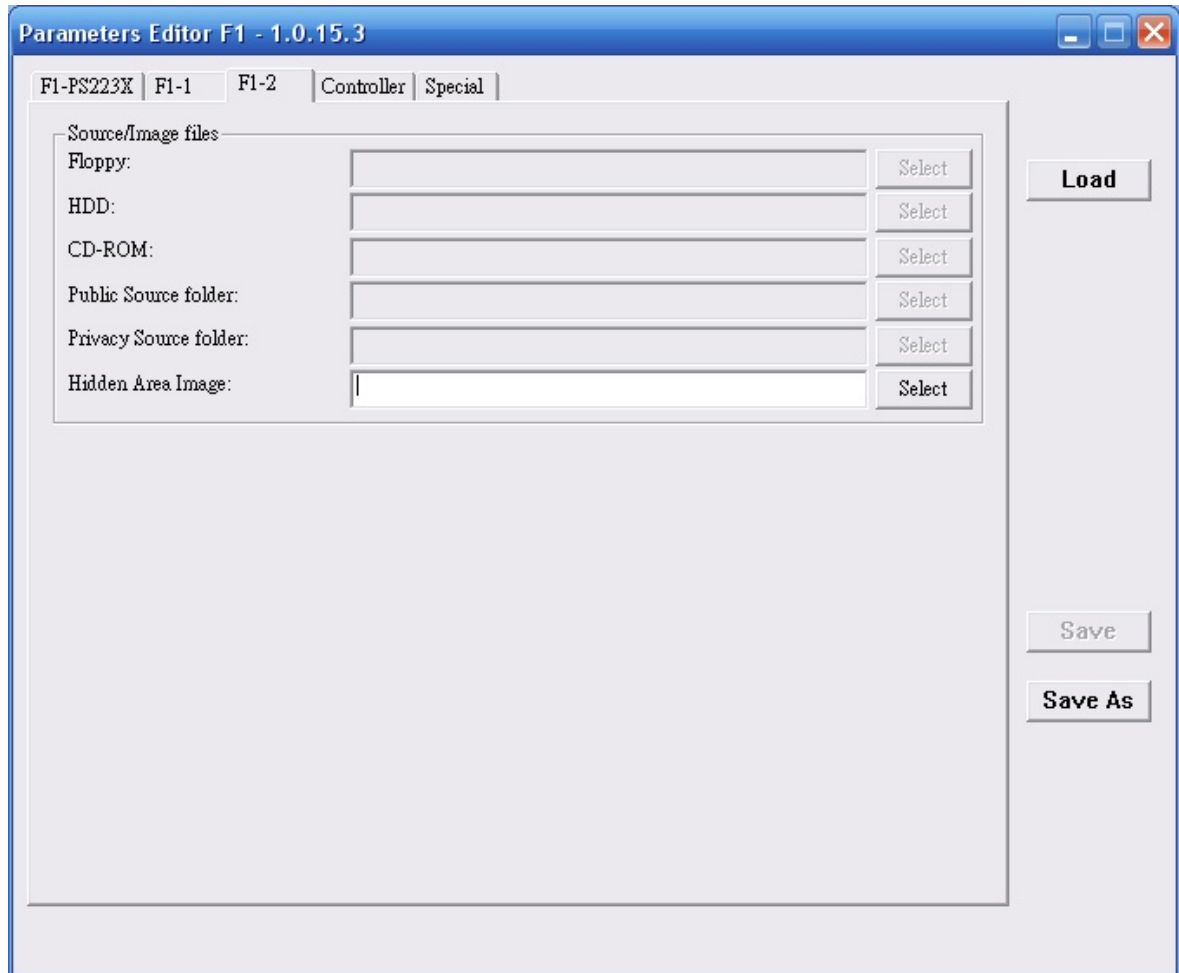


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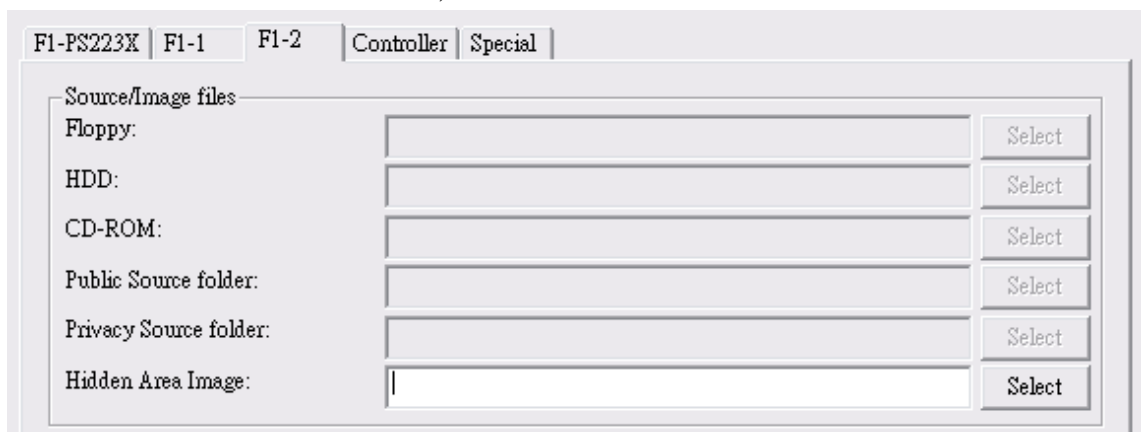
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## A3. Setting "F1-2" Page



### 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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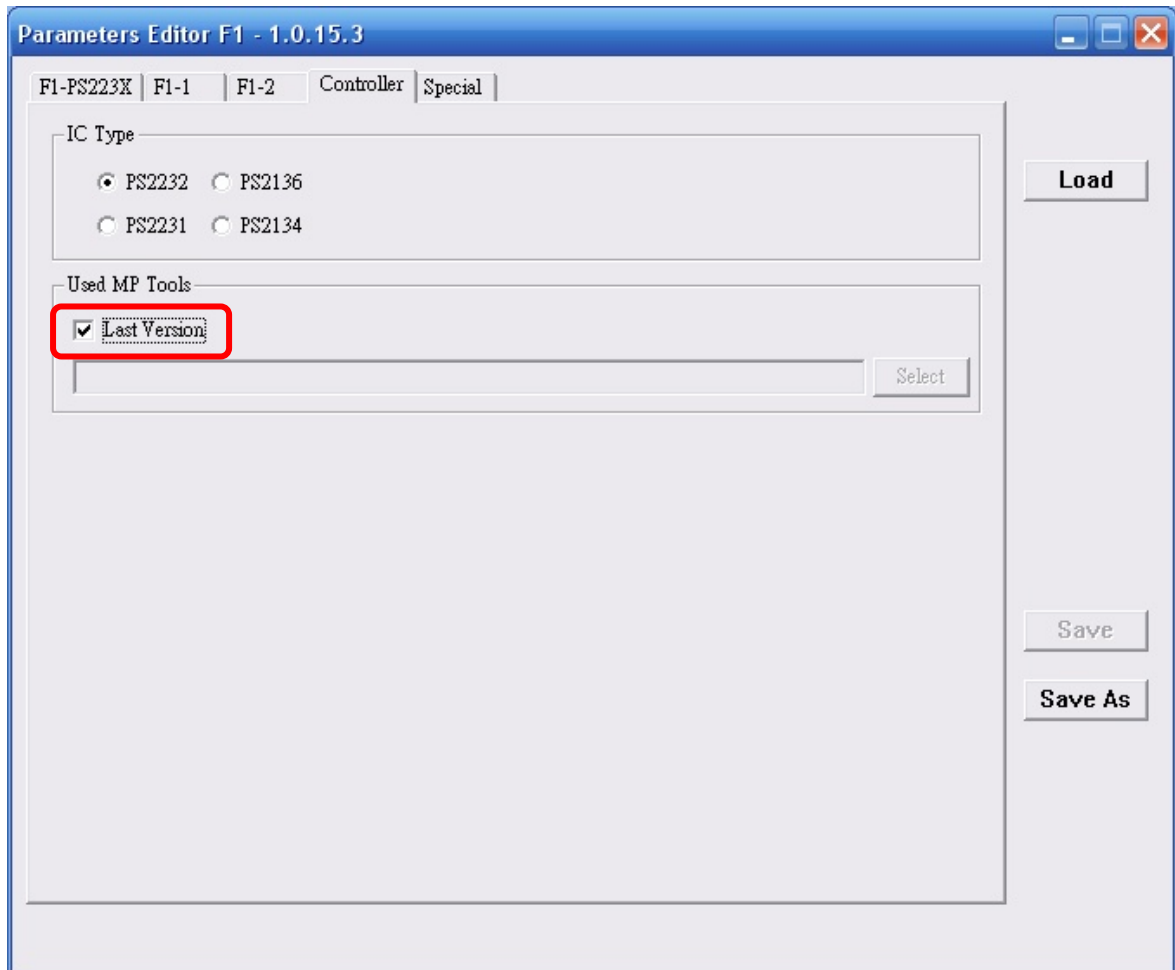
<b>Floppy</b>	Active when mode 4 is selected. Choose the floppy image file.
<b>HDD</b>	Active when mode 14 is selected. Choose the HDD image file.
<b>CD-ROM</b>	Active when mode 14 or mode 21 is selected. Choose the CD-ROM image file.
<b>Public Source Folder</b>	Active when mode 3 / 7 / 8 is selected. 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\ ) <b><i>PS : Do not enter the file name, just the location of the folder.</i></b>
<b>Privacy Source Folder</b>	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\ ) <b><i>PS : Do not enter the file name, just the location of the folder.</i></b>
<b>Hidden Area Image</b>	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 “Controller” Page



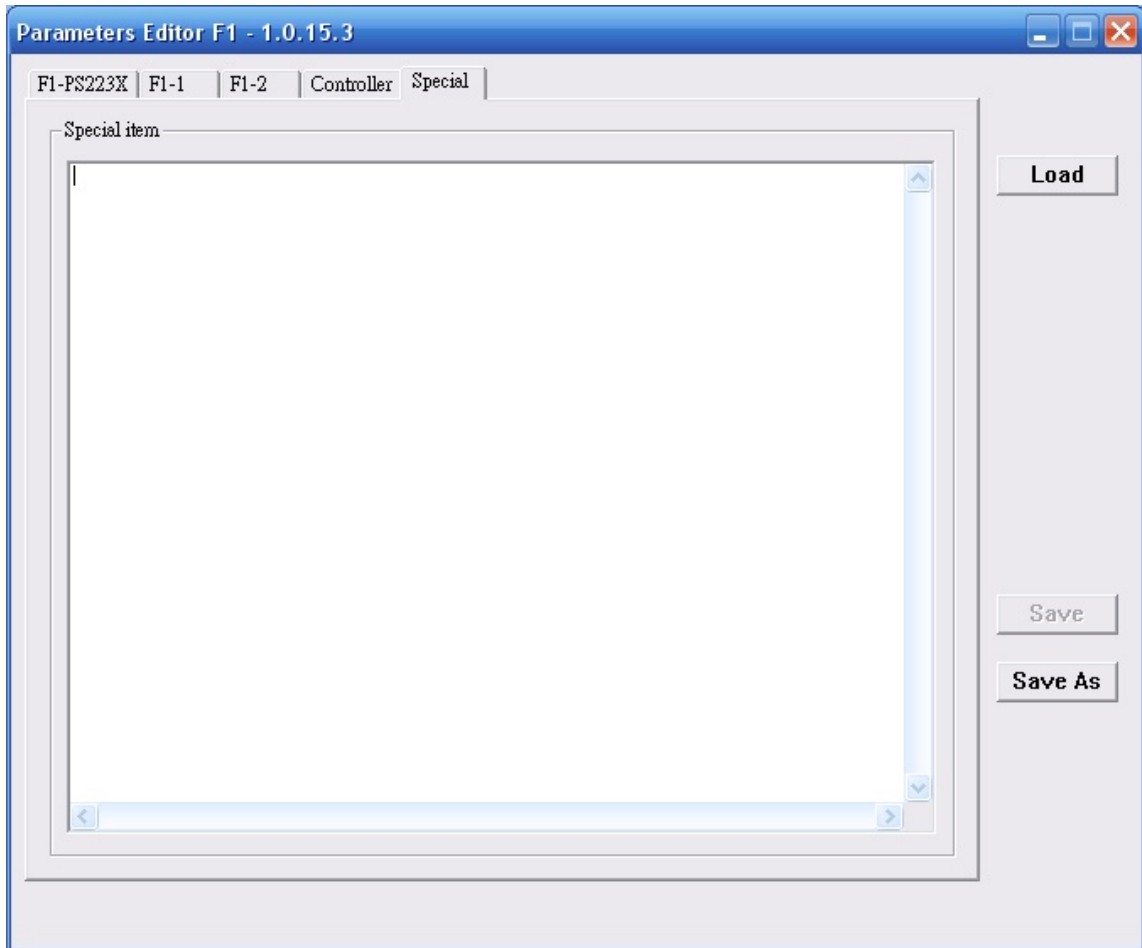
This section is designed and reserved for future function; basically you can ignore this page and simply tick the “Last Version” box.

Do not worry about if the controller you are using is not listed. If it is not listed, ignore it or select any controller. However, if the controller that you are using is listed, please select the right controller.

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## A5. 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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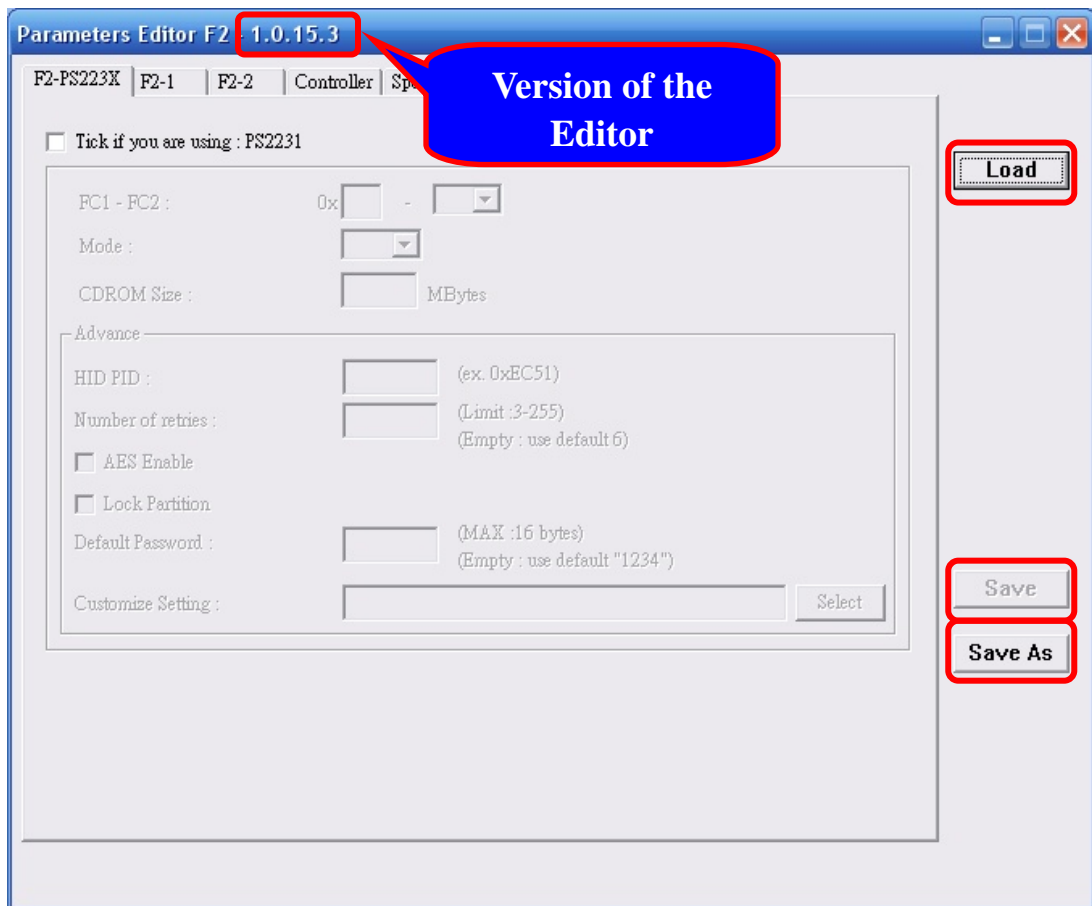
## B. Setting up “F2.ini” File with ParamEdt

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-PS223X” 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.

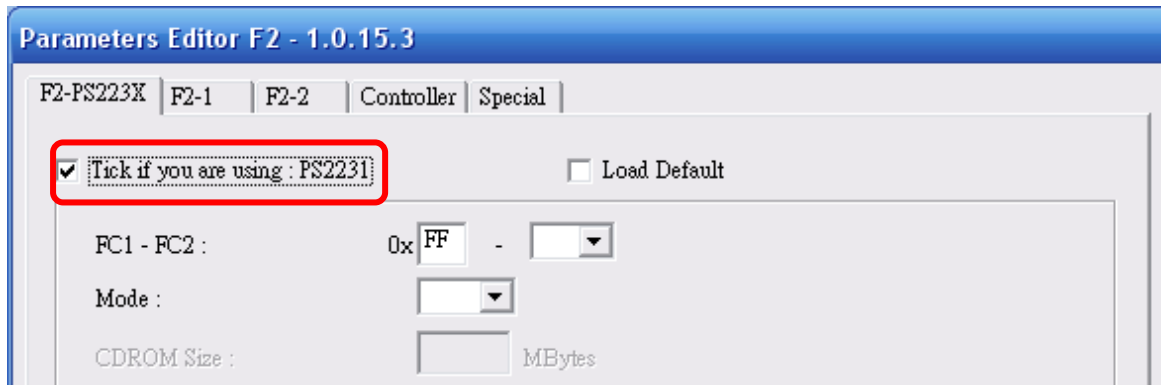
**Save** This function is only available when you made changes to an old (existing) file and you want to save the new contents using the same old file name.

**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.

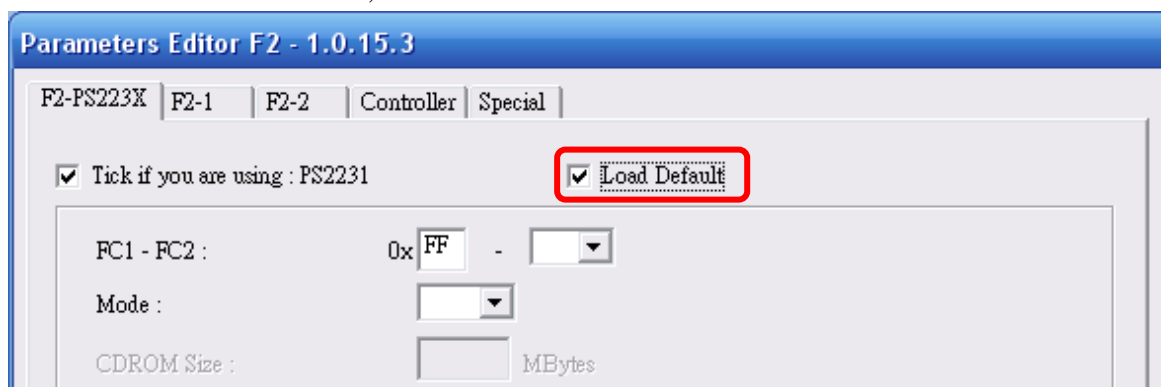
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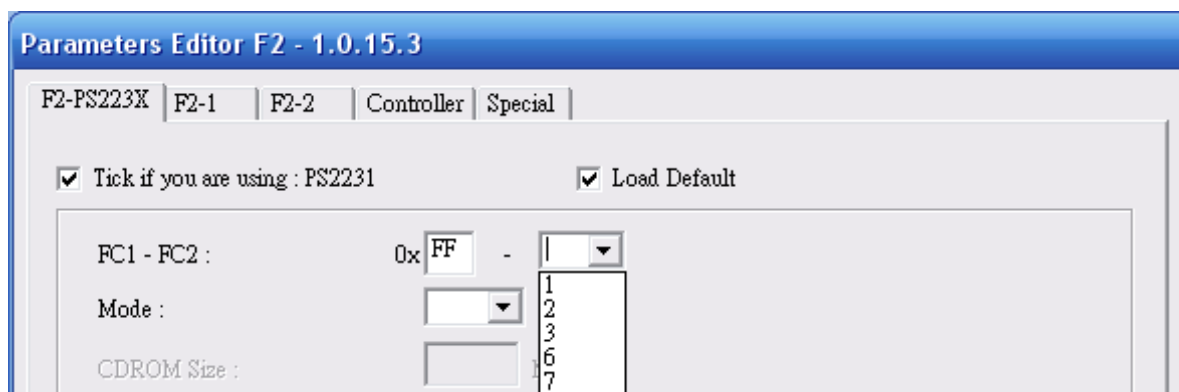
**Step 2** Thich the box if the device is using PS2231 controller, and continue with step 3, otherwise, if it is not using the PS2231 controller, do not tick this box and go to section B2.



**Step 3** If the default “Manufacture Name” & “Product Name” is expected, then tick the “Load Default” box, otherwise do not tick.



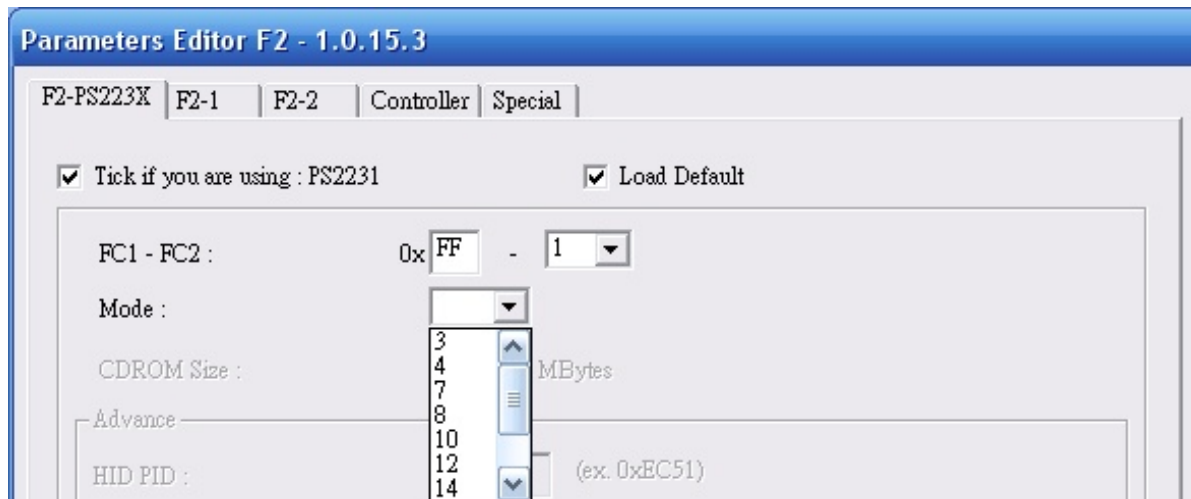
**Step 4** Select the expected firmware type.



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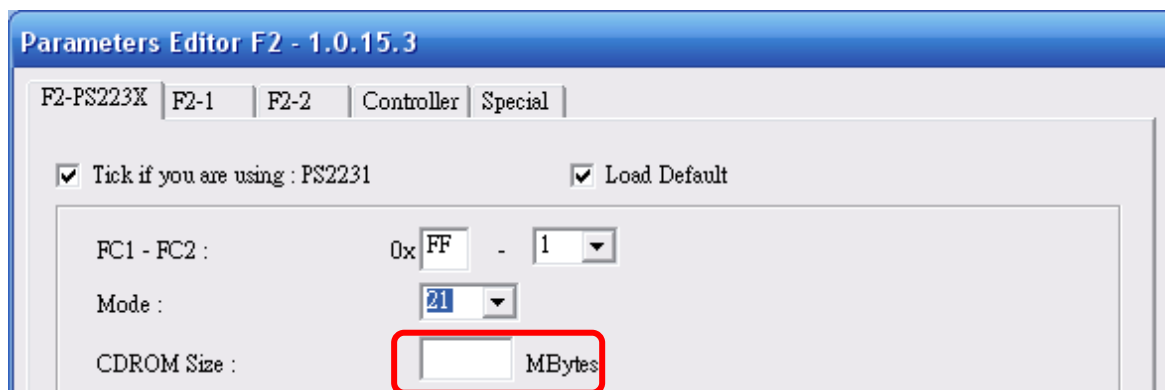
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**Step 5** Select the expected mode that the final product should have. If you are not too sure or have problem selecting the correct mode, please check with Phison's engineer or FAE.



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

**Step 6** For **Mode 21** only, enter the expected size for the CD-Rom partition.



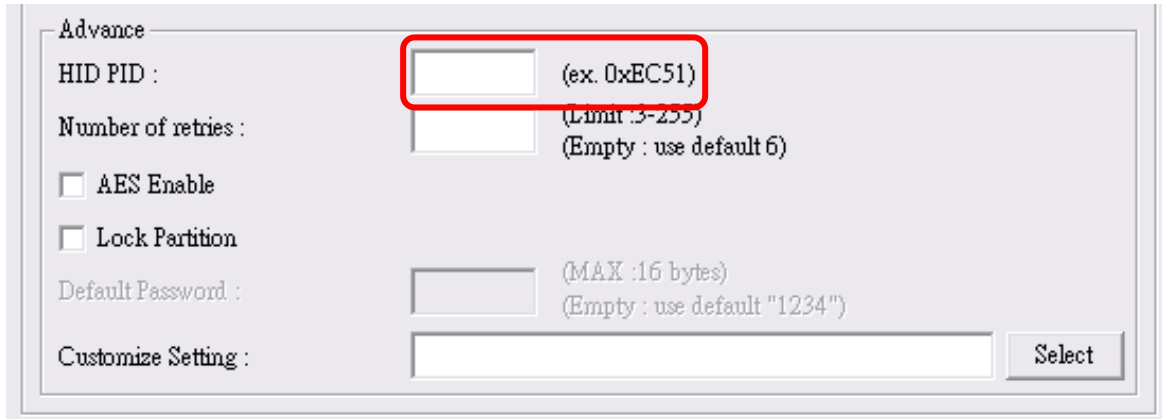
**Step 7** The following only apply to firmware type **FF-03**, if you are not using FF-03 type firmware, please go to section B2 directly.

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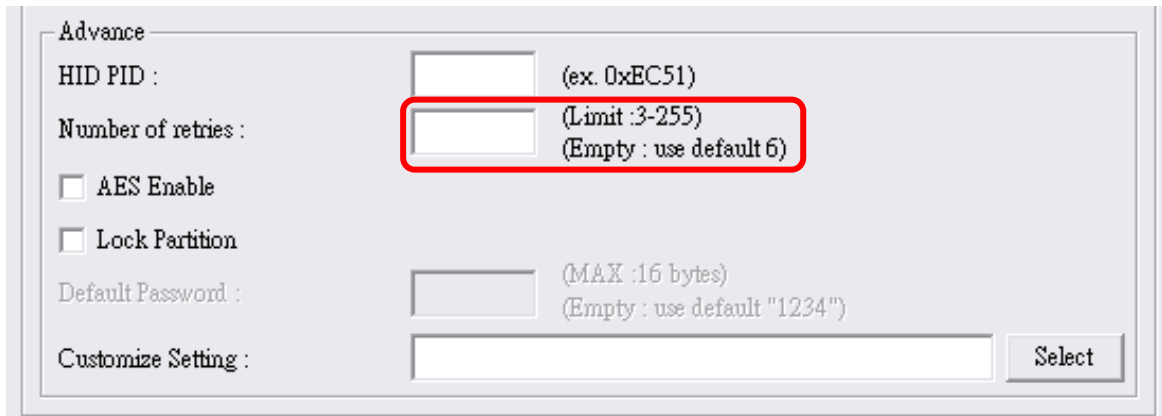
**Step 8** Enter the expected HID PID number. Leave it blank if you do not want to check this value.



The screenshot shows a software window titled "Advance" with several configuration options. The "HID PID" field is highlighted with a red rectangle. The other fields include "Number of retries", "AES Enable", "Lock Partition", "Default Password", and "Customize Setting".

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

**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 same "Advance" settings window as in Step 8. In this instance, the "Number of retries" field is highlighted with a red rectangle. The "HID PID" field is now empty.

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

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**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 checked and highlighted with a red box. Other fields include 'HID PID' (with example '0xEC51'), 'Number of retries' (limit 3-255), 'Lock Partition' (unchecked), 'Default Password' (max 16 bytes), and 'Customize Setting' (with a 'Select' button).

**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 box. The 'AES Enable' checkbox is unchecked. Other fields include 'HID PID' (with example '0xEC51'), 'Number of retries' (limit 3-255), 'Default Password' (max 16 bytes), and 'Customize Setting' (with a 'Select' button).

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

The screenshot shows the 'Advance' settings window. The 'Customize Setting' field and its 'Select' button are highlighted with a red box. The 'Lock Partition' checkbox is checked, and 'AES Enable' is unchecked. Other fields include 'HID PID' (with example '0xEC51'), 'Number of retries' (limit 3-255), and 'Default Password' (max 16 bytes).

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## B2. Setting “F2-1” Page

**Step 1** You will see the main screen window as show above. Enter the expected information (value) in each box. You can leave it blank if you do not wish to compare these information.

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



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## **VID**

**Vendor ID** (4 digits long)

Enter a 4 digits Hexadecimal value.

(must type “0x” before typing the VID)

## **PID**

**Product ID** (4 digits long)

Enter a 4 digits Hexadecimal value.

(must type “0x” before typing the PID)

## **Manufacturer**

**Manufacturer Name** (maximum 8 characters)

Enter expected manufacturer name here or leave it blank 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 leave it blank 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.

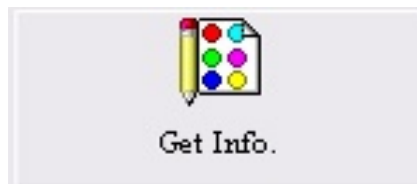
Firmware Version	<input type="text"/>	(ex: 1.05.10)	FC1 : 0x <input type="text" value="FF"/>	
Firmware Released Date	Year <input type="text"/>	Month <input type="text"/>	Day <input type="text"/>	FC2 : 0x <input type="text" value="1"/>

### Firmware Version

Enter the expected firmware version. You can leave it blank, 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. You can leave it blank, if you do not wish to check this information.



Year : Enter the last digit of the year. (eg: 2007, just enter 7)

Month : Enter month.

Day : Enter day.

### FC1 – FC2

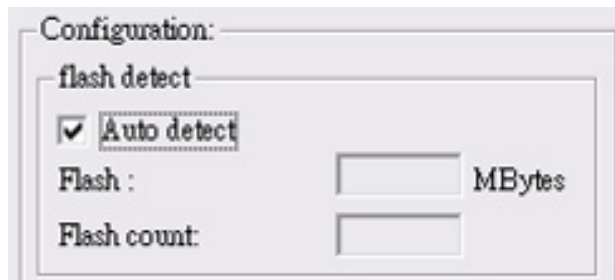
Enter the expected firmware type values for FC1 & FC2. You can leave it blank, if you do not wish to check this information.

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**Step 3** Enter the expected flash memory information.

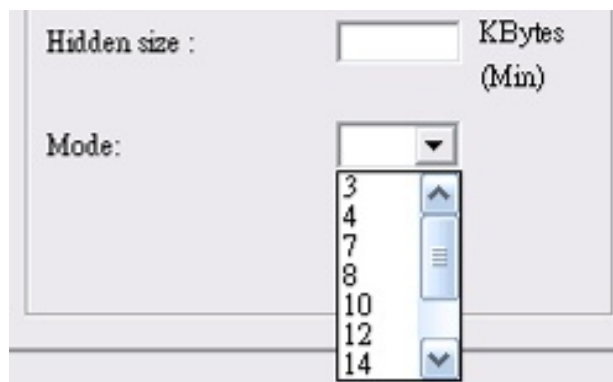


**Auto Detect** Select auto detect to allow MPTool to automatically detect the flash capacity. We recommend you use the “Auto Detect” function during production.

**Flash** Enter the capacity of a single flash memory used.

**Flash Count** Enter the number of flash memory pieces used.

**Step 4** Other settings.



**Hidden Size** Set the expected capacity for hidden area. If you do not want to compare 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).

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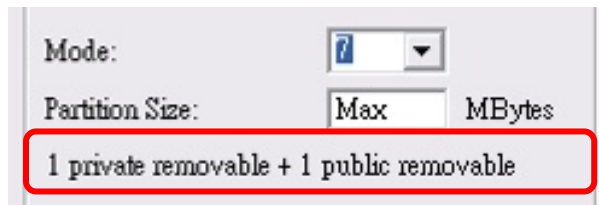
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## Mode

Please select the expected mode.

When mode 7 or mode 8 is selected. Extra “Partition Size” information will appear.

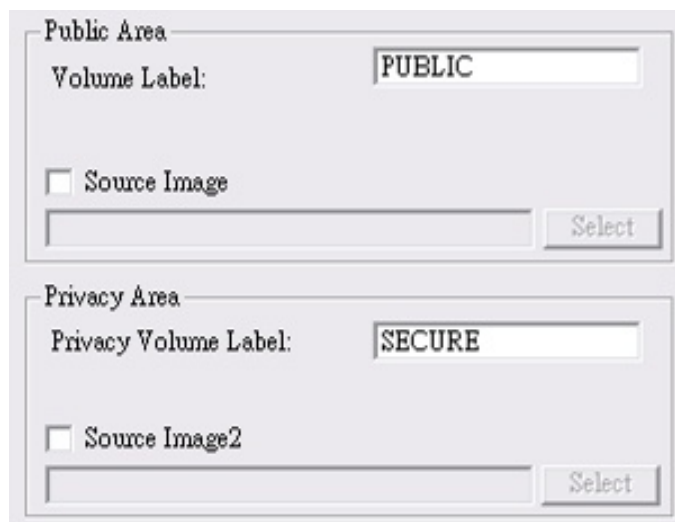


Enter the expected “**Public Partition**” size; default value is set to maximum capability, and the remaining capacity is dedicated to “Secure Partition”.

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

## 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).



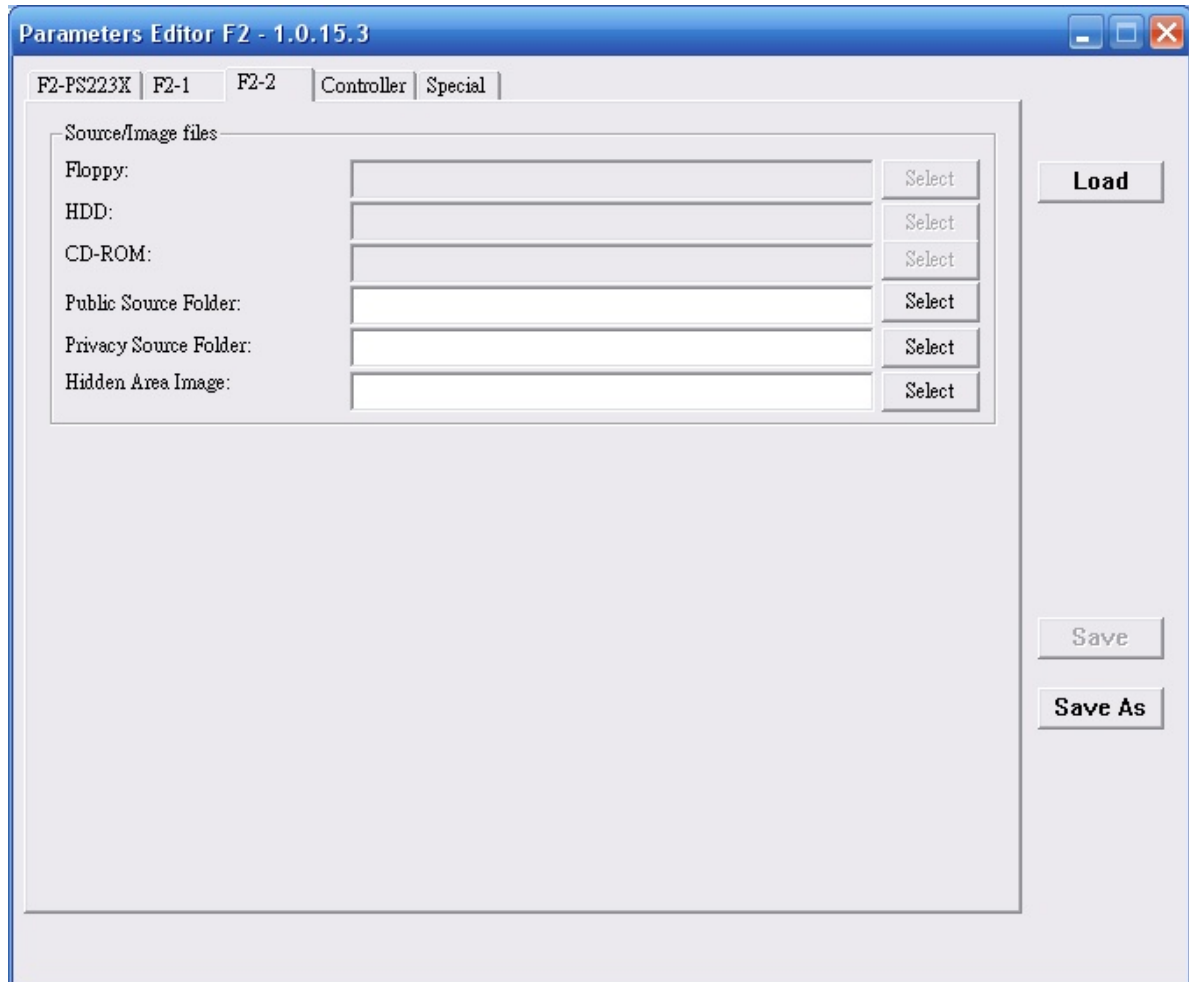
*PS : Please disregard “Source Image” function, it is for Phison internal use only, if this function will apply, Phison will inform separately of how to use this function.*

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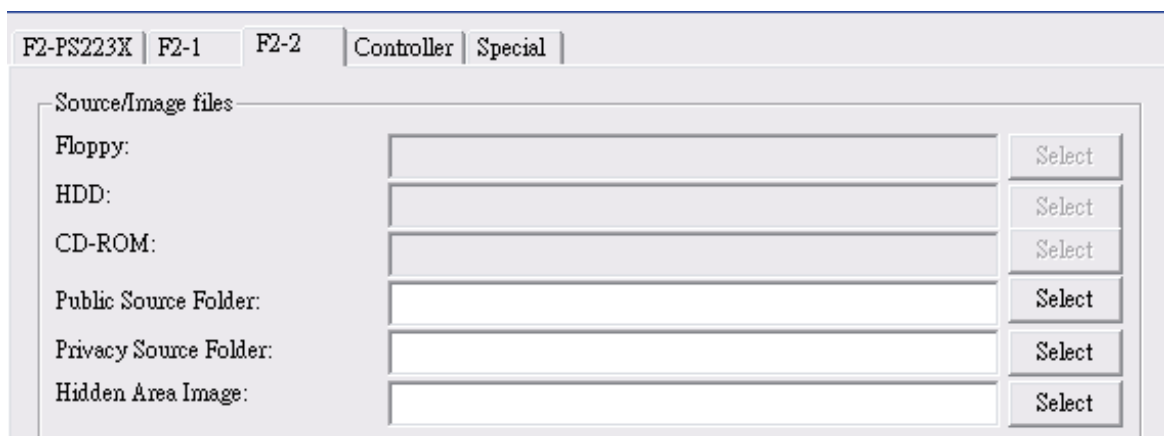
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## B3. Setting "F2-2" Page



### 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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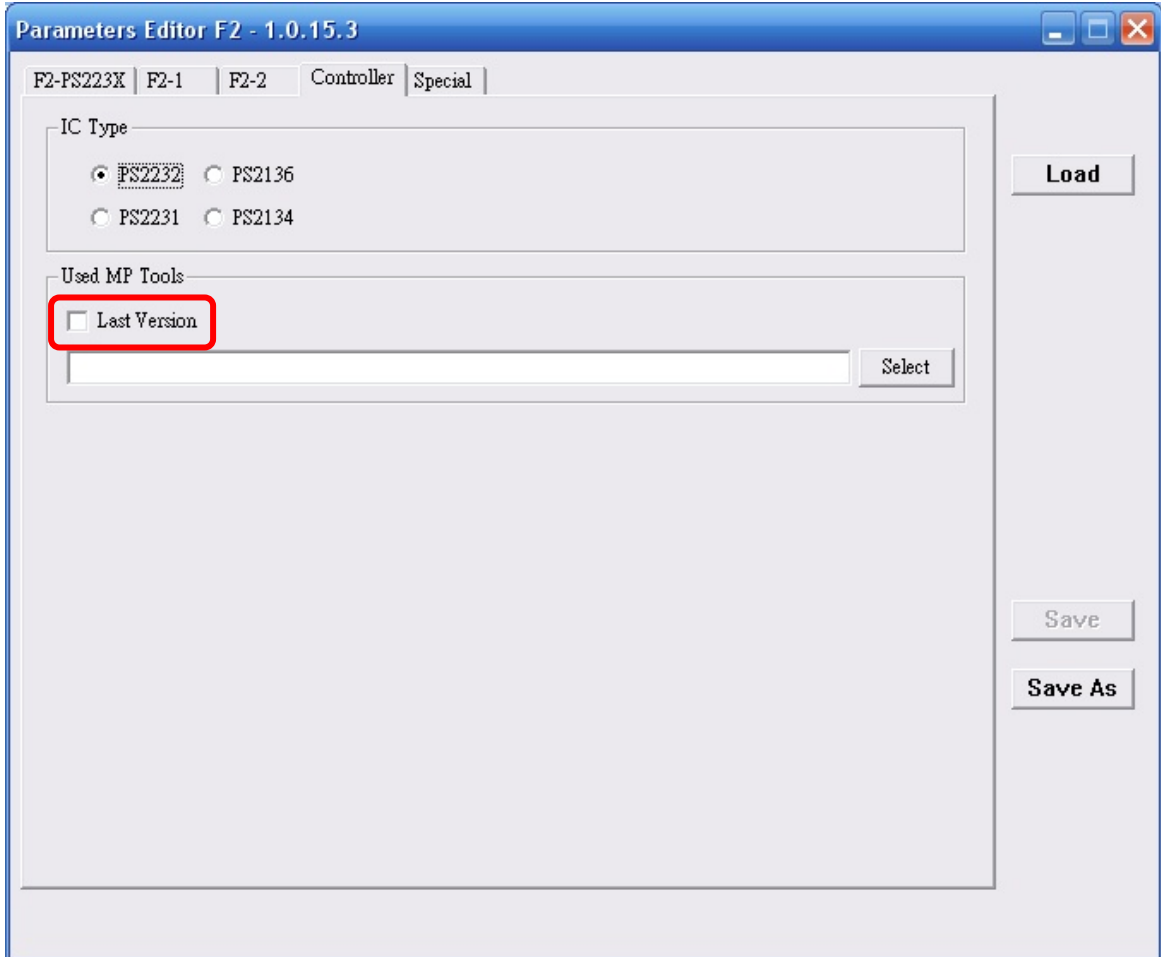
---

- 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 “Controller” Page



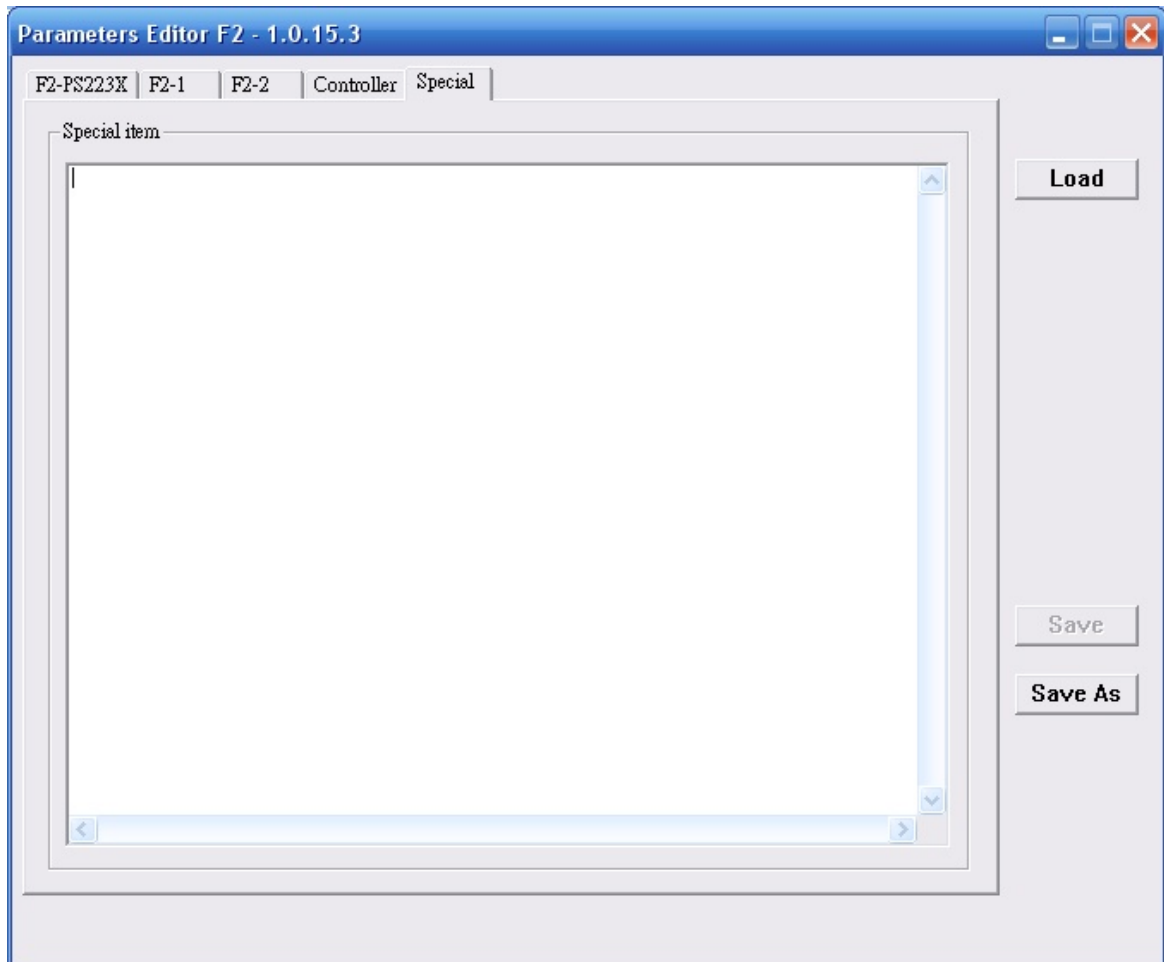
This section is designed and reserved for future function; basically you can ignore this page and simply tick the “Last Version” box.

Do not worry about if the controller you are using is not listed. If it is not listed, ignore it or select any controller. However, if the controller that you are using is listed, please select the right controller.

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## B5. 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



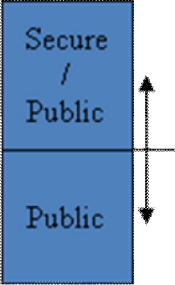
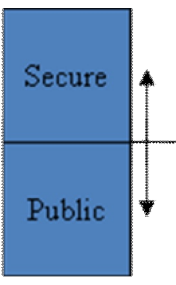
- Partition 1 CD-Rom partition
- Partition 2 Removable partition
- See partition 1 & 2 in Windows 2000 / XP
- Partition 1 is read only partition.
- Autorun data are stored in partition 1.
- Cannot autorun in Windows ME.

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## C3. Mode Graphical Description

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

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