How to update OS image by Eshell

Applies to:

Platform	*OS Version*	*PAC Utility Version*
WinPAC	*All Versions*	*All Versions*
ViewPAC	*All Versions*	*All Versions*

Note: If you do not have the DHCP server in your LAN, please exchange to use the Micro_SD to update OS image.

Before updates OS, Please do below acts.

1. Preparation of below devices.

Monitor/VGA line

USB Hub

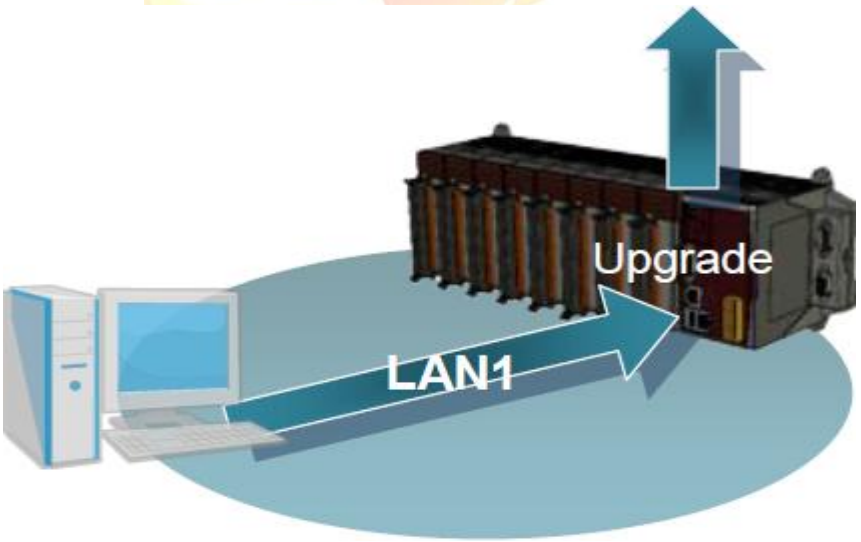
USB Mouse

USB Keyboard

Micro_SD

Tips & Warnings

By default, the OS updates via LAN1. Therefore, to update the OS image, make sure LAN1 is connected to the LAN Network.



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2. The registry of OS will return to the default value after update the OS image, please remember all settings in the WinPAC. (e.g. PWM、Desktop、Time Zone、screen resolution、SNTP、Ethernet settings、Auto execute、UI language…..)

3. Backup the System_ disk files in the Micro_SD folder.

Warnings



The System_disk will be formatted after update the OS image, please remember backup the System_disk files in the Micro_SD folder.

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Update WinPAC OS

To update OS image by Eshell, please perform the following steps:

Step 1: Download the eshell.exe and OS install file to the PC side.

Eshell.exe:
CD: \WinPAC_AM335x\Wp-5231\pc_tools\eshell

OS Image.
http://ftp.icpdas.com/pub/cd/WinPAC_AM335x/Wp-5231/OS_Image/ (*Note1)

Note1: The OS image files of other platform:
IWS-x231: http://ftp.icpdas.com/pub/cd/WinPAC_AM335x/IWS-x231/OS_Image/
VP-x231: http://ftp.icpdas.com/pub/cd/WinPAC_AM335x/VP-x231/OS_Image/

There are six files in the OS installation file (*.Zip):

MLO
XLDRSD.nb0
XLDRNAND.nb0
EBOOTND.nb0
EBOOTSD.nb0
NK.bin

Unzip the Zip file to the appropriate location. e.g. C:\AM335x_O….

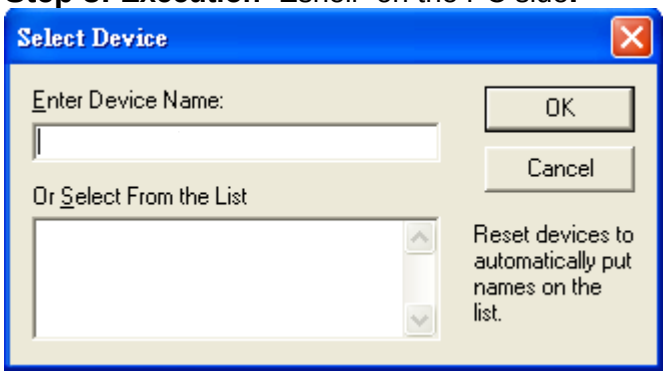
Step 2: Turn the rotary switch to the "3" position and reboot**.**



Rotary switch position	Modes of operation
0	Normal
1	Safe
2	Debug
3	OS update (By Eshell)
4	Reserved
5	OS update (By Micro_SD)
6	Reserved
7~9	Normal (User define)

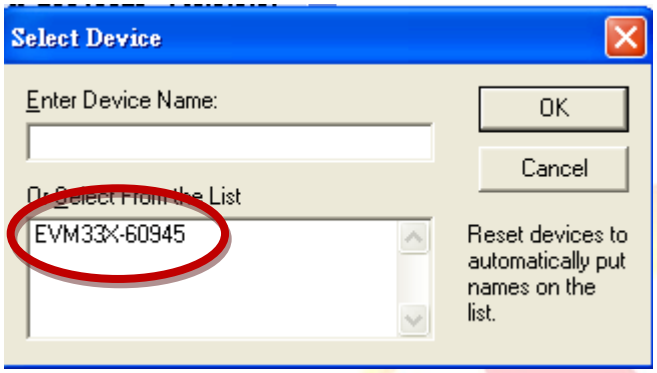
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Step 3: Execution "Eshell" on the PC side**.**

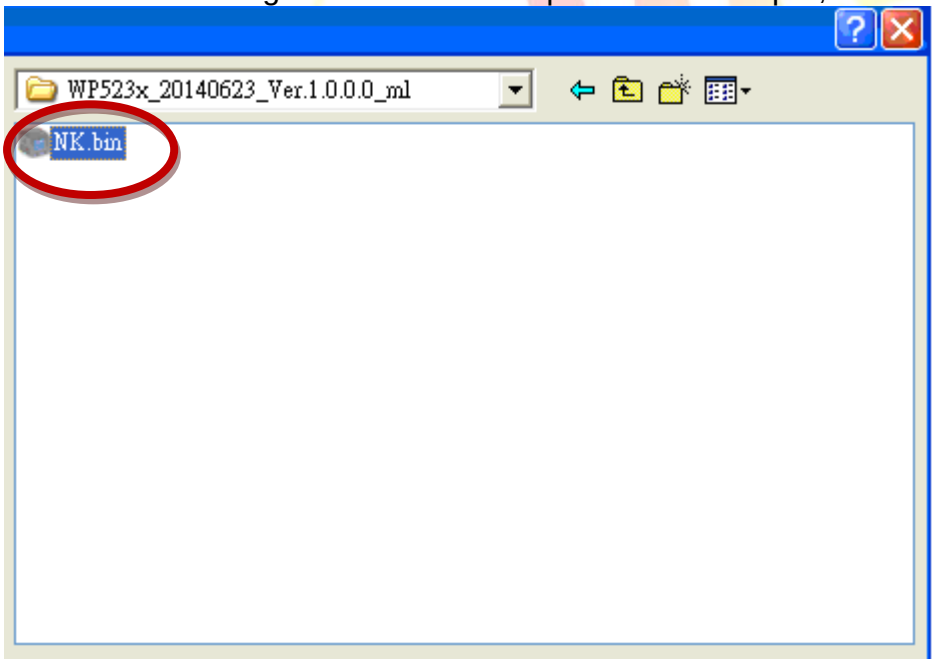


The "Select From the List" Listbox will display the device name after three seconds. (e.g. EVM33X-60945)

Step 4: Select the device that you want to update the OS image.



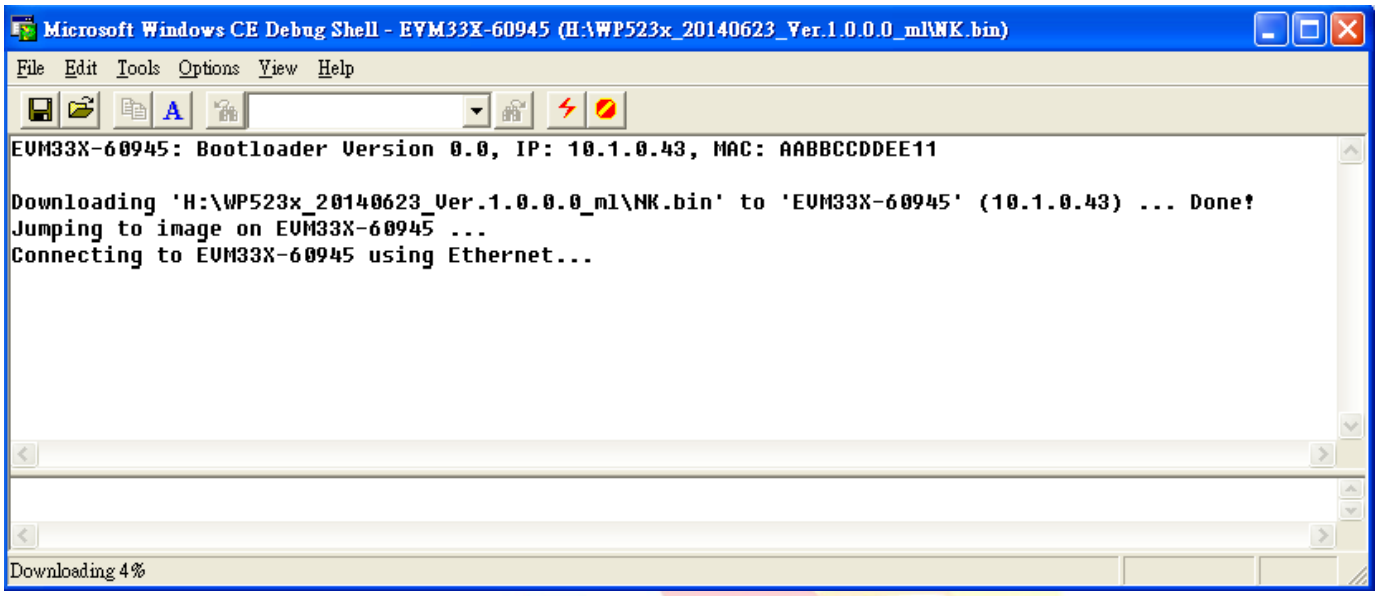
Step 5: Select the OS image file. (*.bin).
Select the OS image file from the Unzip file of the "Step1", and the click the "Open" button.



The Eshell update the "NK.bin" file after clicking the "start" button.

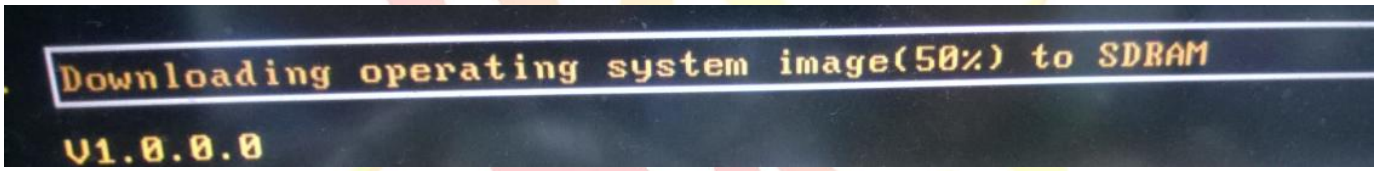
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PC side

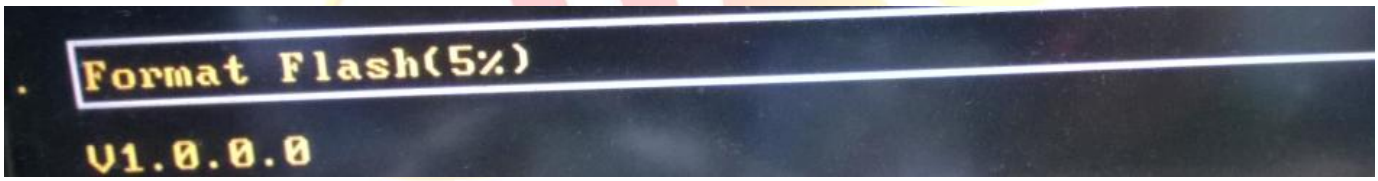


WinPAC side will show the installation progress.

1. The WinPAC will download the NK.bin file from Ethernet to the SDRAM..



2. Erase and Format the OS Flash.



3. Write the OS image (NK.bin) from SDRAM to OS flash.



4. Update complete.

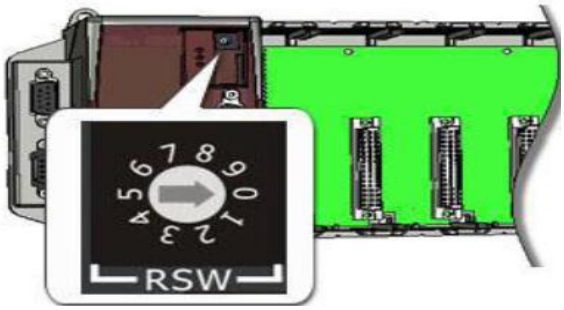


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The desktop will be displayed after OS update complete.

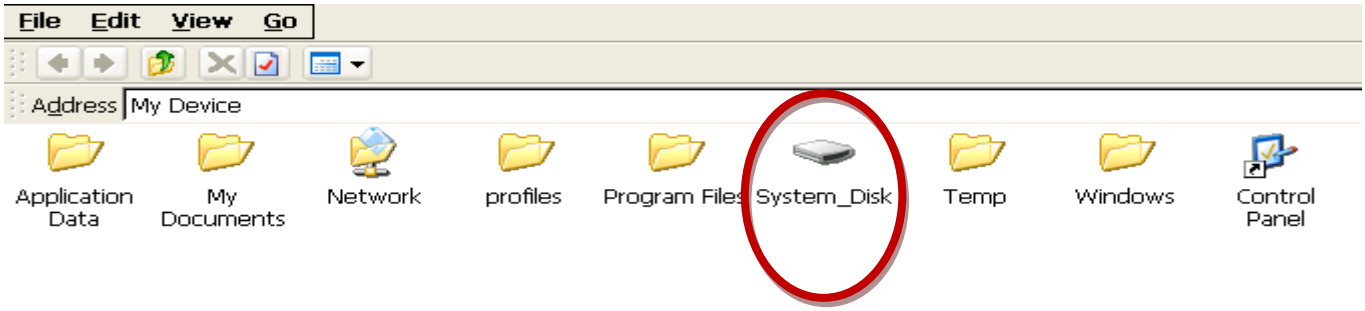


Step 6: Turn the rotary switch to the "0".



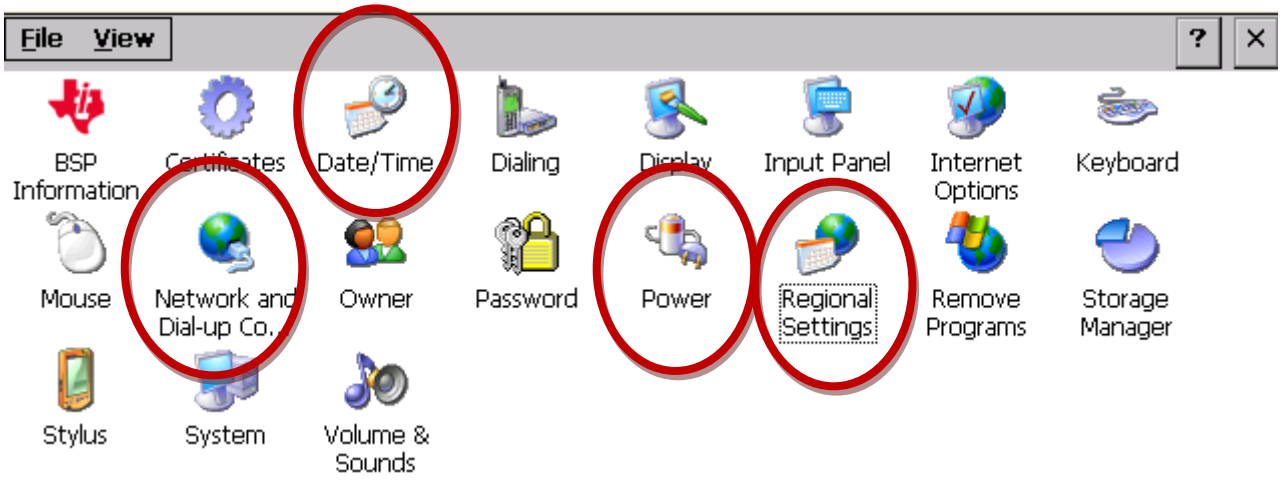
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Step 7: Restore the System_disk files form the Micro_SD folder.



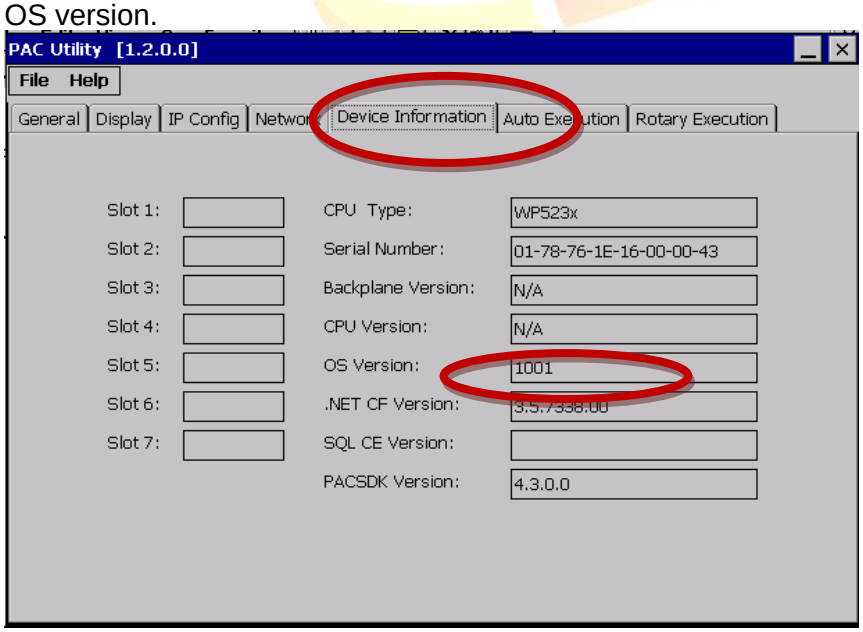
Step 8: Restore your WinPAC settings.

(e.g. PWM、Desktop、Time Zone、screen resolution、SNTP、Ethernet settings、Auto execute、UI language…..)



Step 9: Check the WinPAC OS version.

Start the PAC Utility on the desktop, and then select the “Device Information” tab to check the current OS version.



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