

FAQ / Application Note

Subject : How to configure APM mode under Windows XP OS

FAQ Document No: G12002	Date: 2012/6/11
Model Name. FPC-10W04(ECM-945GSE)	Rev. A1
Category: ■General □H/W □S/W □Others,	Setup

Purpose:

This is to configure **APM** mode so when you turn off the system with Windows XP, it could stop with the message "It is now safe to turn off your computer" before the system shut off.

Test Environment and condition :

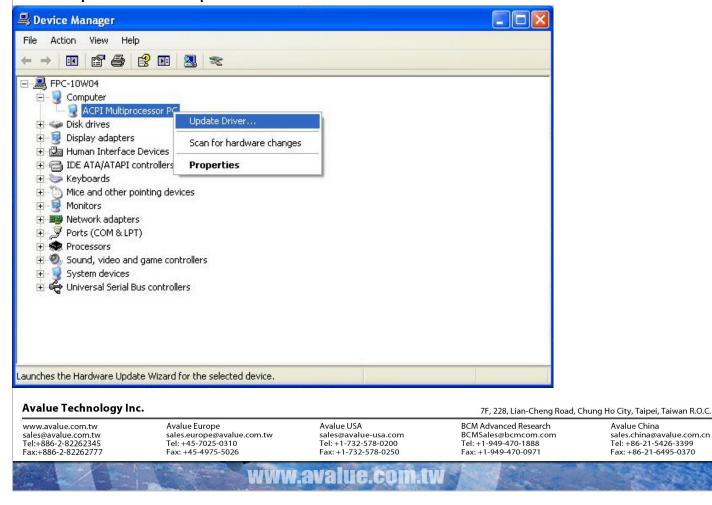
1. Windows XP SP3 OS

2. FPC-10W04 (ECM-945GSE)

Test Procedure and Results:

Step 1:

Enter into Windows XPpro OS, please click the right button of the mouse in Device Manage and choose ACPI Multiprocessor PC to update driver.





Step 2:

And follow the steps below to add a new hardware for "MPS Multiprocessor PC" or "standard PC".

Hardware Update Wizard	Welcome to the Hardware Update Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy Can Windows connect to Windows Update to search for software?
	 Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.
Hardware Update Wizard	< Back Next > Cancel

	What do you want the w Mhat do you want the w Install the softwar Install from a list of Click Next to continue.	PC are came with an installation C ., insert it now.		
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Hardware Update Wizard			
Please choose your search and installation options.			
Search for the best driver in these locations.			
Use the check boxes below to limit or expand the default search, v paths and removable media. The best driver found will be installed.			
Search removable media (floppy, CD-ROM)			
Include this location in the search:			
C:\Program Files\Marvell\Miniport Driver\	Browse		
On't search. I will choose the driver to install.			
Choose this option to select the device driver from a list. Windows the driver you choose will be the best match for your hardware.	does not guarantee that		
K Back Next	Cancel		

Choose the "MPS Multiprocessor PC" to install. It should be rebooted after installed. (MPS is Multiprocessor PC for APM)

Hardware Update Wiza	ird			
Select the device driv	ver you want to install for this	s hardware.		
	cturer and model of your hardware ontains the driver you want to insta			
Show compatible hardwa	are			
Model ACPI Multiprocessor PC Advanced Configuratio MPS Multiprocessor PC Standard PC	n and Power Interface (ACPI) PC			
This driver is digitally signed at the second secon		Have Disk.		
	- Kack	Next > Cance		
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Step 3:

Reboot the FPC-10W04 after install the "MPS Multiprocessor PC" driver.

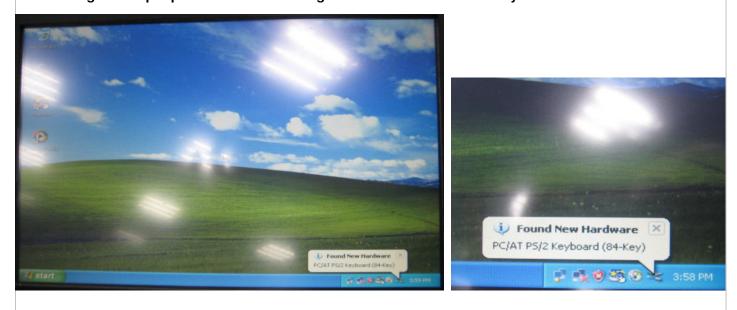
Then, don't enter into Windows XP pro OS.

Press Del button to enter into BIOS setting screen and under Power Management Setup we have to set APM mode or Disable ACPI. Then save setting to exit.

PCI Express PM Function	[Press Enter]	4	Item Help
ACPI Function ACPI Suspend Type Run VGABIOS if S3 Resume Power Management Video Off Method Video Off In Suspend Suspend Type MODEM Use IRQ Suspend Mode HDD Power Dowm Soft-Off by PHR-BTTN Power On by Ring Resume by Alarm > Date(of Month) Alarm Time(th:nm:ss) Alarm	[Auto] [User Define] [DPMS] [Yes] [Stop Grant] [3] [Disabled] [Disabled] [Instant-Off] [Enabled] [Disabled]		Menu Level >
** Reload Global Timer Ex Primary IDE 0	vents ** [Disabled]	÷	

Step 4:

Enter into Windows XP, we will see the OS re-recognize peripheral and re-install drivers as below. Just waiting for the peripheral have been recognized and installed drivers by OS.



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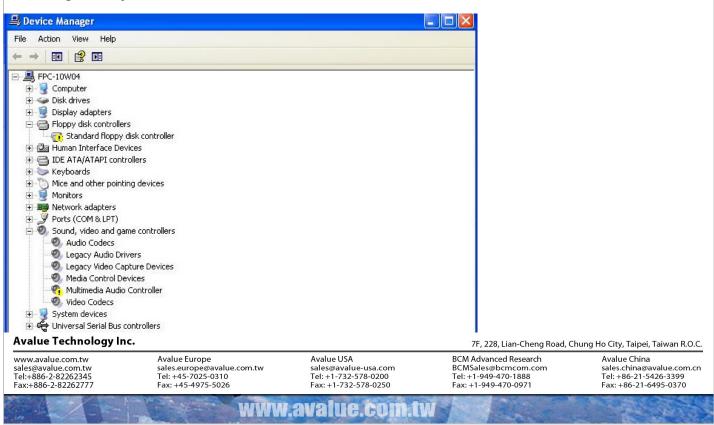
Step 5:

We have to reboot the FPC-10W04 via power switch after the peripheral have been recognized and installed. (In the time, the FPC-10W04 might be uncontrollable via touch panel, mouse even keyboard, so we have to reboot via power switch)



Step 6:

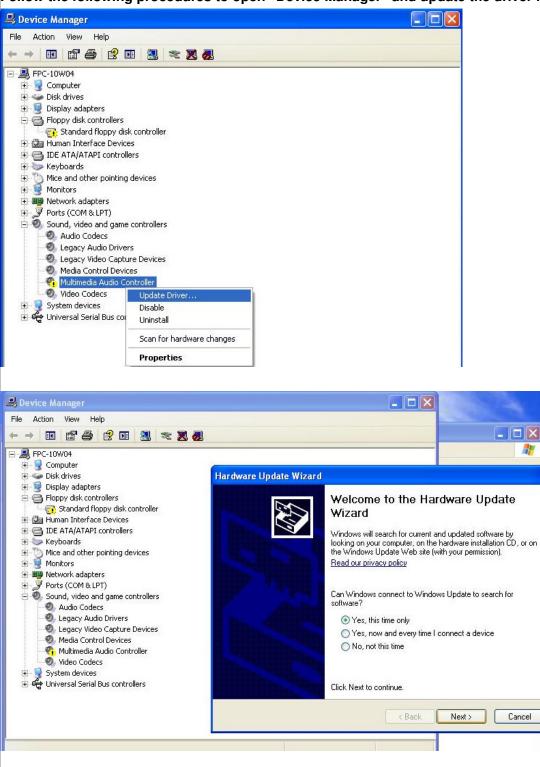
There will be one thing we have to do after reboot the FPC-10W04. To install driver for some devices which is unrecognized by OS.





Step 7:

Follow the following procedures to open "Device Manager" and update the driver for unrecognized device.



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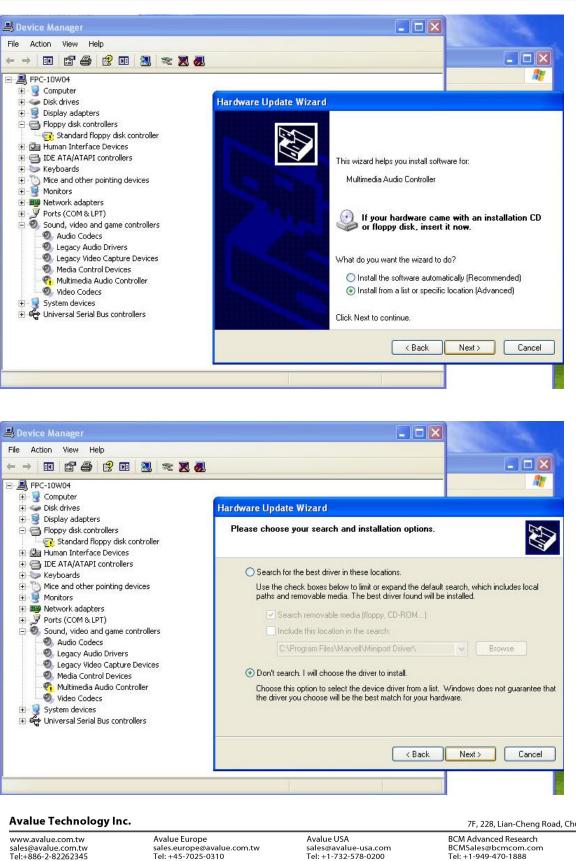
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B Device Manager	
File Action View Help	
FPC-10W04 Gomputer Disk drives Display adapters Display adapters Standard floppy disk controller Standard floppy disk controller Disk drives Display adapters Display adapters Display adapters Display disk controllers Standard floppy disk controller Disk drives Display adapters Di	Hardware Update Wizard Select the device driver you want to install for this hardware. Image: Select the manufacturer and model of your hardware device and then click. Next. If you have a disk that contains the driver you want to install, click Have Disk. Image: Show compatible hardware Model Realtek AC'97 Audio
- 🧐 Multimedia Audio Controller - 🧐 Video Codecs - 💽 🥃 System devices - 🖶 😋 Universal Serial Bus controllers	This driver is not digitally signed! Have Disk Have Disk Itell me why driver signing is important < Back Next >
B Device Manager File Action View Help ← → II II 2 2 II 2 ≈ 2 2 FPC-10W04	
 Computer Computer Disk drives Display adapters Floppy disk controllers Standard floppy disk controller Human Interface Devices IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Network adapters Ports (COM & LPT) Sound, video and game controllers Audio Codecs Legacy Audio Drivers Legacy Video Capture Devices Meta Control Devices Video Codecs System devices System devices Weta Serial Bus controllers 	Hardware Update Wizard Please wait while the wizard installs the software Image: Comparison of the software installing for this hardware: Image: Comparison of the software you are installing for this hardware: Realtek AC'97 Audio Image: Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you soto this installation now and contact the hardware vendor for software that has passed Windows Logo testing. Image: Continue Anyway STOP Installation
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Step 8:

There will be one device which is unrecognized. Which is "Standard disk controller".

It can be ignored.

The cause is "Windows 2000 and Windows XP claim IRQ-6 settings even if floppy disk controllers are not present".

Windows web site has description as below:

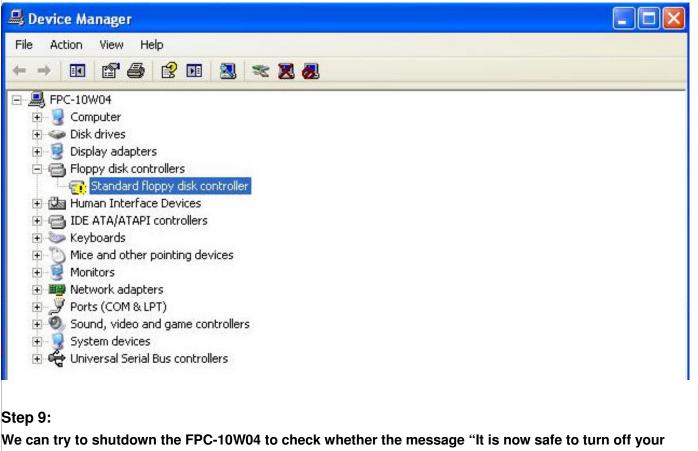
This issue can occur because in non-ACPI-based systems that use a Plug and Play BIOS,

Ntdetect.com always reports a device node for the floppy disk controller on x86-based systems.

For ACPI-based systems, Acpi.sys enumerates floppy disk controllers from BIOS tables that are exported to the operating system; only devices that are present are reported in this file.

Refer to http://support.microsoft.com/kb/275180/en-us

That means, if we used non-ACPI-based systems such as APM, that might occur.



computer" appears or not after make sure all devices driver are installed except "Standard disk controller".









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