

Multi I/O Card

User's Manual

Table of Contents

1.	Introduction.....	P.02
2.	Features.....	P.02
3.	Package Contents.....	P.02
4.	System Requirements.....	P.02
5.	Hardware Installation.....	P.03
6.	Software Installation.....	P.04
7.	Warranty Information.....	P.25

Introduction

The Multi I/O Card series has 8 models.

- ① 220N-1: One Serial Port
- ② 220N-2: Two Serial Ports
- ③ 221N-2: One Serial & One Parallel Port
- ④ 222N-2: Two Serial & One Parallel Port
- ⑤ 223NP-4: Four Serial & One Parallel Port
- ⑥ L220N-1: Low Profile One Parallel Port
- ⑦ L220N-2: Low Profile Two Parallel Port
- ⑧ L221N-2: Low Profile Two Serial Ports

Features

- Chipset: MosChip
- Single 5-V Operation
- Low Power
- PCI compatible Dual UART
- 16-byte transmit-receive FIFO (UART)
- Status report capability
- Compatible with I6C550
- Multi-mode compatible controller (SPP, PS2, EPP, ECP)
- Fast data rate up to 1.5 Mbytes/s (parallel port)
- Fast data rate up to 1 Mbytes/s (serial ports)

System Requirements

- An available PCI slot
- IBM or compatible systems with a 586 or faster processor (Pentium processor recommended)
- 128 MB System RAM
- Operating System Support : Windows 98SE / ME / 2000 / XP / NT / 2003 / VISTA

Package contents

Following items are included in the packaging box:

- PCI Card x1
- User's Manual x1
- Software Driver in CD or Disk x1
- I/O Cable (optional) x1

Hardware Installation

- Unplug all power cords and cables that may interfere with the back of the computer.
- Remove your computer's cover by removing its mounting screws with a screwdriver. Slide the cover OFF.
- Locate an unused PCI slot and insert the PCI Card into it. Ensure that it is well inserted.
- Replace the cover slot holding screw to secure the board in place.
- Replace the computer's cover and screws. Then reconnect all power cords and cables to the back of the computer.

The hardware installation is completed.

Software Installation

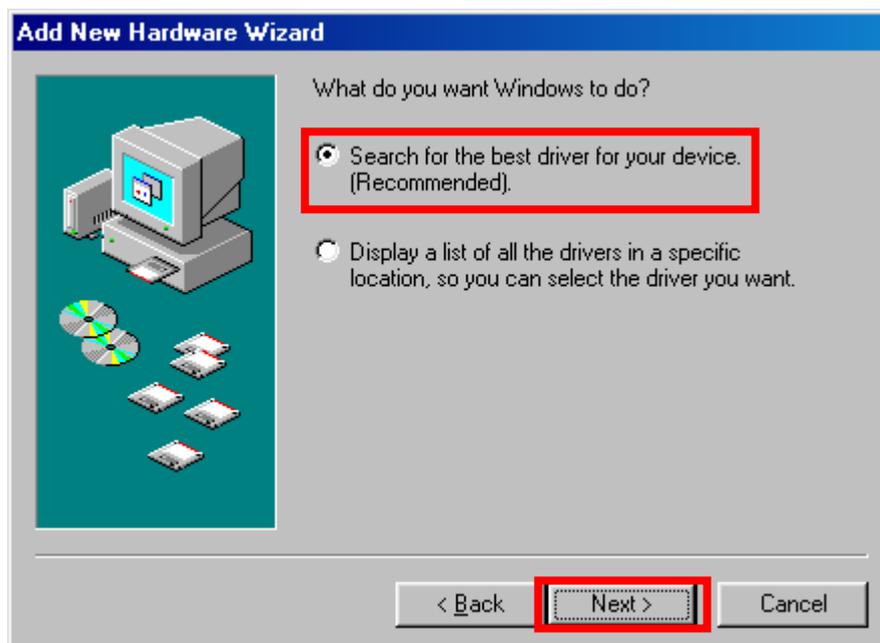
We use 『222N-2 Board』 to demonstrate for driver installation.

Windows 98SE

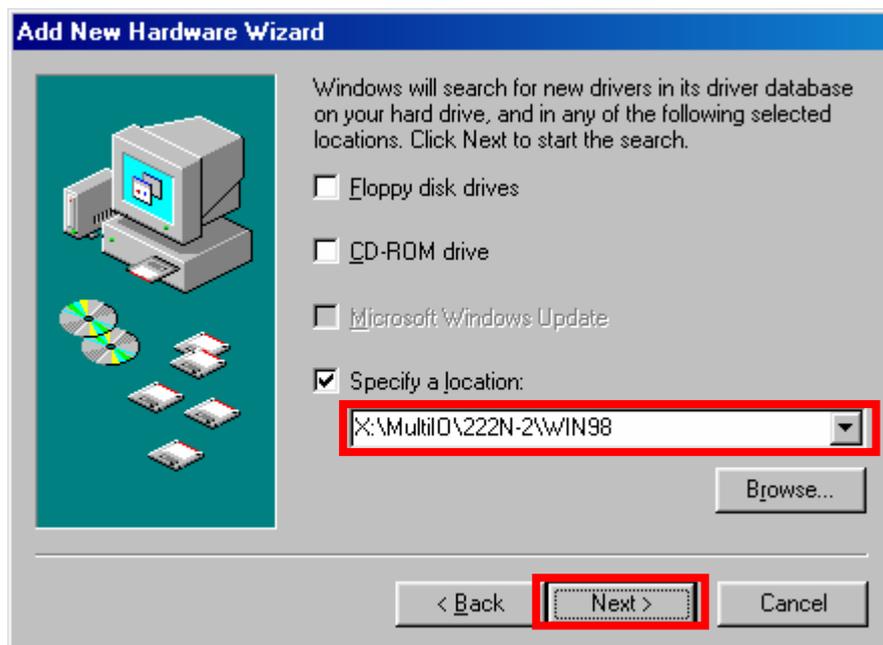
1. Click  button to continue installation.



2. Select 『Search for the ...』 and click  button to continue installation.

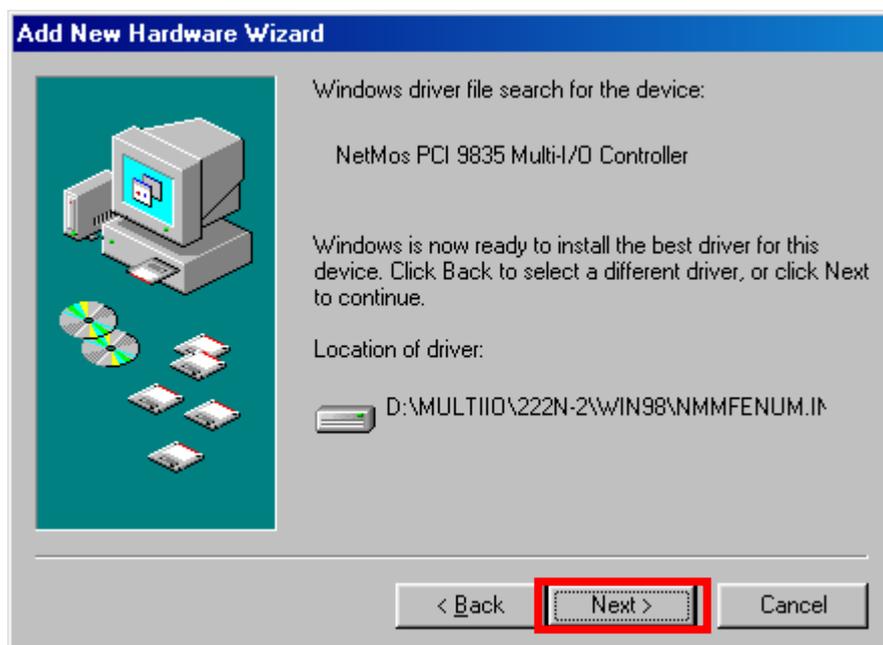


3. Browse to 『X:\MultiIO\222N-2\Driver\Win98』 and click  button to continue installation.

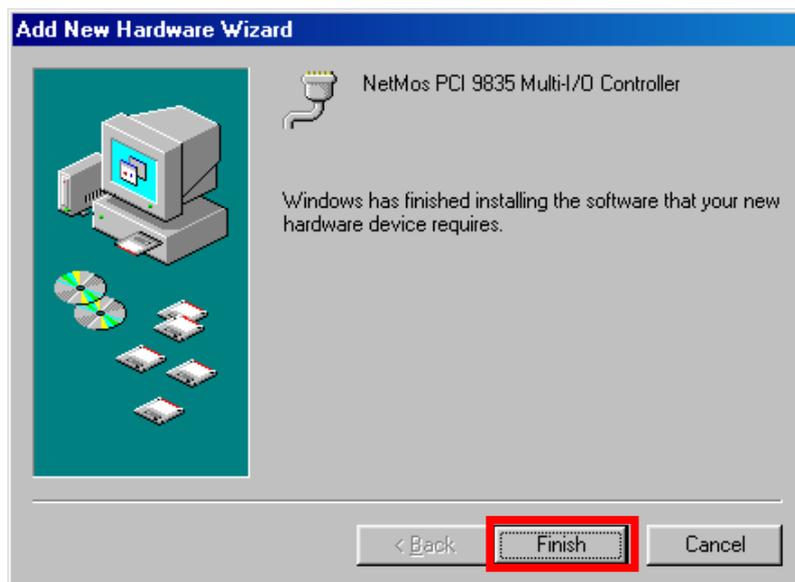


Note- X: represents the CD-ROM driver

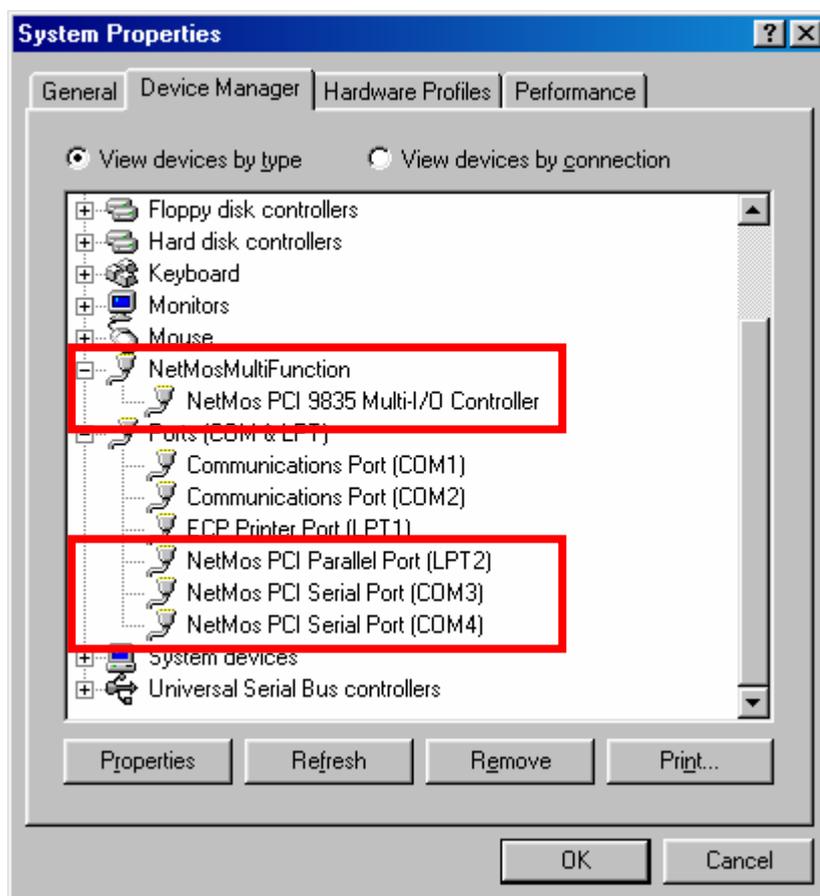
4. Click  button to continue installation.



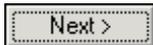
5. Click  button to finish installation.

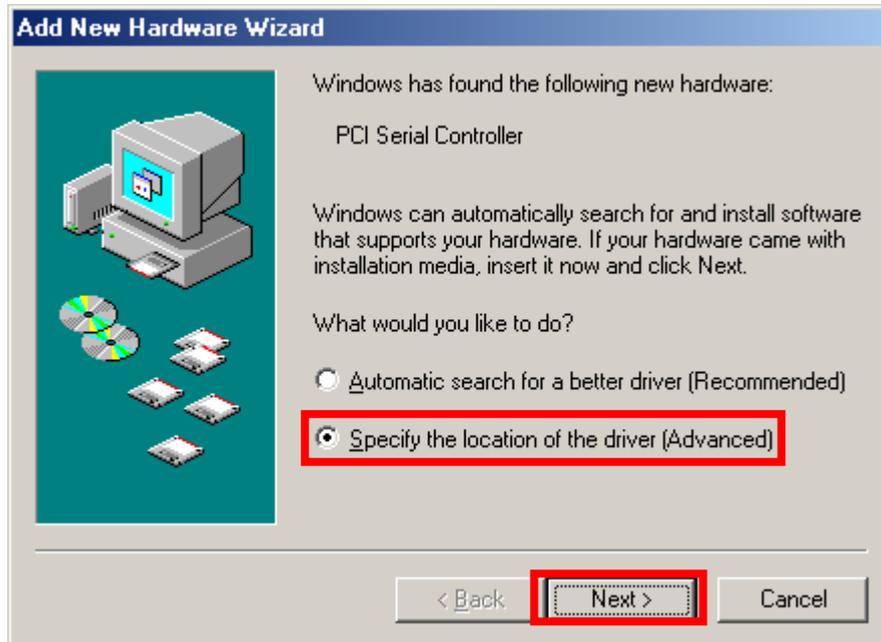


6. After your computer restarts, click 『Start』 → 『Control Panel』 then select 『System』, click on the 『Device Manager』 tab and see if the hardware was installed properly.



Windows ME

1. Select 『Specify the location ...』 and click  button to continue installation.



2. Browse to 『X:\MultiIO\222N-2\Driver\WinME』 and click  button to continue installation.

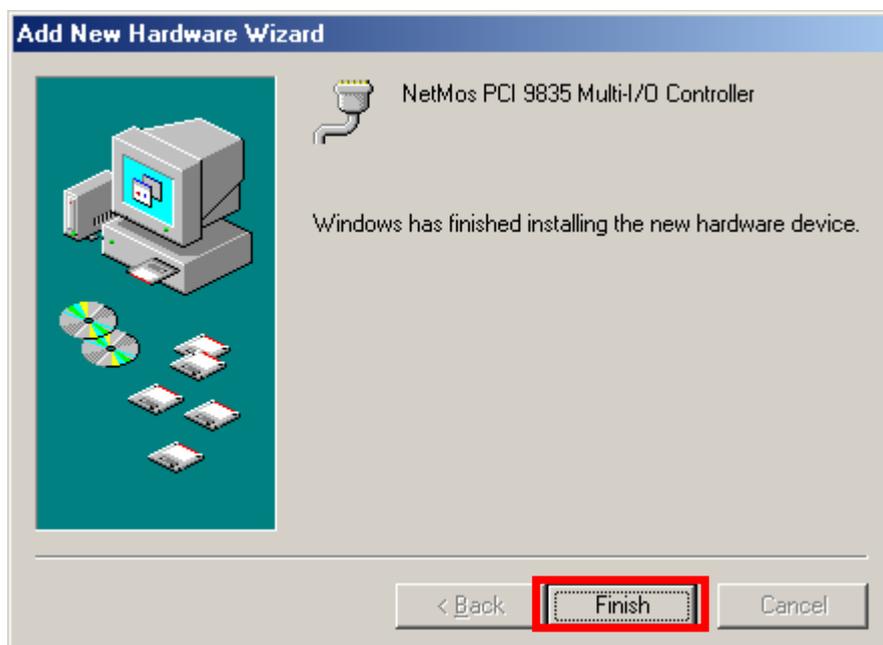


Note- X: represents the CD-ROM driver

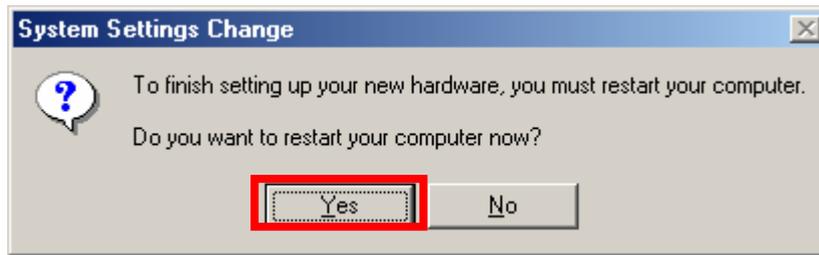
3. Click  button to continue installation.



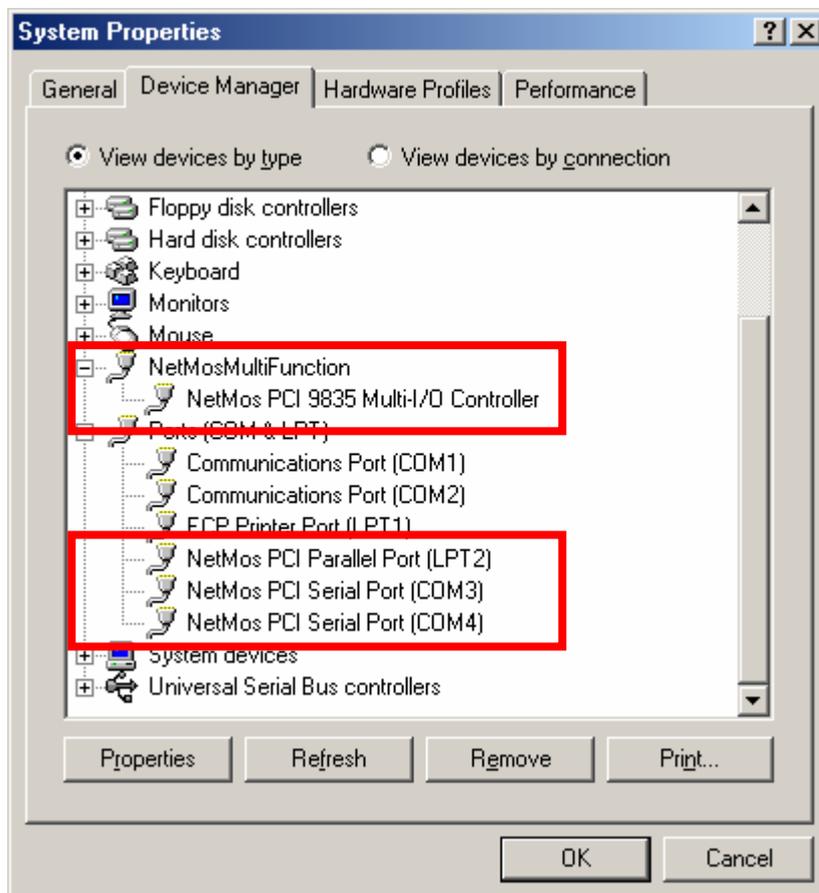
4. Click  button to continue installation.



5. Click  button to finish installation and restart the PC.



6. After your computer restarts, click 『Start』 → 『Control Panel』 then select 『System』, click on the 『Device Manager』 tab and see if the hardware was installed properly.



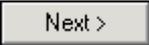
Windows 2000

1. Click  button to continue installation.



2. Select 『 Search for a ... 』 and click  button to continue installation.



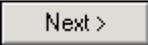
3. Select 『Specify a location』 and click  button to continue installation.

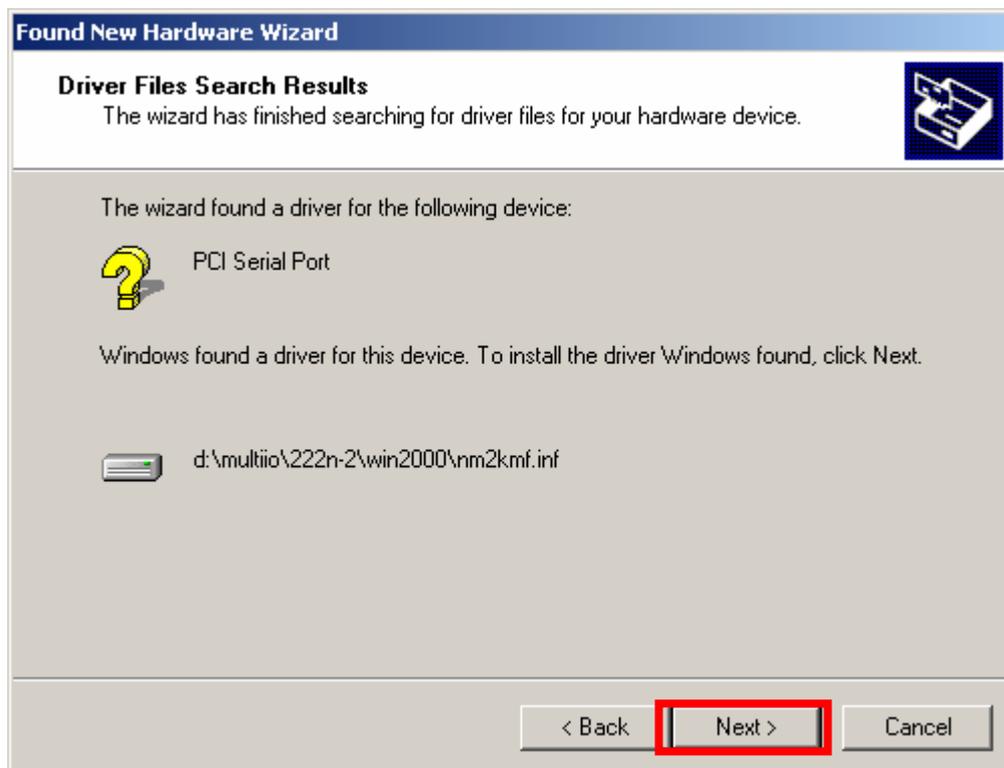


4. Browse to 『X:\MultiIO\222N-2\Driver\Win2000』 and click  button to continue installation.



Note- X: represents the CD-ROM driver

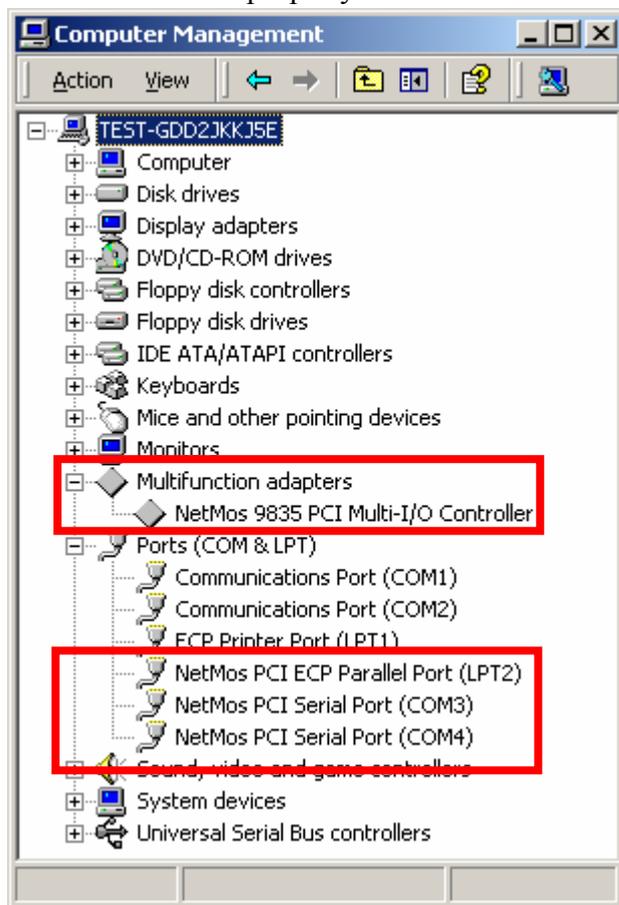
5. Click  button to continue installation.



6. Click  button to continue installation.



7. After your computer restarts, click 『Start』 → 『Settings』 → 『Control Panel』 then select 『System』, click on the 『Device Manager』 tab and see if the hardware was installed properly.

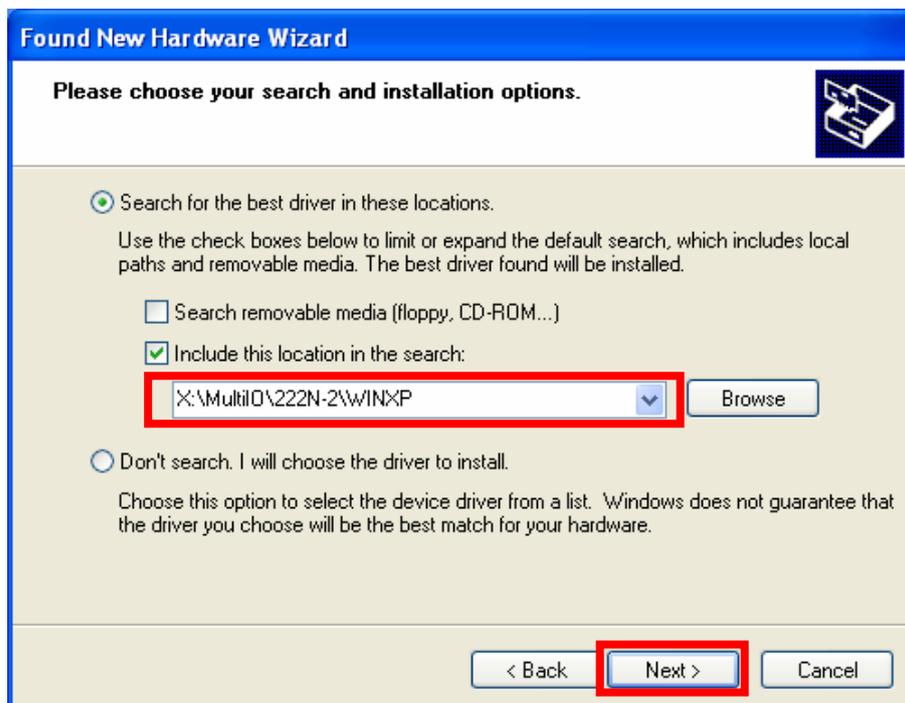


Windows XP

1. Select 『Install from a ... 』 and click  button to continue installation.

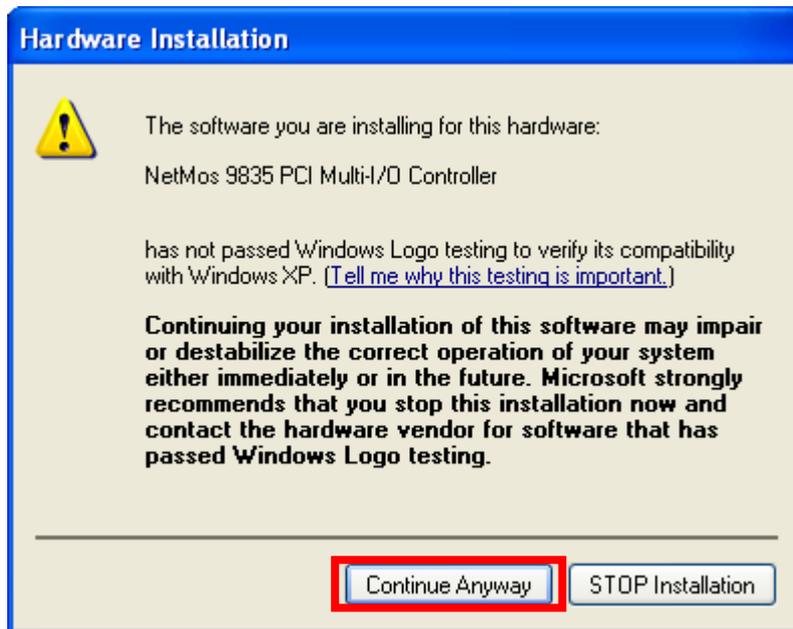


2. Browse to 『 X:\MultiIO\222N-2\Driver\WinXP 』 and click  button to continue installation.

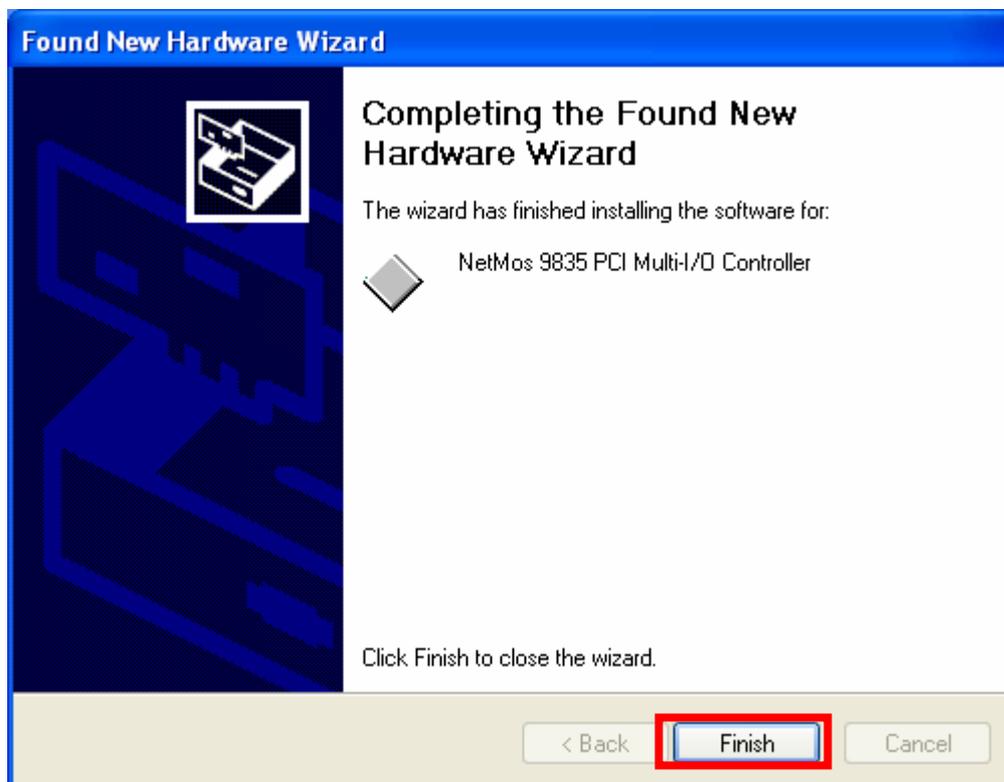


Note- X: represents the CD-ROM driver

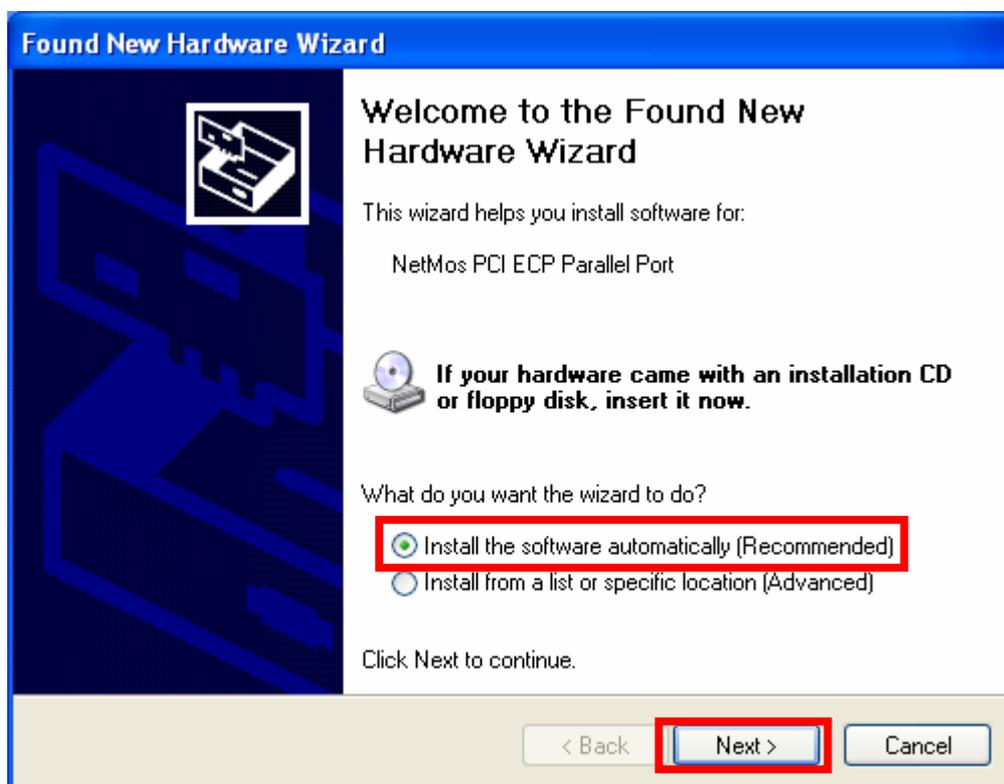
3. Click button to continue installation.



4. Click button to continue installation.



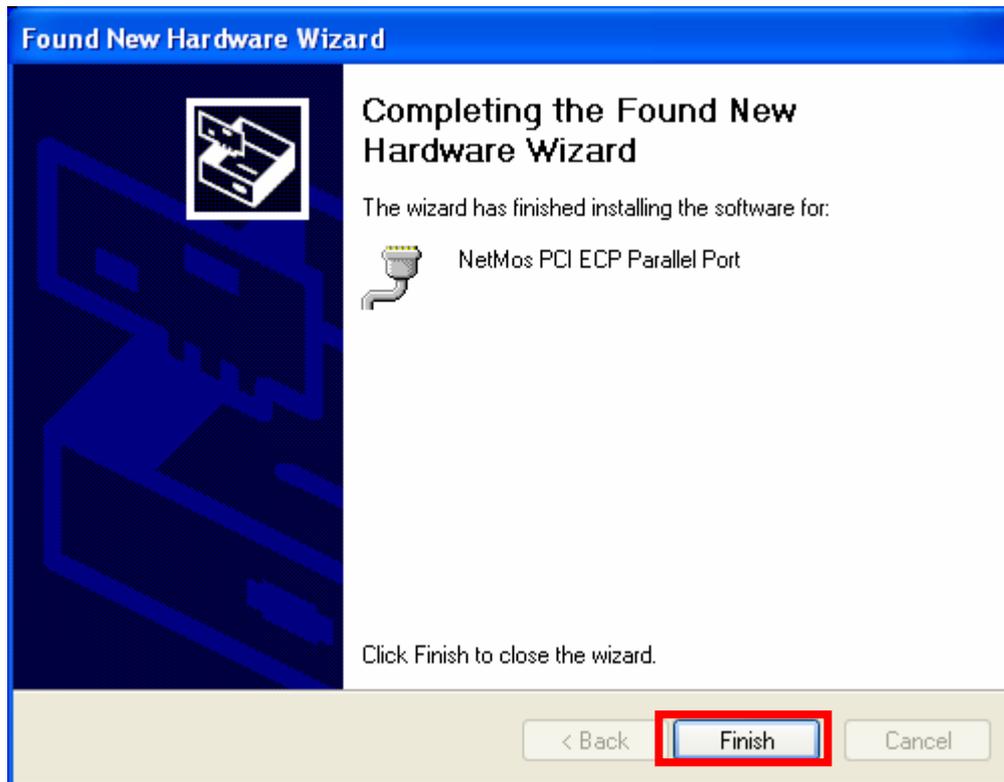
5. Select 『Install the software ...』 and click  button to continue installation.



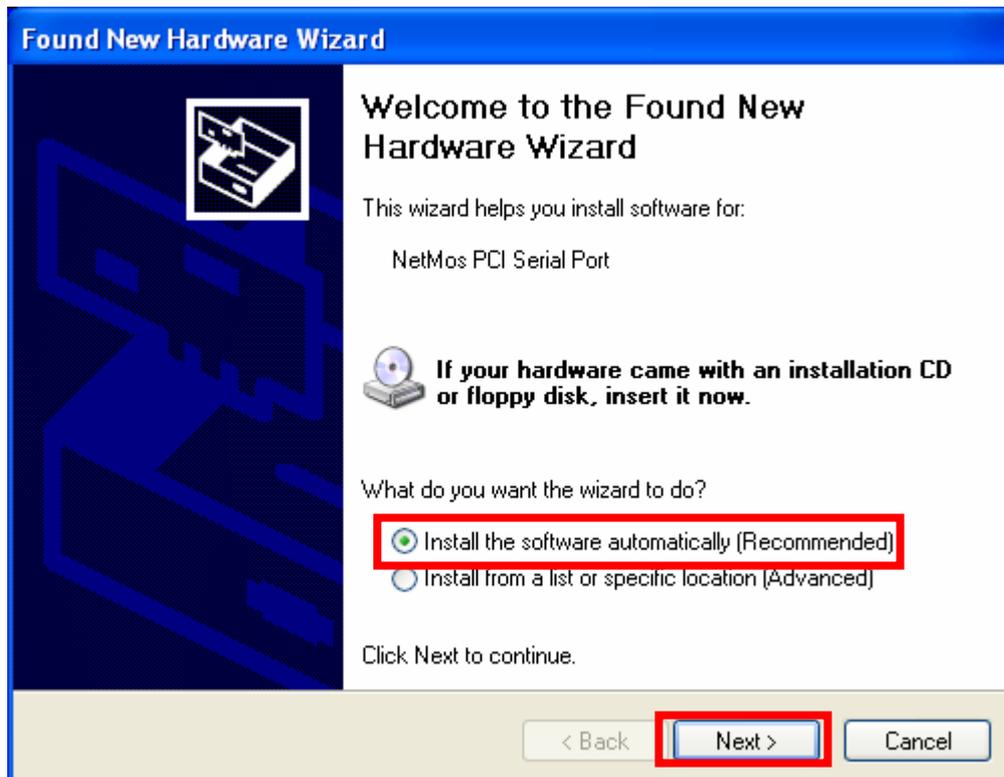
6. Click  button to continue installation.



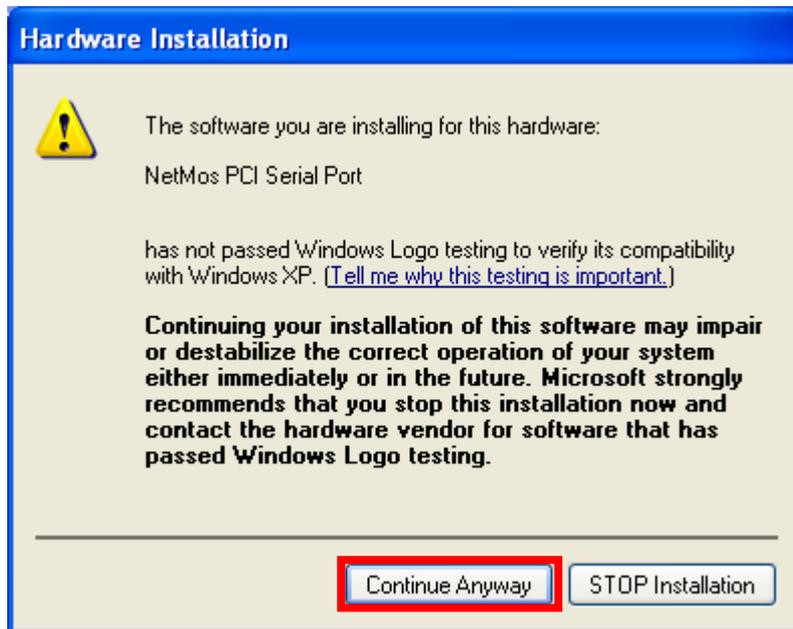
7. Click  button to continue installation.



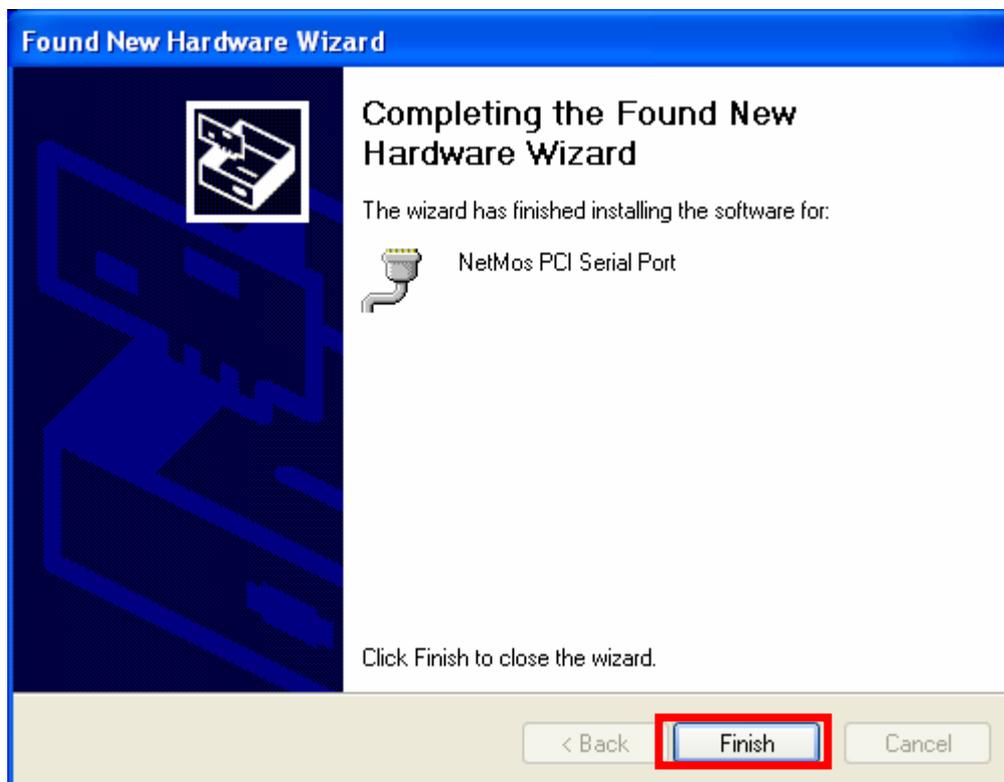
8. Select 『Install the software ...』 and Click  button to continue installation.



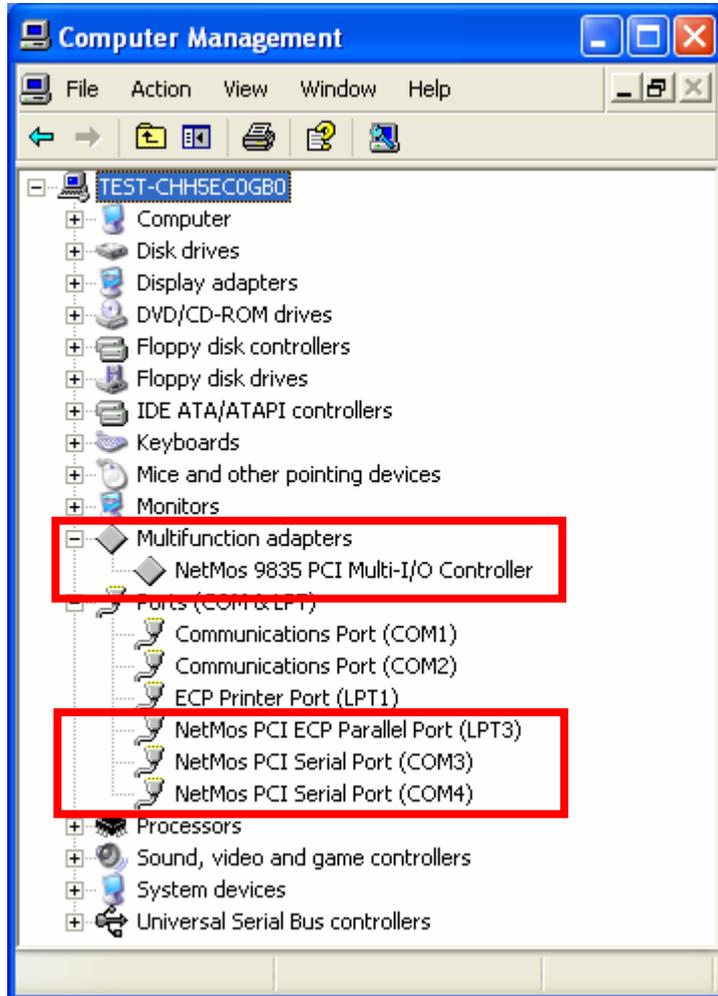
9. Click button to continue installation.



10. Click button to continue installation.



11. Repeat step from 8 to 10 to install serial port again.
12. Click 『 Start 』→『 Control Panel 』 then select 『 System 』→『 Hardware 』, check device information on 『 Device Manager 』 .



Windows Vista

1. Select 『Locate and install driver software (recommended)』 to start the installation.
2. Click on 『I don't have the disc. Show me other options.』 to proceed further.
3. Select the option 『Browse my computer for driver software (advanced)』 .
4. Select the location of the driver disk by using the option 『Browse』 and click on 『Next』 .
5. 『Install this driver software anyway』 ” to proceed with driver installation.
6. Click on 『Close』 to complete the driver installation.
7. The Serial / Parallel ports of PCI Card will automatically get detected by the OS without user intervention.

Driver Installation in Windows Vista 64-bit:

The 64-bit version of Windows Vista is the first version of Windows that will only allow signed drivers and this restriction is built-in. Currently, MCS98XX drivers are unsigned. Till we get signed drivers, we request you to follow some prerequisites before installing the driver.

Preparing Vista 64-bit for Driver installation:

- Using the F8 option: Press F8 key on your keyboard while booting your PC. You will get into “Advanced Boot Options”. Select “Disable Driver Signature Enforcement”.
- An F8 Advanced Boot Option introduced with Windows Vista—“Disable Driver Signature Enforcement”—is available to disable the kernel-signing enforcement only for the current boot session. This setting does not persist across boot sessions. Note: Make sure to use F8 option every time you boot/reboot your PC before start working with PCI Card
- Make sure that the User installing the driver must be a member of the Administrator group on the system.

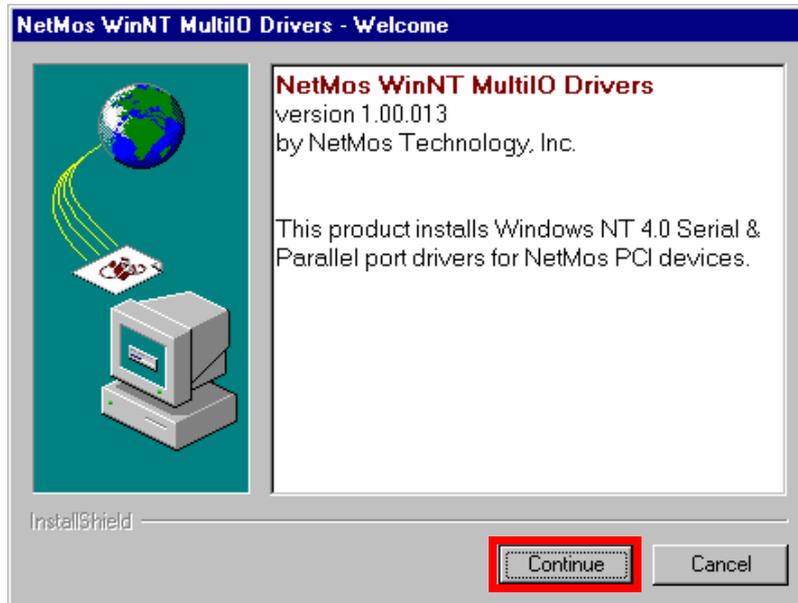
You will get a “User Account Control” window saying “An unidentified program wants access to your computer”. Click on Allow to continue installing the Driver.

Windows NT4

1. Select 『NetMosWinNTMultiIODrivers.EXE』 file from

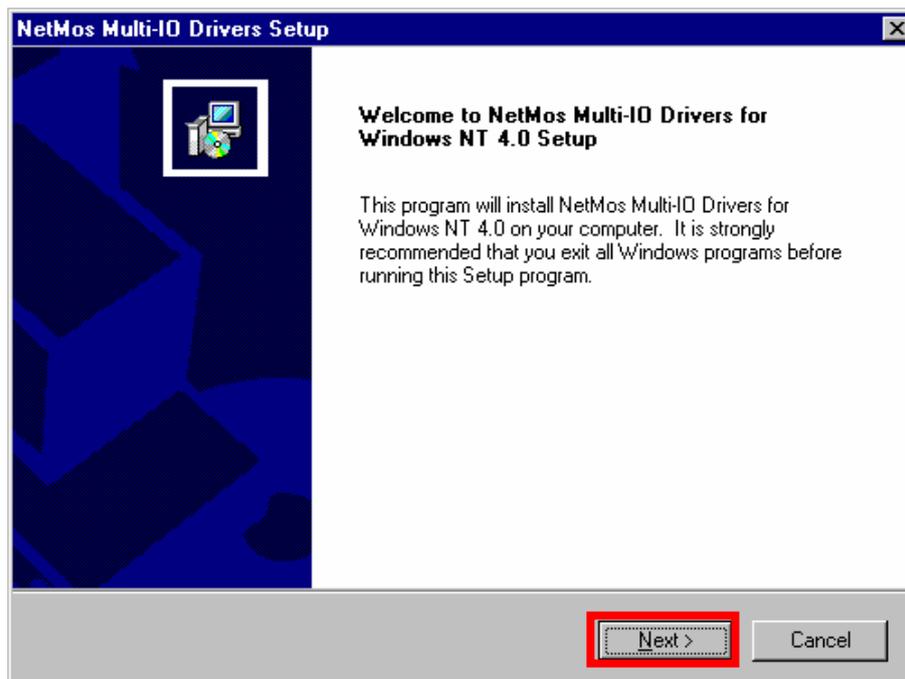
『X:\MultiIO\222N-2\Driver \WinNT directory and click  button to

continue installation.

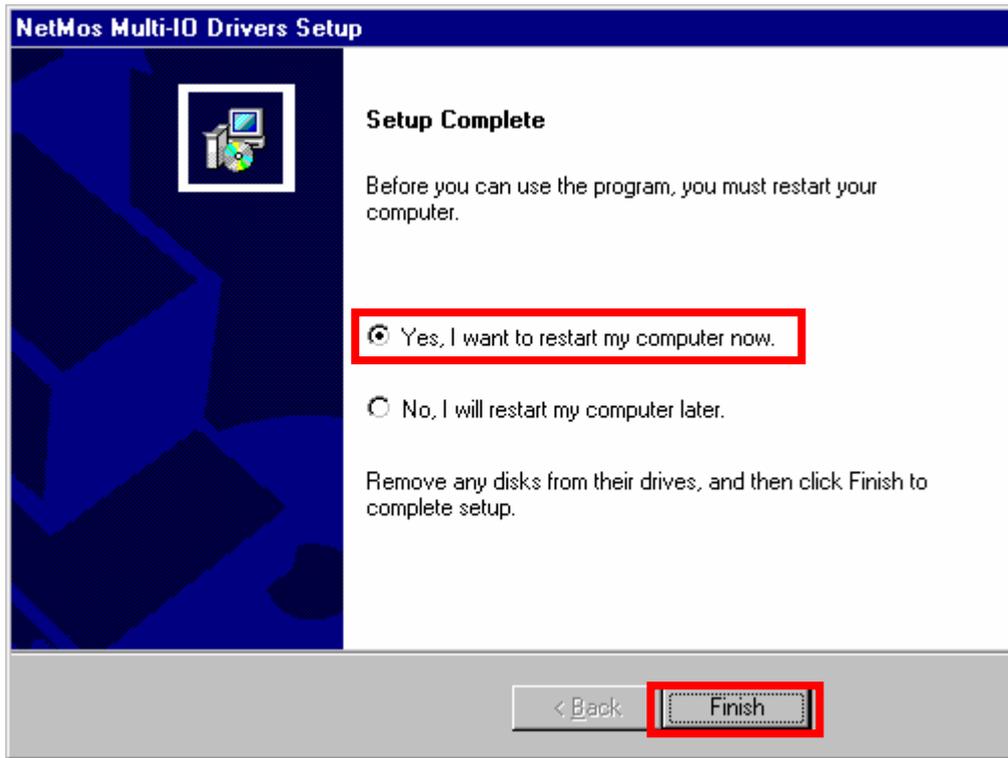


Note- X: represents the CD-ROM driver

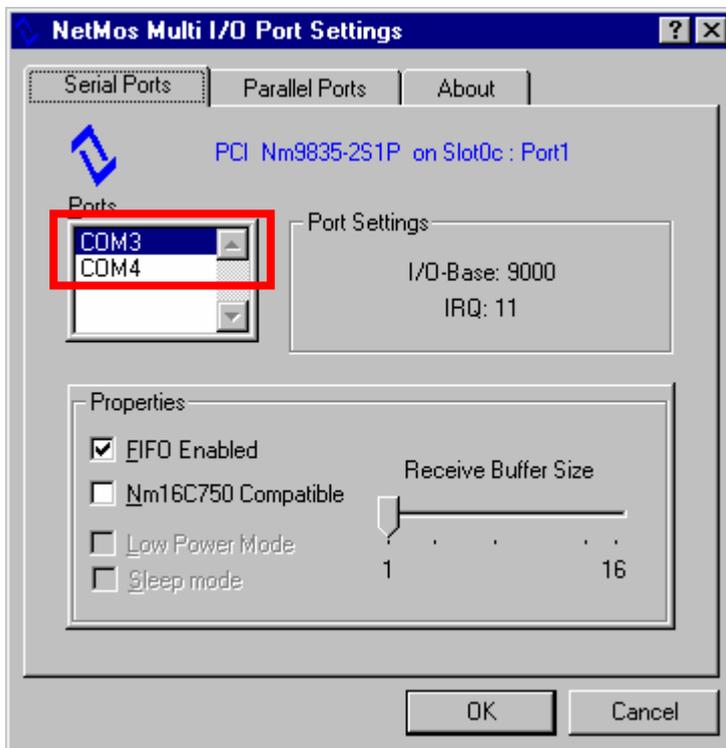
2. Click  button to continue installation.



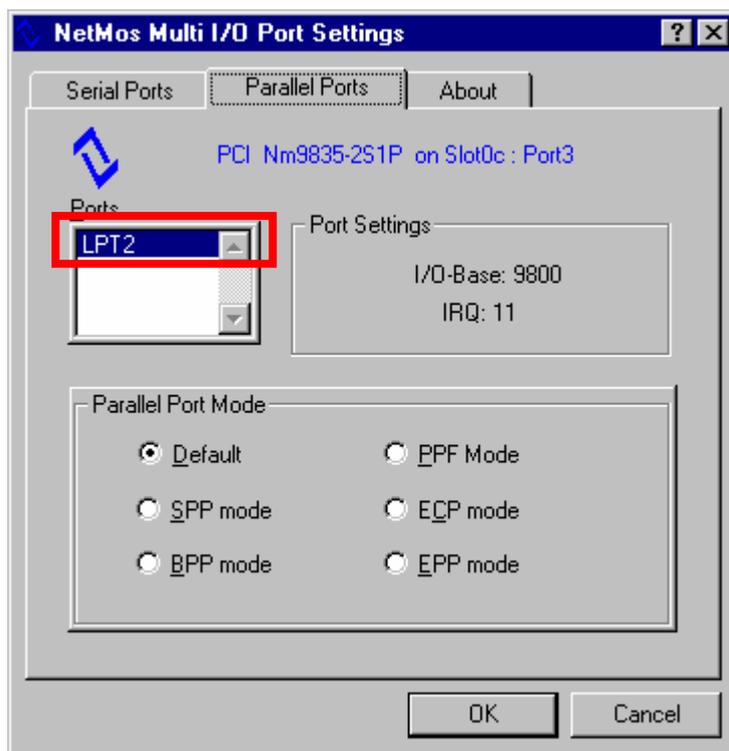
3. Select 『Yes, I want to ...』 and click  button to finish installation.



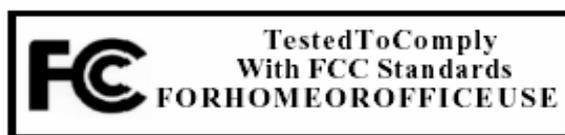
4. Open 『Control Panel』 from 『My Computer』 and click 『NetMos Multi-I/O Ports』



5. Open 『Control Panel』 from 『My Computer』 and click 『NetMos Multi-I/O Ports』



Warranty Information



This device is in conformance with Part 15 of the FCC Rules and Regulations for Information Technology Equipment. Operation of this product is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B Computing Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

IMPORTANT

Any changes or modifications not expressly approved by the party responsible for the compliance could void the user's authority to operate this equipment. This product requires the use of shielded cables in order to comply with FCC requirements.

22XN-X_L22XN-X_22XP-X Rev 1.2