Connect Tech Inc.

Industrial Strength Communications

FreeForm/104 Windows

Install Guide

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Original

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1 Getting Started

1.1 Introduction

Welcome to the Windows FreeForm/104 Installation Guide.

This installation guide will walk you step by step through the software driver installation of the FreeForm/104. The screenshots used in this document were all taken from Windows XP, but will apply to all support versions of Microsoft Windows with slight variances.

1.2 Supported Windows Operating Systems

As of January 25, 2007, the following windows operating systems are supported with the FreeForm/104 Windows driver:

32-Bit Operating Systems

- Windows 2000
- Windows XP
- Windows Server 2003
- Windows Vista

64-Bit Operating Systems

- Windows XP x64
- Windows Server 2003 x64
- Windows Vista x64

1.3 Obtaining Driver Files

For driver updates, manuals, and installation guides please check the Connect Tech Download Zone at http://www.connecttech.com/asp/Support/DownloadZone.asp.

1.4 Contacting Technical Support

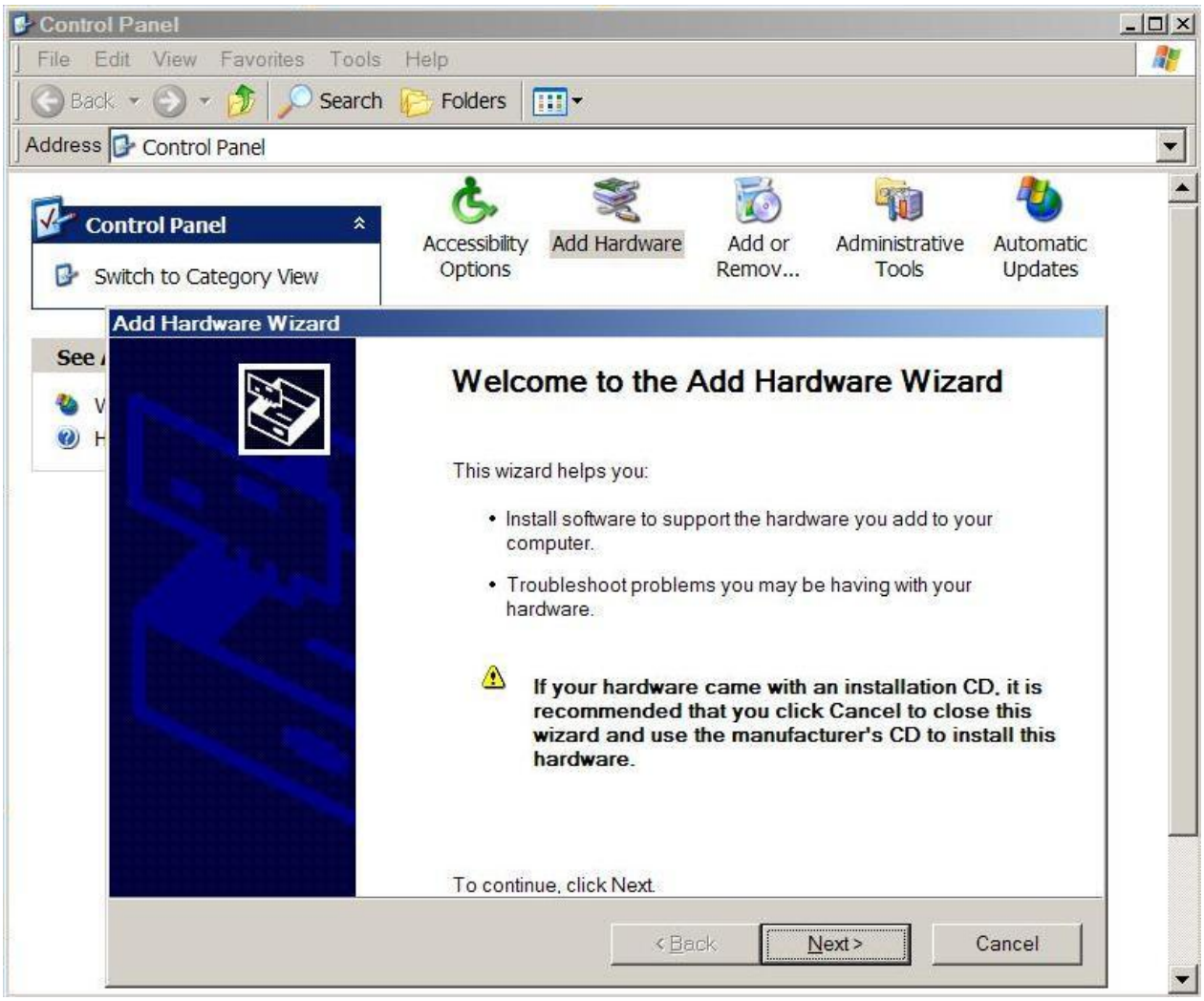
If you require assistance please check the Connect Tech product manuals, specification sheets, or Knowledge Database (KDB) at http://www.connecttech.com/sub/Support/Support.asp.

If you have any further questions please contact the Technical Support department by email at support@connecttech.com.

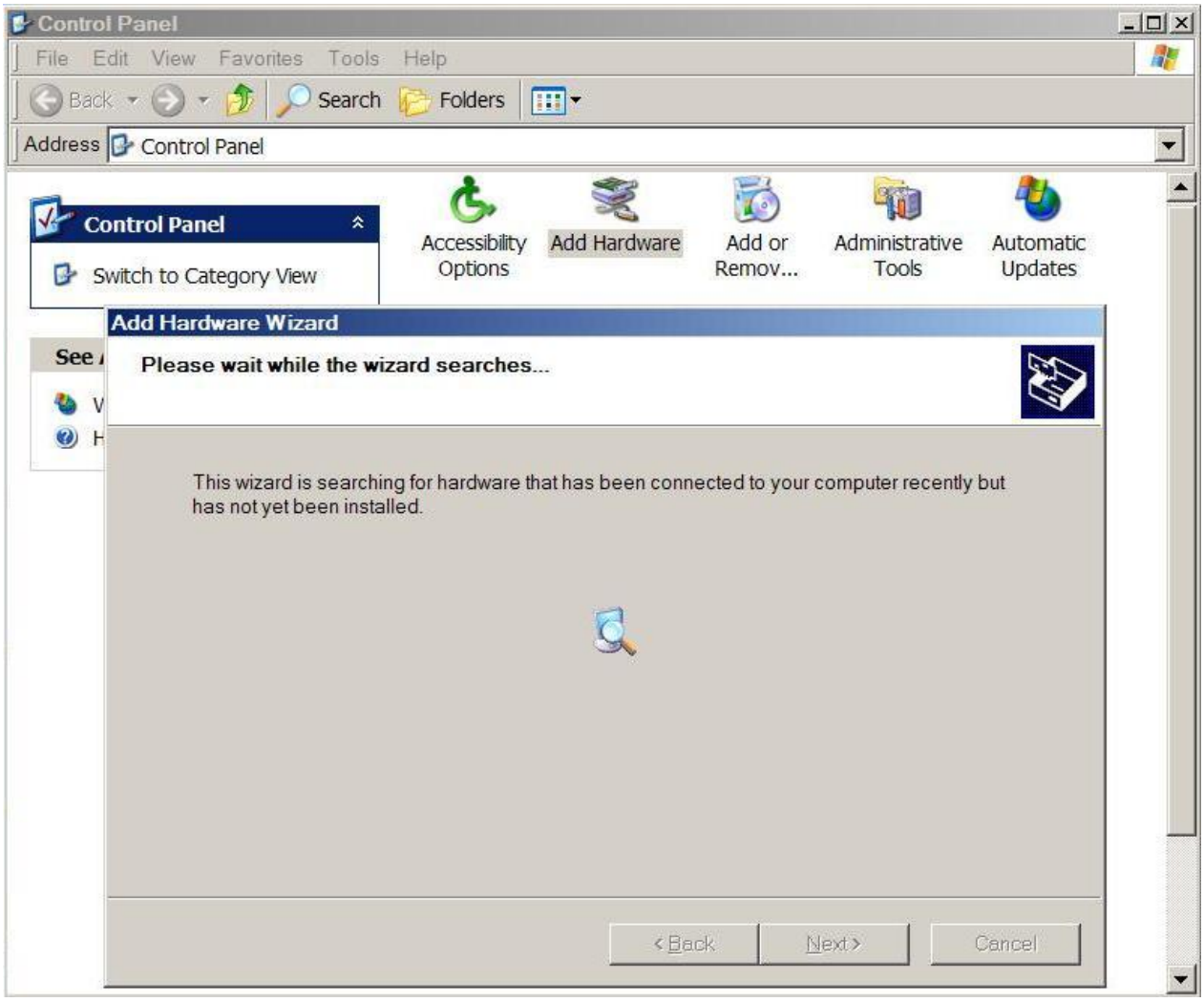
2 Setting Up the FreeForm/104 in Windows

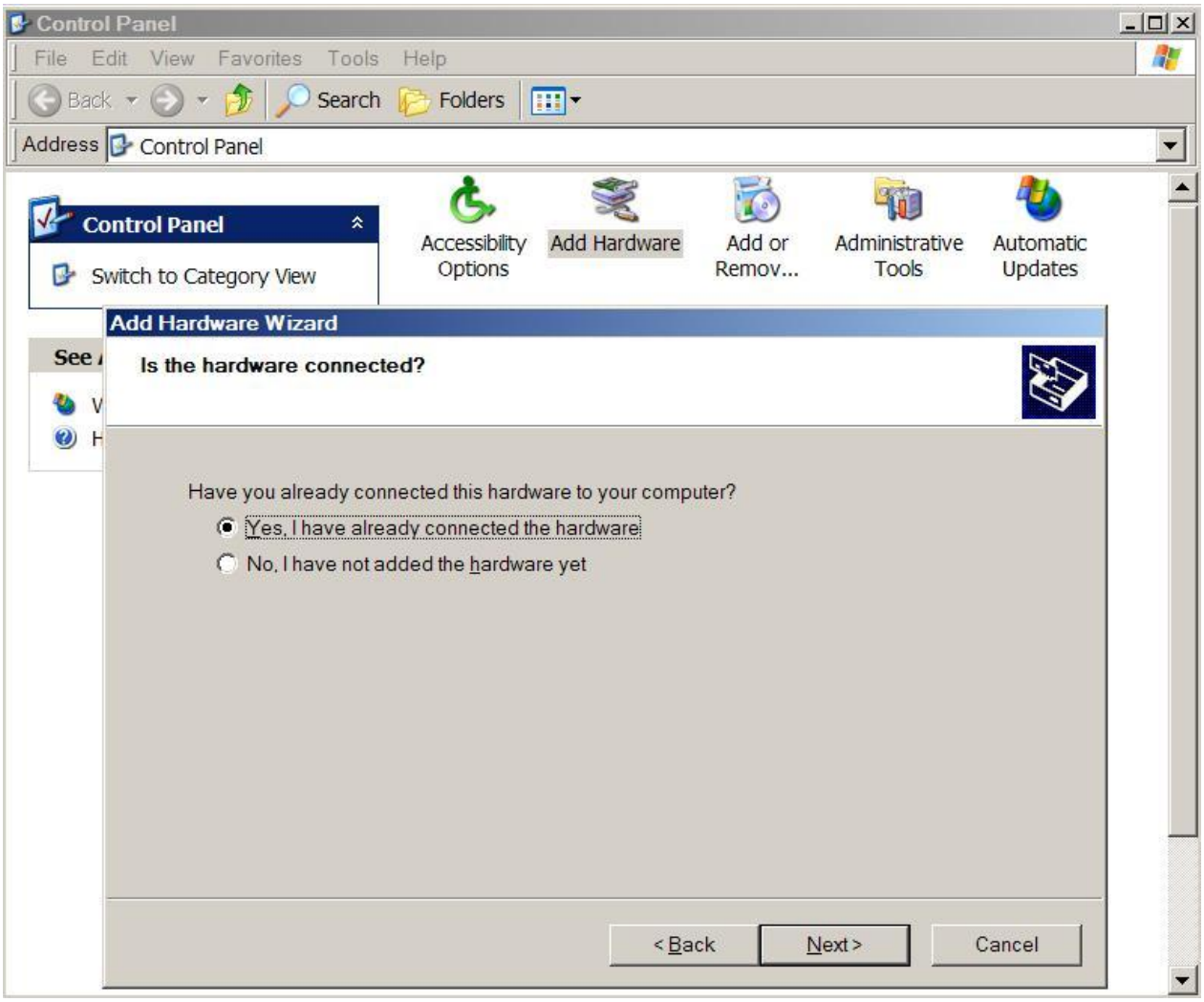
2.1 Installing Driver Files

To begin installation, open the ‘Add Hardware’ wizard from the “Control Panel”.

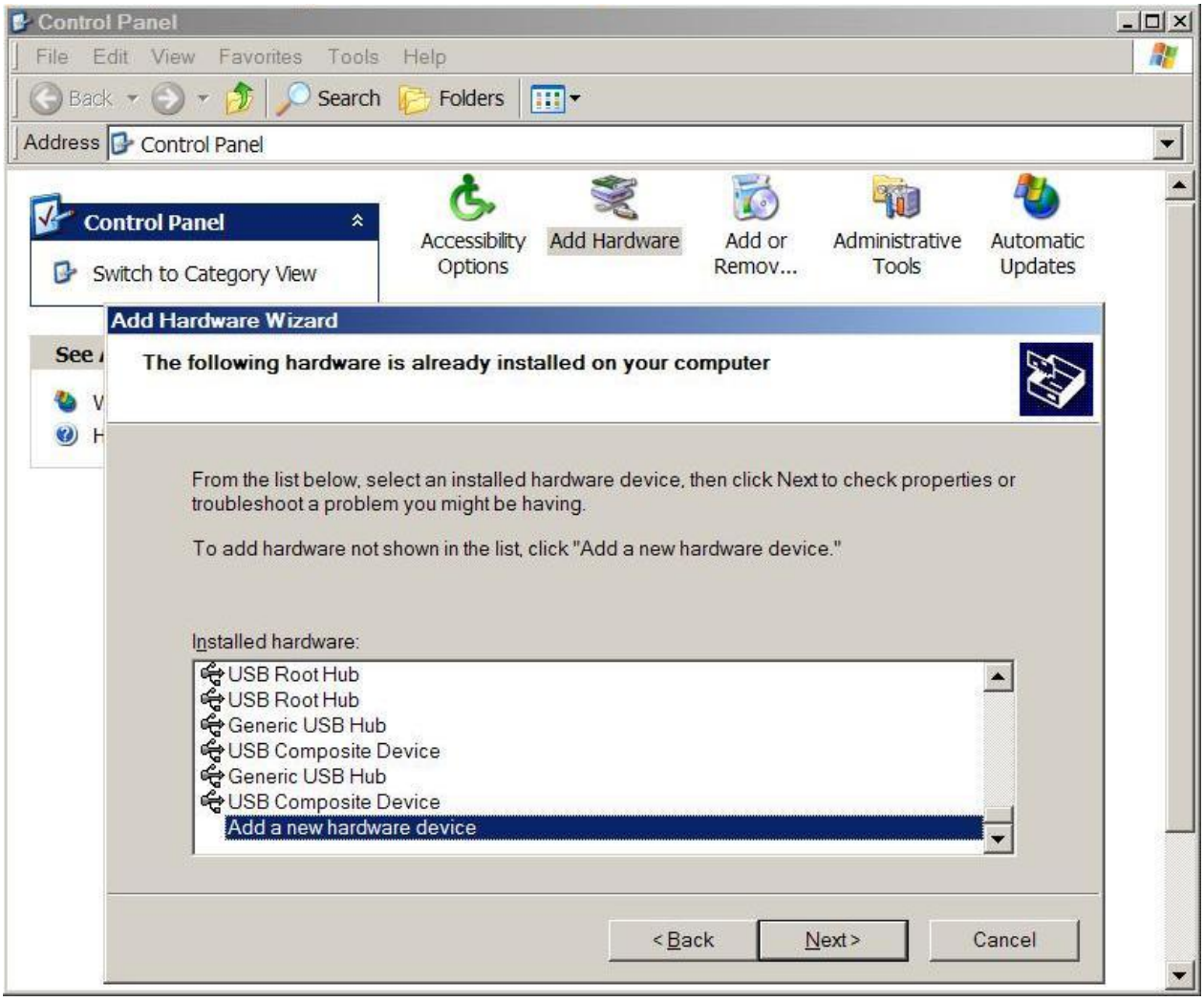


Click ‘Next’.

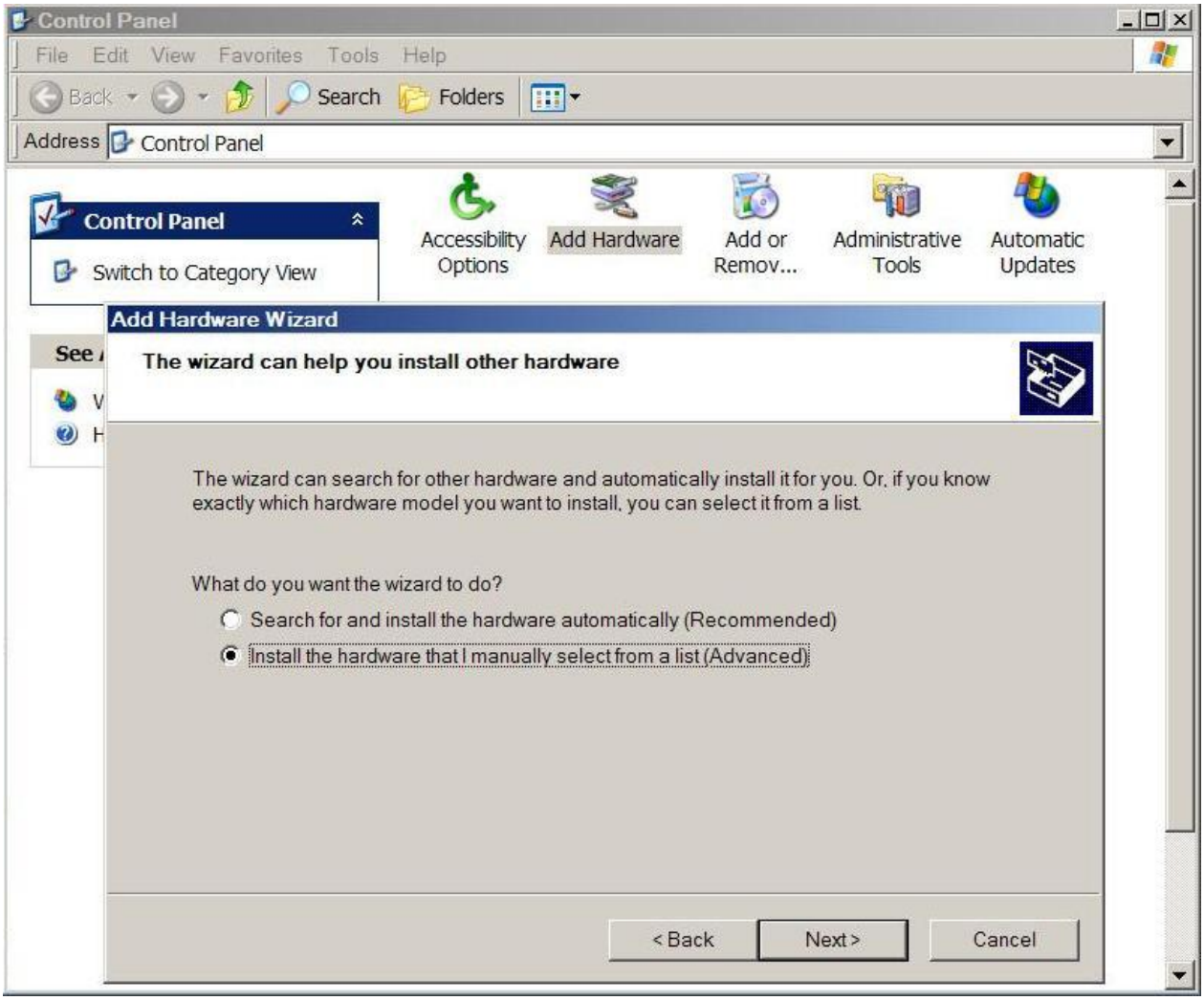

Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel
Control Panel
Switch to Category View
Accessibility Options
Add Hardware
Add or Remov...
Administrative Tools
Automatic Updates
Add Hardware Wizard
Please wait while the wizard searches...
This wizard is searching for hardware that has been connected to your computer recently but has not yet been installed.
< Back
Next >
Cancel



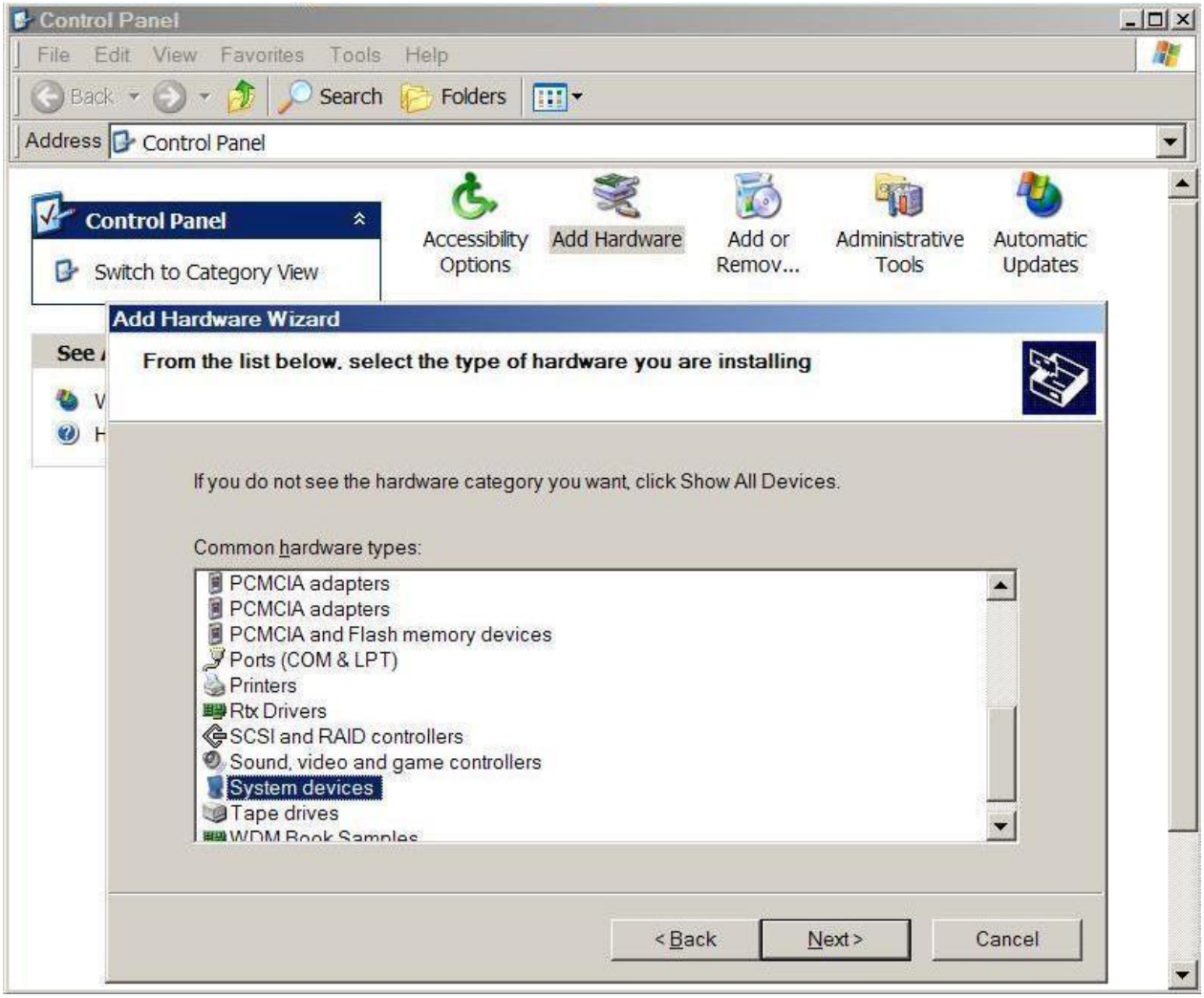
Check ‘Yes, I have already connected the hardware’. Click ‘Next’.



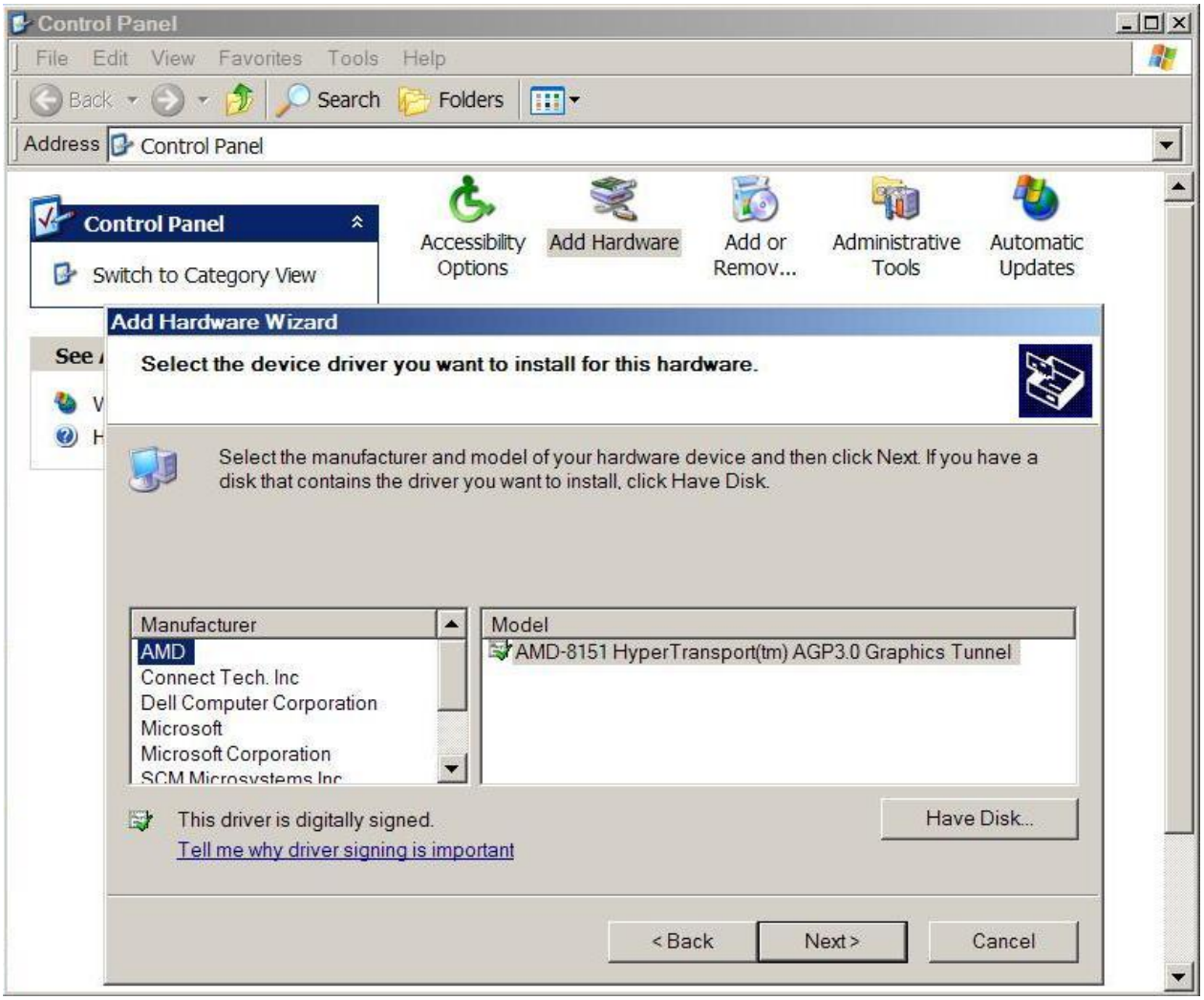
Select ‘Add a new hardware device’ and Click ‘Next’.



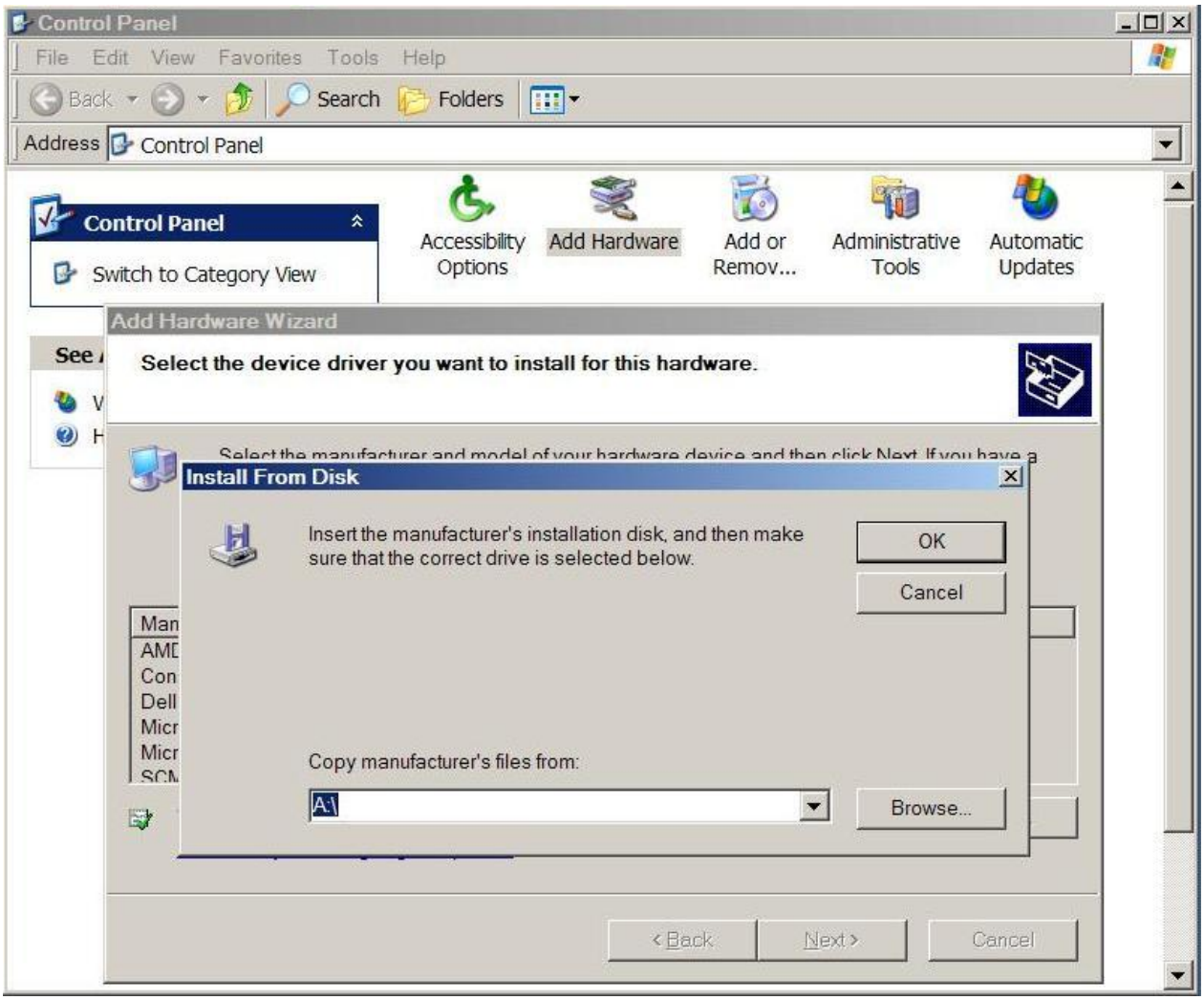
Select ‘Install the hardware that I manually select from a list’ and click ‘Next’.



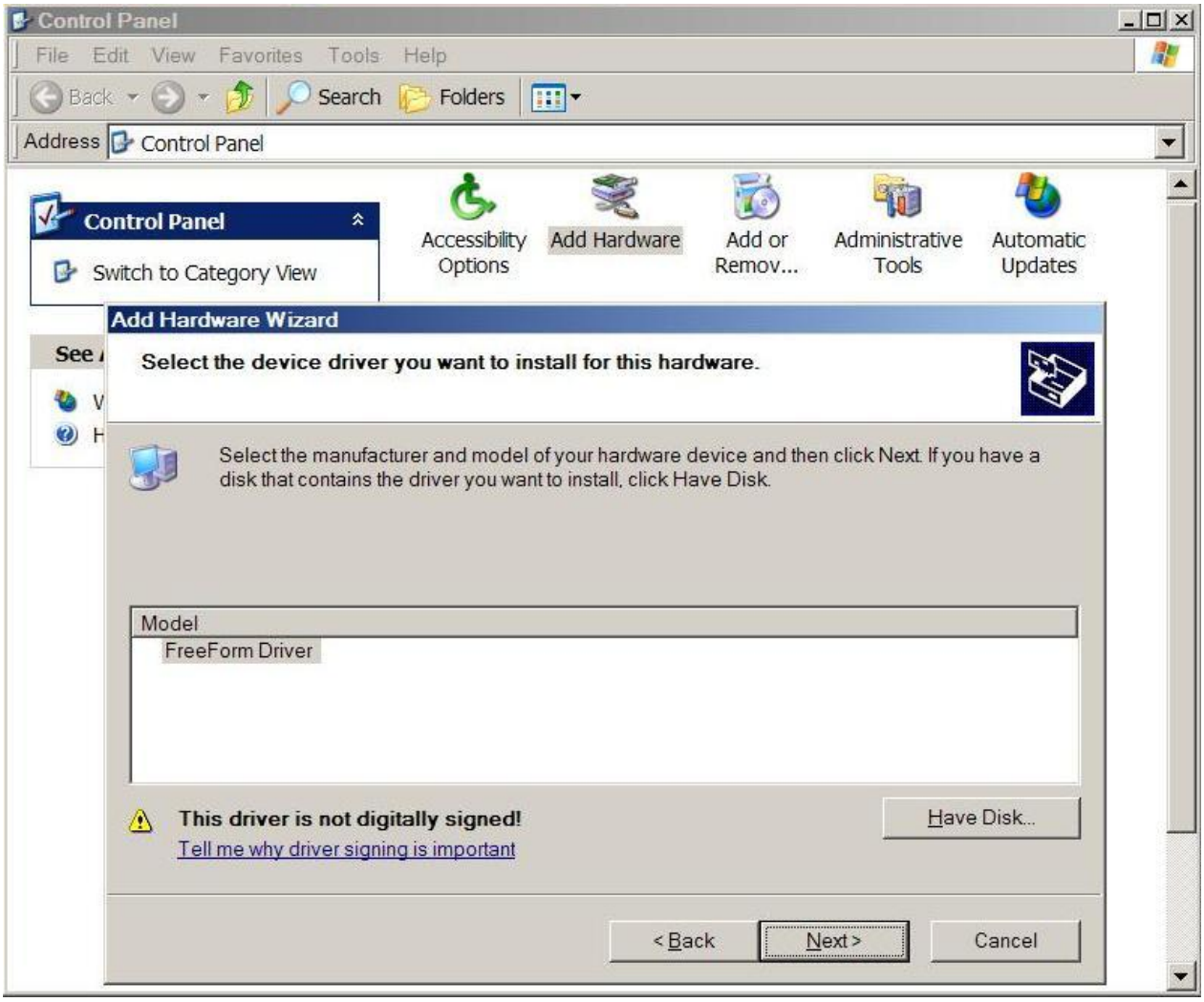
Select ‘System devices’ and click ‘Next’.



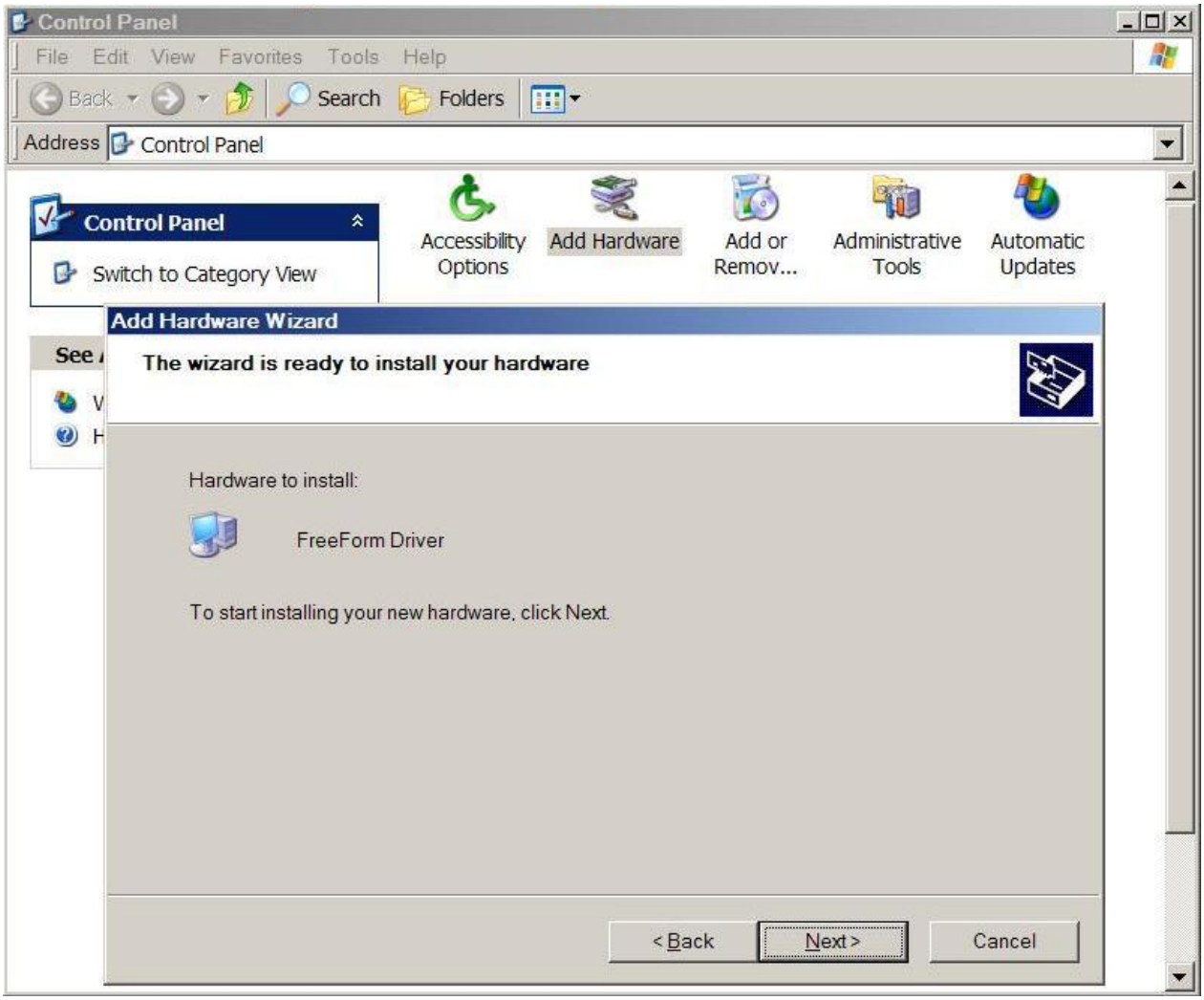
Click on ‘Have Disk’.



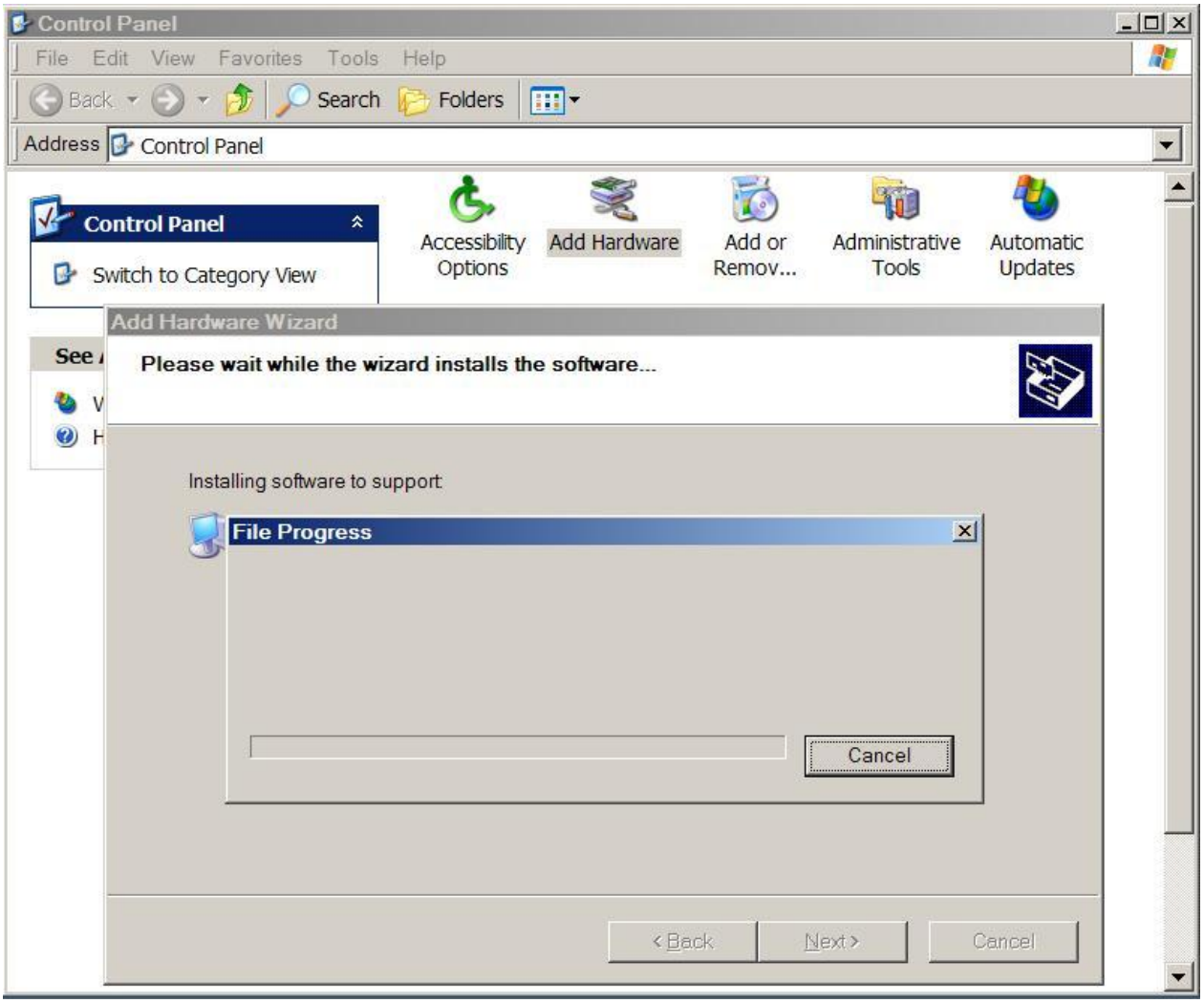
Click ‘OK’ if the files are copied to a floppy disk, otherwise browse the path and click ‘OK’.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel
Control Panel
Switch to Category View
Accessibility Options
Add Hardware
Add or Remov...
Administrative Tools
Automatic Updates
Add Hardware Wizard
Select the device driver you want to install for this hardware.
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.
Model
FreeForm Driver
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

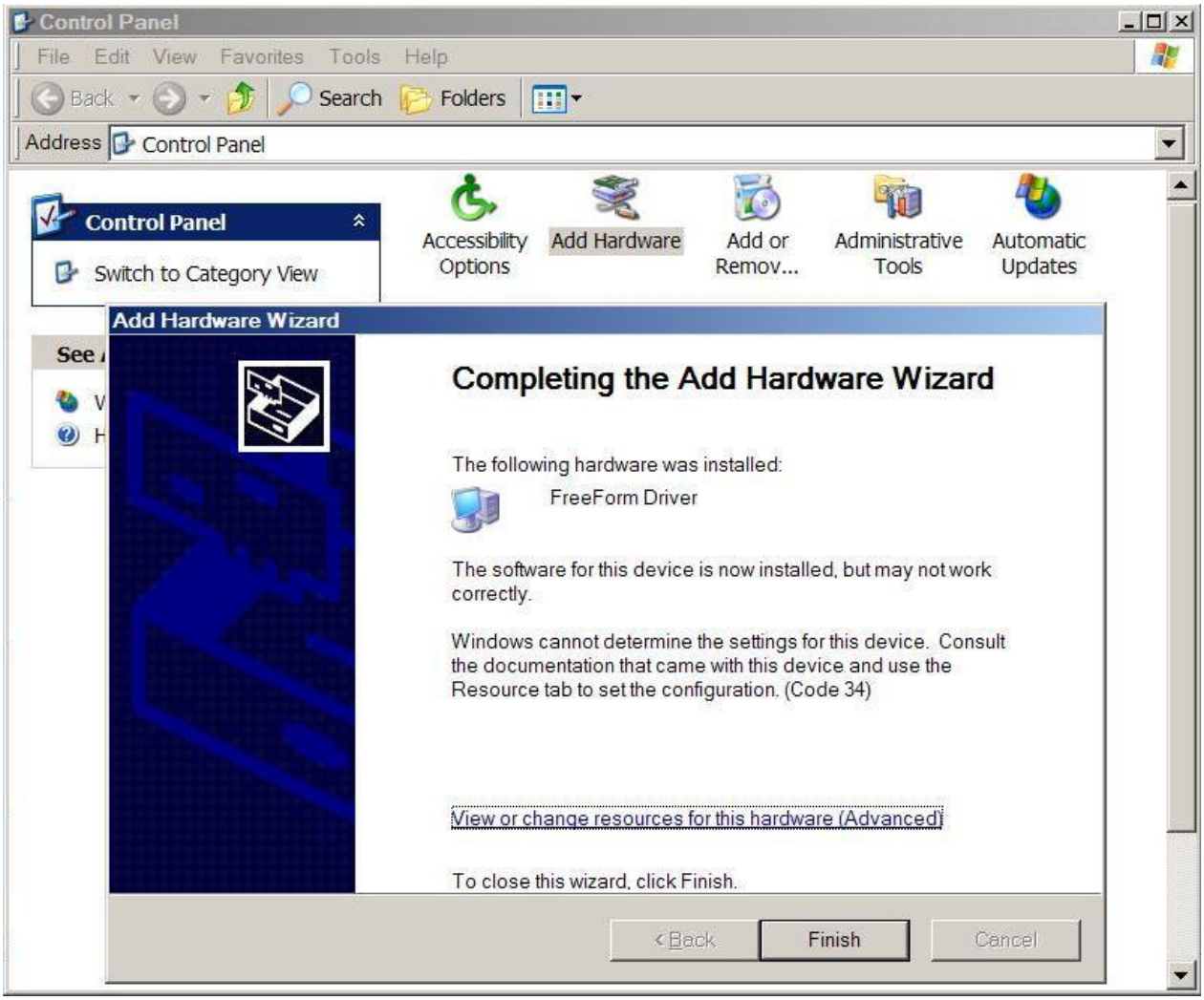
Click ‘Next’.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Address Control Panel
Control Panel
Switch to Category View
Accessibility Options
Add Hardware
Add or Remov...
Administrative Tools
Automatic Updates
Add Hardware Wizard
The wizard is ready to install your hardware
Hardware to install:
FreeForm Driver
To start installing your new hardware, click Next.
< Back
Next >
Cancel

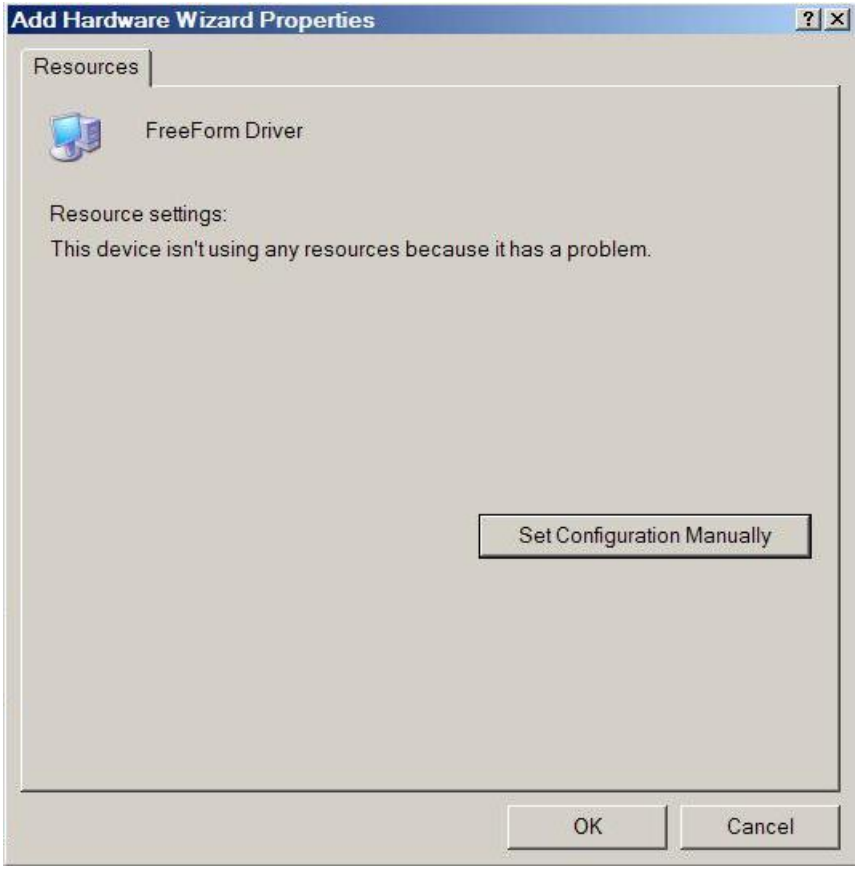
Click ‘Next’.



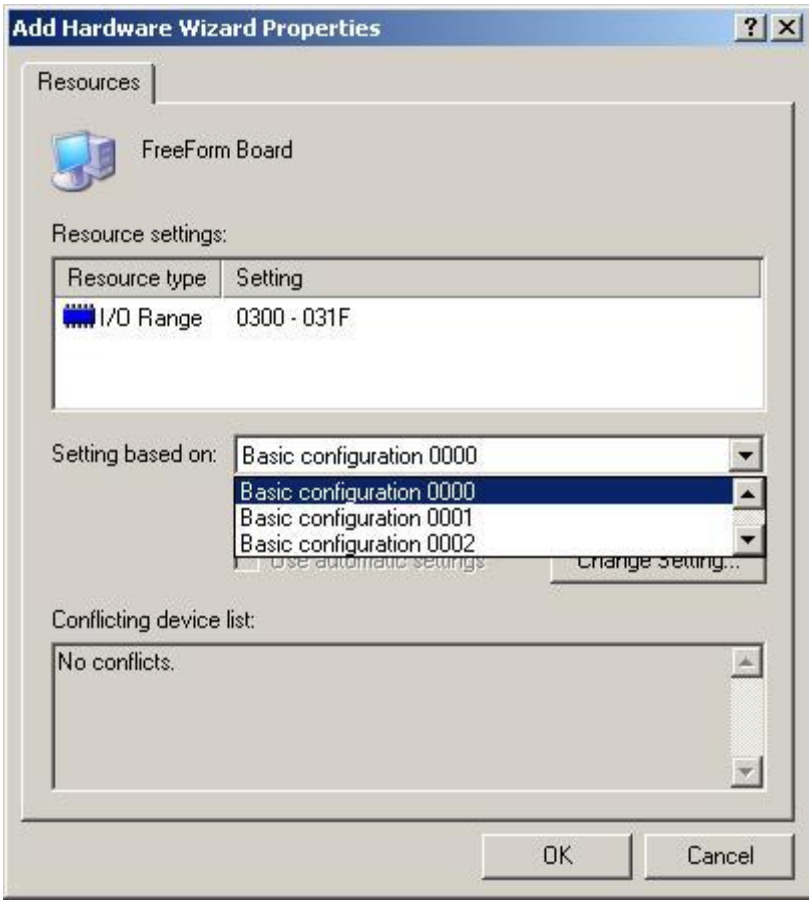
Driver installation in progress.



Click ‘View or change resources for this hardware’



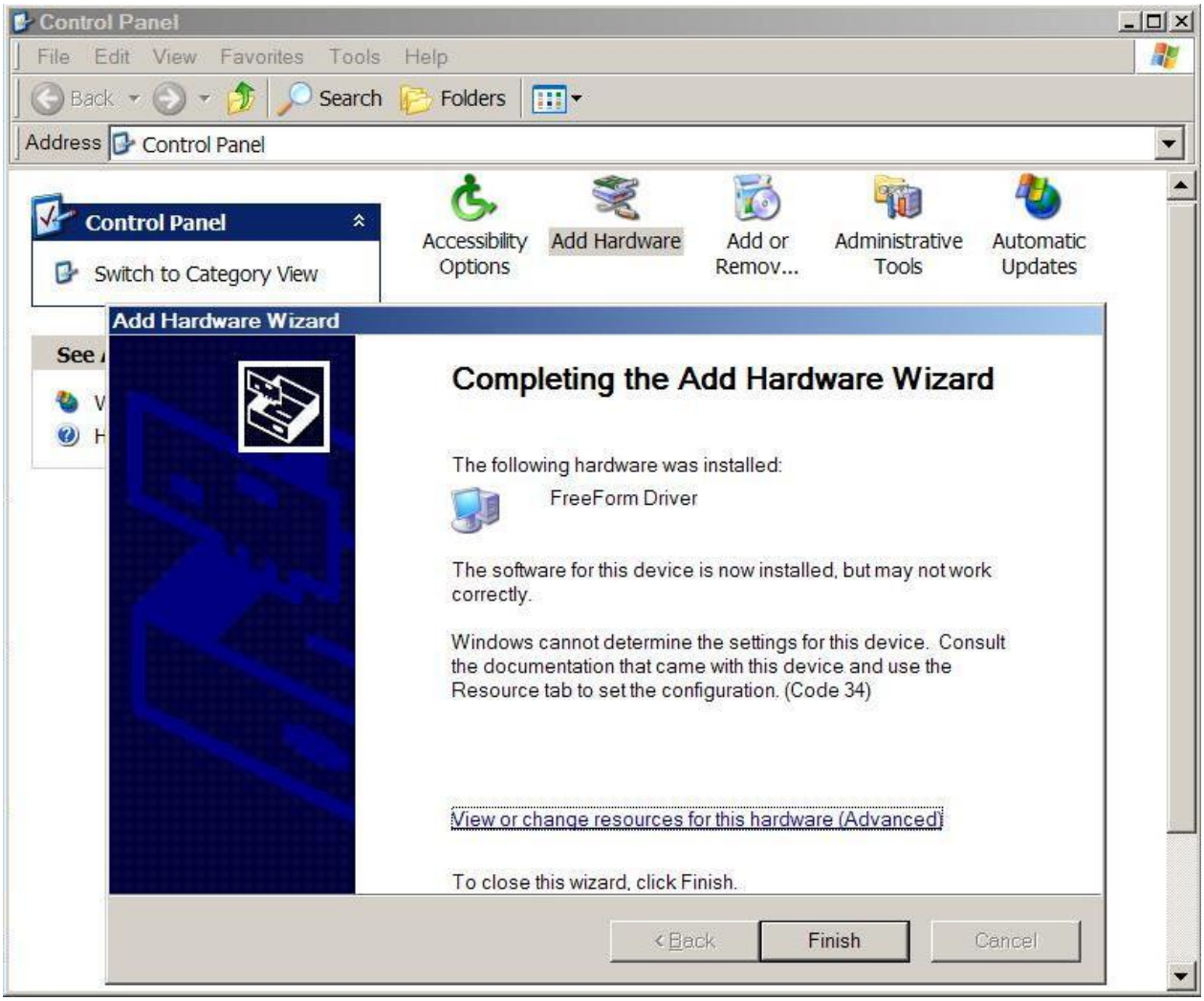
Click ‘Set Configuration Manually’.



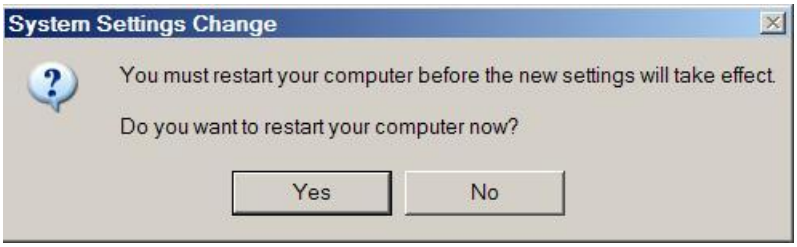
Choose from 'Basic Configuration 0000' to 'Basic Configuration 0007' for I/O address. The choice will correspond to the rotary switch settings on the board.

Basic Configuration 0000	300 to 31f (hex)
Basic Configuration 0001	320 to 33f (hex)
Basic Configuration 0002	340 to 35f (hex)
Basic Configuration 0003	360to 37f (hex)
Basic Configuration 0004	380 to 39f (hex)
Basic Configuration 0005	3a0 to 3bf (hex)
Basic Configuration 0006	3c0 to 3df (hex)
Basic Configuration 0007	3e0 to 3ff (hex)

Make sure the resources you select do not conflict with the existing driver resource use. Every resource selection window includes conflict information that shows whether the selected resource is free or conflicting.

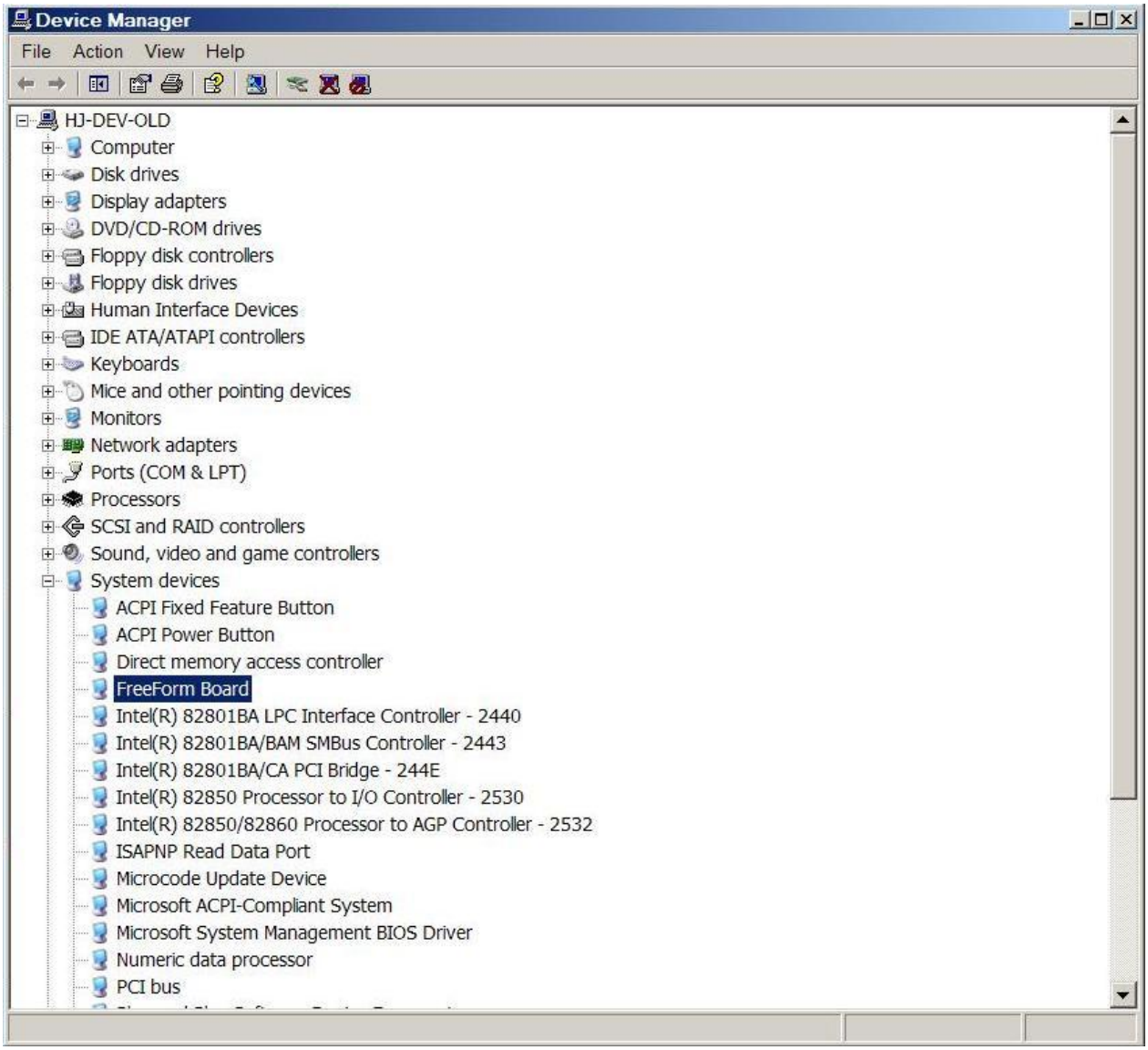


After all resource selection are done click ‘Finish’.



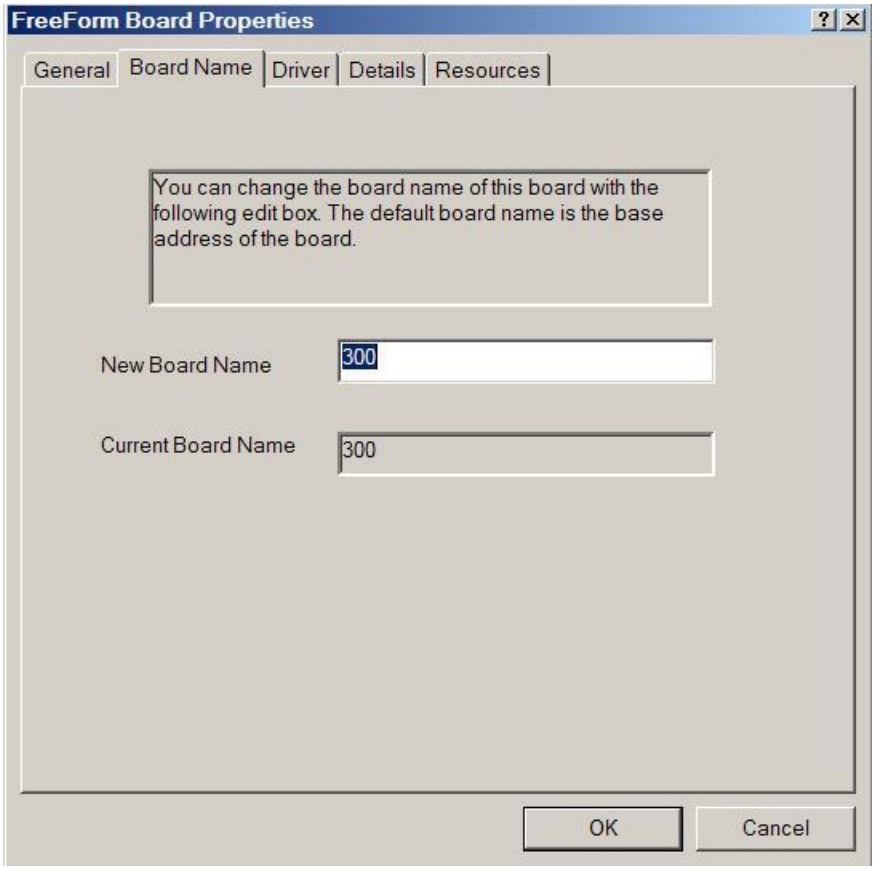
Click ‘Yes’. The computer will reboot and the driver that manages the FreeForm/104 resources will be loaded.

After successful installation, the hardware can be seen from ‘Control Panel -> System -> Device Manager -> FreeForm Board’.


Device Manager
File Action View Help
HJ-DEV-OLD
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy disk controllers
Floppy disk drives
Human Interface Devices
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Ports (COM & LPT)
Processors
SCSI and RAID controllers
Sound, video and game controllers
System devices
ACPI Fixed Feature Button
ACPI Power Button
Direct memory access controller
FreeForm Board
Intel(R) 82801BA LPC Interface Controller - 2440
Intel(R) 82801BA/BAM SMBus Controller - 2443
Intel(R) 82801BA/CA PCI Bridge - 244E
Intel(R) 82850 Processor to I/O Controller - 2530
Intel(R) 82850/82860 Processor to AGP Controller - 2532
ISAPNP Read Data Port
Microcode Update Device
Microsoft ACPI-Compliant System
Microsoft System Management BIOS Driver
Numeric data processor
PCI bus

2.2 Board Names

The board name can be changed to any other name. The default board name is the base address of the board. Double-click on the ‘System Devices -> FreeForm Board’ icons from “Device Manager” and the following window will appear:



Enter the name you wish to display and click ‘OK’.

3 Known Issues

3.1 Windows Vista IO Range Conflict

When using Windows Vista, IO ranges may appear to be in use when actually they are not. If you see that a known IO range is in use and you have verified that your system has this range free, simply select the range and reboot your machine. After a reboot the ranges should now appear free.

3.2 Device Name Cannot Contain Spaces

To enter a board name using the tab located in the driver properties section, be sure to use a name that does not include any spaces. Eliminating spaces in the board name will ensure that errors do not occur. Please note that although any changes made using a board name that contains spaces will succeed in the “Device Manager”, attempting to use the board name with any FreeForm API call will receive errors.