



# How To Install Windows XP on RoBoard RB-110/RB-100RD

## Method 1: Using CD-ROM

# Requirements

- RoBoard RB-110 / RB-100RD
- Micro SD card (2G or up)
- USB CD-ROM
- Microsoft Windows XP CD

# Step 1 (for RB-110)

- Download RoBoard RB-110 WinXP Driver form:  
[http://www.roboard.com/download\\_ml.htm](http://www.roboard.com/download_ml.htm)

## Board Support Package

Windows XP	
RB-100 WinXP Drivers (VGA, LAN, and IDE)	
Alternative RB-100 IDE Driver from RoboSavvy	
RB-100RD WinXP Drivers (VGA and LAN) <b>Jan 20, 2012</b>	
RB-110 WinXP Drivers (VGA, LAN, and FTDI COM)	
Windows XP Embedded	
RB-100 Windows Embedded Standard (XPe) PMQ	
RB-110 Windows Embedded Standard (XPe) PMQ	

# Step 1 (for RB-100RD)

- Download RoBoard RB-100RD WinXP Driver form:

[http://www.roboard.com/download\\_ml.htm](http://www.roboard.com/download_ml.htm)

## Board Support Package

Windows XP	
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Windows XP Embedded	
RB-100 Windows Embedded Standard (XPe) PMQ	
RB-110 Windows Embedded Standard (XPe) PMQ	

## Step 2

- Plug MicroSD card to RoBorad
- Plug the USB CD-ROM to RoBoard, and put Windows XP CD in it
- Power on RoBoard



# Step 3

- Press “Del” key to enter BIOS setting
- Set **Advanced** → **Standard IDE Compatible** [**Enable**]
- Press “F10” key to save BIOS setting and exit



## Step 4

- Press any key to boot from CD-ROM



## Step 5

- Press “Enter” key to install XP into the MicroSD card



# Step 6

- Select to format the MicroSD card



# Step 7

- Press “F” key



# Step 8

- Formatting...



# Step 9

- Copying files...



## Step 10

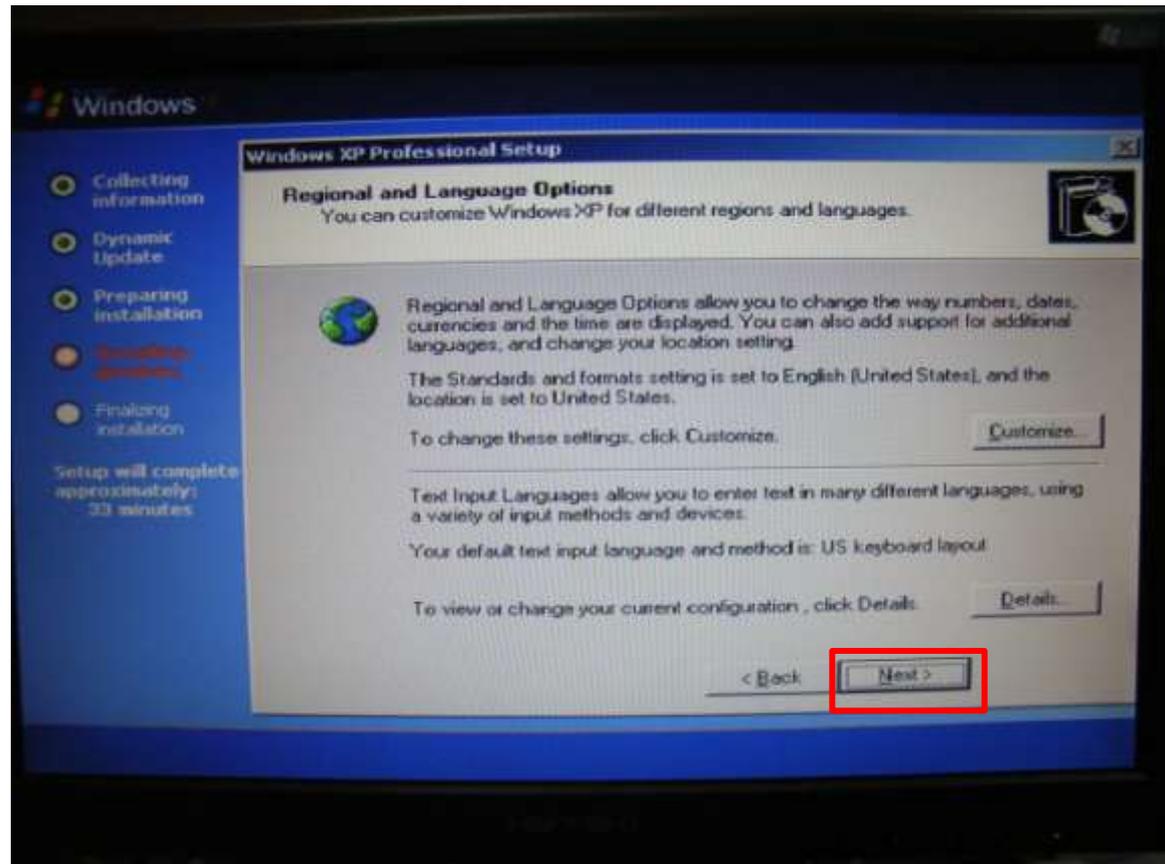
- Copy finished. System will restart automatically.



- After restart, the system will get into the GUI installation...

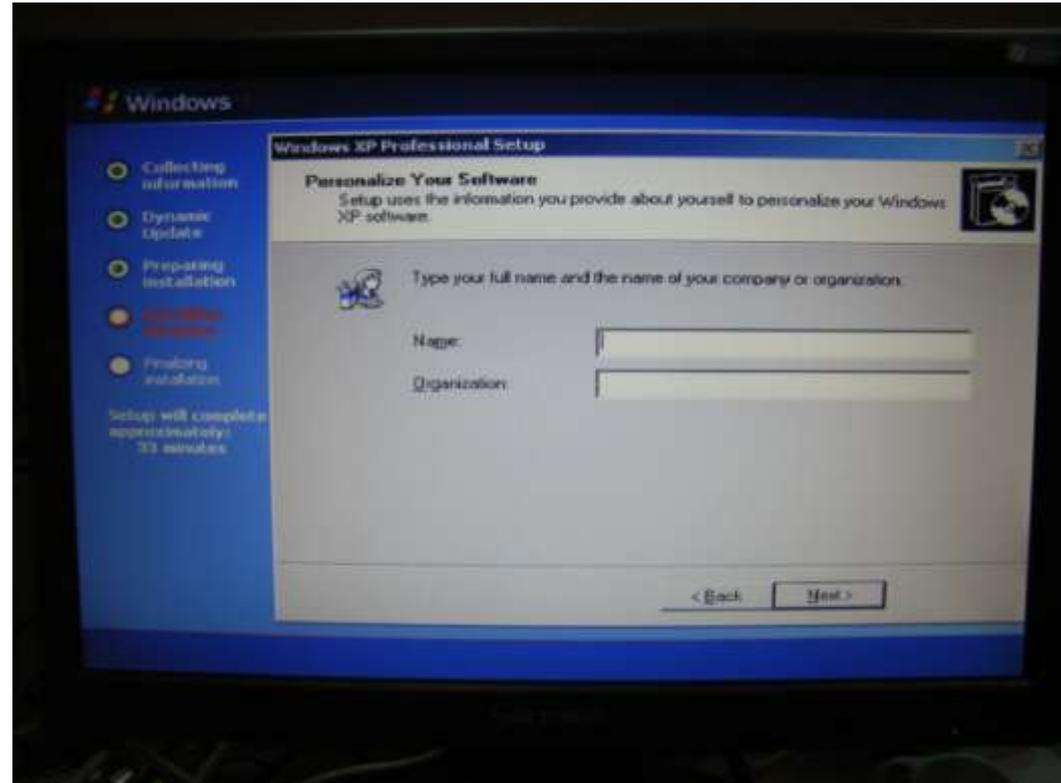
# Step 11

- Click “Next”



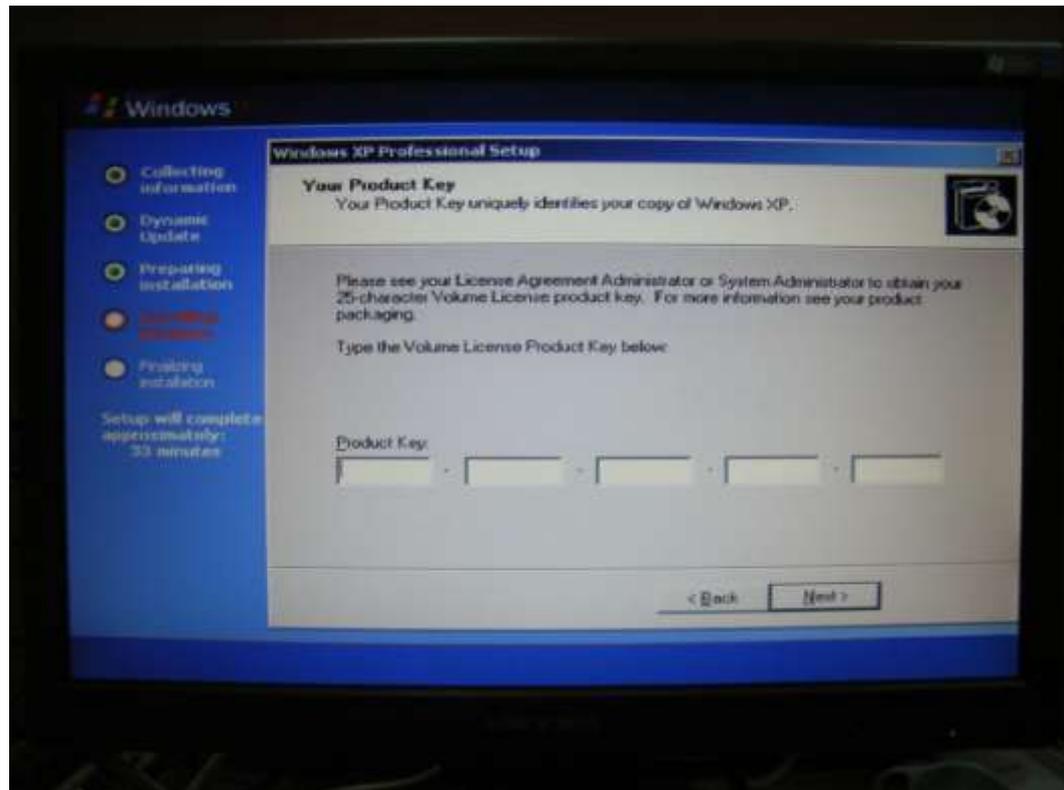
# Step 12

- Type your name and organization
- Click “Next”



# Step 13

- Type Windows XP product key
- Click “Next”



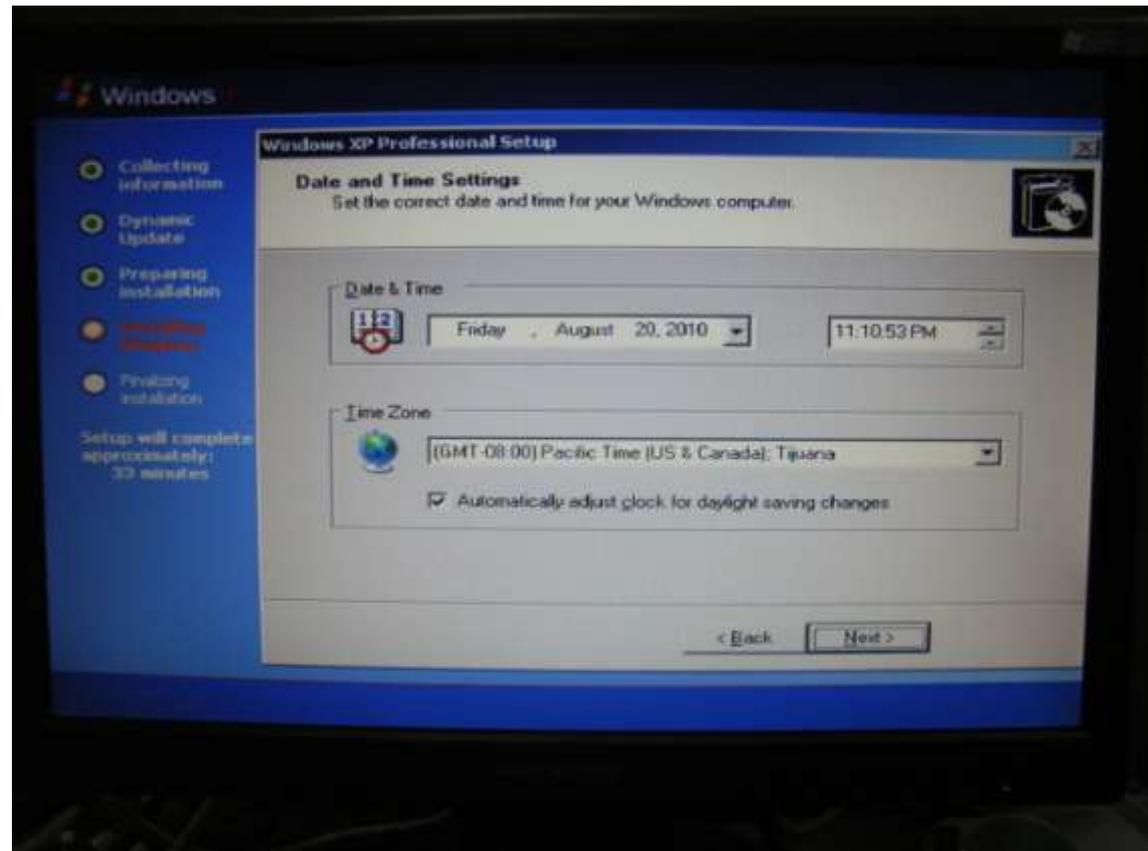
# Step 14

- Type your computer name and password
- Click “Next”



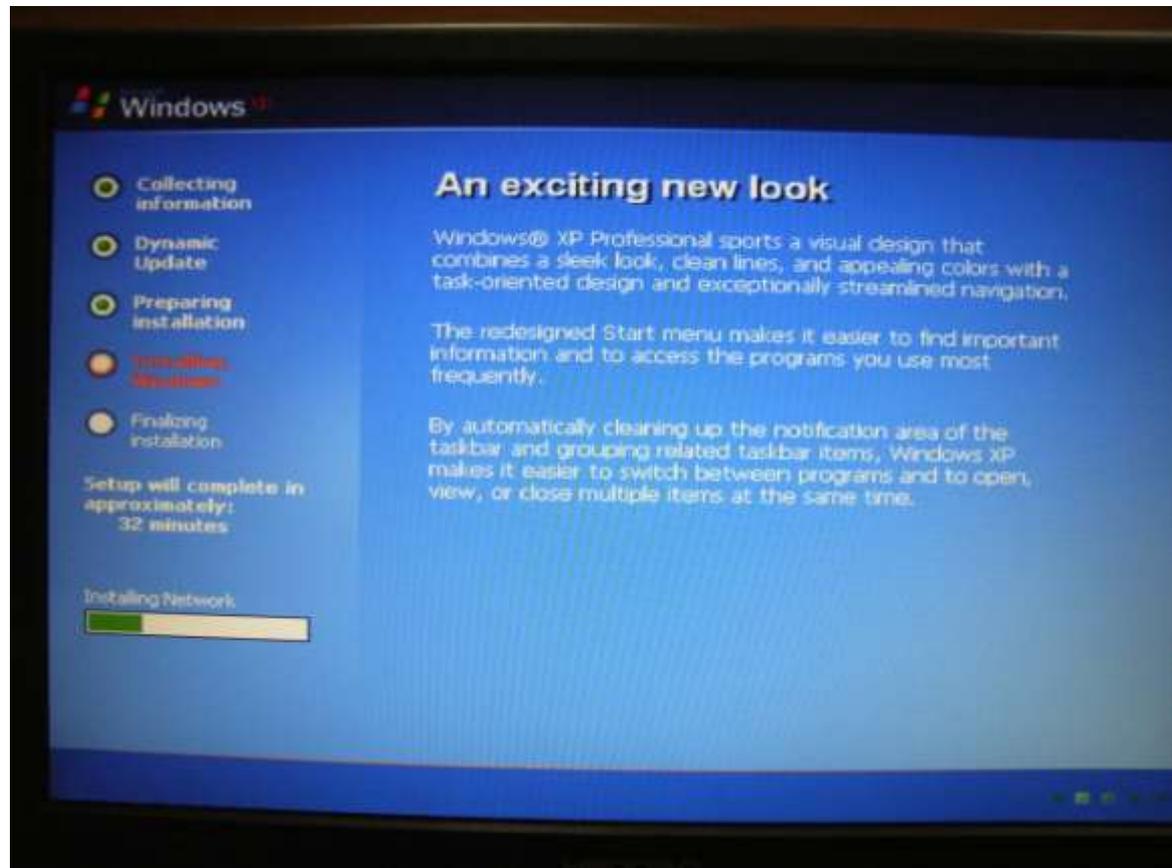
# Step 15

- Select your Date & Time settings
- Click “Next”. The setup will continue...



# Step 16

- Wait the process completed



# Step 17

- Install completed.
- After reboot, you will see the first boot screen as below.



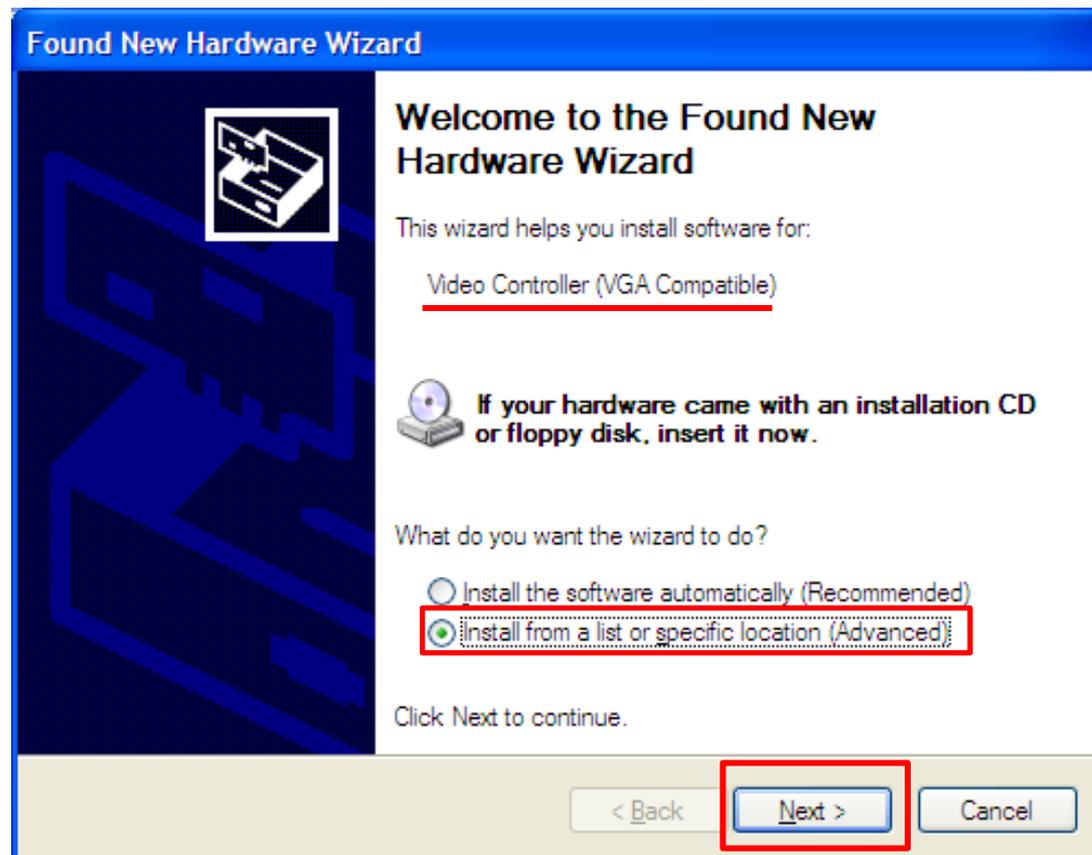
## Step 18

- When booting into XP, we will then need to Install the RoBoard VGA, LAN drivers



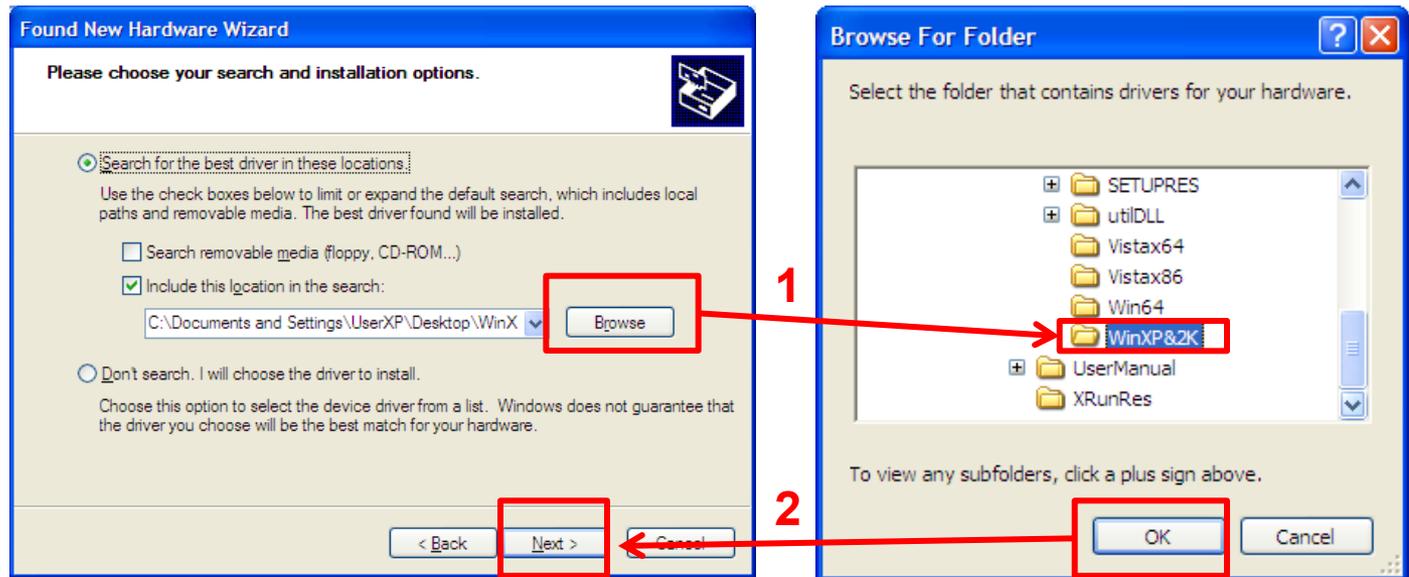
# Step 19

- Windows XP will detect VGA device automatically
- Select the “Advanced” option and click “Next”



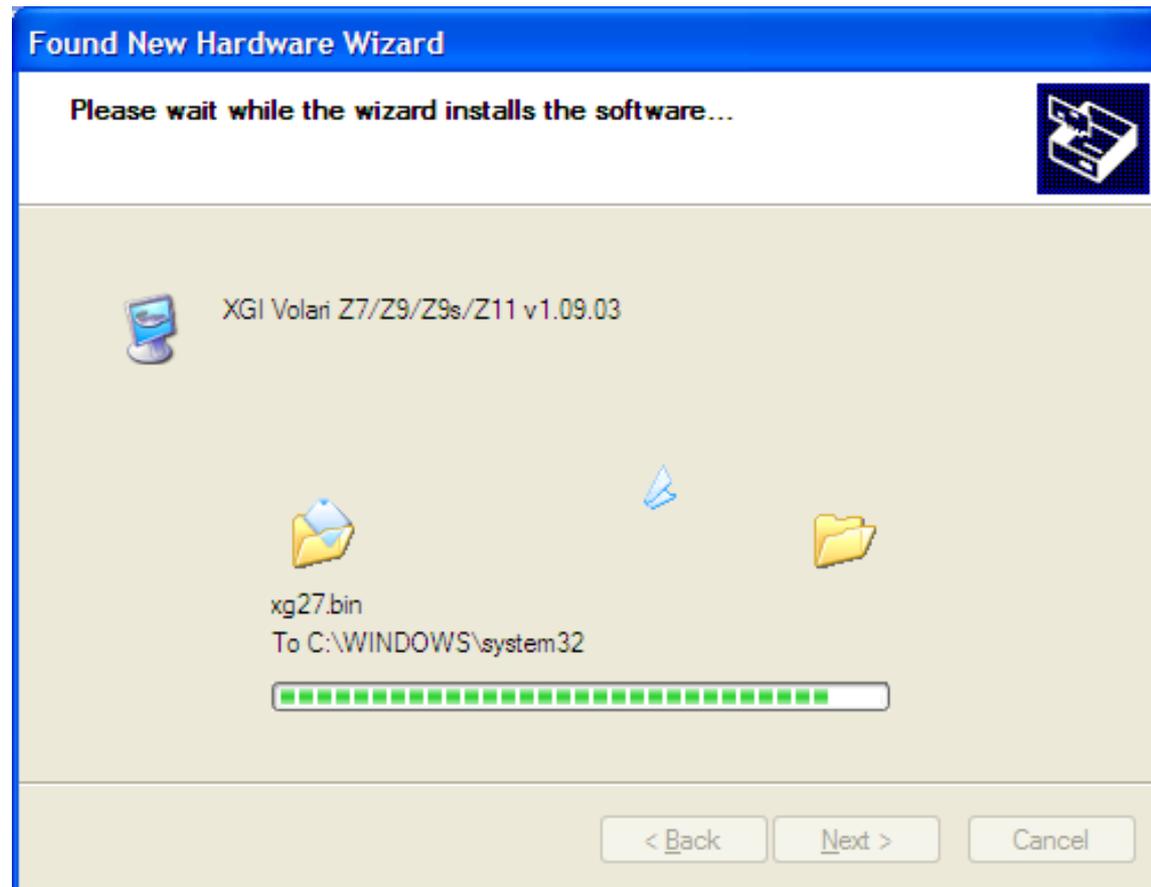
# Step 20

- Click “Browse” and choose the VGA driver (in R1.09.03\_WHQL\Setup\WinXP&2K directory)
- Click “Next”



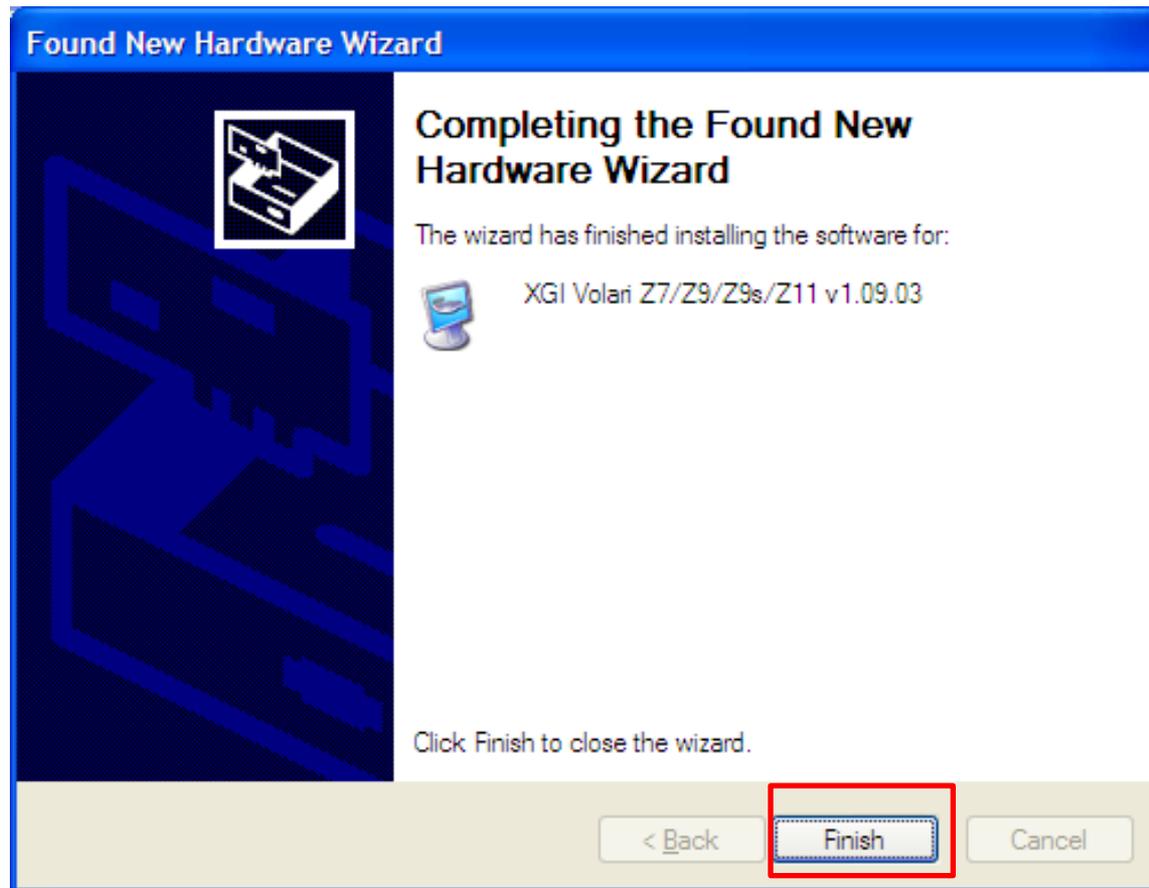
# Step 21

- Wait the progress completed



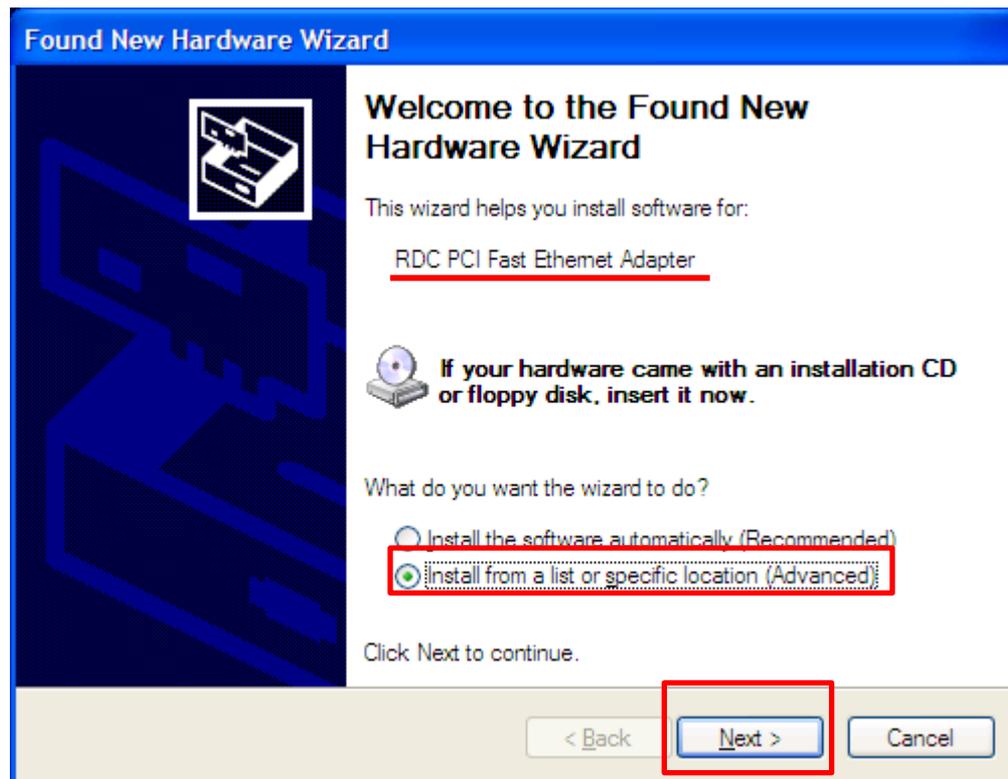
# Step 22

- Completed. Click “Finish”



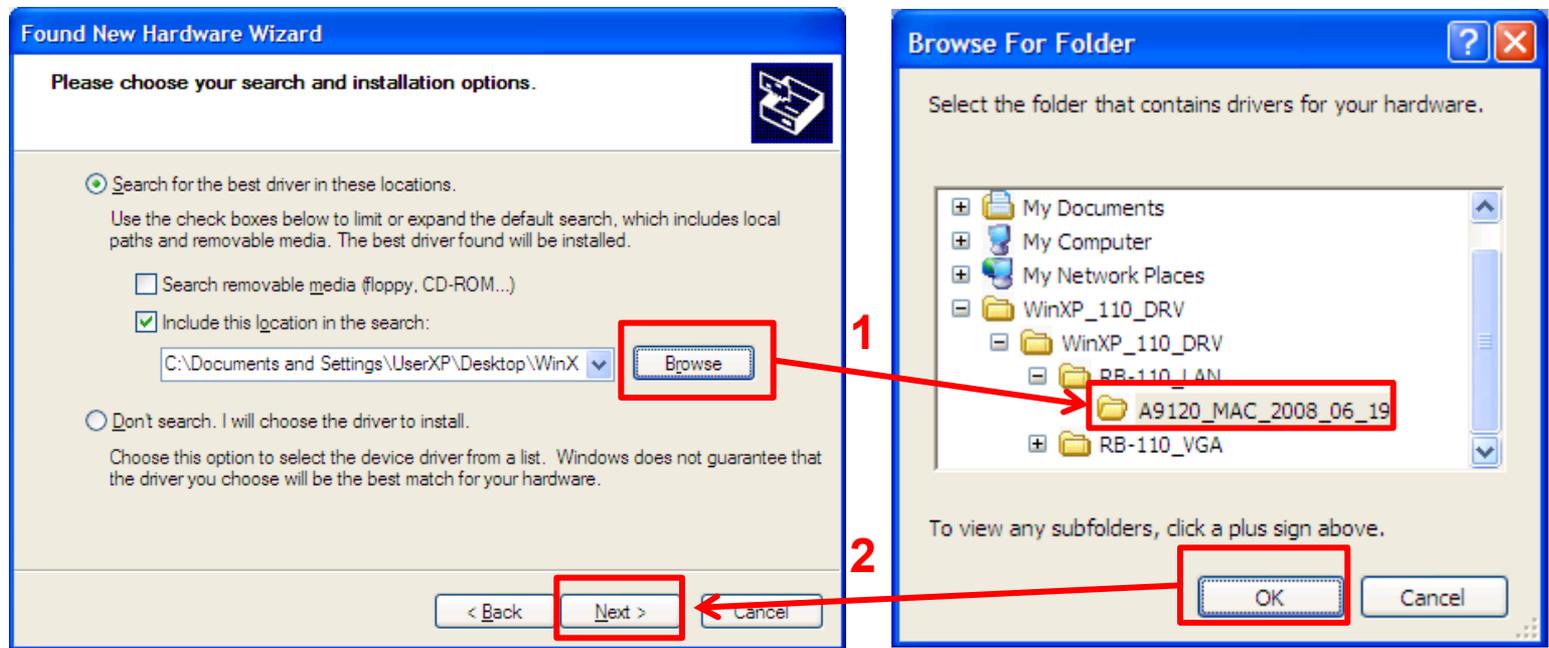
# Step 23

- Windows XP will detect LAN device automatically.
- Select the “Advanced” option and click “Next”



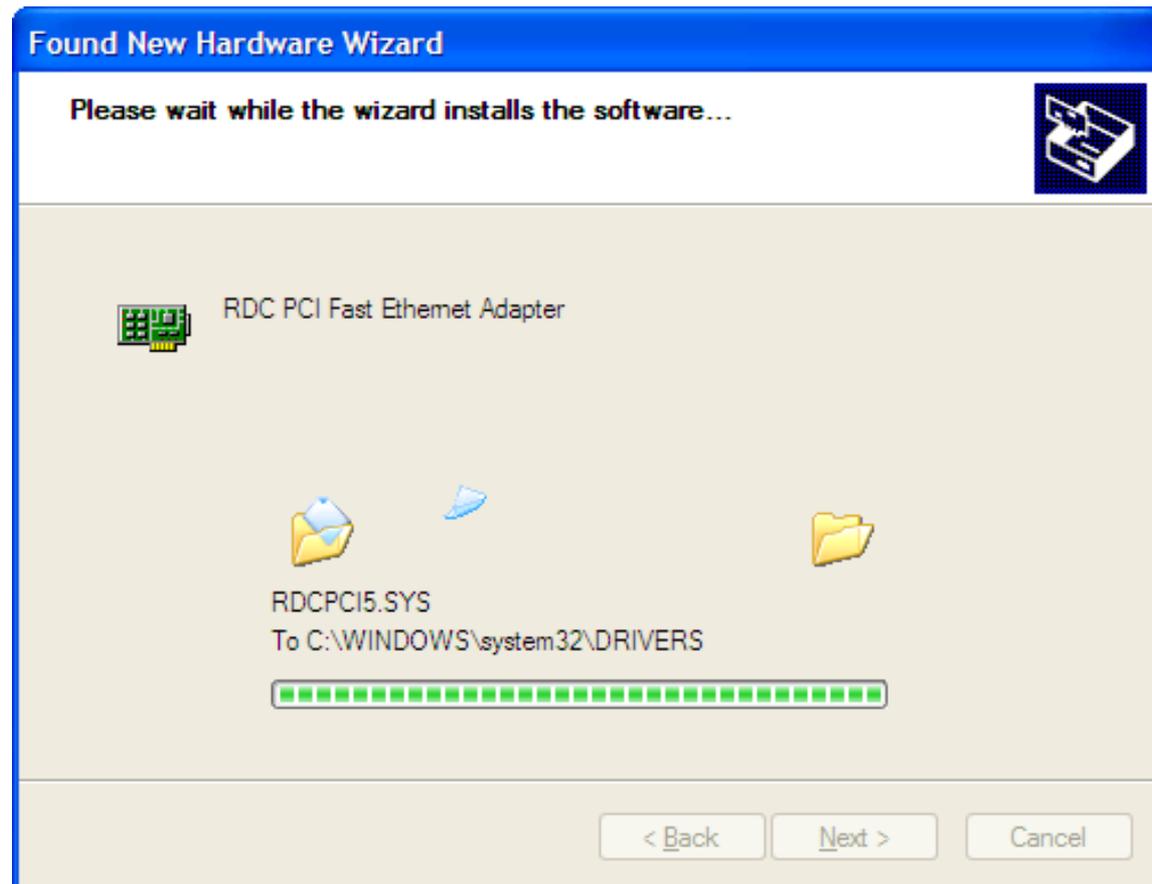
# Step 24

- Click “Browse” and choose the LAN driver (in A9120\_MAC\_2008\_06\_19 directory)
- Click “Next”



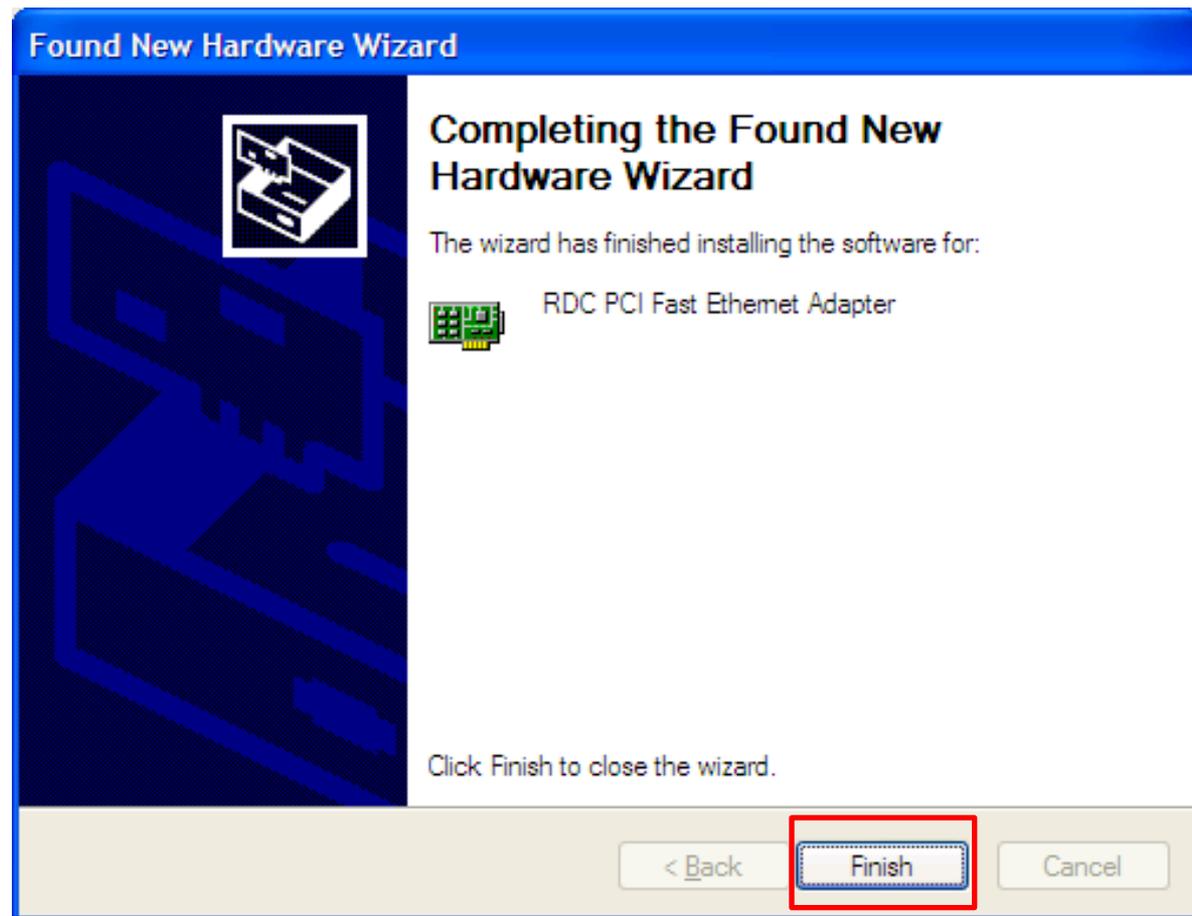
# Step 25

- Wait the progress completed



# Step 26

- Completed. Click “Finish”



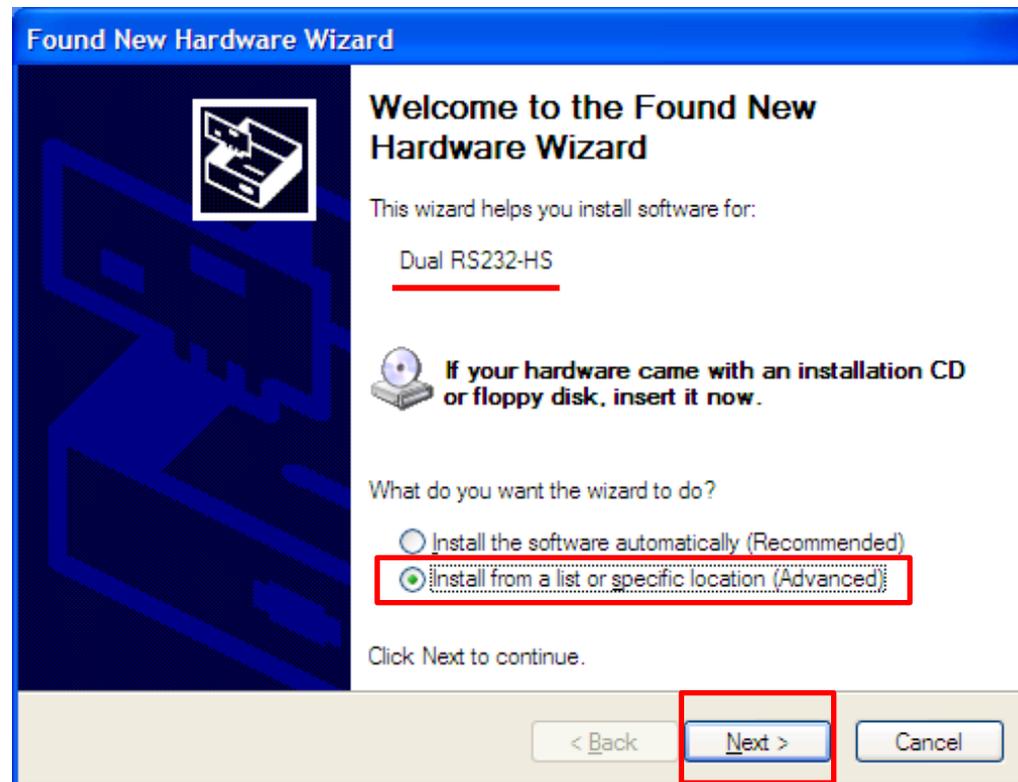


Install FTDI driver for  
RB-110 COM5 & COM6

**(Only for RB-110)**

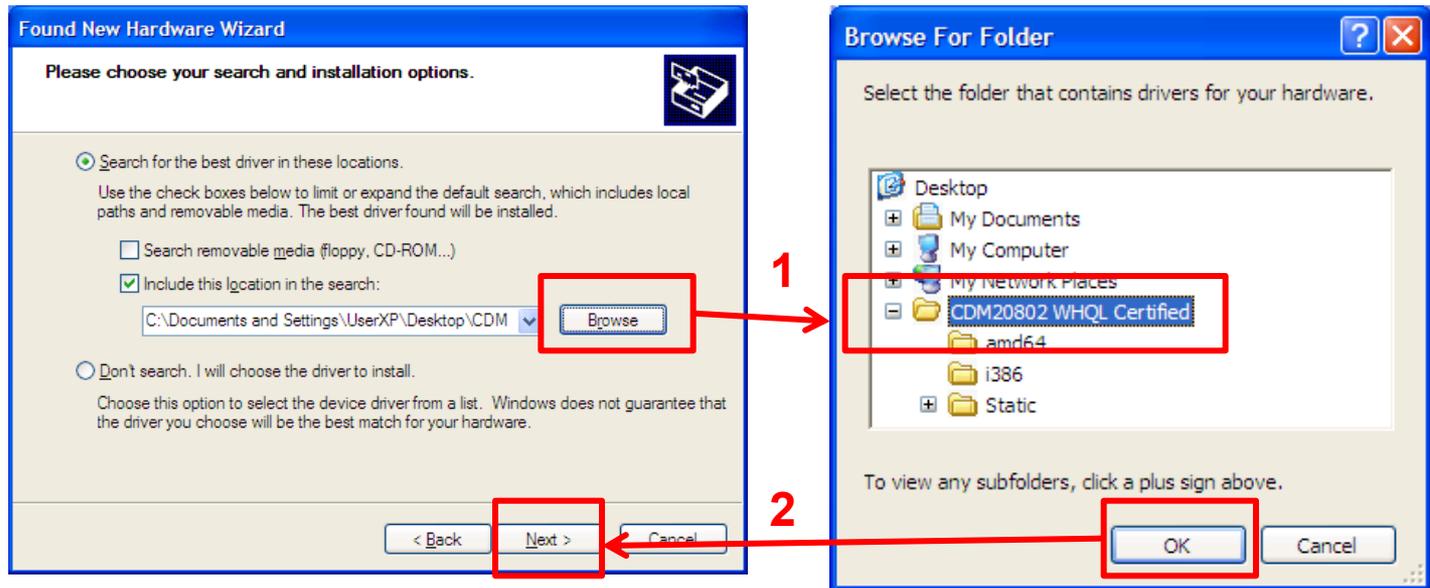
# Step 1

- Windows XP will detect Dual RS232\_HS device (FTDI) automatically
- Select the “Advanced” option and click “Next”



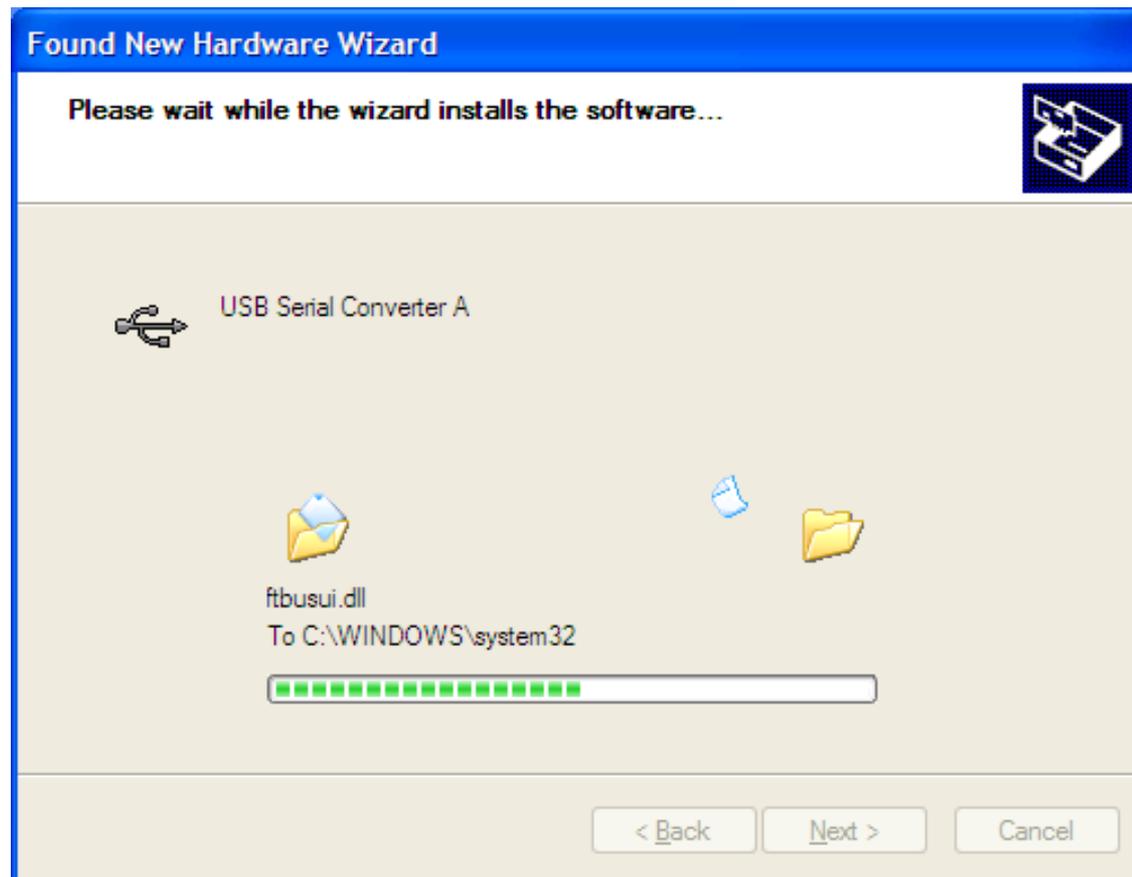
# Step 2

- Select the FTDI driver folder and click “OK”
- Click “Next”



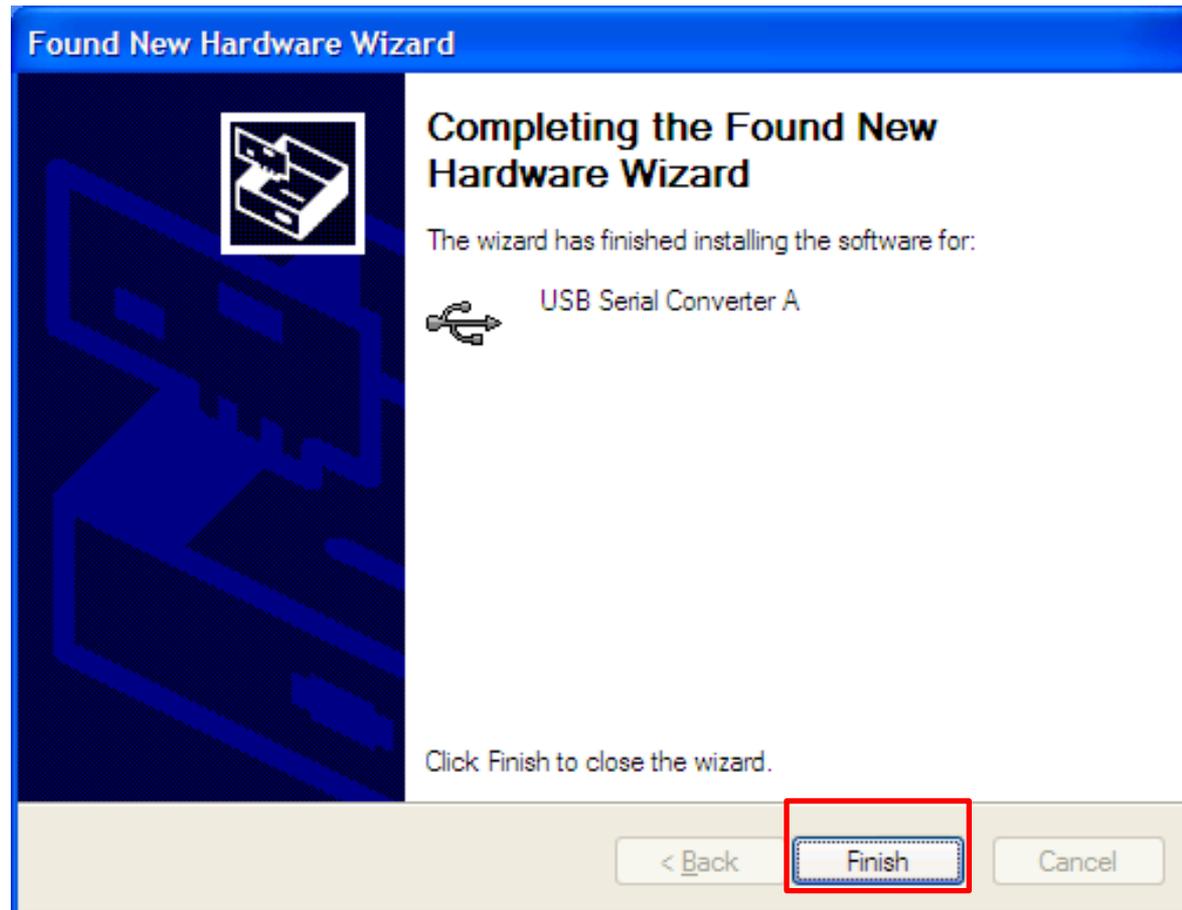
# Step 3

- Wait the progress completed



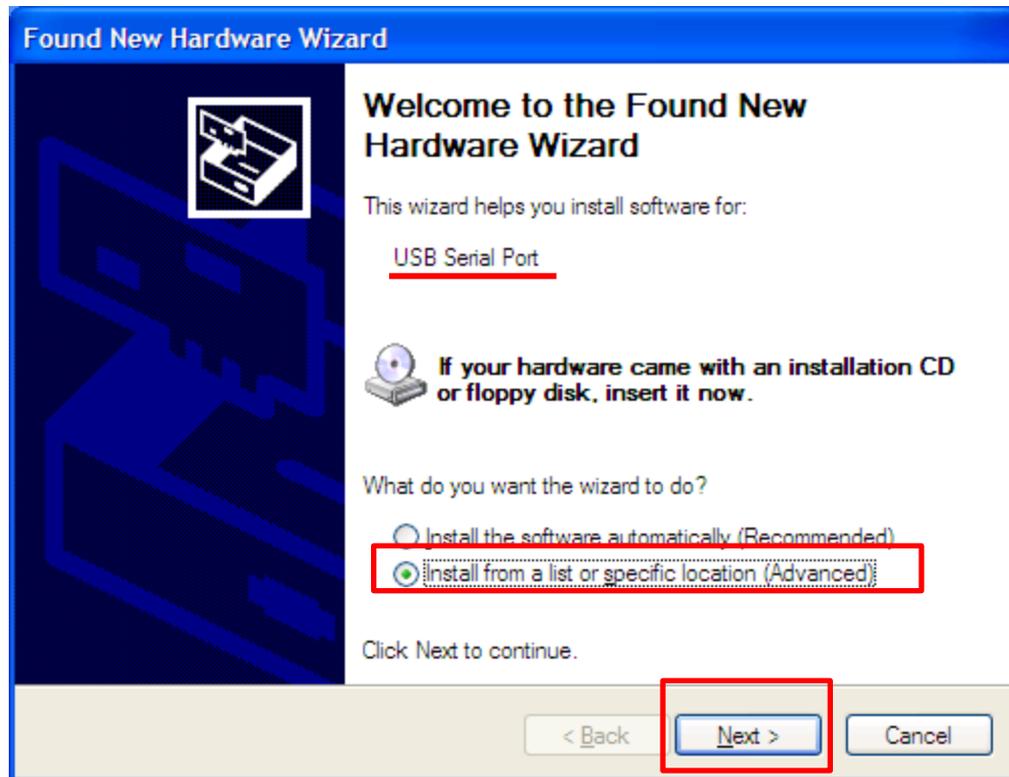
# Step 4

- Completed. Click “Finish”



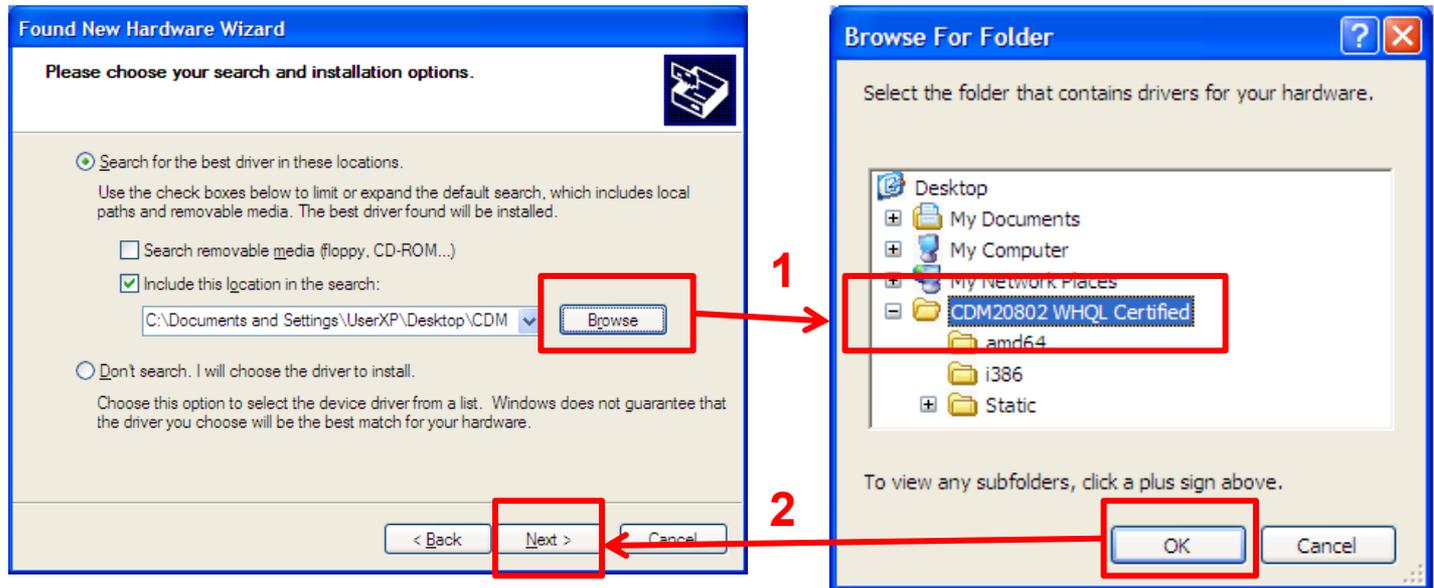
# Step 5

- Windows XP will then detect USB Serial Port automatically.
- Select the “Advanced” option and click “Next”



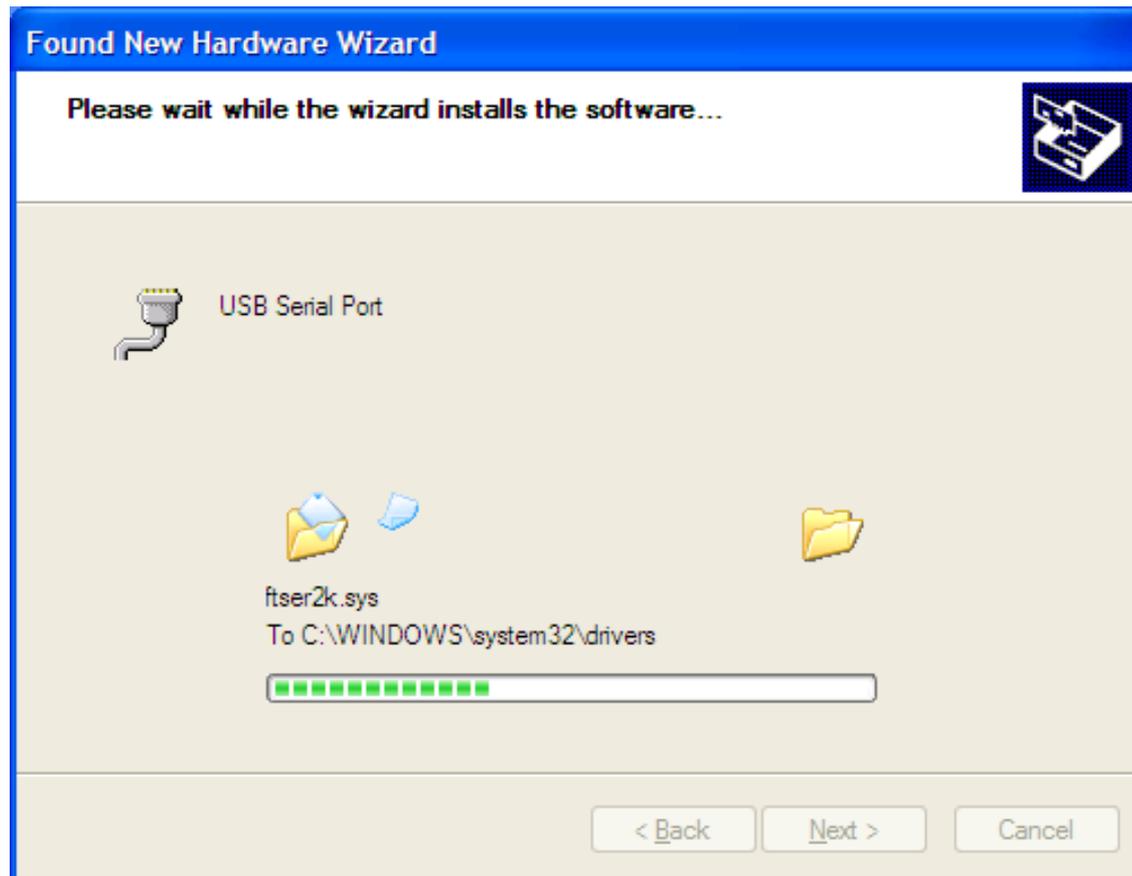
# Step 6

- Select the FTDI driver folder and Click “OK”
- Click “Next”



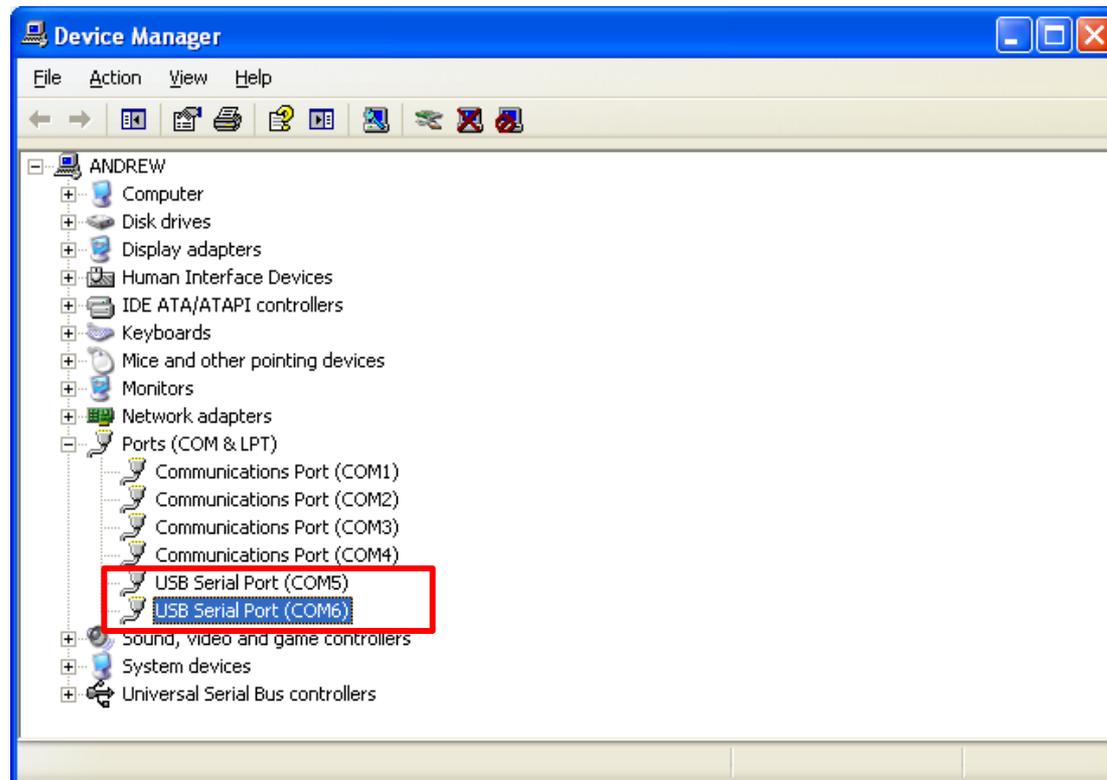
# Step 7

- Wait the progress completed



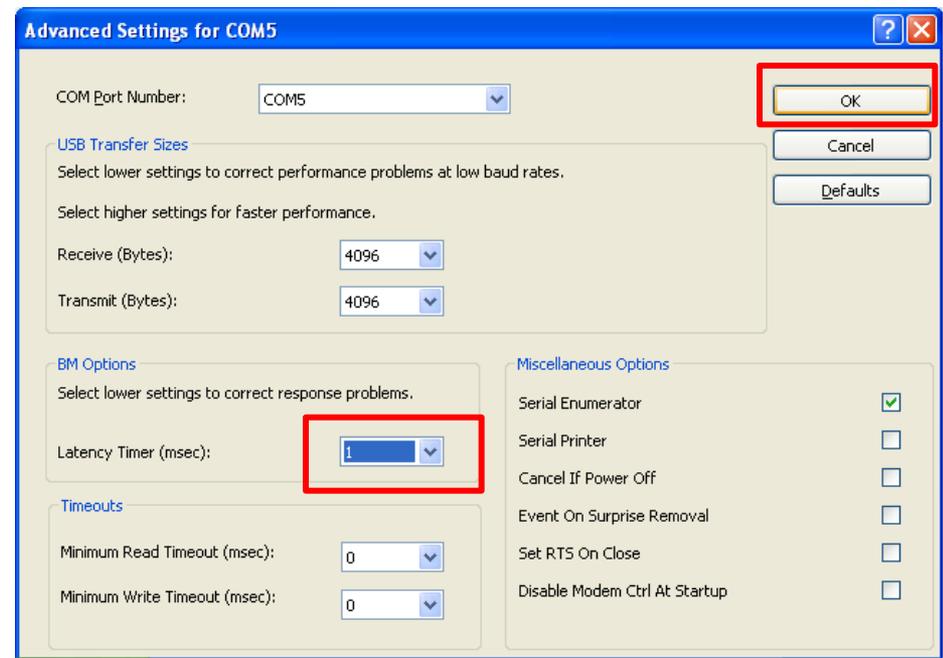
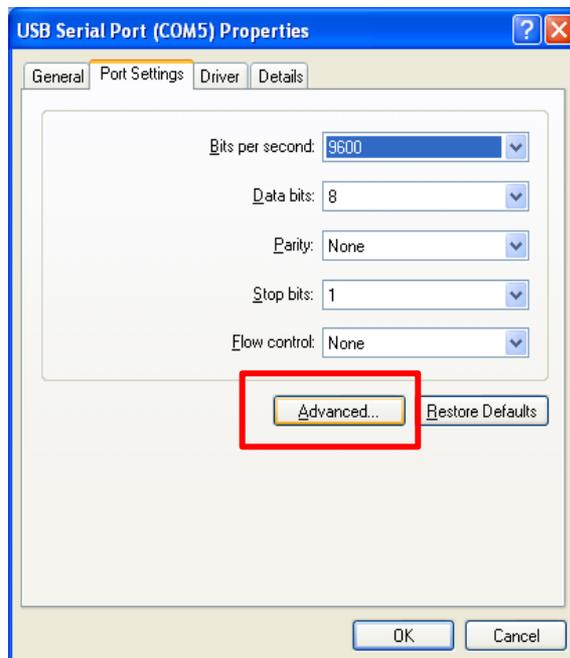
# Step 8

- COM5 & COM6 install completed
- Launch Windows XP's Device Manager and you should see COM5 & COM6.



# Step 9

- Right click COM5 → Properties → Port settings → Advanced
  - You can set the latency Timer to 1 msec for the maximum performance of COM5
  - Do same steps for the maximum performance of COM6



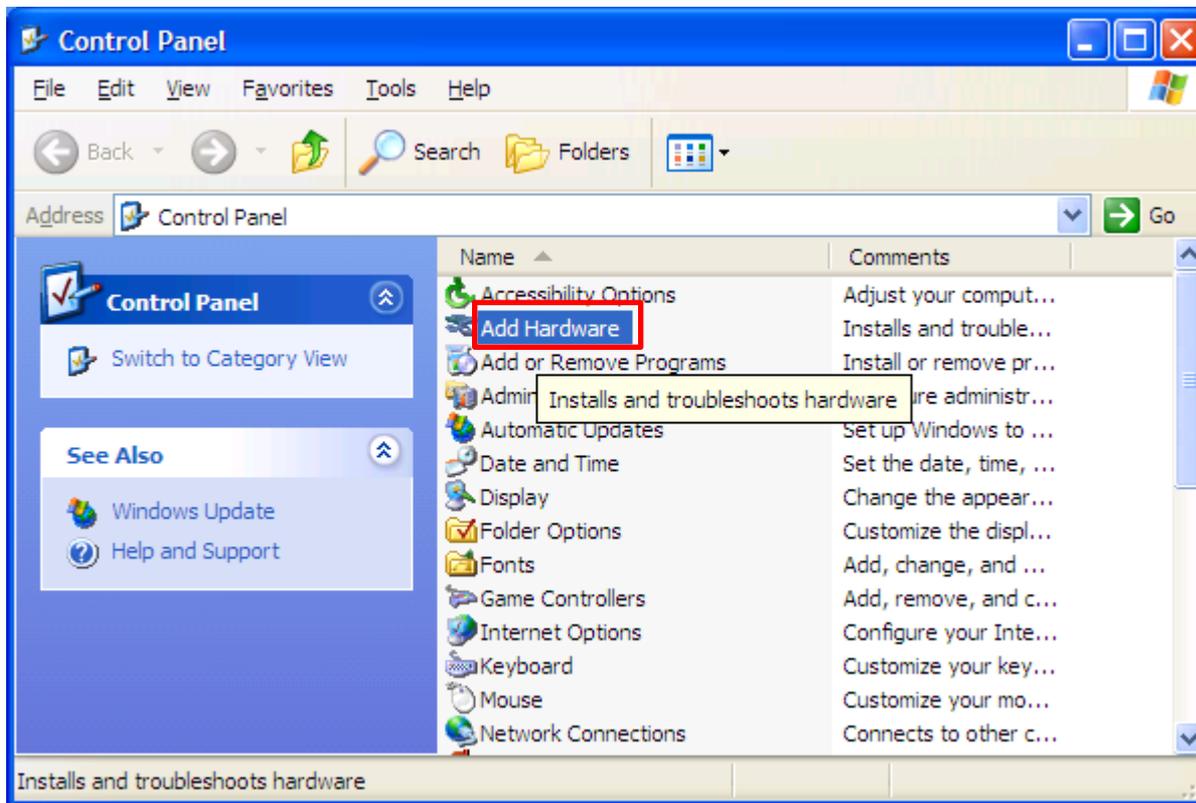


Update WinXP to Allow  
Shutdown Indication on RB-100RD

**(Only for RB-100RD)**

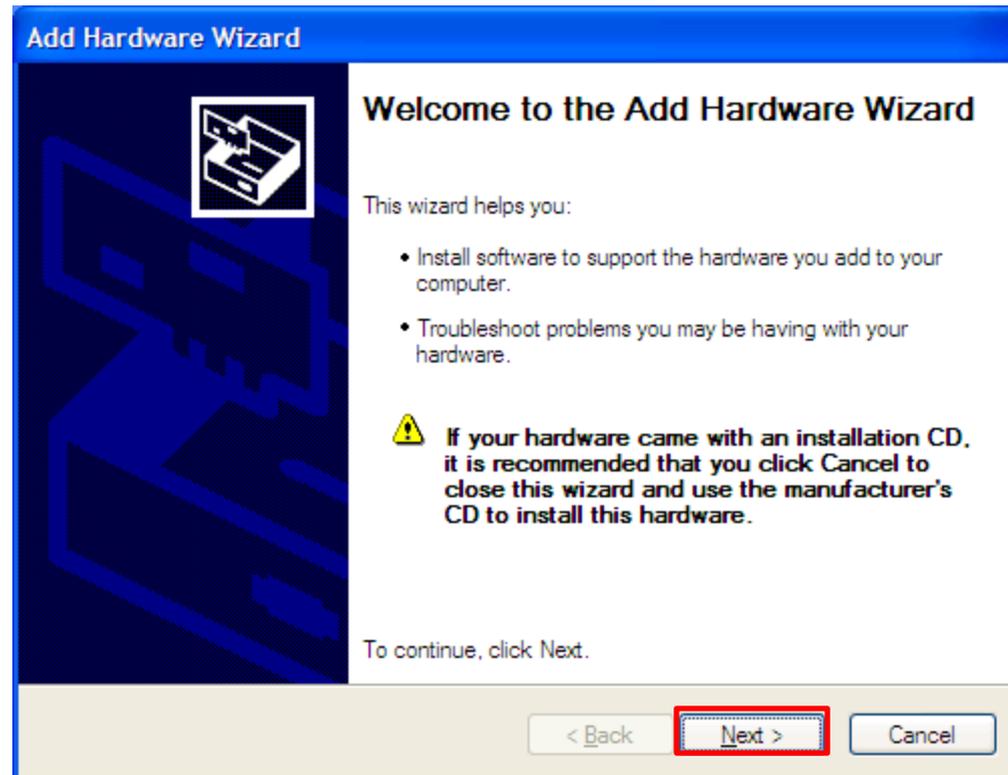
# Step 1

- Start your WinXP in RoBoard.
- Open “Control Panel” → “Add Hardware”



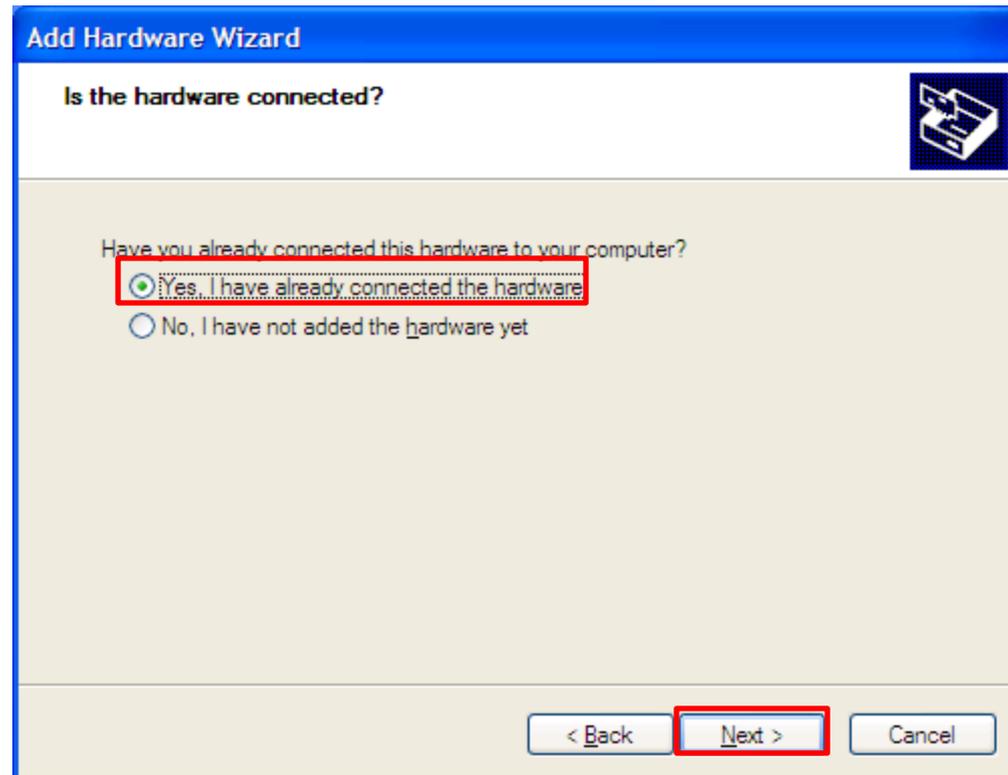
# Step 2

- Click “Next”



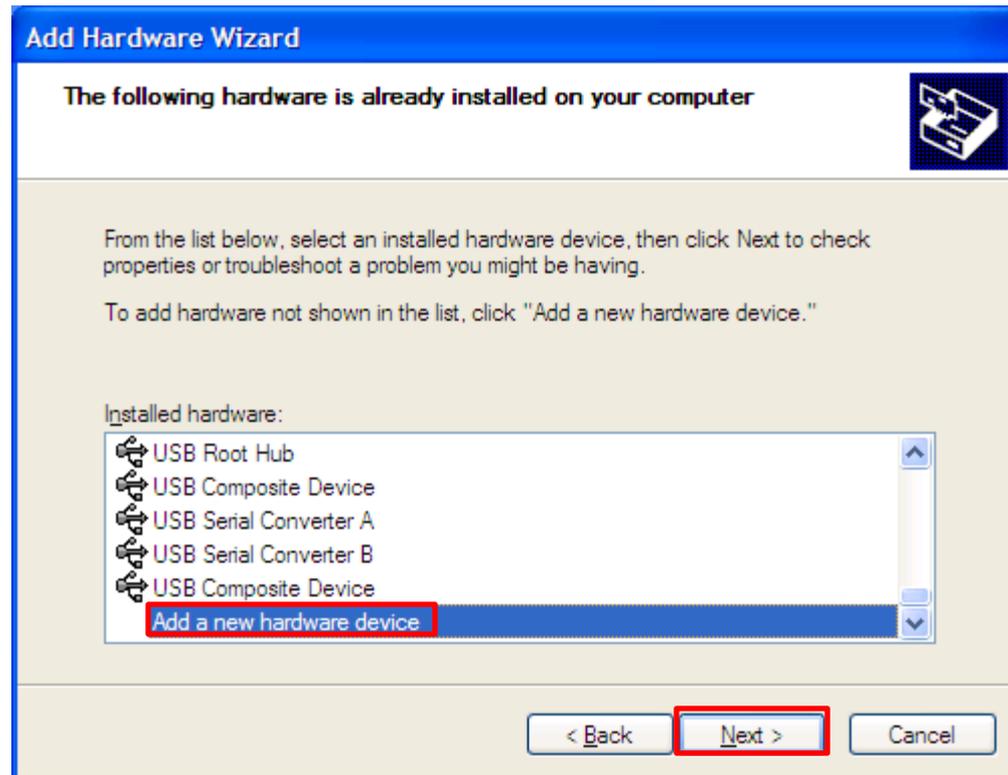
# Step 3

- Choose “Yes, I have already connected the hardware”
- Click “Next”



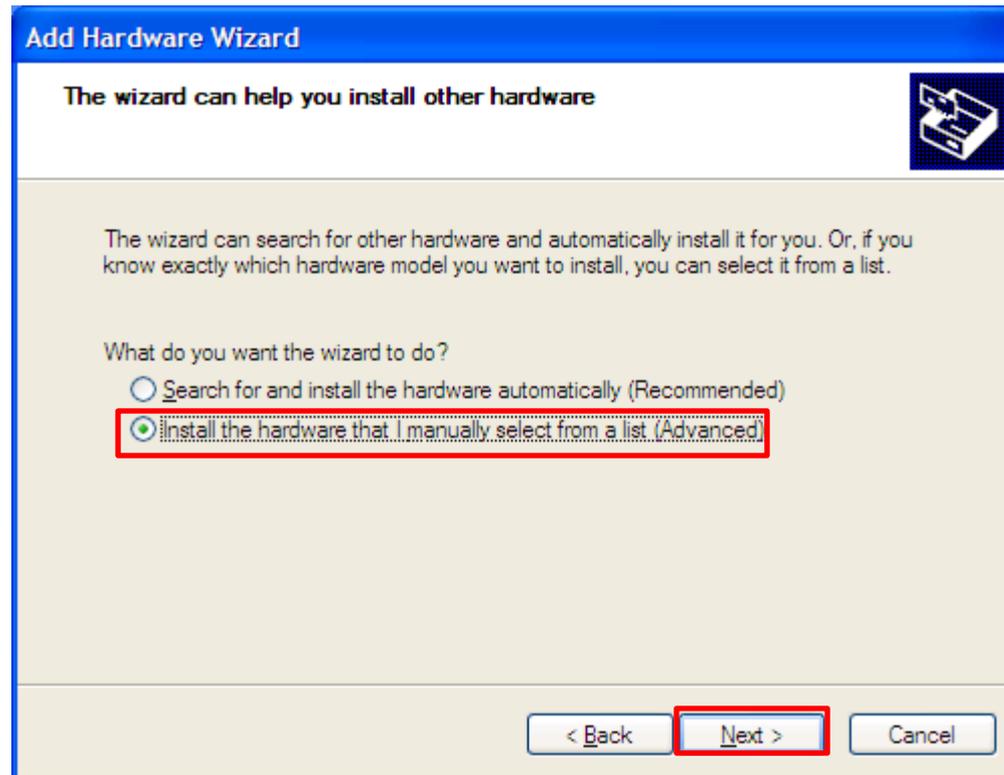
# Step 4

- Choose “Add a new hardware device”
- Click “Next”



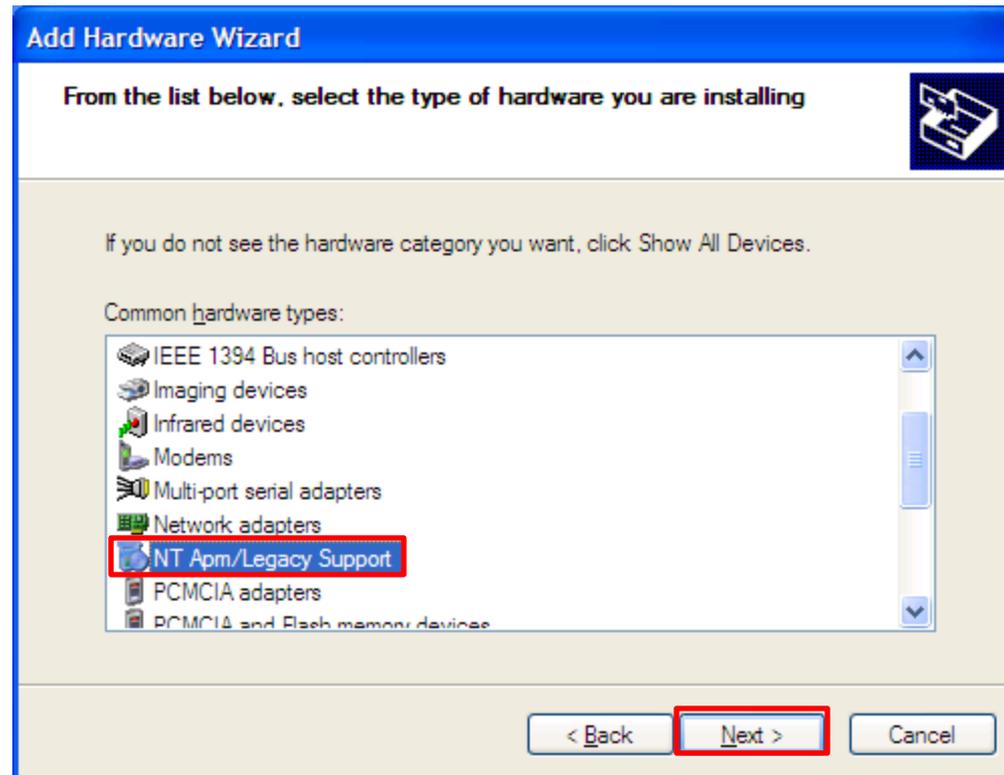
# Step 5

- Choose “install the hardware that I manually ...”
- Click “Next”



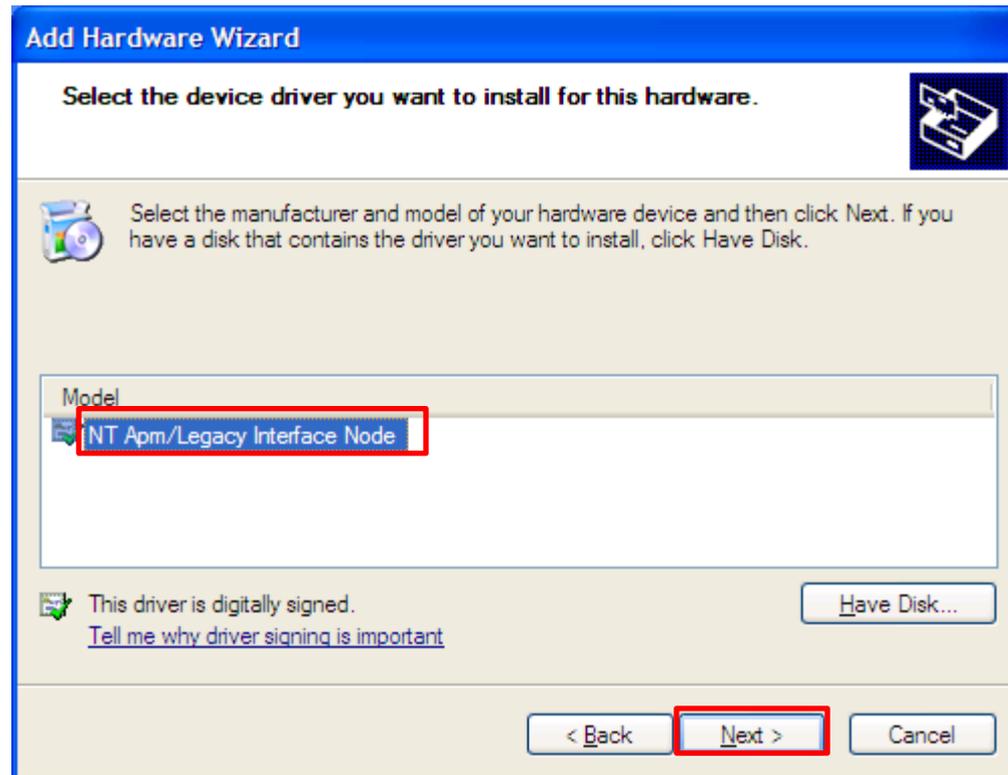
# Step 6

- Choose “NT Apm/Legacy Support”
- Click “Next”



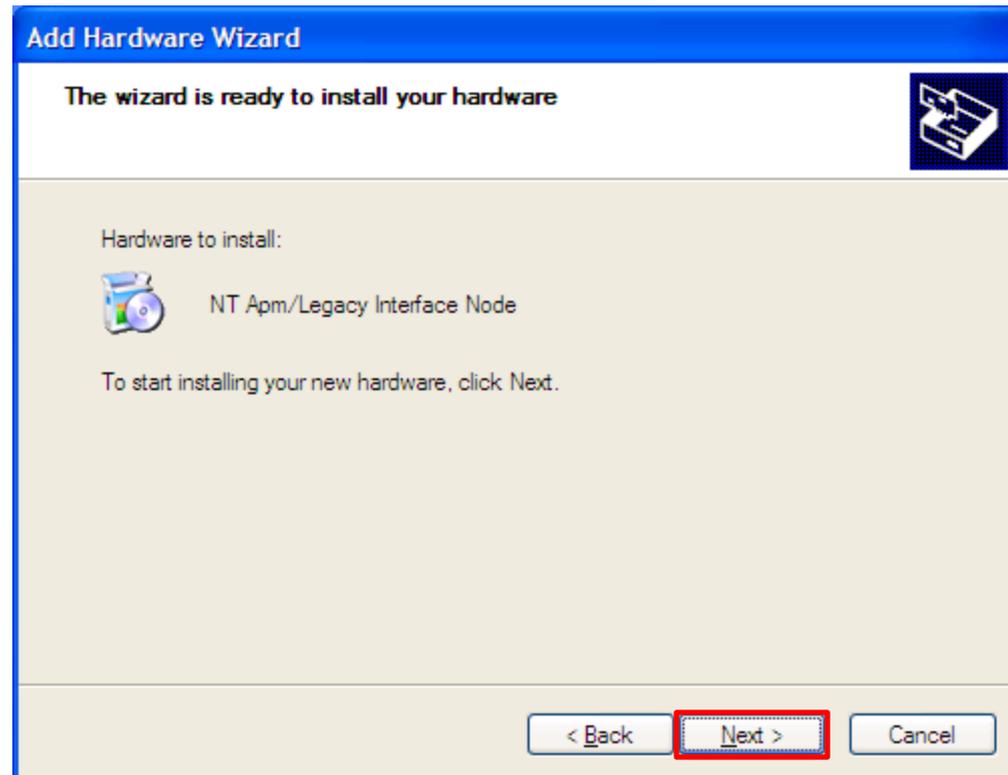
# Step 7

- Choose “NT Apm/Legacy Interface Node”
- Click “Next”



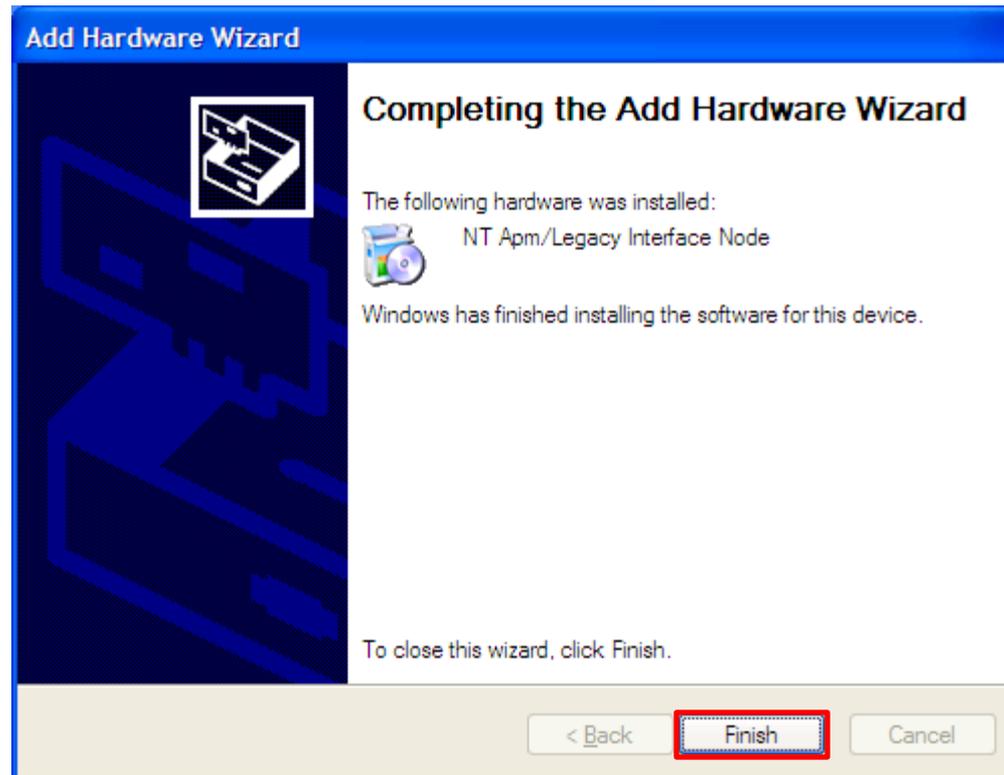
# Step 8

- Click “Next”



# Step 9

- Click “Finish”



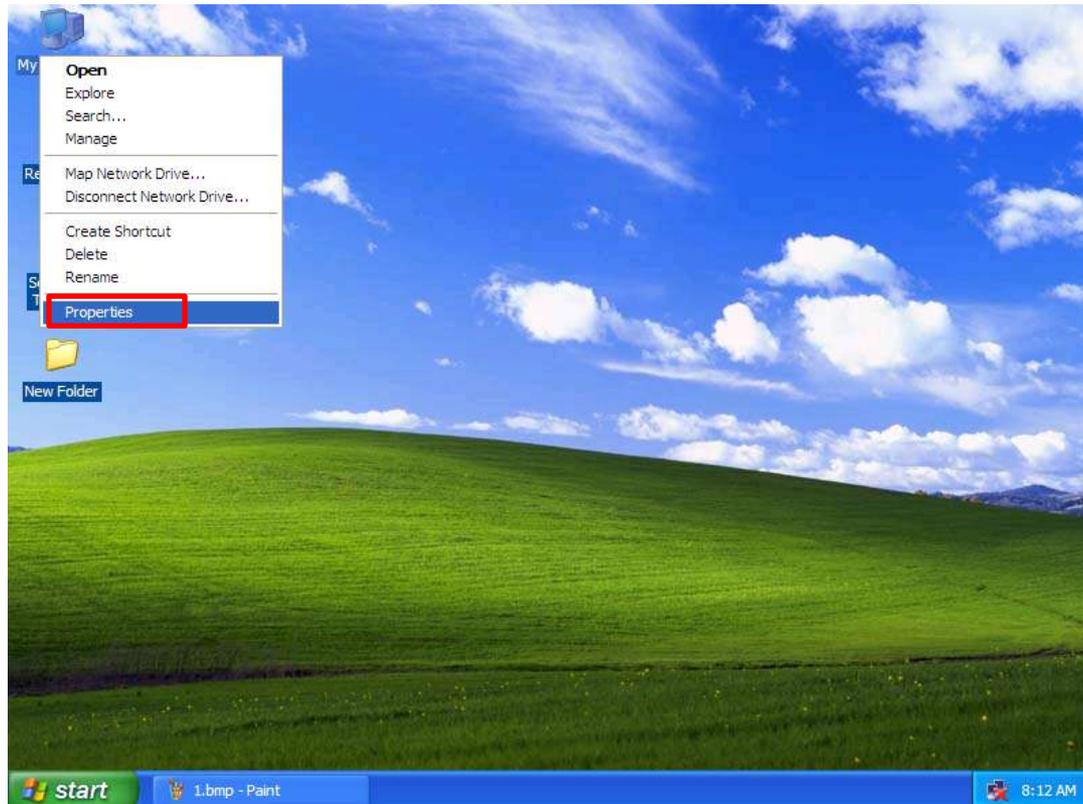
# Step 10

- Restart the WinXP



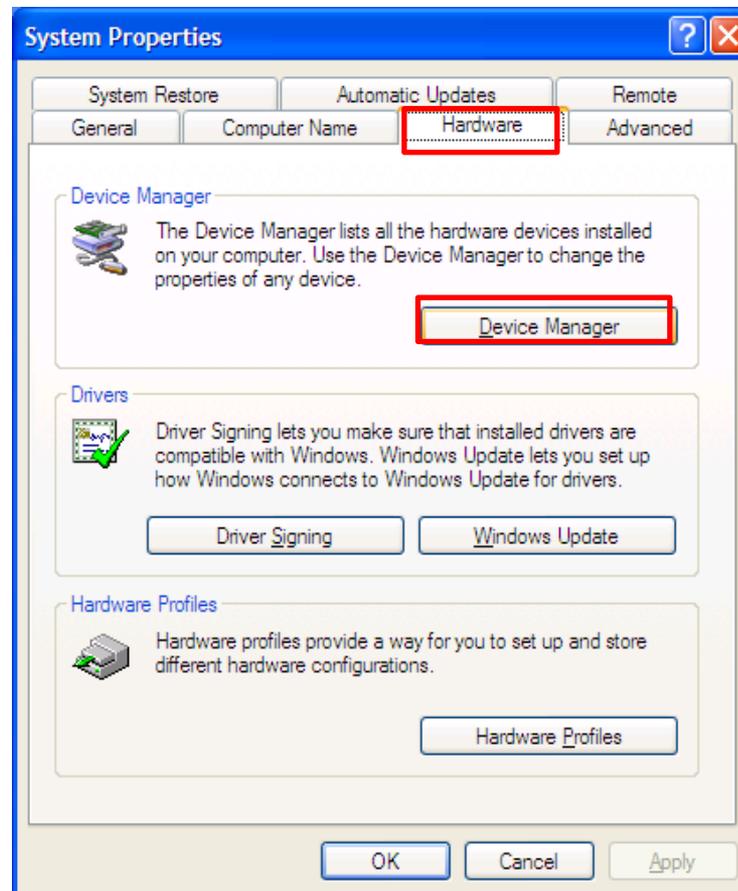
# Step 11

- After restarting WinXP, you may check that “NT Apm/Legacy Support” is correctly installed.
- Open “My Computer” → “Properties”



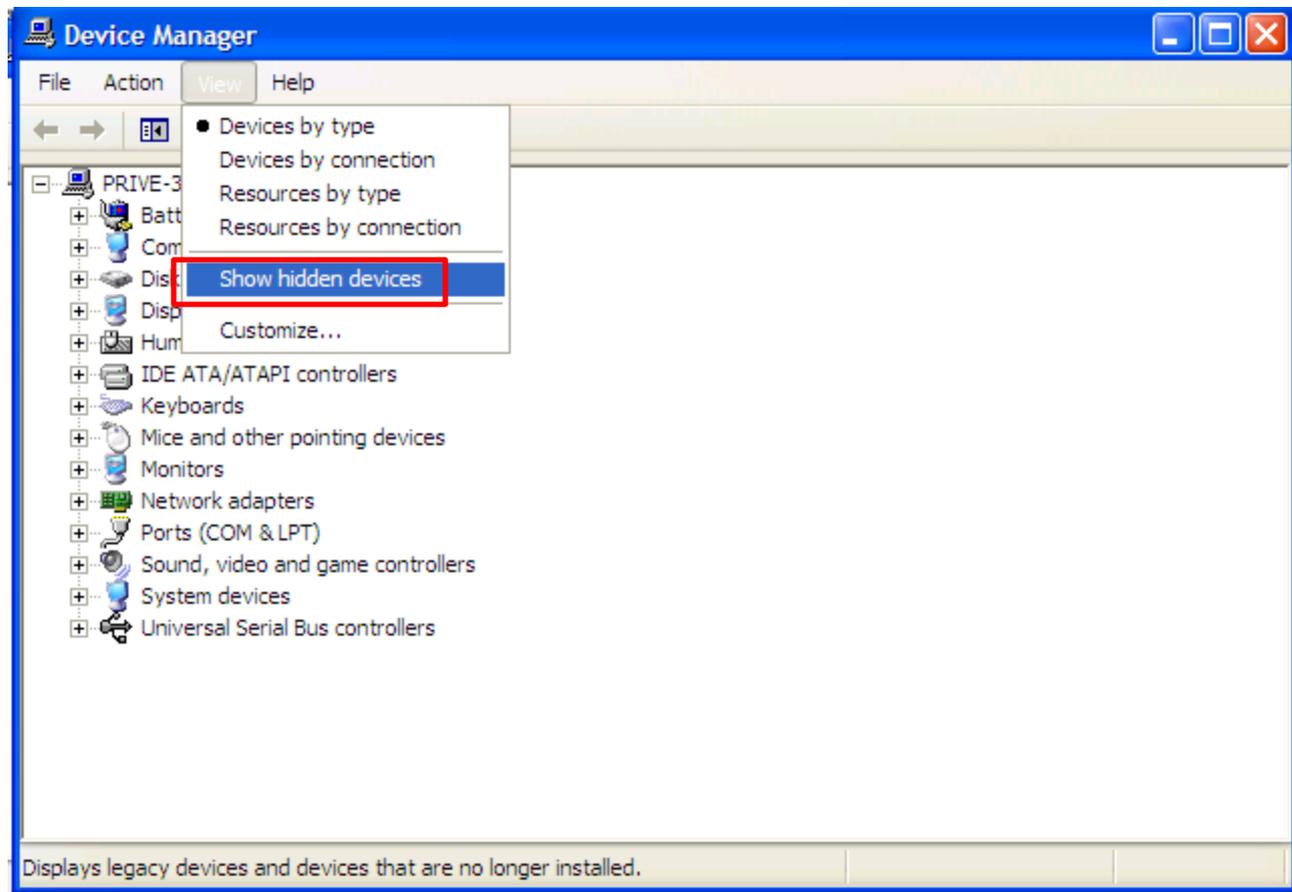
# Step 12

- Choose “Hardware”
- Click “Device Manager”



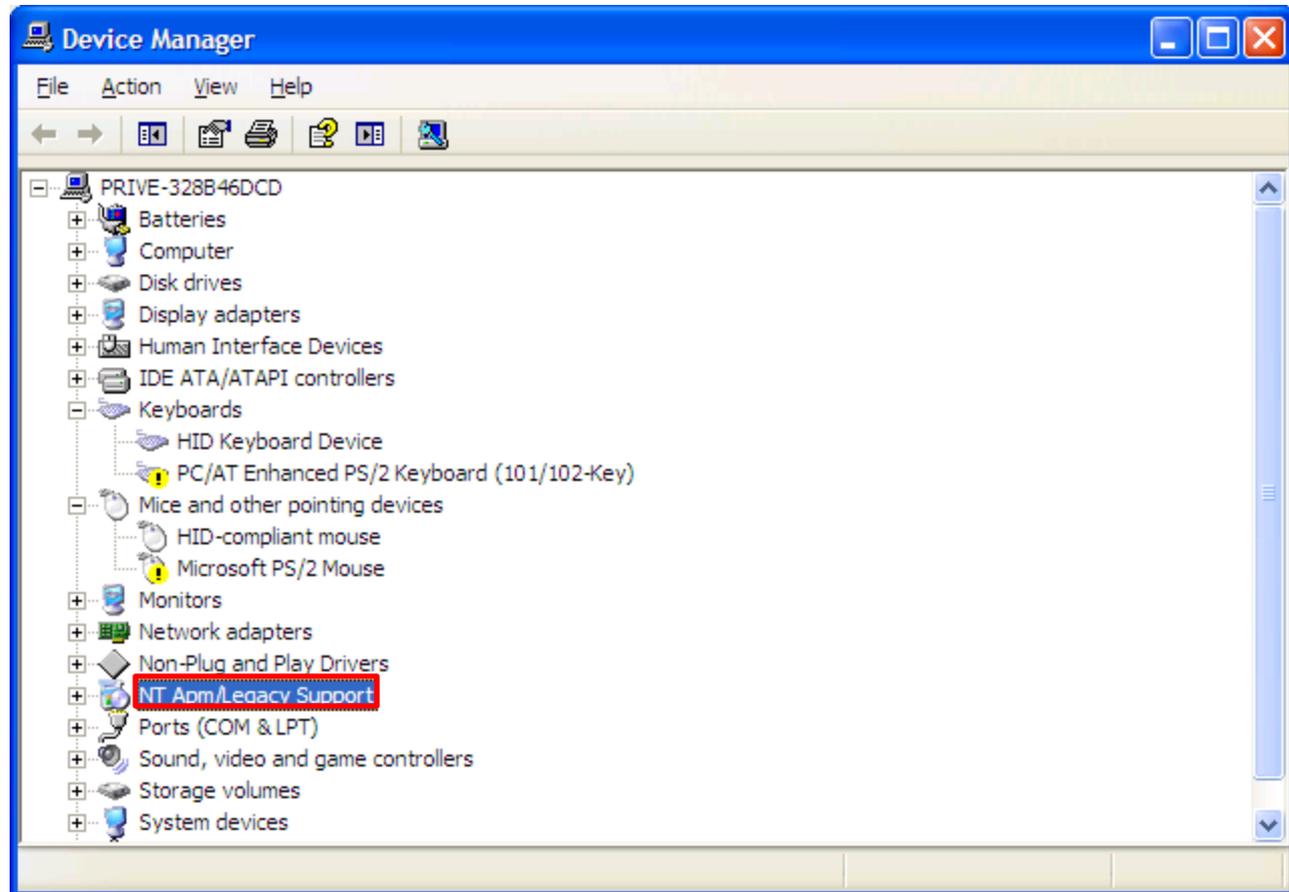
# Step 13

- Choose “View” → “Show hidden devices”



# Step 14

- You should be able to find “NT Apm/Legacy Support” if it is correctly installed.



# Step 15

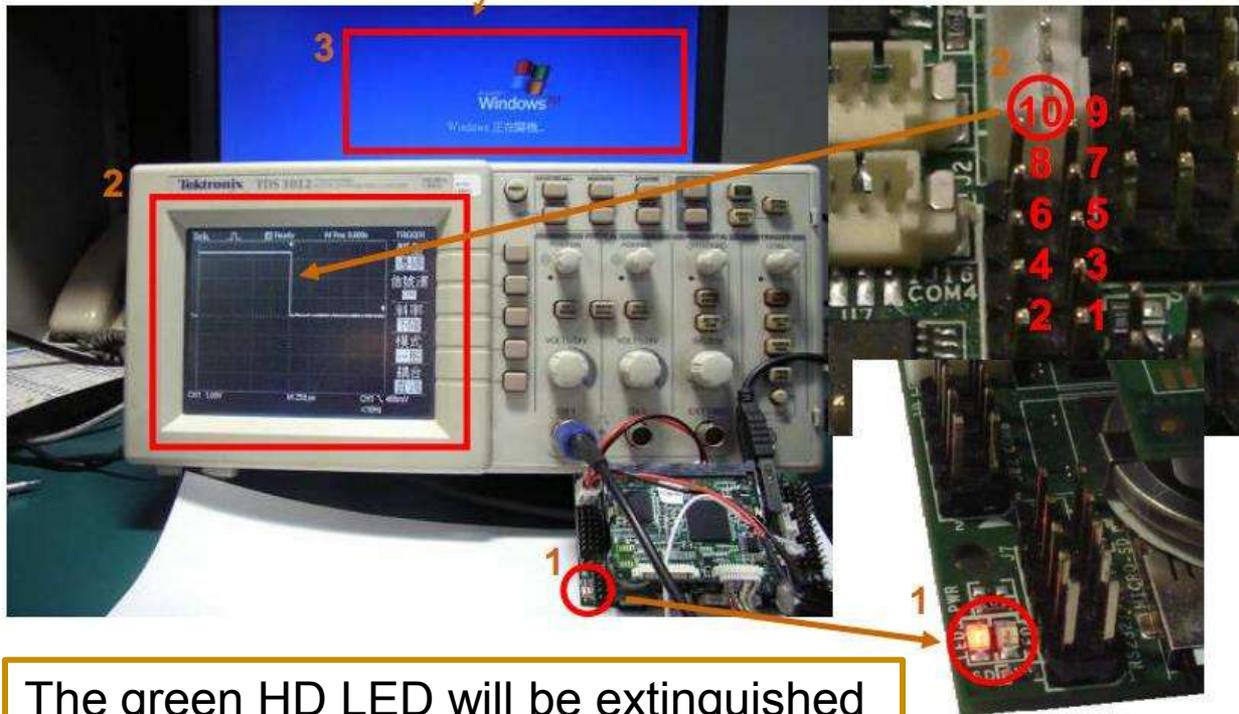
- Turn off the WinXP



# Step 16

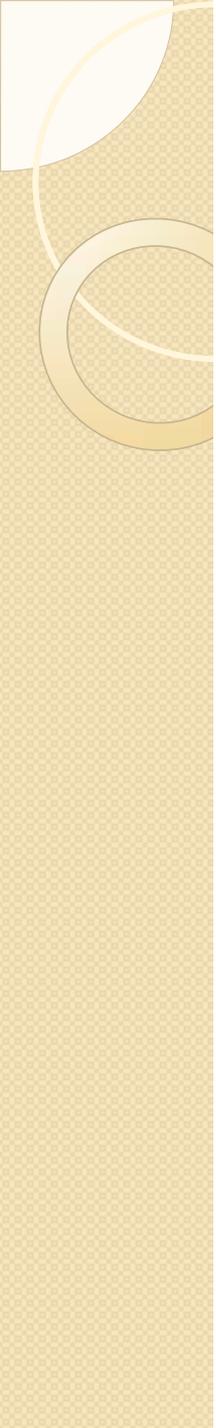
- You should see the following behavior when WinXP finishes the shutdown process

Note that after shutdown, WinXP will stop at the screen of "windows is shutting down..."



The SPISS pin on I2C/SPI connector will be set to logic 0

The green HD LED will be extinguished



# Thank You

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