

### **Installing the USB driver for Firmware 2.1 (6) or later**

Matrix Multimedia USB PICmicro programmer boards with Firmware version 2.1 (6) or later require drivers to be installed in order for the programmer to function correctly.

The following document is a guide to installing the USB drivers.

### **Installing the drivers**

Because of the differences in USB implementation for different versions of Microsoft Windows, the installation of the driver varies with the operating system being used. In general, there are two different procedures: one for Windows 98SE, and one for Windows 2000 and Windows XP.

Regardless of the operating system, it should not be necessary to close any open applications prior to the driver installation.

Note: If you are unable to add USB devices and their associated drivers due to security restrictions you will need to contact your system administrator.

### **For Microsoft Windows 98SE:**

1. When the USB cable is connected, the "Add New Hardware Wizard" dialog will appear. Click Next.



2. At the following dialog, you will be asked to choose a driver search method. Select the "Search for the Best Driver" option, and click Next.



3. At the next dialog, select the "Specify a location" option. Click on Browse to open the Windows Open File dialog. Navigate to the driver directory on the CD ROM: "`<D:>\USB_Firmware_Driver`" where `<D:>` is the CD ROM drive being used, and click Open.



4. At the next dialog, verify that the path displayed is correct. The Driver file `mchpusb.inf` should have been selected. Click Next.



5. After a brief interval, the final Add Hardware Wizard dialog will confirm that the driver has been installed.  
Click Finish.



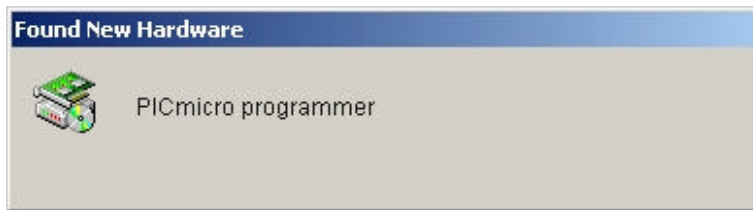
The USB driver is now installed.

Note: For some USB driver installations you may be asked to insert the Windows 98SE installation CD ROM. Insert the Windows 98SE CD ROM and click on OK.  
You may need to reinsert the previous CD ROM to continue with installation tasks.

**For Microsoft Windows 2000 Desktop:**

1. When the USB cable is connected, a "Found New Hardware" message appears.

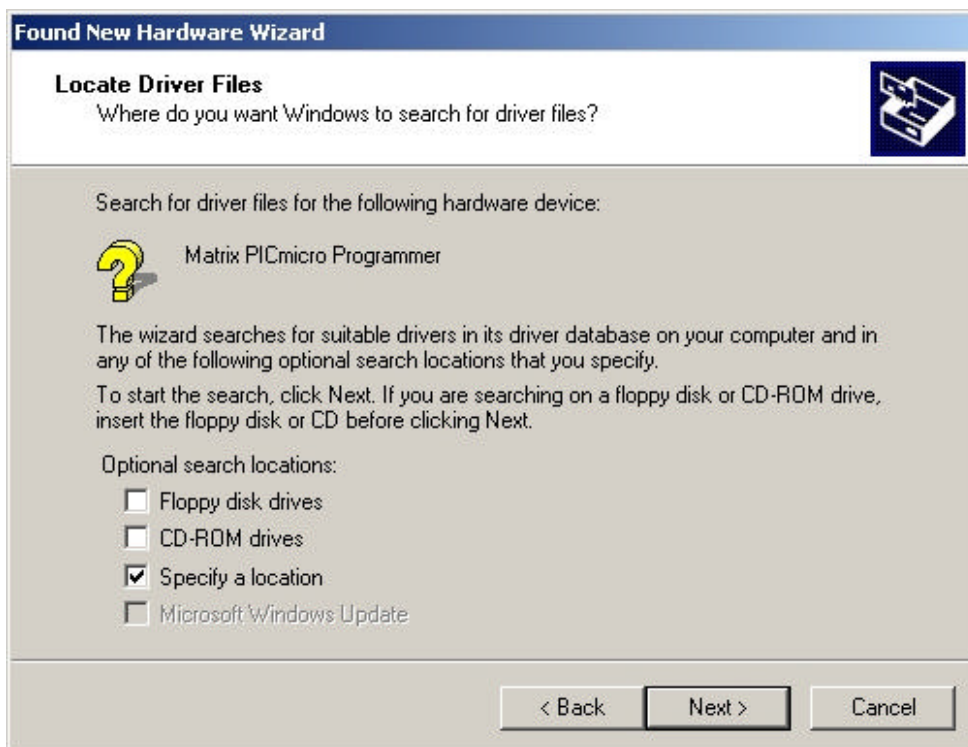
After a brief interval, this will be replaced by the “Found New Hardware Wizard” dialog. Click Next.



2. At the “Install Hardware Device Drivers” dialog, select the “Search for a suitable driver” option. Click Next.

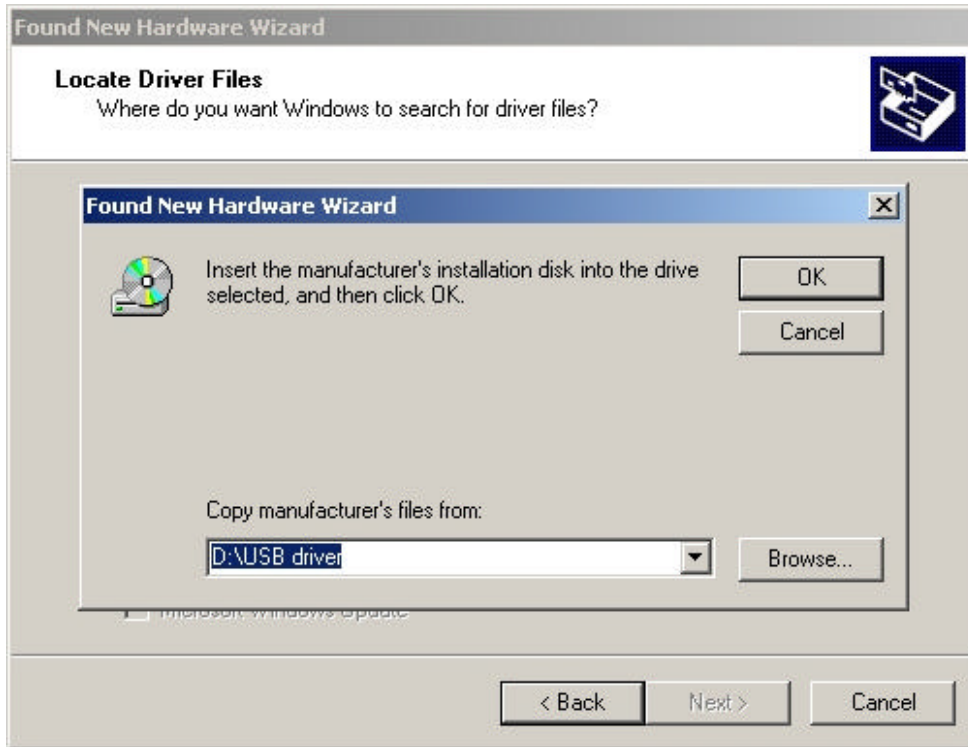


3. At the "Locate Driver Files" dialog, select the "Specify a location" check box. Click Next.

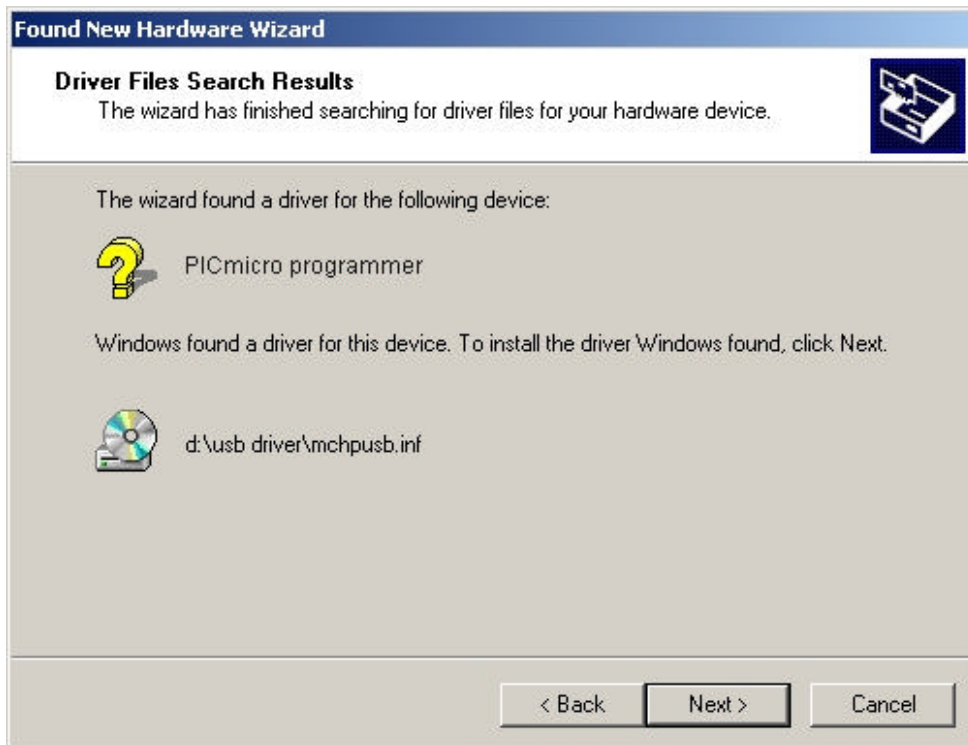


4. At the next dialog, click the Browse button to open the Windows Locate File

dialog. Navigate to the directory "<D:>\USB\_Firmware\_Driver" where <D:> is the CD ROM drive being used. Click Open to accept the location, then OK at the original dialog (see Figure 1-10).



5. At the "Driver Installation" dialog, confirm that the wizard has located the file mchpusb.inf. Click Next.



6. After a brief interval, the final Hardware Wizard dialog will confirm that the driver has been installed.  
Click Finish.



It will not be necessary to restart the system.

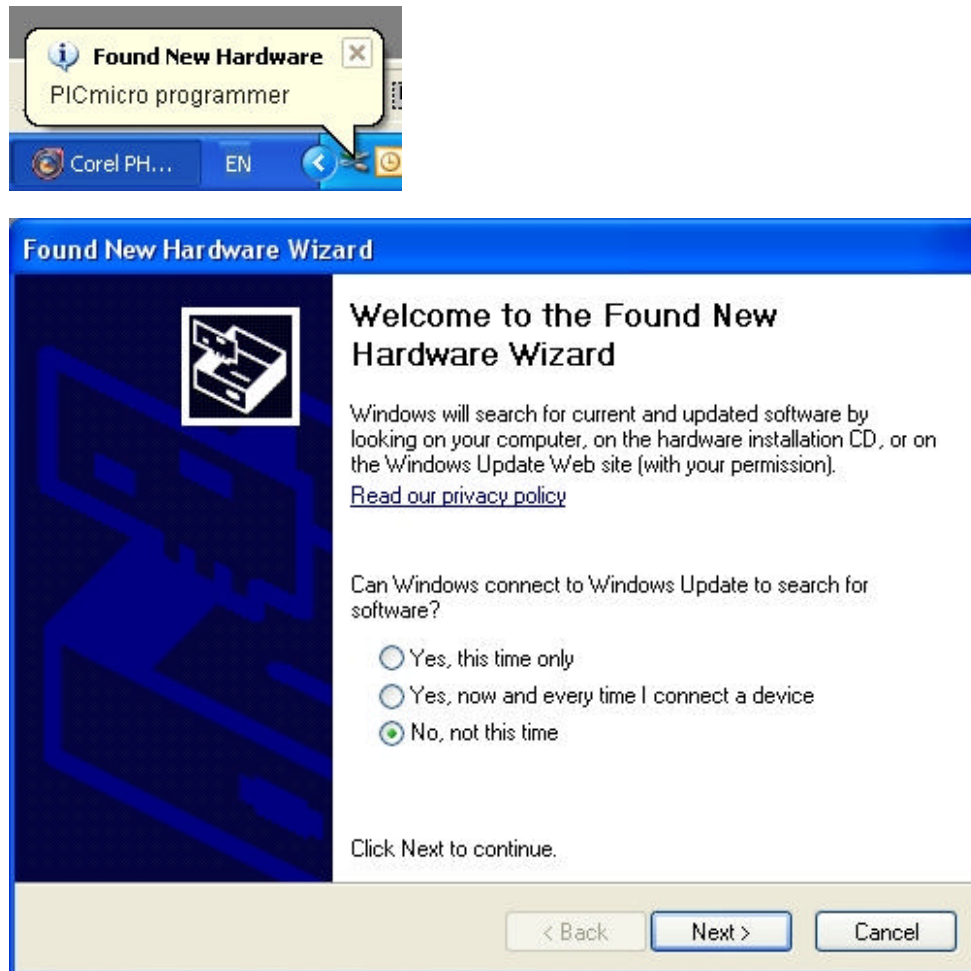


**For Microsoft Windows XP:**

The USB driver installation process is similar to that of Windows 2000, but requires fewer steps.

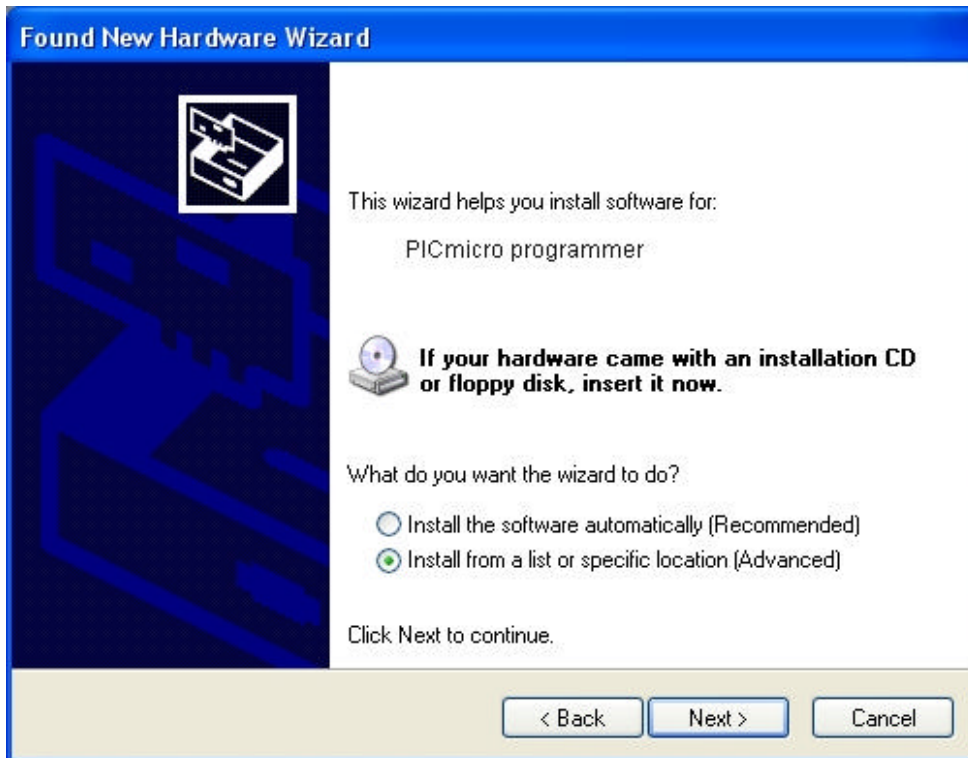
1. After the USB cable is connected, the initial Hardware Wizard dialogs appear.

Select "No, not this time" if asked to connect to Windows update.

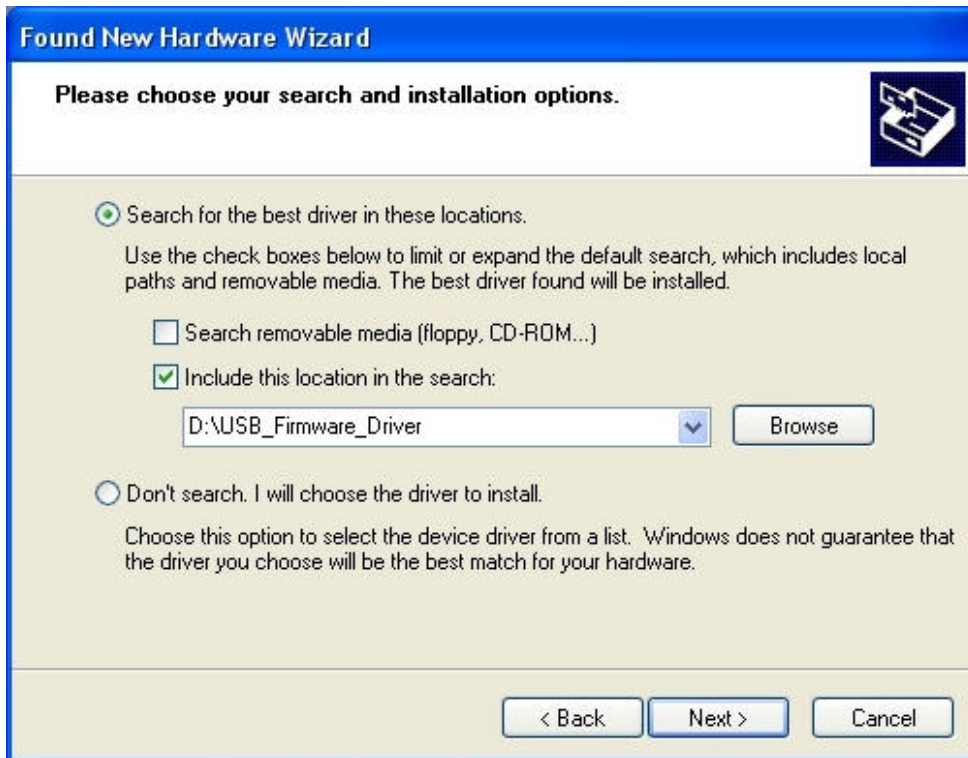


Next select the "Install from a list of specific locations" option. Click Next.

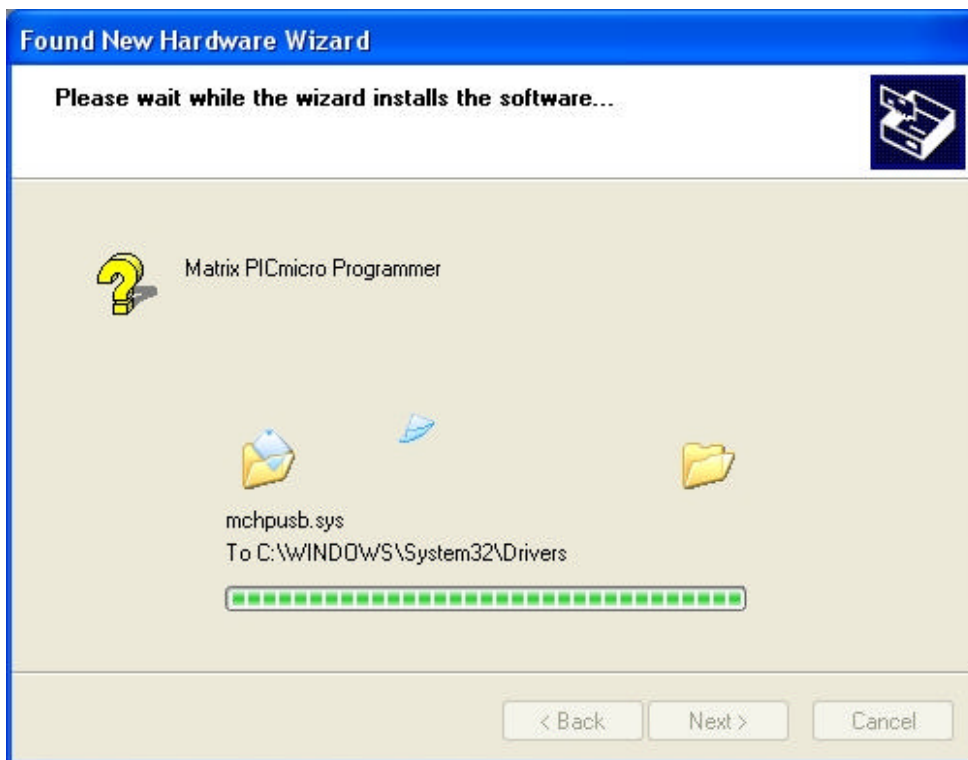




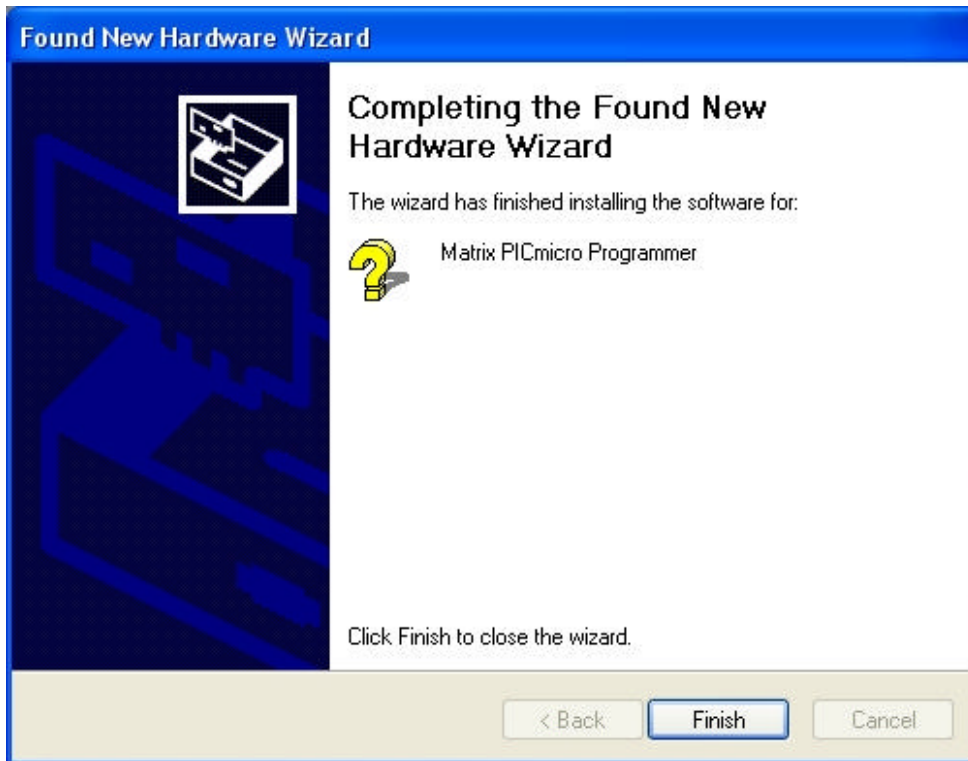
2. At the "Search and Installation Options" dialog, select the "Include this location..." option. Click the Browse button to open the Windows Browse for Folder dialog. Navigate to the directory "<D:>\USB\_Firmware\_Driver where <D:> is the CD ROM drive being used". Click OK to accept the location, then Next at the original dialog.



3. The system will copy and install the driver files, and indicate when the process is finished. Click Next.



4. The final dialog will indicate that the driver has been successfully installed. Click Finish. It will not be necessary to restart the system.



#### **Confirming that the Driver is installed:**

Regardless of the versions of the operating system, the Matrix PICmicro programmer USB board will appear in the Device Manager view (available from the System applet in the Control Panel) when the installation is complete. The Matrix PICmicro programmer entry will appear under the category of "Other Devices" . The icon and name will be the same in all versions of Windows.



(Partial window shown)

#### **Checking the board**

You can confirm that the USB driver is installed by checking that the board is detected, and that the Firmware is version 6 or later.

As an additional test you can download a program to the board.

1. Connect and power up the board.
2. Open PPP and select the Options screen.
3. Click on Auto detect in the Board version section.  
PPP should detect a V3+ USB board.
4. Close the options screen
5. Got to About in the Help menu.
6. The About dialog will list the firmware version. This should be version 6 or later.

Whilst the above test should be sufficient to show that the driver is loaded you may want to test the board by downloading a HEX file to the board.

Select a convenient PICmicro device and an associated test HEX file, or one that you know to be have downloaded successfully in the past.  
Configure the PICmicro and send the HEX file.