
	tekmar soft USB Cable	Document:	A194-IF
		Revision:	1.1
	Instruction Manual	Date:	2009-06-22
	Author: Jörg Tilders	Page:	1 of 8

Installation Instructions

tekmar soft USB Cable

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1. Installing the Driver under Windows XP

1. Copy the self-extracting archive file **tekmar soft USB driver <version>.exe** containing the drivers for the USB cable to a suitable folder on your computer.
2. Run the self-extracting archive and unpack the files into the pre-selected destination folder (or any other folder of your choice) by clicking the **"Install"** button. The folder in our example here is **"C:\Driver\tekmar soft driver"**.
3. Connect the USB cable to a free USB port and wait until the system has recognised the new hardware. The **"Found New Hardware Wizard"** popup window appears (see Figure 1).
4. Click the **"No, not this time"** radio button and start the installation by clicking the **"Next"** button.
5. A new dialog window (see Figure 2) appears. Select the option **"Install from a list or specific location (Advanced)"** and click the **"Next"** button.
6. In the next dialog window (see Figure 3), enter the path to the driver files (the folder into which you unpacked your archive in step 2) or **"Browse"** for the folder. When done, click the **"Next"** button.
7. A new popup window (see Figure 4) shows the progress of the installation process.


During the installation a new window with a warning message **"The software you are installing for this hardware: tekmar soft USB cable has not passed Windows Logo testing to verify its compatibility with Windows XP"** might appear. In this case, click the **"Continue Anyway"** button to continue the installation.

8. When the installation process is done a new dialog window (see Figure 5) appears. Click the **"Finish"** button to complete the installation.
9. As the USB driver works on two different hardware layers the installation steps 4 to 8 have to be repeated for the second layer. This finally completes the installation process.

Note: The tekmar soft USB cable has a serial number. If you connect another tekmar soft USB cable to the same computer the operating system recognises the new hardware and starts the hardware installation again. In this case, you may select the option **"Install the software automatically (Recommended)"** (see Figure 2).



Figure 1 The Found New Hardware Wizard

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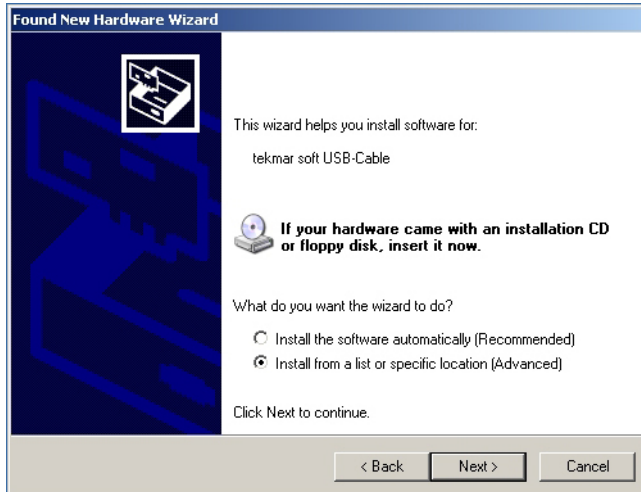


Figure 2 Starting the installation

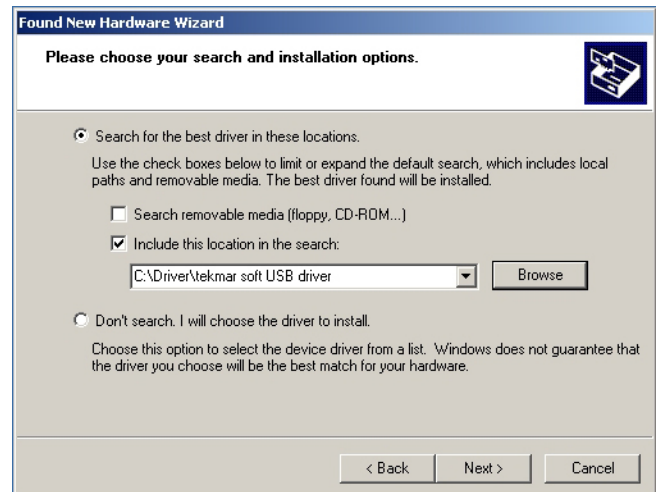


Figure 3 Specifying the source location

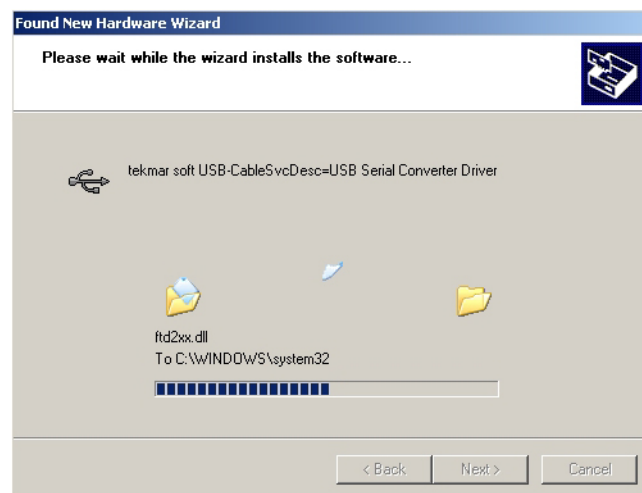


Figure 4 Installation in progress

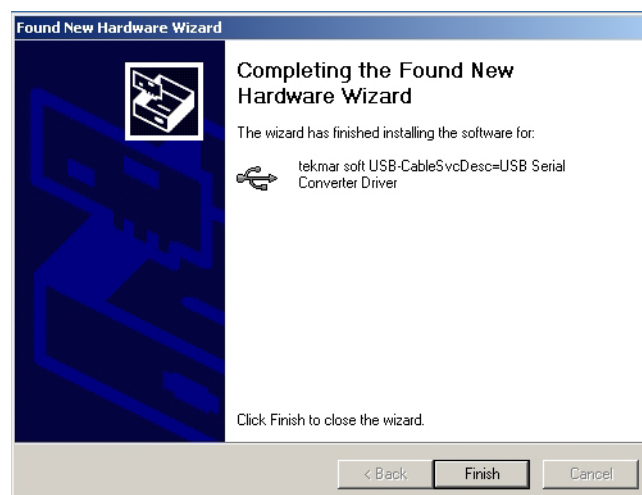



Figure 5 Installation complete

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2. Updating the Driver under Windows XP

1. Click **Start / Settings / Control Panel**.
2. Select the option **"System"**.
3. Under **System Properties** (see Figure 6), select the tab **"Hardware"**.
4. Click the **"Device Manager"** button to start the device manager.
5. If the tekmar soft USB cable is connected to the computer you should find it by expanding the **"Ports (COM & LPT)"** branch of the device manager hierarchy (see Figure 7).
6. Double click the **"tekmar soft USB cable"** in the device manager hierarchy to open its properties dialog (see Figure 8).
7. Select the tab **"Driver"**.
8. Start the installation process by clicking the **"Update Driver..."** button.
9. Follow the instructions given in steps 5 to 8 of chapter 1 (Installing the driver).
10. You should find the second driver layer in the device manager hierarchy by expanding the **"Universal Serial Bus Controllers"** branch (see Figure 9).
11. Double click the **"tekmar soft USB cable"** in the device manager hierarchy to open its properties dialog (see Figure 10).
12. Select the tab **"Driver"**.
13. Start the installation process by clicking the **"Update Driver..."** button.
14. Follow the instructions given in steps 5 to 8 of chapter 1 (Installing the driver).

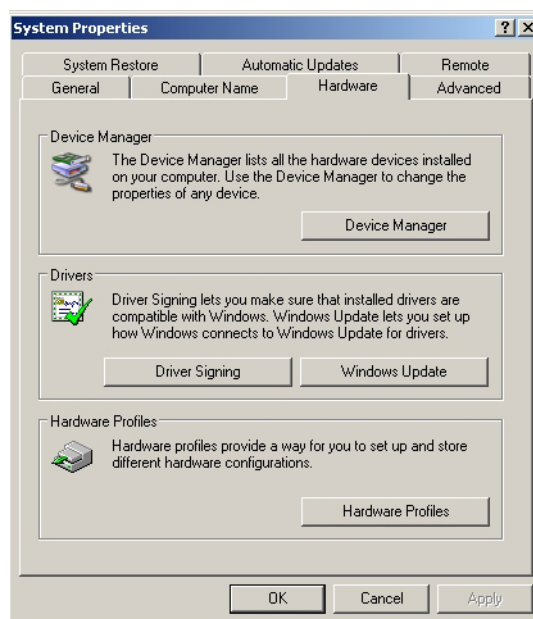



Figure 6 System Properties

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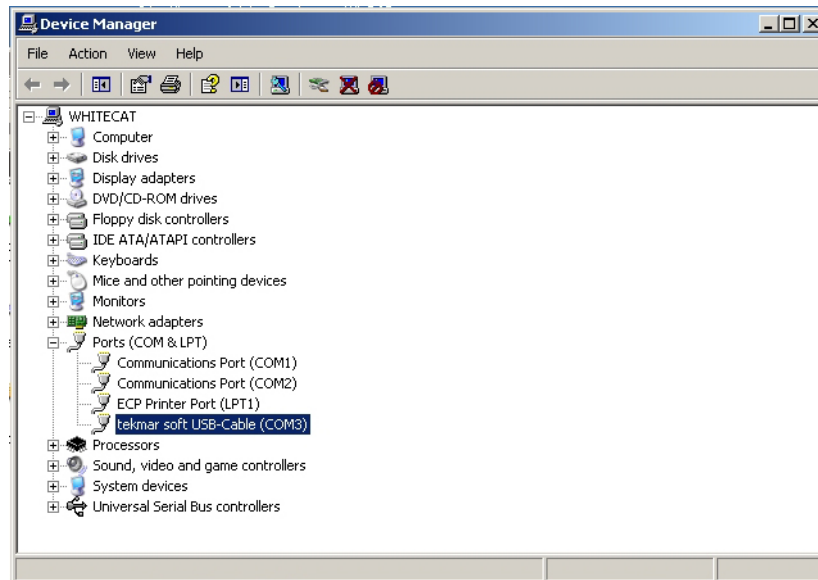


Figure 7 Device Manager Hierarchy – Ports

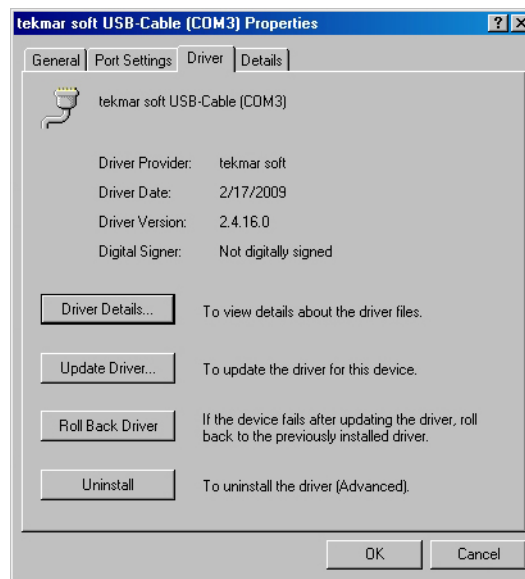



Figure 8 tekmar soft USB Cable Properties

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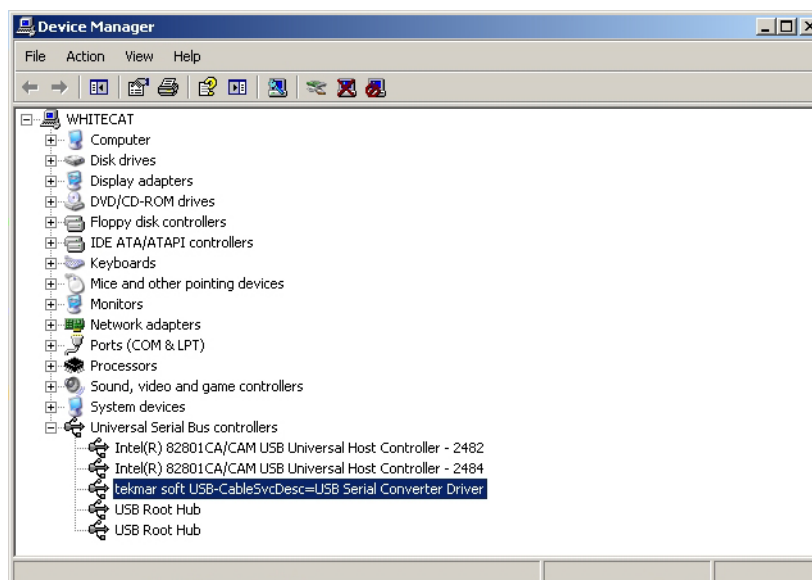


Figure 9 Device Manager Hierarchy – USB Controllers

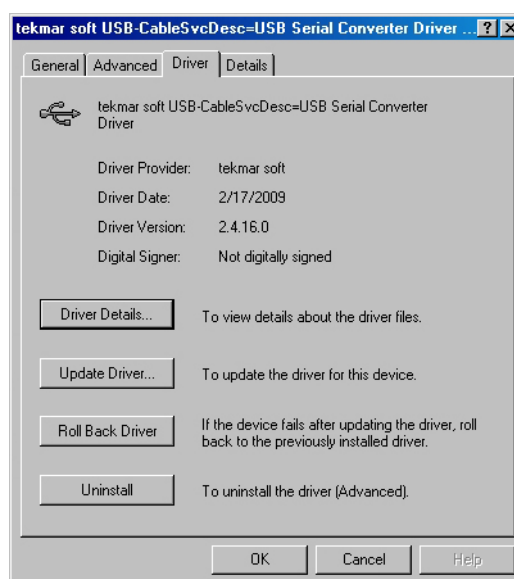



Figure 10 tekmar soft USB Cable Serial Converter Properties

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3. Selecting the COM Port

The logical number of the COM port is determined automatically by the operating system. Normally, the numbers 1 to 4 are assigned to physical interfaces. Available port numbers are assigned consecutively to the USB devices. A valid port number can be any number from 1 to 256. Most software applications can handle these port numbers without any problems. There are applications, however, that cannot address the entire range of port numbers and thus are possibly unable to reach a particular port. In this case, it is required to set the port number manually using the Device Manager.

3.1 Identifying the COM port number

The number of the COM port is assigned automatically by the operating system. To identify the port number of the tekmar soft USB cable follow these steps:


1. Click **Start | Settings | Control Panel**.
2. Select the option **"System"**.
3. Under **System Properties** (see Figure 6), select the tab **"Hardware"**.
4. Click the **"Device Manager"** button to start the device manager.
5. If the tekmar soft USB cable is connected to the computer you should find it by expanding the **"Ports (COM & LPT)"** branch of the device manager hierarchy.
6. In Figure 7, you will find an entry **"tekmar soft USB cable (COM3)"** which shows the assigned port number in brackets. In this case the port number **"COM3"** has been assigned. When configuring the serial interface of your software application you need to specify COM3 in order to use this cable.

3.2 Setting the COM port number manually

If the assigned COM port number is not supported by your software application the assignment can be changed manually as follows:

1. Click **Start | Settings | Control Panel**.
2. Select the option **"System"**.
3. Under **System Properties** (see Figure 6), select the tab **"Hardware"**.
4. Click the **"Device Manager"** button to start the device manager.
5. If the tekmar soft USB cable is connected to the computer you should find it by expanding the **"Ports (COM & LPT)"** branch of the device manager hierarchy (see Figure 7).
6. Double click the **"tekmar soft USB cable"** in the device manager hierarchy to open its properties dialog.
7. Select the tab **"Port Settings"** (see Figure 11).
8. Click the **"Advanced"** button to open the dialog window **"Advanced Settings for COM3"**.
9. In this dialog (see Figure 12), select the desired **"COM Port Number"** from the drop down list and close the dialog window by clicking the **"OK"** button. The new COM port number is effective immediately.

Note: Every time you change a USB device from one USB port to another one on the same computer a new COM port number will be assigned which can easily bail out the pool of available numbers. Once a number has been used it is marked **"already assigned"**. You may normally ignore this warning unless the corresponding device is connected to the computer when the re-assignment is done. It is recommended that you connect the tekmar soft USB cable always to the same USB port of the computer, thus always using the same COM port number. Future tekmar soft products will address the tekmar soft USB cable directly, avoiding the detour via the COM port. In this case, the cable will be identified by its serial number.

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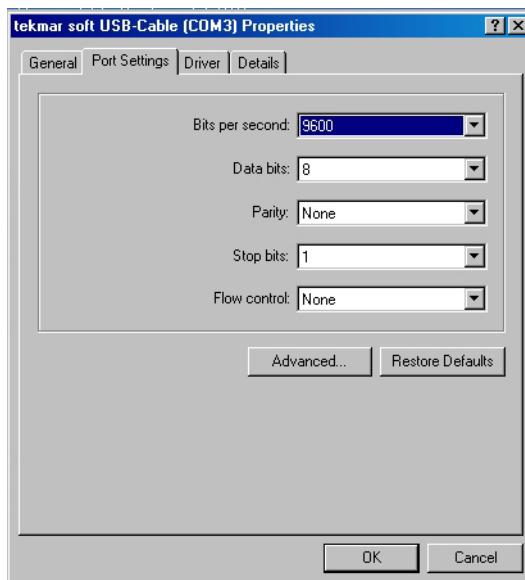


Figure 11 tekmar soft USB Cable - Properties

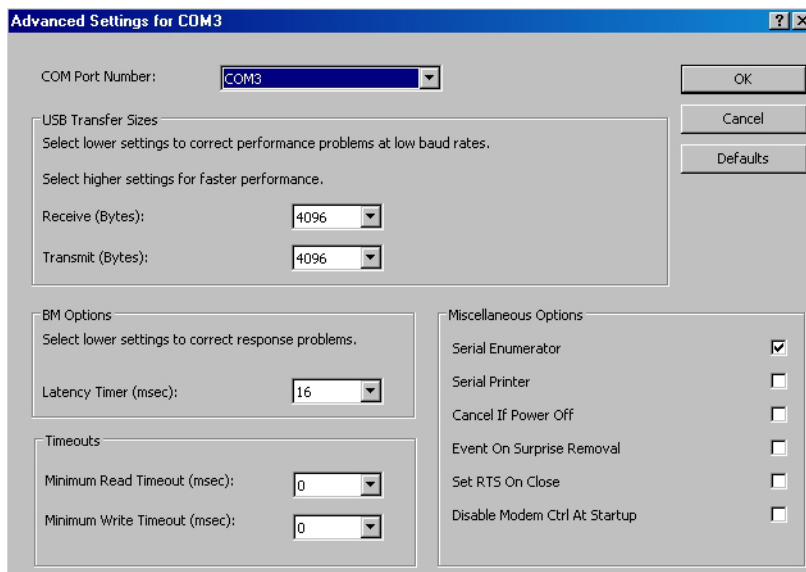


Figure 12 Advanced Settings for COM3