



USB Serial Adapter

User Manual



F5U103
P73309

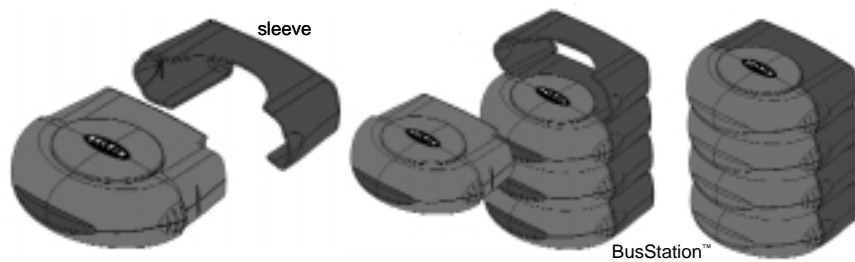
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Compatible Devices

MODEM.CPL, a component of Windows® 98. The easiest solution to this problem is to attach the USB Serial Adapter to either the root hub (a USB port on the back of your PC) or to a hub that is connected to the root hub.

6.0. Using the Adapter on a Belkin BusStation™

The USB Serial Adapter can be used as a module to the Belkin BusStation™ (Part No. F5U100). To connect the adapter, simply remove the sleeve and slide the adapter into one of the BusStation™ bays as shown below. For more details about the BusStation™, please check the BusStation™ user manual or visit our Web site at www.belkin.com.



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5. Troubleshooting

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5.1. Port unavailable

If the installation of the USB Serial Adapter has been completed but the port is unavailable to applications, follow the instructions below to diagnose the problem:

1. Check the LEDs on the USB Serial Adapter.
 - If the red light is on steady, skip to the next section.
 - If there are no lights on, check to make sure the device has been properly plugged in.
 - If the center, green LED is blinking steadily, the device has not been configured properly. This can happen if the wrong drivers have been installed for your operating system. If the wrong drivers have been installed or if you are not sure, follow the instructions in section 3.3, Uninstalling the USB Serial Adapter Drivers, and reinstall the software.
2. Check to make sure no other applications are using the COM port.
3. If you have enabled DOS Box support, make sure that no other applications are using the Windows® name for the COM port or the DOS name for the COM port (see section 4.4 Using the USB Serial Adapter with DOS Applications).

5.2. Communications Garbled

If you are using the USB Serial Adapter to communicate between two computers over a serial cable, make sure that the communications settings are the same on each computer. For instance, if one computer is set up for 9600-baud, 8 data bits, no parity, one stop bit and hardware handshaking, errors can occur if the settings on the other device do not match.

5.3. Modem not detected/illegal operation in MODEM.CPL

It is possible that a modem attached to the USB Serial Adapter will not be detected or a problem will occur in MODEM.CPL if more than one USB hub is between the USB Serial Adapter and the root hub. This is a known problem in

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1. Introduction

1. Introduction

The USB Serial Adapter provides a standard serial interface to a PC equipped with USB without requiring an add-in card. By default, the USB Serial Adapter installs without taking up any resources. In this mode, most standard Windows® applications can communicate with the device without using IRQ or memory location resources. The USB Serial Adapter supports communication speeds of up to 230Kbps. The device can also be easily set up to support DOS applications that require specific resources.

2. Device Specifications

2.1. Environmental Conditions

0 to 70°C (32 to 158°F)
Humidity 10 to 90%, non-condensing

2.2. Data Rate

Runs at a maximum baud rate of 230Kbps

2.3. Operating Systems

Windows® 98, Windows® 95 Rev. B

2.4. Power Consumption

Powered from USB Bus
Normal Operation: ~70µA
Suspend: ~300mA

2.5. Dimensions

1.25" H x 4.25" W x 3.75" L

2.6. LEDs

Red: Power
Green: Transmit and Receive

2.7. Compliance

FCC Class B, USB specification v 1.0 and 1.1



4.2. Adding Non-Plug-and-Play (Legacy) Devices

Non-Plug-and-Play devices must be added through the “Add New Hardware Wizard” in the “Control Panel”. Using this wizard, follow the installation instructions that came with your device.

4.3. LED Indicator Lights

There are three LEDs on the USB Serial Adapter. When the device is installed, the center, green LED will remain blinking until the installation is complete. If the installation is successful, the red LED will remain on, indicating power. When the device is plugged in after installation, the lights will blink one at a time in sequence from the red LED to the green LED, then back. When the device has fully initialized and is ready to work, the red power LED will remain on. During normal usage, the two green LEDs indicate data being transmitted and received.

4.4. Using the USB Serial Adapter With DOS Applications

To enable the USB Serial Adapter to work with DOS applications, follow the instructions in section 3.2 Adding DOS Box Support. You can choose a different name for DOS than what is used for Windows®. You may need to do this if the USB Serial Adapter has been installed as COM5 or higher, since many DOS applications will only use COM1-COM4. For instance, if you are adding DOS Box support to COM7, you can choose to have DOS applications use the device as COM2 instead, if COM2 is not already in use. COM7 would still be available for use with Windows® applications, but both COM2 and COM7 refer to the same physical device. Therefore, while a DOS application is using COM2, COM7 will be unavailable to Windows® applications and vice-versa.

4. Using the USB Serial Adapter

3.4. Uninstalling the USB Serial Adapter Drivers

1. Unplug all USB Serial Adapter devices from the USB ports.
2. Open the **"Control Panel"** and double-click on **"Add/Remove Programs"**.
3. On the Install/Uninstall page, click on **"USB Serial Adapter"** software from the list box and click **"Add/Remove"**.
4. You can choose to uninstall the USB Serial Adapter driver and installation files, the mouse driver and installation files, or both. Choose whatever you would like to remove (a check mark will appear in the box next to each item to be uninstalled) and click **"OK"**.
5. A list of activities will appear in the "Results:" box. Click **"Done"** to exit the uninstaller.

4. Using the USB Serial Adapter

4.1. Serial Plug-and-Play Device Detection

A Plug-and-Play device, such as a modem, can be detected in one of two ways:

1. Attach the serial device to the USB Serial Adapter. Unplug the cable and plug the USB B connector to the USB Serial Adapter.
2. Attach the serial device to the USB Serial Adapter.

Note: The DB9 and MiniDIN8 port cannot be used at the same time. Connect only one device to either port. Do not attempt to connect devices on each port at the same time.

3. Right-click the **"My Computer"** icon on your desktop.
4. Click **"Properties"** from the menu that appears.
5. Click the **"Device Manager"** tab on the System Properties page.
6. Click **"Refresh"**.

Your Plug-and-Play device should be detected and you may be asked for a device driver if it has not been previously installed. Follow the instructions that came with your serial device to complete the installation.

3. Installation

3. Installation

3.1. Installing Windows® 98 Drivers

1. Insert the CD labeled **“USB Serial Adapter Installation”** into your CD drive (typically drive D:\).
2. Insert the flat (type A) connector into an available USB port on your PC or USB hub attached to your PC.
3. Insert the square connector (type B) into the USB Serial Adapter device. You will see **“Add New Hardware Wizard”**.
4. Click **“Next”**.
5. When asked **“What do you want Windows® to do?”**, choose **“Search”** for the best driver for your device. (Recommended) Click **“Next”**.
6. To search for new drivers, click on **“Specify location”** and in the path type your CD-ROM driver letter and Win® 98 path (typically: D:\Win®98). Click **“Next”**.
7. The final dialog says **“Windows® has finished installing the software that your new hardware device requires”**. Click **“Finish”**.

A new COM port will automatically be installed. Follow the instructions below to determine the name of the new COM port.

1. Right-click the **“My Computer”** icon on your desktop.
2. Click **“Properties”** from the menu that appears.
3. Click on the **“Device Manager”** tab on the **“System Properties”** page.

Click on the **“+”** next to **“Ports (COM & LPT)”**.

You will see a list of ports. One of the ports will be labeled **“USB Comm Port (COM name)”** where **“COM name”** is the name of the new COM port. This name will be used in applications.

3.2. Installing Windows® 95 Drivers

1. Insert the CD labeled “**USB Serial Adapter Installation**” into your CD drive (typically drive D:\).
2. Insert the flat (type A) connector into an available USB port on your PC or USB hub attached to your PC.
3. Insert the square connector (type B) into the USB Serial Adapter device. You will see “**Add New Hardware Wizard**”.
4. Click “**Next**”.
5. When asked “**What do you want Windows® to do?**”, choose “**Search**” for the best driver for your device (Recommended). Click “**Next**”.
6. Windows® will then state it could not find drivers for this device. Click on “**Other Locations**”.
7. In the path, type your CD-ROM drive letter and Win® 95 path (typically D:\Win® 95) and click “**OK**”.
8. Click “**Finish**”.
9. Windows® will then state, “**The disk labeled USB to Serial Disk #1 is now required**”. Click “**OK**”.
10. Where it states “**copy file from**”, type your CD-ROM drive letter and path (typically D:\Win® 95) and click “**OK**”.
11. Windows® will then finish the installation for you.

A new COM port will automatically be installed. Follow the instructions below to determine the name of the new COM port.

1. Right-click the “**My Computer**” icon on your desktop.
2. Click “**Properties**” from the menu that appears.
3. Click on the “**Device Manager**” tab on the “**System Properties**” page.

Click on the “+” next to “Ports” (COM & LPT).

You will see a list of ports. One of the ports will be labeled “USB Comm Port (COM name)” where “COM name” is the name of the new COM port. This name will be used in applications.

3.3. Adding DOS Box Support (Optional)

DOS Box support for the USB Serial Adapter is useful if you intend to use DOS applications, but **not necessary for Windows® applications**. If you are using only Windows® applications, it is recommended that you do not install this feature as it uses resources. For more information about using DOS Box applications, see section 4.4. Enabling DOS Box support requires one IRQ and a range of eight memory locations in order to function. In addition, some DOS applications require certain IRQ and memory configurations to be associated with specific COM ports. To enable DOS Box support for a USB Serial Adapter device, follow the instructions below.

1. Right-click on the **“My Computer”** icon on your desktop.
2. Click **“Properties”** from the menu that appears.
3. Click the **“Device Manager”** tab on the System Properties page.
4. Click the **“+”** next to Ports (COM & LPT).
5. Click **“USB Comm Port”** (ComX) where X is the port number of the device to which you'd like to add DOS Box support.
6. Click the **“Properties”** button.
7. Click the **“DOS Box”** tab.
8. Click the box next to Enable DOS Box 16550 Emulator. A check mark will appear in the box.
9. Choose a DOS name for the port from the list box next to Logical Device Name (DOS Box). Many DOS applications will only work with COM1-COM4. If you don't want any of these, choose COMX. Click **“OK”**.
10. You will be asked for the “USB to Serial installation” CD. Insert the installation CD into your CD drive and click **“OK”**. If a dialog pops up stating that a file could not be found, make sure that the **“Copy files from:”** edit box contains the name of your CD drive along with **“:\Win® 98”** and click **“OK”**.

Once DOS Box support is enabled for a specific USB Serial Adapter device, and additional Port entry in the “Device Manager” will be created, labeled “16550 COM Port Emulator”. You will also be able to disable and enable this feature.

To disable or re-enable DOS Box support, follow steps 1-6 above. If you are disabling DOS Box support, the check mark will disappear.

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