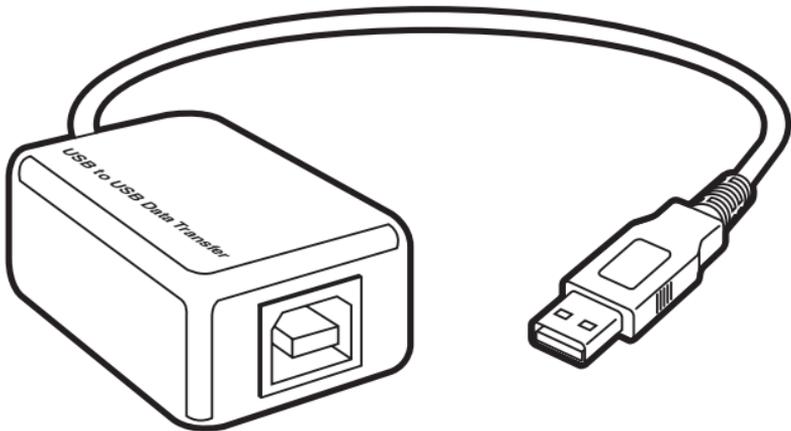


## USB ↔ USB Data Transfer



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### CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S. 24 hours, 7 A.M. Monday to midnight Friday: **877-877-BBOX**  
FREE technical support, 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**  
Mail order: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018  
Web site: [www.blackbox.com](http://www.blackbox.com) • E-mail: [info@blackbox.com](mailto:info@blackbox.com)

**FEDERAL COMMUNICATIONS COMMISSION**  
**and CANADIAN DEPARTMENT OF COMMUNICATIONS**  
**RADIO FREQUENCY INTERFERENCE STATEMENT**

*Class B Digital Device.* This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or telephone reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

## USB ↔ USB DATA TRANSFER

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

### **Caution:**

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

To meet FCC requirements, shielded cables and power cords are required to connect this device to a personal computer or other Class B certified device.

*This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.*

*Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.*

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# 1. Specifications

**Hardware Requirements**—PC that supports USB; 486DX, 66-MHz CPU or higher

**Software Requirements**—Windows 95B or 98

**Standards**—USB 1.1

**Connectors**—(1) USB Type A male on a 10.5" (26.7-cm) pigtail cable, (1) USB Type B female

**Additional USB Cable Included** —*Connectors:* (1) USB Type B male, (1) USB Type A male, *Length:* 6 ft. (1.8 m)

**Power**—From the interface

**Size**—1<sup>5</sup>/<sub>8</sub>" W x 2<sup>1</sup>/<sub>4</sub>" L (4.1 x 5.7 cm)

## 2. Introduction

### 2.1 Overview

The USB ↔ USB Data Transfer cable provides peer-to-peer file transfer between two computers via the USB port. It gives you true plug-n-play capability while transferring files at much greater speed than traditional file-transfer methods via serial or parallel port. With the cable, data can travel at speeds more than 6 Mbps. In most applications, files will transfer smoothly at speeds greater than 4 Mbps. The cable's application program—which is similar to the standard Windows Explorer interface—makes file transfer as easy as drag-and-drop. You simply plug in the cable and install the program one time.

### 2.2 What the Package Includes

Your USB ↔ USB Data Transfer package includes the following items:

- (1) USB ↔ USB Data Transfer cable
- (1) 6-ft. (1.8-m) USB type B male to USB type A male cable

- (1) Driver and software installation diskette
- This user's manual

If anything is missing or damaged, contact Black Box immediately at 724-746-5500.

### 2.3 Features

The USB ↔ USB Data Transfer cable offers these features:

- Single-chip (ASIC) USB host-to-host communication.
- High-speed data transfer rate from 6 Mbps.
- Single-cable solution for data communication.
- Supports Windows 95 and 98.
- File transfer is as easy as drag-and-drop.
- Includes print function for remote files.
- Includes power-management and remote-wakeup functions.

- Complies with USB specification 1.1.

## 2.4 System Requirements

Before you use the USB ↔ USB Data Transfer cable, make sure your computer is IBM PC compatible with the following minimum system requirements:

- Intel compatible 486DX-66 MHz CPU or higher.
- One standard USB port (4-pin).
- Any of the following operating systems:
  1. Windows 95 OSR2.1 (B version) with USB version 1214.
  2. Windows 98.

## 3. Installation

### 3.1 Driver Installation

Follow the steps below to install the USB ↔ USB Data Transfer cable for the first time:

1. Power on both computers where you will connect the USB Transfer cable. Make sure that the USB port on each PC is enabled and working properly.
2. Plug the USB cable into the USB port. Windows will detect an unknown device and run the “Add New Hardware Wizard” to help you set up the new device.
3. Insert the USB cable driver diskette into the floppy drive and click **Next** to continue.
4. If you’re using **Windows 98**, follow the steps below. If you’re using Windows 95, skip to step 5.
  - a. Select “Search for the best driver for your device” and click **Next**.
  - b. Select “Specify a Location” and click **Browse**. Change the folder of your floppy drive (for example, A:\WIN98) and click **OK**.

- c. Double-check the directory that Windows prompts. Click **Next**.
  - d. Windows will detect the driver (**usbbc.inf**) and show the “USB Bridge Cable (Windows 98).” Click **NEXT** to continue until installation is complete.
  - e. Click **Finish** when installation is complete.
5. For **Windows 95** users:
- a. Select **Others** and click **Browse**. Change the folder of your floppy drive (for example, A:\WIN95) and click **OK**.
  - b. Double-check the directory that Windows prompts. Click **OK**.
  - c. Click **Finish** to install drivers.
  - d. Windows will prompt “Please insert Windows 95 CD-ROM and click **OK**.”
  - e. Click **Browse** and change the folder of your floppy drive (for example, A:\WIN95) and click **OK**.
  - f. Double-check the directory that Windows prompts. Click **OK** to continue until installation is complete.
-

### 3.2 Program Installation

After installing the device driver for the USB Data Transfer cable, you need to install the application program for transferring files. Follow the steps listed below.

1. Insert the driver diskette into the floppy disk drive and run the **setup.exe** program.
2. The Setup program will begin installing the program.
3. Follow the instructions on every dialog box to finish the installation.
4. After installation is complete, a icon called USB149A will appear on your desktop. This icon is a shortcut to the application program.
5. Repeat steps 1 through 4 for the other computer.

### 3.3 Running the Application Program

Follow these steps to run the USB ↔ USB Data Transfer cable application program.

1. Plug one end of the cable to into each of the two computers.
2. Double-click on the USB149A icon on your desktop screen. Do the same for the other computer.
3. The application program File Manager will appear on your screen and will detect both the local and the remote machine. The program is similar to the Windows Explorer file manager: you can cut, copy, paste, or drag files and folders.

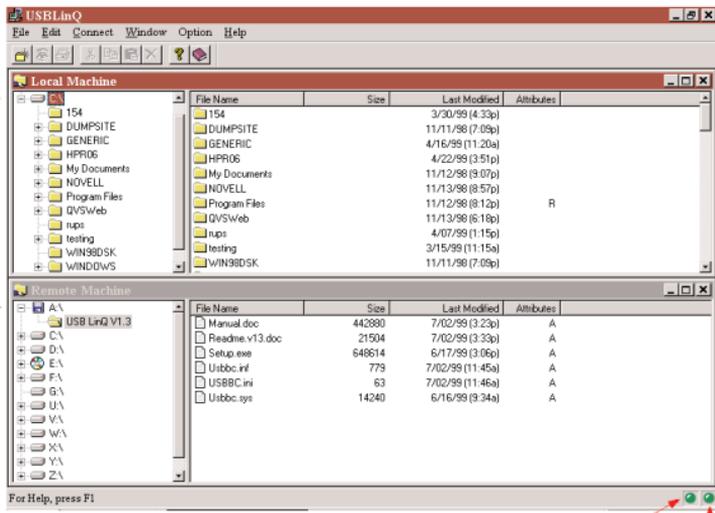


Figure 1. File Manager screen.

4. You can also print text or document files from the remote machine to your local printer by clicking on the file and running the File→Print command.
5. Two LED-like indicators on the bottom-right corner of the File Manager show the connection status of the remote and local PC. The left LED is for the local PC, and the right LED is for the remote PC. A green LED indicates that the connection is good; a red LED indicates that a connection has not been found. Both LEDs must be green for a proper link and operation. If one LED is red, either the USB Data Transfer cable is not properly connected, or the software is not properly installed, or the PC is in suspend mode.
6. Click on the **Help Topics** icon (rightmost icon) for more information on how to use the program.

## 4. Operation

### 4.1 Power Management and Remote Wake-up Function

The USB ↔ USB Data Transfer cable supports power management of USB. When either of the two connected PCs goes into suspend mode, the cable will draw less than 500  $\mu\text{A}$  of current from it. This is essential for a notebook or other mobile PC.

The application program also includes the remote wake-up function. Whenever the remote machine goes into suspend mode, you just click on any file or folder inside the remote machine's directory and the remote machine will resume normal operating mode.

However, you can disable this function to avoid suspend-wakeup sequence while operating the application. Click the **Option** menu, then click **Setting**, and disable the **Allow System to Suspend** option.

### 4.2 Program Un-installation

You can un-install the application program and driver by selecting the **Uninstall USB149A** from the USB149A program group and follow the on-screen instructions to complete the process.



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