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June 2010
IC400A

4-Port USB 2.0 CAT5 Extender with Remote Power

Break the 16-foot (5-m) USB distance barrier. This local transmitter/remote receiver pair extends USB up to 328 feet (100 meters) from a computer over CAT5 cabling.



Customer Support Information

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500)
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

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Federal Communications Commission and Industry Canada Radio Frequency Interference Statements

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 remote unit.
- Connect the equipment into an outlet on a circuit different from that to which the remote unit 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.

CE Statement

We declare under our sole responsibility that the 4-port USB 2.0 CAT5 Extender conforms with European Standard EMC EN-55022:2006+A1:2007 Class B, EN 61000-3-2:2006, EN 61000-3-3:2003, and EN 55024:1998+A2:2003.

IC Statement

This Class B digital apparatus complies with Canadian ICES-003.

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Instrucciones de Seguridad
(Normas Oficiales Mexicanas Electrical Safety Statement)

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser connectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra fisica y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las lineas de energia.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objectos liquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
    - A: El cable de poder o el contacto ha sido dañado; u
    - B: Objectos han caído o líquido ha sido derramado dentro del aparato; o
    - C: El aparato ha sido expuesto a la lluvia; o
    - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
    - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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or go to **blackbox.com** and click on "Talk to Black Box."
You'll be live with one of our technical experts in less than 20 seconds.

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Table of Contents

1. Specifications 6

2. Overview 7
   - 2.1 Introduction 7
   - 2.2 What's Included 7
   - 2.3 You Will Also Need 7
   - 2.4 Hardware Description 7
     - 2.4.1 Local unit Front and Back Panels 7
     - 2.4.2 Remote unit Front and Back Panels 9
   - 2.5 Typical Application 10

3. Installation 11
   - 3.1 Installing the Local unit 11
   - 3.2 Installing the Remote unit 11
   - 3.3 Connecting the Local unit to the Remote unit 11
   - 3.4 Checking the Installation 11
   - 3.5 Connecting a USB Device 12

4. Troubleshooting 13
   - 4.1 Problems/Causes/Solutions 13
   - 4.2 Contacting Black Box 15
   - 4.3 Shipping and Packaging 15

5. Technical Glossary 16

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1. Specifications

Compliance: Regulatory testing: FCC Class B, IC Class B, CE Class B;
ESD rating: EMC EN-6100-4-2 8 kV contact, 16kV air

Distance: 328 feet (100 m) over CAT5e (or better) cable

Maximum USB Devices Supported: 14 USB devices or 3 USB hubs with 11 USB devices

USB Device Support: High-speed devices (480 Mbps, USB 2.0);
Full-speed devices (12 Mbps, USB 2.0 and 1.1);
Low-speed devices (1.5 Mbps, USB 2.0 and 1.1)

USB Host Support: EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)

USB Hub Support: Any single chain can include up to 3 USB hubs plus one extender

Connectors: Local unit: (1) USB Type B, (1) RJ-45;
Remote unit: (4) USB Type A, (1) RJ-45

Temperature Tolerance: Operating: 32 to 122° F (0 to 50° C);
Storage: -4 to 158° F (-20 to +70° C)

Humidity Tolerance: Operating: 20 to 80% relative humidity, non-condensing;
Storage: 10 to 90% relative humidity, non-condensing

Power: Input: 100/240 VAC, 50–60 Hz, 600 mA maximum;
Output: 5 VDC, 3 A;
AC adapter connector: 1.7-mm center positive jack
Power available to USB device at remote unit: 500 mA each port;
Power consumption: Local unit: 500 mA maximum,
Remote unit: Approximately 500 mA (no load), 2.5 A (full load)

Size: Each unit: 3.9"H x 3"W x 1"D (10 x 7.6 x 2.6 cm)

System Shipping Weight: 2 lb. (0.9 kg)

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2. Overview

2.1 Introduction

The 4-Port CAT5 USB 2.0 Extender enables you to extend beyond the standard 16-foot (5-m) cable limit for USB peripheral devices. Using the extender, you can place USB devices up to 328 feet (100 meters) from the computer. The extender is composed of two individual units: the local unit and the remote unit.

2.2 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

- (1) local unit
- (1) remote unit
- (1) AC power adapter for remote unit
- (1) 6-foot (1.8-m) USB 2.0 cable
- (1) Quick Start Guide
- (1) CD-ROM containing this user's manual

2.3 You Will Also Need

To complete the installation, you will also require the following items that are not included with the extender:

- USB 1.1 or 2.0 compatible computer (host computer) with a USB compliant operating system
- USB 1.1 or 2.0 compatible device
- CAT5/5e/6 or better unshielded twisted pair (UTP) cable with two RJ-45 connectors (if using surface cabling) or CAT5/5e/6 or better cabling with two information outlets and two CAT5 patch cords with RJ-45 connectors (if using premise cabling)

2.4 Hardware Description

The local unit connects to the computer using a standard USB cable. The USB interface on the host computer provides power for the local unit.

The remote unit provides USB Type A ports for standard USB devices. It allows you to connect up to four USB devices directly. You can connect additional devices by attaching USB hubs to the remote unit. The remote unit is powered by an external AC adapter and can supply up to 500 mA to each USB port.

2.4.1 Local unit Front and Back Panels

Figure 2-1 shows the local unit's front panel. Figure 2-2 shows the local unit's back panel. Table 2-1 describes its components.

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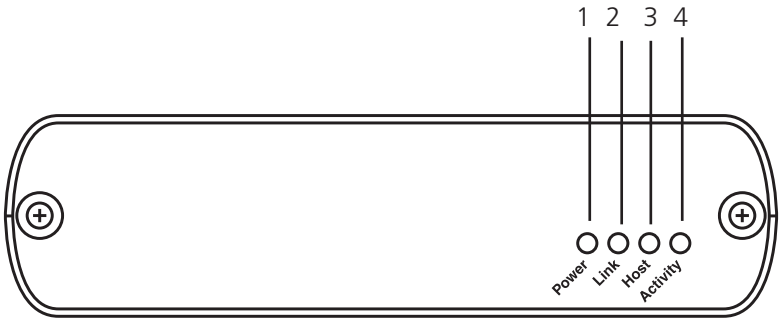


Figure 2-1. Front panel of the local unit.

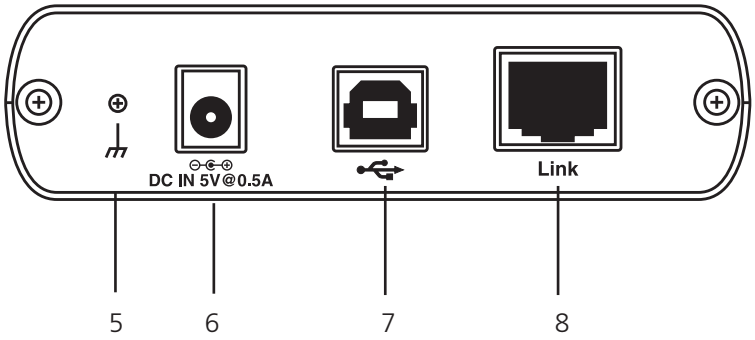


Figure 2-2. Back panel of the local unit.

Table 2-1. Local unit's front- and back-panel components.

Number	Component	Description
1	Power LED (blue)	LED lights when power is supplied. LED is off when no power is supplied.
2	Link LED (green)	LED lights when a link is established between the local unit and the remote unit over the CAT5 cable.
3	Host LED (green)	LED lights when the extender system is properly enumerated on the host PC.
4	Activity LED (amber)	LED lights when data is transmitted between the local unit and remote unit. The LED blinks intermittently with or without a USB device connected. The LED is off when the local unit and remote unit are in suspend mode.
5	Earth ground	Optional earth ground connection to housing of unit. Accepts an M2 type screw.
6	Power port (optional)	Not required in normal operation. An optional 5 V power supply can be connected to the local unit to provide power if the USB port on the host PC is not capable of delivering 500 mA to the unit.
7	USB Type B connector	Connects the local unit to the host computer.
8	Link port (RJ-45)	Accepts RJ-45 connector for CAT5 cabling (or better).

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2.4.2 Remote unit Front and Back Panels

Figure 2-3 shows the remote unit's front panel. Figure 2-4 shows the remote unit's back panel. Table 2-2 describes its components.

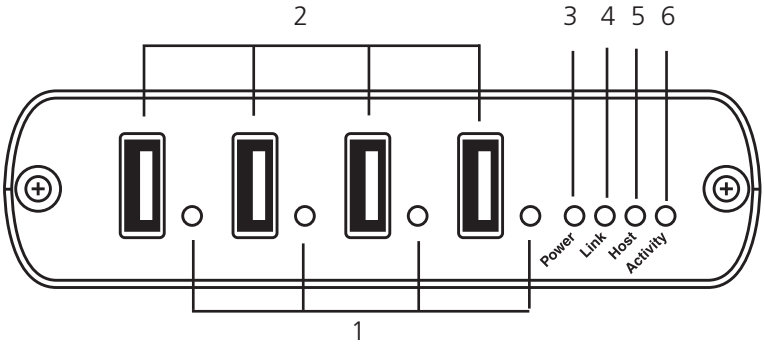


Figure 2-3. Front panel of the remote unit.

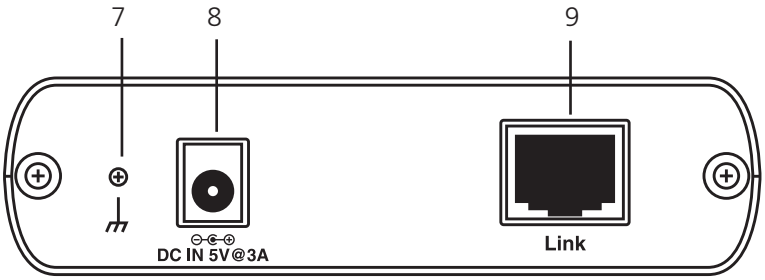


Figure 2-4. Back panel of the remote unit.

Table 2-2. Remote unit's front- and back-panel components.

Number	Component	Description
1	Device port (USB Type A)	Accepts USB device(s).
2	Device LED (green/orange)	Indicates when a USB device is connected to the device port. Solid green when device is plugged in and active. Off when device is in suspend mode or remote unit is powered off. Orange when the remote unit detects an over-current condition, and the attached USB device attempts to draw more than the 500 mA current.
3	Power LED (blue)	LED turns on when power is supplied. Off when no power is supplied.
4	Link LED (green)	Indicates a valid USB link is established between the local unit and remote unit over CAT5 cabling. LED turns on when link between local unit and remote unit is established. LED turns off when there is no link between the local unit and remote unit.
5	Host LED (green)	Indicates that the extender system is properly enumerated on the host PC. LED blinks when in suspend state.
6	Activity LED (amber)	Indicates activity when data transmission is active between the local unit and the remote unit. LED blinks intermittently with or without a USB device attached. When the local unit and remote unit are in suspend mode, the LED is off.

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Table 2-2 (Continued). Remote unit's front-and back-panel components.

Number	Component	Description
7	Earth ground	Optional earth ground connection to unit's housing. Accepts an M2 type screw.
8	Power port	Connects to the AC power supply. Required at the remote unit for proper operation.
9	Link port (RJ-45)	Accepts RJ-45 connector for CAT5 (or better) cabling.

2.5 Typical Application

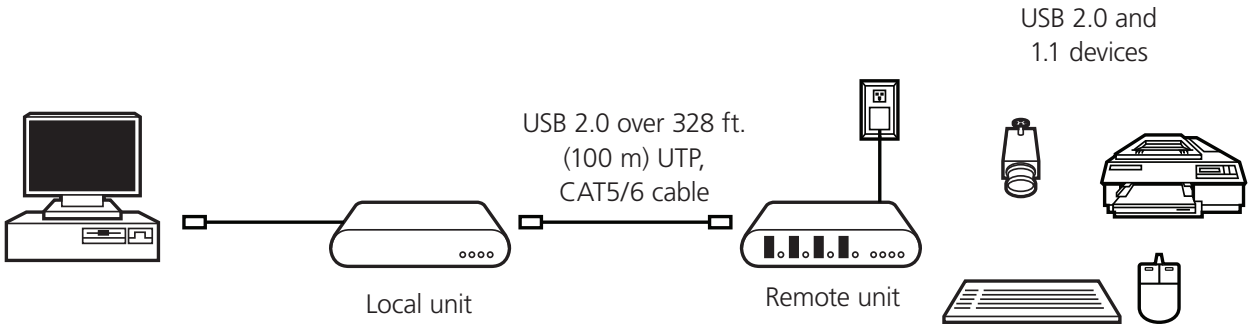


Figure 2-5. Application.

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3. Installation

Before you can install the CAT5 USB 2.0 Extender, you need to prepare your site:

1. Determine where you want to locate the computer and set up the computer.

2. Determine where you want to locate the USB device(s).

3. If you are using surface cabling, the extender supports a maximum distance of 328 feet (100 m).

If you are using premise cabling, make sure that CAT5 cabling is installed between the two locations, with CAT5 information outlets located near both the computer and the USB device(s), and the total length, including patch cords, is no more than 328 feet (100 m).

3.1 Installing the Local unit

1. Place the local unit near the computer.

2. Install the supplied USB cable between the local unit and USB port on the host computer.

3.2 Installing the Remote unit

1. Place the remote unit near the USB device(s) in the desired remote location.

2. Plug the power adapter into a suitable AC outlet.

3. Connect the power adapter to the remote unit.

3.3 Connecting the Local unit to the Remote unit

For proper operation, we recommend that you use only CAT5 cable or better unshielded twisted-pair (UTP) cabling to connect the local unit to the remote unit. The cabling must have a straight-through conductor configuration with no crossovers and must be terminated with 8 conductor RJ-45 connectors at both ends. The combined length of any patch cords using stranded conductors must not exceed 32.8 feet (10 m).

With Surface Cabling:

1. Plug one end of the CAT5 cabling (not included) into the Link port (RJ-45) on the local unit.

2. Plug the other end of the CAT5 cabling into the Link port (RJ-45) on the remote unit.

With Premise Cabling:

1. Plug one end of a CAT5 patch cord (not included) into the Link port (RJ-45) on the local unit.

2. Plug the other end of the patch cord into the CAT5 information outlet near the host computer.

3. Plug one end of the 2nd CAT5 patch cord (not included) into the Link port (RJ-45) on the remote unit.

4. Plug the other end of the 2nd patch cord into the CAT5 information outlet near the USB device.

3.4 Checking the Installation

1. On the local unit and remote unit, check that the Power, Host, and Link LEDs are on and that the Activity LED is blinking. If the Link LED is permanently off, then the cabling between the local unit and remote unit is not installed properly or is defective.

2. For Windows users (2000, XP, Vista, Windows 7), open Device Manager to confirm that the CAT5 USB 2.0 Extender has installed correctly. Expand the entry for Universal Serial Bus controllers by clicking the + sign. If the extender has been installed correctly, you should find it listed as a "Generic USB Hub."

3. For Mac OS X users, open the System Profiler to confirm that the extender has installed correctly. In the left-hand column under Hardware, select "USB" and inspect the right-hand panel. If the extender has been installed correctly, you should find it listed as a "Hub" under the USB High-Speed Bus/USB Bus.

4. If the extender is not detected correctly or fails to detect, go to Chapter 4, Troubleshooting.

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NOTES:

To open System Profiler in OS X:

Open the Finder, select Applications, then open the Utilities folder and double-click on the System Profiler icon.

To open Device Manager in Windows 2000 or XP:

Right-click "My Computer" then select: Properties >> Hardware tab >> Device Manager.

To open Device Manager in Windows Vista or Windows 7:

Open the Start menu, right-click on Computer, then select Manage>> Device Manager.

3.5 Connecting a USB Device

1. Install any software required to operate the USB device(s). Refer to the documentation for the USB device(s), as required.

2. Connect the USB device to the device port on the remote unit.

3. Check that the device is detected and installed properly in the operating system.

Compatibility

The extender complies with USB 1.1 and USB 2.0 specifications governing the design of USB devices. However, we do not guarantee that all USB devices are compatible with the extender, because there are a number of different configurations that may impact the operation of USB devices over extended distances.

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4. Troubleshooting

4.1 Problems/Causes/Solutions

Table 4-1. Problems/Causes/Solutions.

Problem	Cause	Solution
All LEDs on the local unit are off.	The local unit is not receiving enough power from the USB port or the (optional) local unit AC adapter.	1. Make sure that the USB connection between the local unit and host computer is properly installed. 2. Move the USB connector to another USB port on the host computer.
All LEDs on the remote unit unit are off.	The remote unit is not receiving power from the AC adapter.	1. Make sure that the AC power adapter is properly connected to the remote unit. 2. Check that the AC adapter is connected to a live source of electrical power. Check that the remote unit power LED is lit.
Link LEDs on the local unit and remote unit are off.	There is no connection between the local unit and the remote unit.	1. Make sure that CAT5 cable is connected between the local unit and the remote unit. CAT5 or better UTP with a straight-through connector and no crossovers, and 8-pin RJ-45 connectors are used at both ends. 2. If the CAT5 cable is defective, connect a short CAT5 patch cord between the local unit and the remote unit to determine if the original CAT5 cable is defective.
Link LED on the local unit is on, Host LED on the local unit is off.	1. The host computer is not powered on. 2. The remote unit is not connected to the computer (when used with the optional local unit AC adapter). 3. The computer does not support USB hubs. 4. The extender is malfunctioning.	1. Disconnect all USB devices from the remote unit. 2. Disconnect the local unit from the computer. 3. Disconnect the remote unit from the AC power adapter. 4. Reconnect the local unit to the computer. 5. Reconnect the remote unit to the AC power adapter. 6. In the Universal Serial Bus Controllers section of Device Manager, check that the extender is recognized as a "Generic USB Hub."
The extender units were working, but the host LED on the local/remote units are suddenly blinking.	The remote unit is in suspend mode. The operating system may put the extender in suspend mode when the computer is put into a suspend/standby state or when no USB devices are attached.	1. Recover/resume the operating system from suspend/standby mode (see your operating system's documentation). 2. Attach a USB device to the extender.

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Table 4-1 (Continued). Problems/Causes/Solutions.

Problem	Cause	Solution
All LEDs on both the local unit and the remote unit are on, but the USB device does not operate correctly or is detected as an "Unknown Device" in the operating system.	1. The USB device is malfunctioning. 2. The computer does not recognize the USB device. 3. The application software for the device is not operating. 4. The extender is malfunctioning.	1. Disconnect the extender from the computer. 2. Connect the USB device directly to the USB port on the computer. 3. If the device does not operate properly, consult the user documentation for the device. 4. Update your system BIOS, chipset, or USB host controller drivers from your system/motherboard manufacturer's drivers from your system/motherboard manufacturer's Web site. 5. If the device operates properly when directly connected to a computer, connect another device (of a different type) to the extender. Connect the extender to the computer. 6. If the second device does not operate, the extender may be malfunctioning. Contact Black Box Technical Support at 724-746-5500 or info@blackbox.com for assistance. 7. If the second device does not operate properly, the first device may not be compatible with the extender.
A USB device is attached to the remote unit USB port, but the remote unit device LED is off.	A USB device must have the appropriate driver installed on the computer operating system.	1. Install the required USB device driver on the computer operating system before attaching the USB device to the remote unit. See your USB device manufacturer's Web site for details. 2. Consult your USB device documentation and power your USB device with the additional, USB device manufacturer supplied, power supply (if available).
Device LED is orange and units are no longer functioning.	Overcurrent condition has occurred because USB device draws more power than can be supplied per USB specification (500 mA).	Power cycle the remote unit.
LED Host and LINK LEDs on local/remote units blink intermittently.	Firmware mismatch between the local unit and the remote unit.	1. Use a different local unit and remote unit that have the same firmware revision. 2. Upgrade the local unit/remote unit firmware. Contact Black Box Technical Support at 724-746-5500 or info@blackbox.com for assistance.

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4.2 Contacting Black Box

If you determine that your 4-Port USB 2.0 CAT5 Extender is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

4.3 Shipping and Packaging

If you need to transport or ship your 4-Port USB 2.0 CAT5 Extender:

- Package it carefully. We recommend that you use the original container.
- If you are returning the unit, make sure you include everything you received with it. Before you ship for return or repair, contact Black Box to get a Return Authorization (RA) number.

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5. Technical Glossary

Category 5 (CAT5) Network Cabling: Category 5 cable is commonly also referred to as CAT5. This cabling is available in either solid or stranded twisted pair copper wire and as UTP (Unshielded Twisted Pair) or STP (Shielded Twisted Pair). UTP cables are not surrounded by any shielding, making them more susceptible to electromagnetic interference (EMI). STP cables include shielding over each individual pair of copper wires and provide better protection against EMI. Category 5 has been superseded by CAT5e cabling, which includes improved data integrity to support high-speed communications.

USB Cables: USB cables have two distinct connectors. The Type A connector is used to connect the cable from a USB device to the Type A port on a computer or hub. The Type B connector is used to attach the USB cable to a USB device.

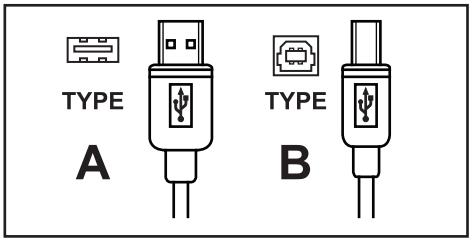


Figure 5-1. USB Type A and Type B cable connectors.

RJ-45: The Registered Jack (RJ) physical interface is what connects the network cabling (CAT5) to the local unit and the remote unit. You may use either the T568A scheme (see Table 5-1 and Figure 5-2) or the T568B scheme (see Table 5-2 and Figure 5-3) for cable termination. RJ-45 connectors are sometimes also referred to as 8P8C connectors.

RJ45 Pin Positioning:

Table 5-1. T568A wiring.

Pin	Pair	Wire	Cable Color
1	3	1	White/Green
2	3	2	Green
3	2	1	White/Orange
4	1	2	Blue
5	1	1	White/Blue
6	2	2	Orange
7	4	1	White/Brown
8	4	2	Brown

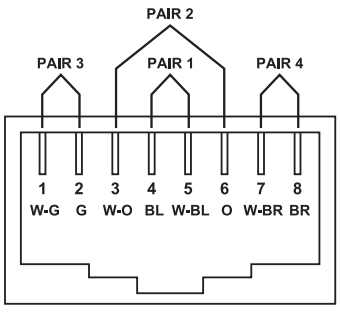


Figure 5-2. T568A wiring.

Table 5-2. TS568B wiring.

Pin	Pair	Wire	Cable Color
1	2	1	White/Orange
2	2	2	Orange
3	3	1	White/Green
4	1	2	Blue
5	1	1	White/Blue
6	3	2	Green
7	4	1	White/Brown
8	4	2	Brown

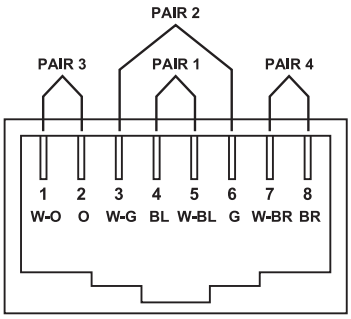


Figure 5-3. T568B wiring.

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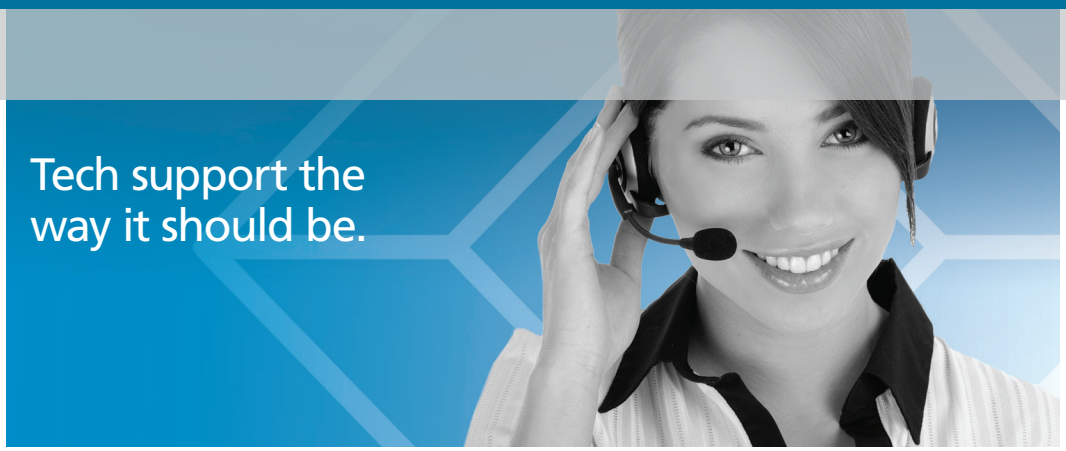
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