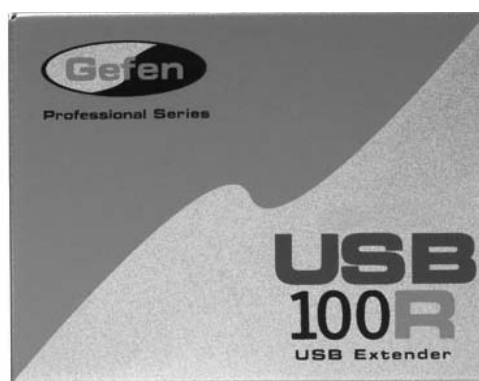
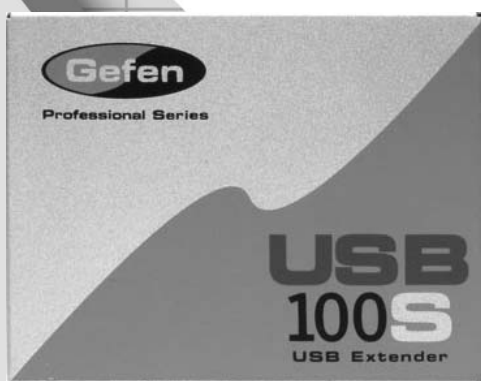


Gefen

®

USB•100

USER MANUAL



www.gefen.com

ASKING FOR ASSISTANCE

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Notice

Gefen, LLC reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

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TABLE OF CONTENTS

- 1** Introduction
- 2** Operation Notes
- 3** USB•100 Installation
- 4** USB•100 Panel Layout
- 5** USB•100 Function Description
- 6** USB•100 System Wiring Diagram
- 7** Link Cable - Wiring Diagram
- 8** Operational Checklist
- 9** Troubleshooting Hints
- 10** Warranty

INTRODUCTION

Thank you for purchasing the Gefen USB•100 Series. The USB•100 incorporates ExtremeUSB™ technology, which allows users the benefits of USB technology extended far beyond the desktop at remote locations. Extending your USB peripherals up to 330 feet away from the location of your office computer is done easily with the USB•100.

The USB•100 system consists of two units. The USB•100S Sender resides next to the host computer, and the USB•100R Receiver is linked to the Sender via Category-5 (CAT-5) cable and resides at the desired location of the USB accessory device away from the computer.

You can connect additional USB•100 systems to the same computer, allowing you to connect multiple USB peripherals at remote locations up to 330 feet away from the host computer.

OPERATION NOTES

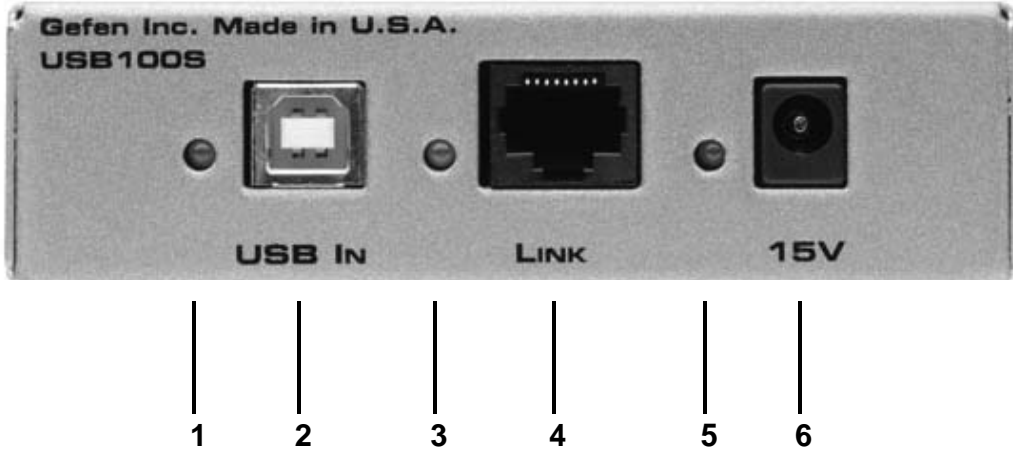
READ THESE NOTES BEFORE INSTALLING OR OPERATING THE USB•100 SYSTEM.

- * The USB•100 Sender and Receiver units were designed to operate on USB-enabled computers. **DO NOT** attempt to use this equipment with any other type of computer.
- * Use the computer's USB port when using a local keyboard that is not extended with the USB•100 Sender unit.
- * In order to operate properly, the USB•100 Receiver unit must be connected, powered, and the CAT-5 cable must be installed between the Sender and Receiver units.
- * Only dedicated Category 5 UTP type cable (CAT-5) is recommended for this application (pin to pin compatible).
- * The length of cable used to connect the USB•100S Sender unit to the USB•100R Receiver unit **MUST NOT EXCEED** 330 feet.

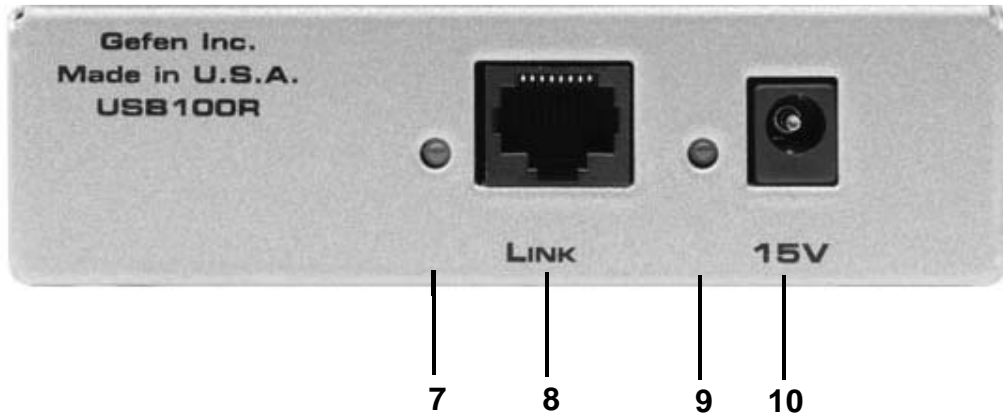
USB•100 INSTALLATION

1. Place the USB•100R Receiver unit close to the USB devices at the remote end.
2. Connect the USB device to the USB•100R Receiver unit.
3. Connect the AC power adapter to an available wall outlet.
4. Connect the power adapter to the USB•100R Receiver unit using the supplied cable.
5. Place the USB•100S Sender unit close to the host computer.
6. Connect the USB•100S Sender unit to the USB•100R Receiver unit using the desired length of CAT5 cable.
7. Connect the USB•100S Sender unit to the host computer using the USB cable supplied with the unit. **This connection should be made last.**

USB•100S Facing Computer



USB•100R Facing CAT5 Link



USB•100R Facing USB Peripheral(s)

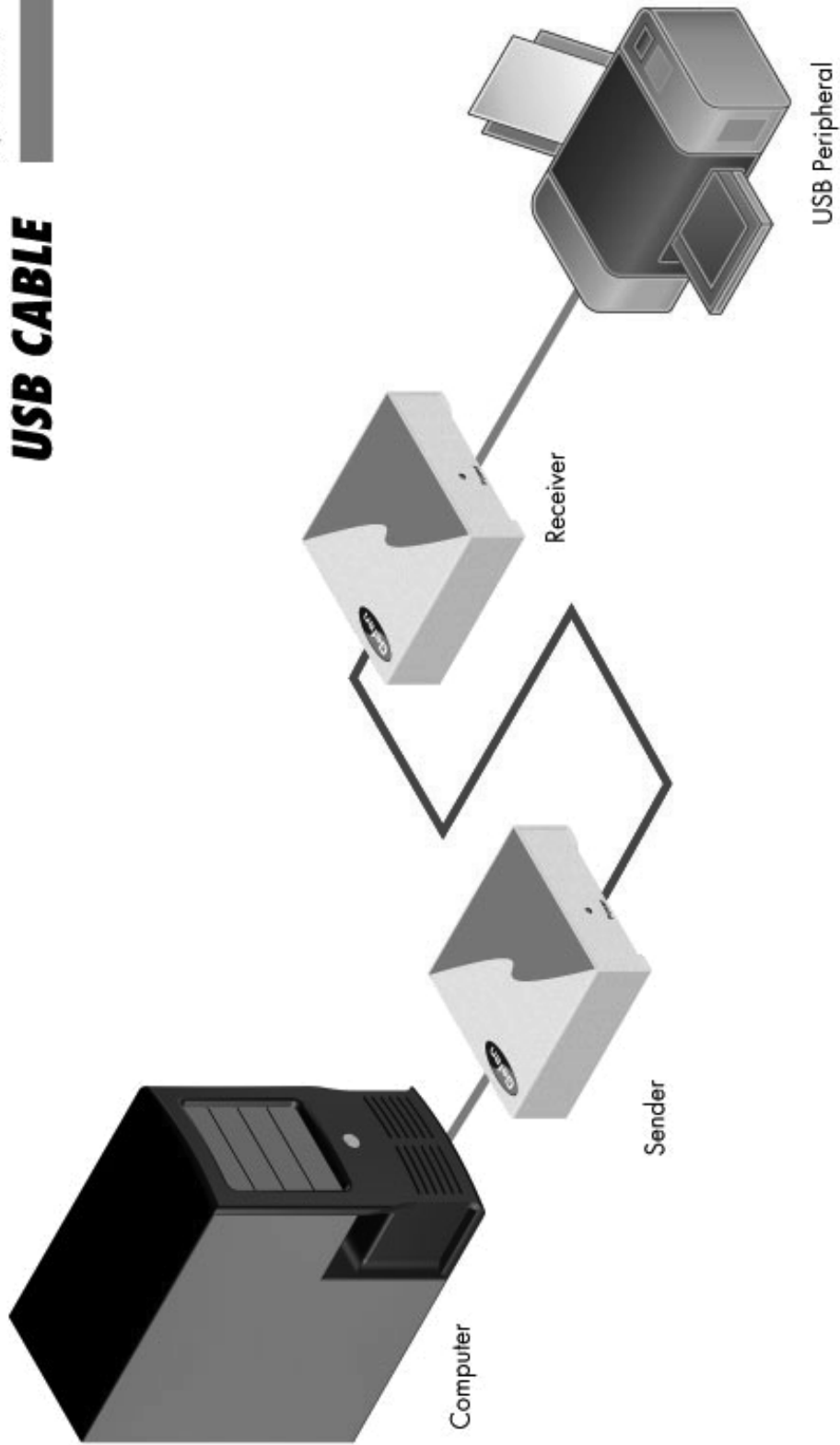


USB•100 FUNCTION DESCRIPTION

- 1 **USB LED** - Indicates if a USB connection is made properly
- 2 **USB In** - Attach USB cable (A-B) cable from computer to Sender unit here.
- 3 **Link LED** - Indicates a link between the USB•100S Sender and the USB•100R Receiver units across the CAT5 extension cable.
- 4 **Link Connector** - CAT-5 Modular Jack (RJ-45) which connects to CAT5 cable linking the USB•100S Sender and the USB•100R Receiver units
- 5 **Power LED** - Indicates the unit is plugged in and powered up properly.
- 6 **15V DC Power Input Jack (Sender)** - Used with an optionally purchased 15V DC power supply when the host computer does not provide sufficient power on the USB bus.
- 7 **Link LED** - Indicates a link between the USB•100S Sender unit and the USB•100R Receiver unit across the CAT5 extension cable.
- 8 **Link Connector** - CAT-5 Modular Jack (RJ-45) which connects to CAT5 cable linking the USB•100S Sender and the USB•100R Receiver units
- 9 **Power LED** - Indicates the unit is plugged in and powered up properly.
- 10 **15V DC Power Input Jack (Receiver)** - Power jack for the included 15V DC Wall-mount power supply.
- 11 **USB LED** - Indicates if a USB device is plugged in and seen by the host computer
- 12 **USB Out** - One USB A type connector for attaching the extended USB Peripheral.



CAT5E CABLE
USB CABLE



EXT-USB-100

LINK CABLE - WIRING DIAGRAM

RJ-45 Jack



White/Orange

Orange

White/Green

Blue

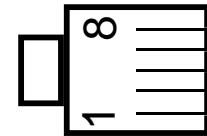
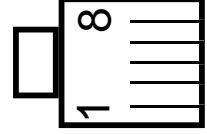
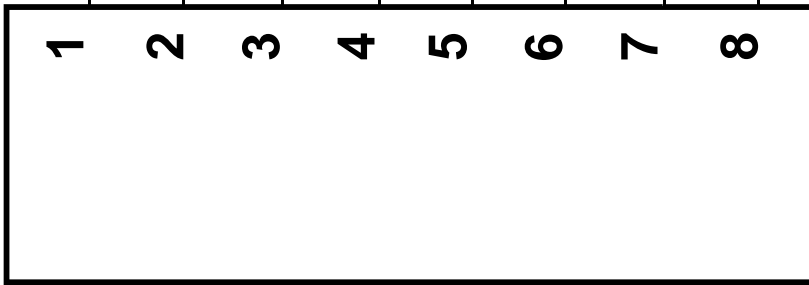
White/Blue

Green

White/Brown

Brown

RJ-45 Jack



OPERATIONAL CHECKLIST

1. On the USB•100S Sender unit, check that the power indicator is GREEN.
2. On the USB•100S Sender unit, check that the link indicator is GREEN.
3. On the USB•100R Receiver unit, check that the power indicator is GREEN.

4. Once all LEDs are illuminated as suggested, the USB•100 is ready to accept a USB peripheral device at the USB port on the USB•100R Receiver unit. Follow the installation instructions as if one were installing the device directly into a computer's USB port.

5. On the host computer, check that a general purpose USB hub is visible in the Control Panel. Once connected, a USB peripheral device causes its host computer to automatically enumerate it. This simply means that the computer must identify the new device, assign it an ID, and ensure that the required software drivers are available for loading when the device is to be used.

6. The USB•100 is not an endpoint device. Consequently, it does not have a software component or driver to be loaded. Some peripheral devices that are to be attached to the USB•100 will have a USB Driver diskette or CD-ROM which will need to be inserted after initial connection to a USB port on the USB•100.

TROUBLESHOOTING HINTS

Power Indicator is not lit.

-- Make certain the power supply unit is properly connected to the USB•100R unit and to a proper local power supply outlet.

Link Indicators are Green

-- Make certain that the host computer is operating and responding to commands. If required, reset the computer.

Connection Problem is Not Resolved

-- Disconnect power (DC Adaptor) plug from wall outlet feeding power to the USB•100R unit.

-- Disconnect the USB•100S Sender from the computer.

-- Reconnect power (DC Adaptor) from the USB•100R unit to the wall outlet.

-- Reconnect the USB•100S Sender to the computer.

-- If problems persist, your computer may have an underpowered USB bus. Try using a powered hub before the Sender unit or buy the optional second 15V power supply from Gefen. Please contact Gefen Technical Support for more details.

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty web page at <http://www.gefen.com/kvm/aboutus/warranty.jsp>

PRODUCT REGISTRATION

Please register your product online by visiting Gefen's web site at <http://www.gefen.com/kvm/Registry/Registration.jsp>

MA-usb-100

Rev X4

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