

# Gefen

®

## Mini USB-2 Extender

EXT-USB-MINI2N

USER MANUAL



[www.gefen.com](http://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.

**Mini USB-2 Extender** is a trademark of Gefen LLC

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**Rev A1**

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# INTRODUCTION

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Congratulations on your purchase of the Mini USB-2 Extender. Your complete satisfaction is very important to us.

## **Gefen**

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

## **The Gefen Mini USB-2 Extender**

The Gefen Mini USB-2 Extender allows the extension of any USB 1.1 device up to 150 feet (45 meters). The Receiver comes with a 2-port USB HUB. This extender exceeds the 16-foot distance limitation of USB extension by using Extreme USB technology to extend USB up to 150 feet (45 meters) away from the computer. This solution is ideal for applications where two USB devices, such as a keyboard and mouse, must be operated remotely but is also useful with most other USB-based devices.

## **How It Works**

Connect the Sender unit to the USB source using the included USB cable. Place the Receiver unit up to 150 feet (45 meters) away from the USB source. Use a single CAT-5e cable to connect the Sender unit to the Receiver unit. Connect up to two USB devices to the Receiver unit.

## OPERATION NOTES

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### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE MINI USB-2 EXTENDER

- CAT-5e or CAT-6a cables should not exceed 150 feet (45 meters).
- Shielded (STP) CAT-5e or CAT-6a is recommended. However, un-shielded (UTP) CAT-5e or CAT-6a is acceptable.



**NOTE:** The shielded cable has an advantage by providing immunity to Electromagnetic Interference (EMI), cell phones and A/C motors.

- The Sender and Receiver unit are powered by the source.

# FEATURES

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## Features

- Extends any USB 1.1 device up to 150 feet (45 meters) using CAT-5 cable
- Provides support for any full-speed 12 Mb/s or low-speed 1.5Mb/s USB device
- Provides two USB outputs
- Supports Windows XP, Windows Vista, Windows 7, Linux, and Mac OSX operating systems
- Requires no external power adapter, powered by the USB bus

## Package Includes

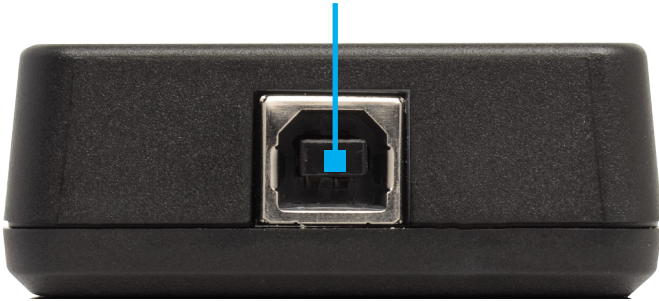
- (1) Mini USB-2 Extender - Sender Unit
- (1) Mini USB-2 Extender - Receiver Unit
- (1) 6 ft. USB Cable (A - B)
- (1) Quick-Start Guide

## SENDER UNIT LAYOUT

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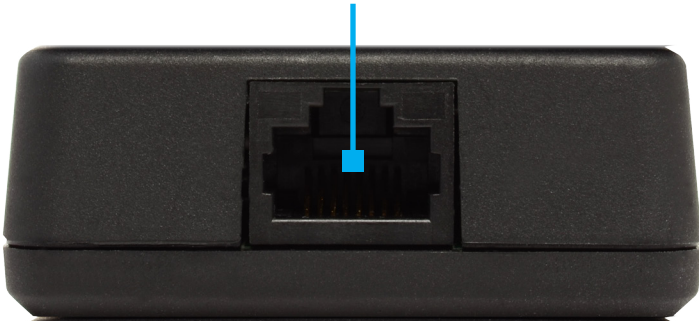
*Front*

1



*Back*

2





## SENDER UNIT DESCRIPTIONS

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**1 USB Input**

Connect the USB source to this port using the supplied USB cable

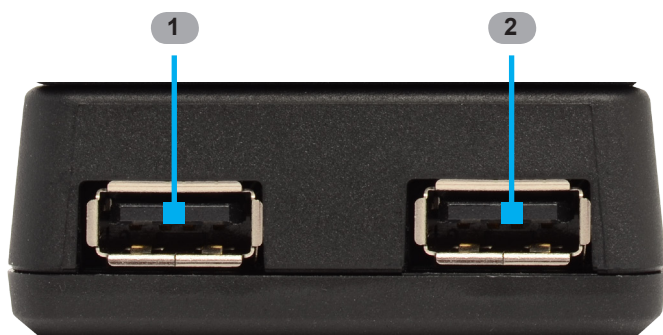
**2 CAT-5**

Connects the Sender to the Receiver unit using a CAT-5e cable

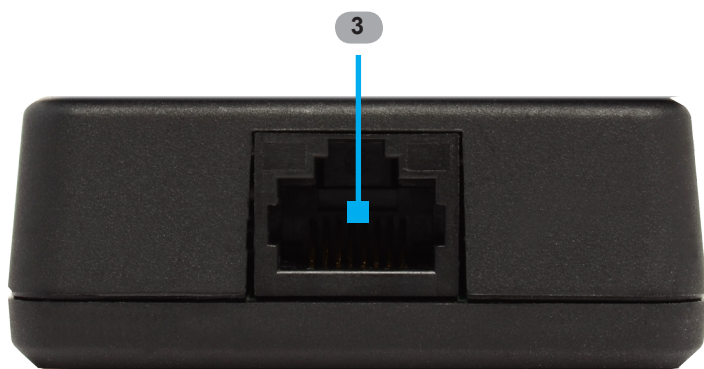
## RECEIVER UNIT LAYOUT

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*Front*



*Back*



## RECEIVER PANEL DESCRIPTIONS

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**1 USB Output**

Connects a USB device (i.e mouse, keyboard, hub)

**2 USB Output**

Connects a USB device (i.e mouse, keyboard, hub)

**3 CAT-5**

Connects the Sender to the Receiver unit using a CAT-5e cable

# CONNECTING AND OPERATING THE MINI USB-2 EXTENDER

## How to Connect the Mini USB-2 Extender

1. Using the included USB cable, connect the source to the USB input port on the Sender unit.
2. Connect a CAT-5e cable from the Sender to the Receiver unit up to 150 feet (45 meters) away.

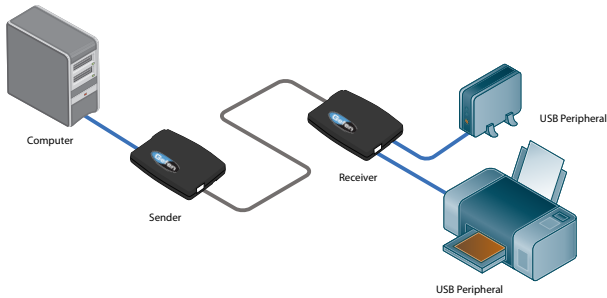


**NOTE:** If terminating network cables in the field, please adhere to the TIA/EIA568B specification (see page 9).

3. Up to two USB devices can be connected to the USB outputs on the Receiver unit.



**CAT5 CABLE**   
**USB CABLE** 

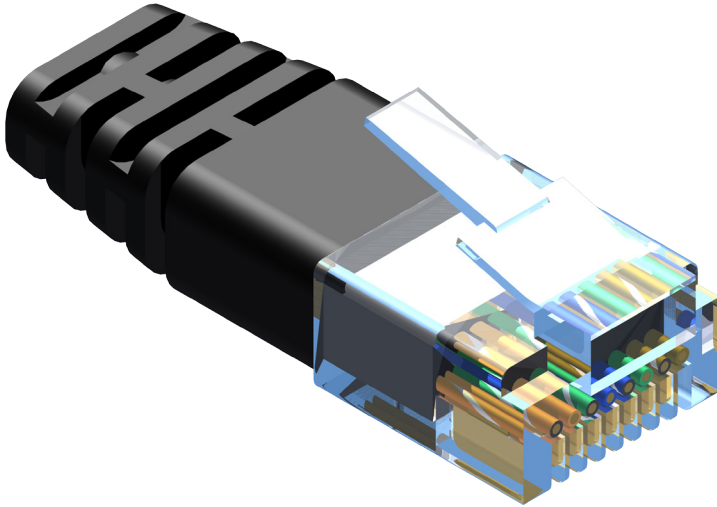


**EXT-USB-MINI2N**



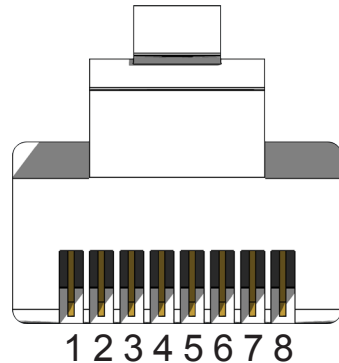
**IMPORTANT:** This product cannot be disposed of in the general trash. Please contact your solid waste local authority.

## NETWORK CABLE WIRING DIAGRAM



Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

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



CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling.

Each cable run must be one continuous run from one end to the other. No splices or use of punch down blocks.

## SPECIFICATIONS

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USB Connector (Sender).....	(1) USB Type B, female
USB Connector (Receiver).....	(2) USB Type A, female
Link Connectors (Sender/Receiver).....	(1) RJ-45
USB Current Output.....	Up to 400mA per USB device (as long as the host can provide 800mA or more)
Operating Temperature.....	+32 to +122 °F (0 to +50 °C)
Dimensions (W x H x D) (Sender/Receiver).....	3.5" x 0.9" x 2.2" (85mm x 22mm x 55mm)
Shipping Weight.....	1 lb (0.45 kg)

## WARRANTY

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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, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at [www.gefen.com](http://www.gefen.com).

## PRODUCT REGISTRATION

**Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.**









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