



USB 2.0 Extender Over Ethernet

Model 202159



Supports up to 164ft via CAT 5e/6 cable

User Manual

Download the user manual at:

www.cablematters.com/dl/202159

support@cablematters.com

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1. INTRODUCTION

1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of the

USB 2.0 Extender over Ethernet

Supports up to 164ft via CAT 5e/6 cable

Please read these instructions carefully before connecting, operating or configuring this product. Please keep this manual for future reference.

Contact support@cablematters.com for questions or product support.

1.2 Copyright and Trademarks

Cable Matters is a registered trademark or trademark of Cable Matters Inc. All rights reserved. All other trademarks are the property of their respective owners.

Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

1.3 FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device must not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

2. PRODUCT OVERVIEW

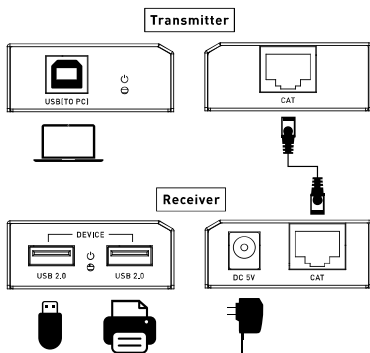
2.1 Package Contents

Please check that the following items are contained in the package:

- 1x USB 2.0 Extender (Transmitter)
- 1x USB 2.0 Extender (Receiver)
- 1x USB cable (USB2.0 A to B male to male cable, 1m)
- 1x 5V/1A Power Adapter
- 1x User Manual

2.2 Product Description

The Cable Matters USB 2.0 Extender extends USB signals up to 50 meters (164ft) through Cat 5e/6 cable. On Transmitter side, utilize the USB-B port to connect to a computer's USB-A port. On Receiver side, discover two USB 2.0 ports for connecting various USB devices. Additionally, 5V/1A power adapter is required to connect to the Receiver. This product facilitates long-distance signal transmission between a PC and USB devices. The extender is universally compatible with Windows, Mac OS X, Chrome OS, and Linux operating systems. Enjoy a straightforward experience with its simple plug-and-play design—no drivers or additional settings installation required.



2.3 Product Features

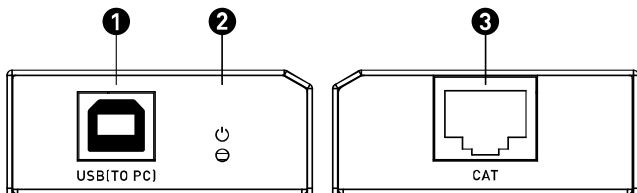
- Supports USB 2.0 protocol, transmission rate up to 480Mbps
- Supports extend distances up to 50 meters /164ft via CAT 5e/6 cable (Note: The transmission distance can only extend up to 40 meters / 131.2ft for some USB 2.0 Hub)
- Supports one USB-B port input in transmitter
- Supports two USB 2.0 ports output in receiver
- Receiver is powered by connecting 5V/1A power adapter
- Simple plug and play, no driver download, installation, or settings configuration required
- Compact design for easy and flexible installation

3. CONNECTION AND OPERATION

3.1 Installation Checklist

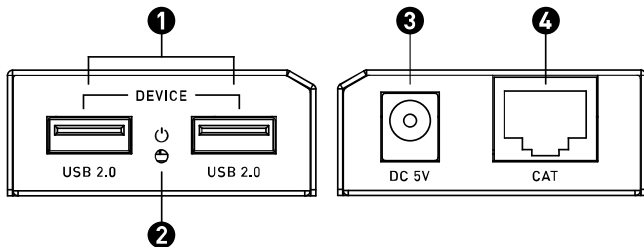
- √ Installation with a surge protector is recommended to protect the equipment
- √ Check for nearby AC outlets for the power adapters
- √ Directly connect to a Cat 5e/6 cable, do not use with an active hub, network switch or router
- √ Cat 6 cable is recommended for 480Mbps transmission rate up to 50 meters /164 feet
- √ Use shielded Cat 6 cable in a noisy area with EMI/RFI electromagnetic interference
- √ Power-off all source and sink devices before connecting
- √ Test the Extender and cables before installing in a permanent location
- √ It is not recommended to connect high power consuming USB devices to the USB ports on the Receiver side. If you need to connect them, please power to these USB devices separately

3.2 Transmitter Panel Connections



- 1) **USB Port:** Employ a USB 2.0 A to B male-to-male cable to establish a connection between the computer's USB-A port and the Transmitter.
- 2) **Power LED:** The Power LED indicator, marked by a green light, illuminates when the Transmitter is successfully connected to a computer.
- 3) **CAT Port:** The CAT port serves to link with the Receiver's corresponding CAT port using an Ethernet cable

3.3 Receiver Panel Connections



- 1) **USB2.0 Port:** Connect various USB devices to achieve a high transfer rate of 480Mbps.
- 2) **Power LED:** The Power LED indicator, marked by a green light, illuminates when a power adapter is successfully connected to the Receiver.
- 3) **DC 5V:** Connect the 5V/1A DC power adapter to this port.
- 4) **CAT port:** Link the CAT port to the Transmitter's corresponding CAT port using CAT 5e/6 cable

3.4 Connection Instructions

1. Power off all the source and sink devices
2. Connect the Transmitter to your computer with the USB-B cable included in the package (look for a green LED on the Transmitter)
3. Connect the Transmitter and Receiver via a network cable
4. Connect the USB devices and power adapter to the Receiver
5. Plug the Receiver power adapter into an AC outlet (look for a green LED on the Receiver)
6. Power on all the equipment and check for the USB devices in the computer

Note:

- Test all the equipment and cables before installing permanently

3.5 Troubleshooting Notes

- Check that both the Transmitter and Receiver have power. The green LED on both the Transmitter and Receiver should be lit.
- Check that all cables are connected well to the correct ports
- Directly connect the USB devices to the computer to test for compatibility.
- Test the Cat 5e/6 cable with a network tester.
- Try one USB device on the Receiver each time
- Test with a different USB device for compatibility issues.
- Test with different USB port on the computer
- Place the Extender away from fluorescent lighting or equipment that generates electrical noise.
- A 'The USB devices are not recognized' error message may indicate that the connected USB devices need more power, please connect the external power for the USB devices.
- Wait 10 seconds for a handshake signal when connecting a computer.
- Plug and re-plug the USB cable.
- Remove the USB cable from the computer, power off the extender, reboot the computer, then reconnect the USB cable to the computer

Contact support@cablematters.com with any questions.

4. TECHNICAL SPECIFICATIONS Model 202159**Extender Ports (Transmitter and Receiver)**

USB Input	1x USB-B Female
USB Output	2x USB-A Female
Network Ports	2x RJ45 Female
Power (Receiver)	1x 5V DC2.1 Female

Technical

USB Compatibility	USB2.0 and USB3.0 devices
Transmission rate	Up to 480Mbps
Transmission distance	50 meters/164ft(Note: The transmission distance can only extend up to 40 meters for some USB 2.0 Hub)
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

Mechanical

Housing	Metal Enclosure
Dimensions	Transmitter / Receiver: 82mm (W)×49mm (D)×20mm (H)
Weight	Transmitter / Receiver: 3.5 Ounces
Power Supply	Input: 100-240VAC, 50/60Hz, Output: DC 5V/1A
Operating Temperature	32F - 140F
Storage Temperature	-4F - 140F
Relative Humidity	20~90% RH (non-condensing)

Miscellaneous

Regulatory Compliance	C E, FCC, RoHS
Warranty	Limited One-Year

Note: Specifications are subject to change without notice

5. WARRANTY AND SUPPORT

5.1 Customer Support and Contact Information

Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions.

Email us with any questions at support@cablematters.com.

5.2 Warranty Information

This product is backed by a limited one-year warranty. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, or normal wear.

5.3 Limitation of Liability

In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, loss of data, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product (as allowed by state law).

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