

# BG-USB-MR80

4-Port USB 2.0 Extender up to 260ft

## User Manual







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## Statement

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

## Safety Precaution

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- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- Unplug this device during lightning storms
- Clean only with a soft dry microfiber cloth.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- Only use accessories specified by the manufacture
- Product specifications may be subject to technical upgrades without further notice
- Do not mix up HDMI to RJ45 transmitter and RJ45 to HDMI receiver before installation.
- Do not hot plug when it is working.



## Introduction

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The BG-USB-MR80 is a USB 2.0 that extends USB devices up to 264 feet (80 meters) over a single category cable. The extender consists of two units, a transmitter and a receiver. The transmitter connects to the PC and the receiver connects to the peripheral device, such as USB printers, cameras, Storage devices, Card-Readers, and more. The BG-USB-MR80 offers the most convenient solution for long distance USB 2.0 transmission.

## Features

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- Supports four USB peripheral devices
- Extends the transmission up to 264 feet (80 meters)
- USB 1.0 (low-speed), USB 1.1 (full-speed), and USB 2.0 (high-speed)
- Suspend/resume detection
- Does not require additional drivers
- Hot plug functionality
- Easy to setup

## Packing List

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- 1x BG-USB-MR80
- 1x 5V power adapter
- 1x User Manual
- 1x Quick Start Guide

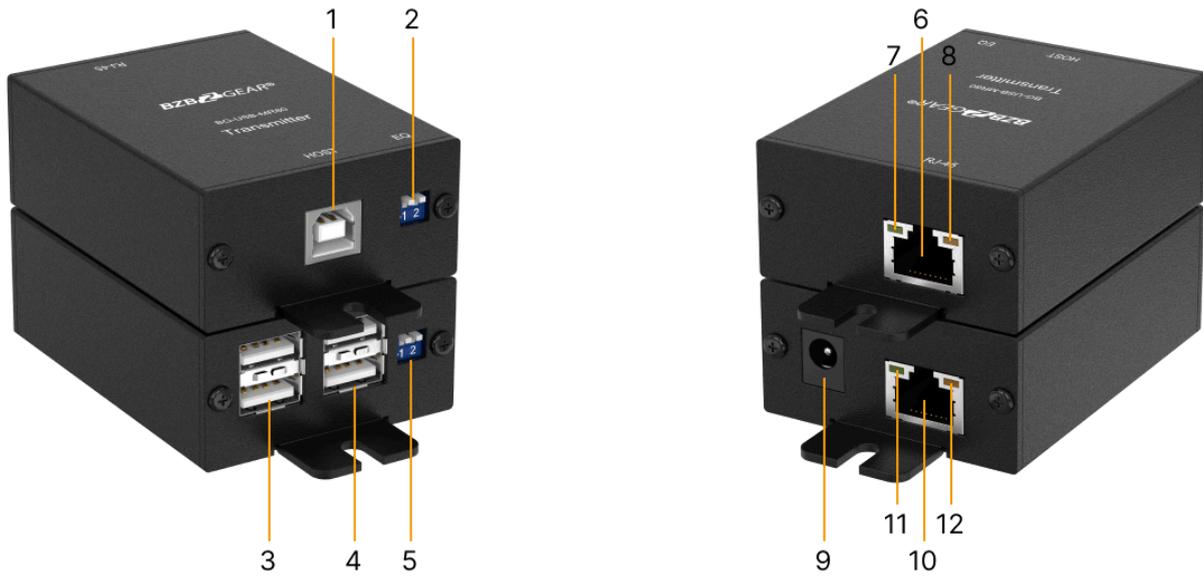


## Technical Specifications

Technical		Transmitter	Receiver
USB compliance		USB 2.0 high speed compliant	
Bandwidth		Up to 480 Mbit/s	
USB over UTP transmission		Up to 264 feet (80 meters)	
Signal Equalization		2-pin dip switch at TX & RX	
ESD protection		[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB Stack-up		4-layer board [impedance control — differential 100W; single 50W]	
Input		1x USB(Type B)	1x RJ-45
Output		1x RJ-45	4x USB(Type A)
USB connector		USB 2.0 Type A & B (High-Speed USB)	
RJ-45 connector		WE/SS 8P8C with 2 LED indicators	
Dip Switch		Signal level equalization	Signal level equalization
Mechanical		Transmitter	Receiver
Housing		Metal case	
Dimensions [L x W x H]	Model	3.8" x 2.1" x 1" [97 x 54 x 27mm]	3.8" x 2.1" x 1" [97 x 54 x 27mm]
	Package	10.3" x 6.7" x 3" [264 x 170 x 77mm]	
	Carton	1'4" x 1'2" x 11.5" [430 x 358 x 291mm]	
Weight	Model	3.8oz [108g]	3.5oz [99g]
	Package	8oz [226g]	7.6oz [217g]
Power supply		Via USB	5V 2A DC
Power consumption		2 Watts [max]	4 Watts [max]
Operation temperature		32~104°F / 0~40°C	
Storage temperature		-4~140°F / -20~60°C	
Relative humidity		20~90% RH [no condensation]	



## Operation Controls and Functions



### Transmitter Panel

1. **USB Type-B:** Connect to a USB host device.
2. **2-Pin Dip Switch:** Use the dip switch to adjust equalization level to control transmission distances EQ1(strongest) - EQ3(weakest).

DIP Switch Position				Description
PIN#1	PIN#2	ON [↓]	OFF [↑]	EQ#1 (MAX or Strongest)
		OFF [↑]	ON [↓]	EQ#2
		OFF [↑]	OFF [↑]	EQ#3 (MIN or Weakest)
		ON [↓]	ON [↓]	Reserved

6. **RJ-45:** Plug in a CAT-5/5e/6 cable that needs to be linked to the RJ-45 connector of the receiver.
7. **Power indicator:** Illuminates green when the device is receiving power from the receiver unit.
8. **Signal indicator:** Illuminates yellow when data is transmitted between devices.



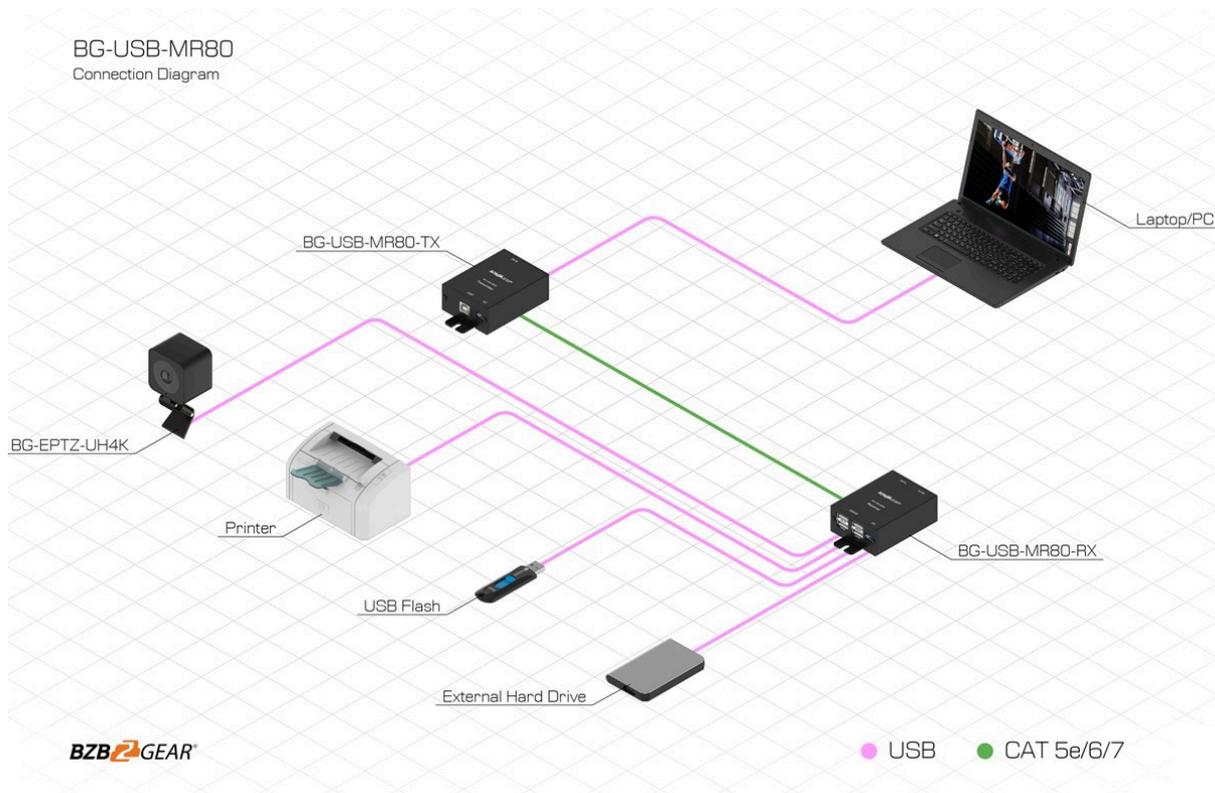
## Receiver Panel

- 3. **USB 2.0 Type-A x2:** Connect to USB 2.0 Devices.
- 4. **USB 2.0 Type-A x2:** Connect to USB 2.0 Devices.
- 5. **2-Pin Dip Switch:** Use the dip switch to adjust equalization level to control transmission distances EQ1(strongest) - EQ3(weakest).

DIP Switch Position				Description
PIN#1	PIN#2	ON [↓]	OFF [↑]	EQ#1 (MAX or Strongest)
		OFF [↑]	ON [↓]	EQ#2
		OFF [↑]	OFF [↑]	EQ#3 (MIN or Weakest)
		ON [↓]	ON [↓]	Reserved

- 9. **5V DC power jack:** Connect to the provided power supply.
- 10. **RJ-45:** Plug in a CAT-5/5e/6 cable that needs to be linked to the RJ-45 connector of the transmitter.
- 11. **Power indicator:** Illuminates green when the device is powered on.
- 12. **Signal indicator:** Illuminates yellow when data is transmitted between devices.

## Application Example





## Tech Support

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Have technical questions? We may have answered them already!

Please visit BZBGear's support page ([bzbgear.com/support](https://bzbgear.com/support)) for helpful information and tips regarding our products. Here you will find our Knowledge Base ([bzbgear.com/knowledge-base](https://bzbgear.com/knowledge-base)) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV ([youtube.com/c/BZBTVchannel](https://youtube.com/c/BZBTVchannel)), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

**Phone**

1.888.499.9906

**Email**

support@bzbgear.com

**Live Chat**

bzbgear.com

## Limited Product Warranty Terms

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Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](https://bzbgear.com/warranty).

For questions, please call 1.888.499.9906 or email support@bzbgear.com.



## Mission Statement

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BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.

## Copyright

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