BZB GEAR®
Solutions to Amplify Your World™

BG-PSC8X2-REC

4K 18Gbps UHD HDBaseT Extender for BG-PSC8X2HDB up to 230ft

User Manual

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Statement

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

Safety Precaution

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- Do not dismantle the housing or modify the module.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not put any heavy items on the extension cable in case of extrusion.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Unplug this device during lightning storms.
- Do not use liquid or aerosol cleaners to clean this unit. Clean only with a soft dry microfiber cloth.
- Always unplug the power to the device before cleaning.
- If an object or liquid falls or spills on to the housing, unplug the module immediately.
- 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.
- Product specifications may be subject to technical upgrades without further notice.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

Introduction

The BG-PSC8X2-REC HDMI Receiver is a tool which can extend your HDMI signal over 328ft/100 meters to a compatible display. It is designed to accept a HDBaseT signal which can be transmitted by category cable. It also supports bi-directional IR and RS232.

Features

- PoE (Power Over Ethernet) power consumption less than 10W.
- Use single UTP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distance transmission.
- UTP cable termination follows the standard of IEEE-568A or IEEE-568B.
- Transmission distance:
  100 meters: 1080P@60Hz36bit; 3D 1080P@30Hz36bit;
  70 meters: 1080P@60Hz@48bit; 1080P@120Hz@24bit; 3D 1080P@60Hz@36bit; 4K2K@30Hz@24bit.
- Display resolutions up to 4K2K@60Hz
- Transfer Bidirectional Infrared control signal together with the HDMI signal.
- Transfer Bidirectional RS232 control signal together with the HDMI signal.

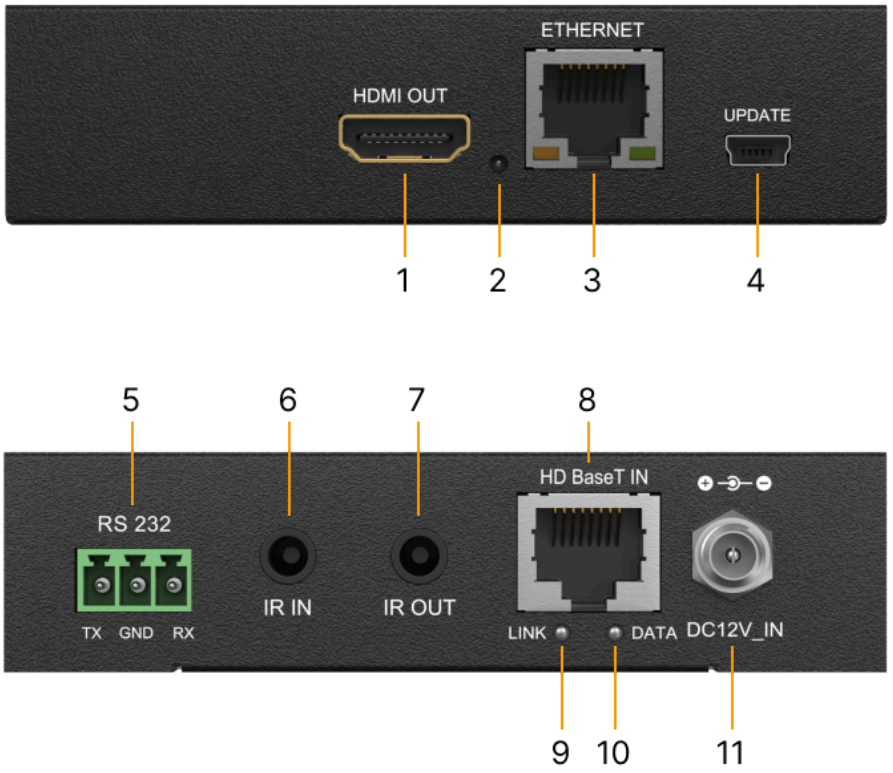
Packing List

- 1x HDMI Extender Receiver
- 2x Wideband IR Tx
- 2x Wideband IR Rx
- 1x 24V1A DC Power Supply
- 2x Phoenix Connector
- 4x Mounting ears
- 1x User Manual
- 1x Quick Start Guide

Technical Specifications

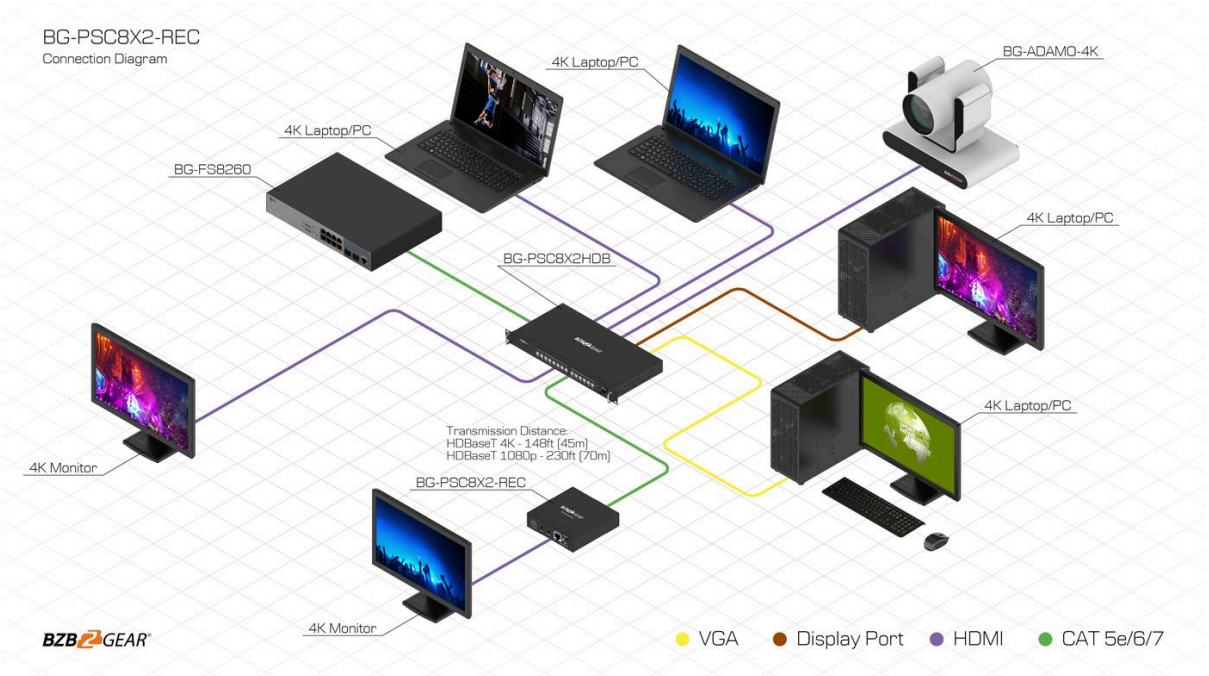
General	
Frequency Bandwidth	2.97Gbps
Receiver Input/Output Ports	1x HDMI Female port/2x CAT6; 1x IR Tx/1x IR Rx/1x Phoenix
Power Supply	DC 12V
ESD Protection	Human Body Model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	100(W) x 100 (D) x 25 (H)
Weight	320g x 2
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Relative Humidity	20~90% RH (Non-condensing)
Power Consumption (Max)	10W

Operation Controls and Functions



1. **HDMI OUT**: HDMI output port. Connect to a display with an HDMI cable.
2. **OUTPUT LED**: The LED will illuminate red when a display is connected with an HDMI cable.
3. **ETHERNET**: Provides internet connection from transmitter or to transmitter.
4. **UPDATE**: Upgrade the software.
5. **RS232**: Phoenix jack provides a serial port control signal from transmitter or to transmitter.
6. **IR IN**: Channel 1 IR Transmitter. Connect with Wideband IR Tx.
7. **IR OUT**: Channel 2 IR Receiver. Connect with Wideband IR Rx.
8. **HDBaseT IN**: RJ45 female HDBaseT signal input port.
9. **LINK LED**: Light will illuminate indicating a link with the base unit.
10. **DATA LED**: LED will flicker when data is being transmitted.
11. **DC IN**: Plug the 12V DC power supply into the unit.

Application Example



Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGEAR's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (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), 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	**Email**	**Live Chat**
1.888.499.9906	support@bzbgear.com	bzbgear.com

Limited Product Warranty Terms

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.

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

Mission Statement

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.

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