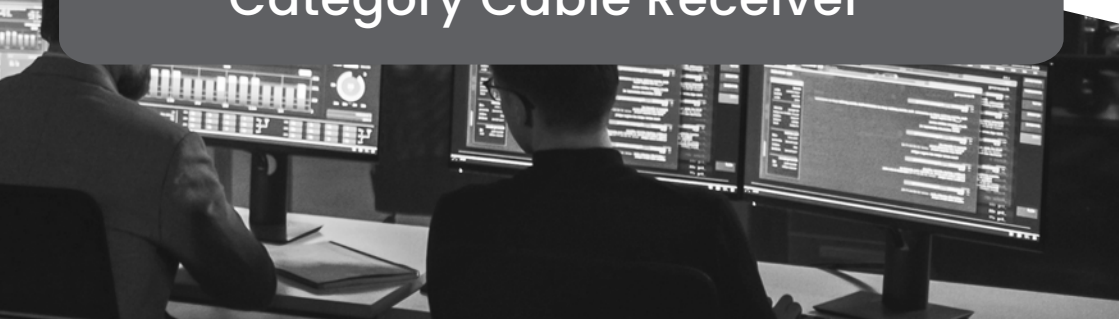


geratech[®]



EGE-EXT-USB32-100-RX

USB 3.2 Over
Category Cable Receiver



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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.
- Please completely disconnect the power when the unit is not in use to avoid wasting electricity.

VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
Ver 1.00	2024/5/6	Initial Release
Ver 1.01	2024/8/15	Modified USB 3.2 Host Port to USB 3.2 Device Port in Section 6.1

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1. Introduction

This USB 3.2 Gen1 extender set is designed to extend signal from one USB host to multiple USB devices for up to 100 meters (328 feet) when paired with the transmitter from the homologous series. This receiver enables users to extend up to 4 USB 3.2 devices remotely, such as flash drives, keyboards and USB cameras. With an adapter, USB-C port supports 5V/3A power and USB-A ports provide 5V/0.9A power to USB devices. The unit also supports a hotkey for convenient firmware update from the transmitter side.

2. APPLICATIONS

- Remote USB extension
- Security and monitoring
- Industrial control
- Conference room and boardroom KVM Extension

3. Package Contents

- 1× USB 3.2 over Category Cable Receiver
- 1× 12V/3A DC Power Adapter
- 1× Operation Manual

4. SYSTEM REQUIREMENTS

- The use of industry standard Cat.6, Cat.6A or Cat.7 cable is highly recommended.

5. FEATURES

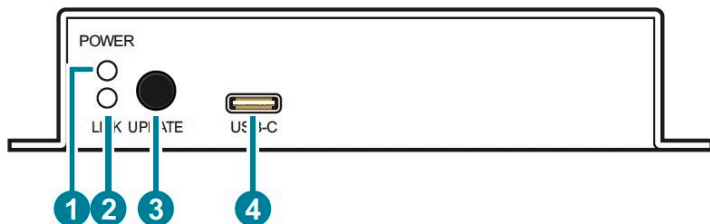
- Support 4 USB 3.2 Gen1 device ports
- Support Point-to-Point transmission
- Transmission up to 100 meters (328 feet)
- Devices can be controlled by the USB host on a transmitter
- Firmware update with hotkey from the receiver or remote update from the

transmitter.

- Backward compatible with USB 2.0

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



1. POWER LED: This LED will illuminate to indicate the unit is on and receiving power.

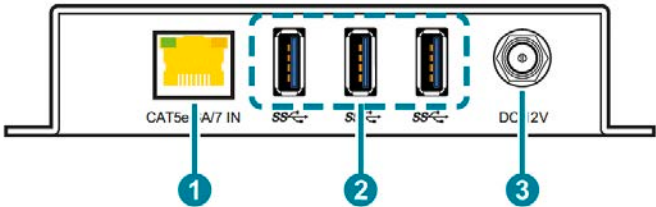
2. LINK LED: This LED will illuminate solidly when a live connection with a compatible receiver is active.

3. UPDATE Button: Reserved for manufacturer use only.

4. USB 3.2 Host Port (Type-C): Connect directly to a standard USB device such as a mouse, keyboard or flash drive to extend their USB functionality to the host currently connected to the transmitter's USB port.

Note: Type-C port can provide up to 5V/3A (15W) power.

6.2 Rear Panel



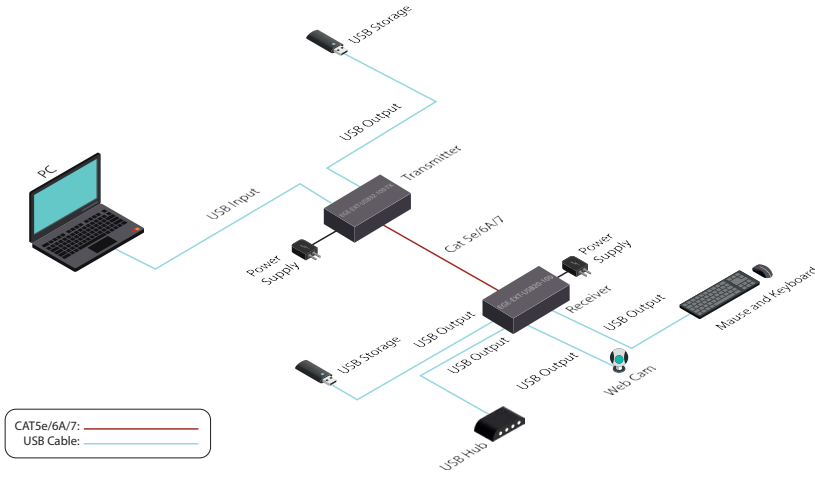
1. CAT 5e/6A/7 IN Port: Connect to a compatible transmitter with a single cable for transmission and reception of all data signals.

2 USB 3.2 Device Port (Type-A): Connect directly to standard USB devices such as a mouse, keyboard or flash drive to extend their USB functionality to the host currently connected to the transmitter's USB port.

Note: Type-A port can provide up to 5V/900mA (4.5W) power.

3. DC 12V Port: Plug the 12V DC power adapter into this port and connect it to an AC wall outlet for power.

7. Connection Diagram



8. SPECIFICATIONS

8.1 Technical Specifications

USB-C Bandwidth	5Gbps
HDBaseT Bandwidth	6Gbps
Input Ports	1×Cat.5e/6A/7 (RJ-45)
Output Ports	1×USB 3.2 (Type-C) 3×USB 3.2 (Type-A)
Power Supply	12V/3A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	(HBM) ±8kV (Air Discharge) ±4kV (Contact Discharge)
Dimensions	(WxHxD) 128mm×25mm×75mm [Case Only]
Weight	275g
Chassis	Metal (Steel)
Chassis Color	Black
Operating Temperature	0°C – 40°C/32°F – 104°F
Storage Temperature	-20°C – 60°C/-4°F – 140°F
Relative Humidity	20 – 90% RH (Non-condensing)
Power Consumption	39.173W(full load)

8.2 Cable Specifications

Cable Length	USB 3.2
	5Gbps
Ethernet Cable	
Cat.5e/6	70m
Cat.6A/7	100m

8.3 HDBaseT Features

HDBaseT Feature Set	Transmitter
Video & Audio Extension	Unsupported
LAN Extension	Unsupported
Send power to Receiver	Unsupported
Accept power from Receiver	Unsupported
IR Extension	Unsupported
RS-232 Extension	Unsupported
USB 3.2 Extension	Supported

9. ACRONYMS

ACRONYM COMPLETE	TERM
Cat.5e	Enhanced Category 5 cable
Cat.6	Category 6 cable
Cat.6A	Augmented Category 6 cable
Cat.7	Category 7 cable
Mbps	Megabits per second
Gbps	Gigabits per second
PD	Powered Device
PSE	Power Sourcing Equipment
UAC	USB Audio Class
USB	Universal Serial Bus
UVC	USB Video Class



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