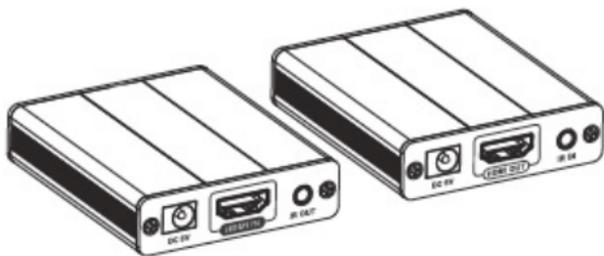# gofanco®

HDMI CAT6 Extender with ESD - 120m
User's Guide

P/N: HDEXT120ESD

Thank you for purchasing from gofanco. Our products aim to meet all your connectivity needs wherever you go. For optimum performance and safety, please read the instructions carefully and keep this User's Guide for future reference. If you need more information about our products, please visit www.gofanco.com. For technical support, please email us at support@gofanco.com. For drivers/manuals, please go to www.gofanco.com/download.

Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating
- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included DC5V power adapters only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The HDMI CAT6 Extender with ESD - 120m transmits uncompressed HDMI signals up to 394 feet (120m) in 1080p with less than 200ms latency.

Features

• HDMI 1.3, HDCP 1.4, 10.2Gbps bandwidth. Supports 2-channel PCM audio

• ESD Protection – Prevents malfunction or break down due to Electrostatic discharge

• IR Extension – Allows source device to recognize remote commands from a remote location

• Transmission Range – 120m (CAT6), 100m (CAT5e), 80m (CAT5)

Package Contents

• Transmitter (TX)
• Receiver (RX)
• Power Adapter (2pcs)
• IR Blaster Cable (1pc)
• IR Receiver Cable (1pc)
• User's Guide

Installation Requirements

1. HDMI source device (computer, DVD player, etc)
2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
3. UTP/STP CAT6 cable following IEEE-T568B wiring standard

Product Layout

Figure 1: Transmitter (TX)

1. Reset Button	Press the button to reset the transmitter
2. RJ45 Output	Connects to the Receiver's RJ45 Input port using a CAT6 cable
3. Link LED	Lights up when HDMI input signal detected Flashes when no HDMI input signal detected
4. Power Jack	Connects to the included power adapter
5. HDMI Input	Connects to the HDMI source device
6. IR Output	Connects to the IR Blaster cable

Figure 2: Receiver (RX)

1. Reset Button	Push the button to reset the receiver
2. RJ45 Input	Connects to the Transmitter's RJ45 Output port using a CAT6 cable
3. Link LED	Lights up when RJ45 from TX detected Flashes when RJ45 from TX not detected
4. Power Jack	Connects to the included power adapter
5. HDMI Out	Connects to remote HDMI display
6. IR Input	Connects to the IR receiver cable

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display.
2. Connect your HDMI source device to the Transmitter's HDMI Input connector with an HDMI cable (HDMI cable not included).

3. Optional: Connect the IR Blaster Cable to the Transmitter's IR output port. Face the eye towards your HDMI source device's IR window. This connection is needed only if you need to control your HDMI source from the remote location.

4. Plug your CAT6 cable between the Transmitter's RJ45 Output and Receiver's RJ45 Input.

5. Connect your HDMI display to the Receiver's HDMI output connector with an HDMI cable (HDMI cable not included).

6. Optional: Connect the IR Receiver Cable to the Receiver's IR input port. This connection is needed only if you need to control your HDMI source device from the remote location.

7. Plug the included power adapters into the Transmitter's and Receiver's power jacks, then plug both power adapters into a reliable power source.

8. Power on all connected devices.

9. The HDMI extender is ready for use.

CAT Cable Wiring

We suggest both RJ-45 connectors be wired identically using T568B wiring standard for the best performance and compatibility.

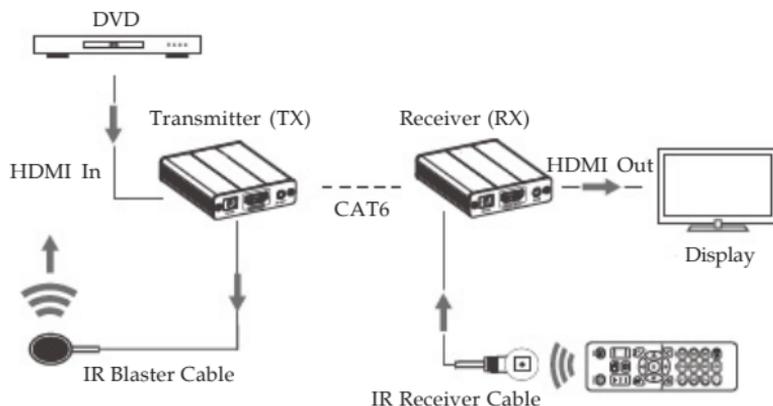Both connectors must be wired identically, to T568B standard.

RJ45 Plug Colour Code (T568B) Contact Side - Tab is on Back	
8	BROWN
7	WHITE / BROWN
6	GREEN
5	WHITE / BLUE
4	BLUE
3	WHITE / GREEN
2	ORANGE
1	WHITE / ORANGE

Note: You may use CAT5e, CAT6 wiring, however, for best performance CAT6a or CAT7 (particularly in electrically noisy environments) is recommended. The maximum transmission distance and video quality may be compromised by cable quality, patch cables, poor termination, wall plates, cable kinks, and electrical interference. We recommend using 100% copper 23AWG (avoid CCA type) CAT cable, in one straight run (avoid/minimize patches) and avoid close proximity to electrical sources.

Application

FAQ & Solutions

Q: There is no video output or audio and video display is not normal:

A: 1) Press the Receiver's reset button to reset the unit.

2) Use a shorter network cable.

Q: The Receiver's Link LED is flashing:

A: 1) Make sure the network cable follows the IEEE-T568B wiring standard.

2) Check whether TX has HDMI signal input.

3) Reset both TX & RX and reconnect.

Q: The extender is not working properly:

A: 1) Please check the cable lengths below:

- HDMI cables: Up to 5m

- Network cables (CAT6): Up to 120m

2) Press the reset button on the TX/RX and reconnect.

Q: RX Link LED is on but there is no image:

A: 1) Press RX reset button to reset the unit.

2) Make sure the HDMI cable is firmly connected to the display.

3) Make sure your HDMI display device is set to the correct HDMI input.

4) Use a higher quality network cable.

Specifications

Item	Specifications
HDMI Compliance	1.3
HDCP Compliance	1.4
Data Transmission	<200ms latency
Video Bandwidth	10.2Gbps
Resolution	720x576@50Hz, 720x480@60Hz, 1280x720X60Hz, 1920x1080@60Hz, 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1440x900@60Hz, 1680x1050@60Hz
ESD Protection	Contact discharge: Level 3 Air discharge: Level 3 Standard: IEC 61000-4-2
Audio Support	PCM
IR Frequency Range	20KHz-60KHz
Power Adapter	Output: 5VDC/1A
Power Consumption	TX: 2W / RX: <2W
Product Dimensions	2.8" (L) x 2.3" (W) x 0.64" (H)
Weight	TX: 70g RX: 70g
Color	Black

Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products.

We reserve the right to make changes without prior notice to a product or system described herein to improve reliability, function, or design.

gofanco®

Thank you for choosing gofanco