

# KanexPro™

## EXT-HD100MHBT

HDBaseT™ Long-Runner 100M & POE Support



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## 1. Introduction

### 1.1. Introduction to EXT-HD100MHBT

The KanexPro Long-Runner employs HDBaseT technology to route high-resolution HDMI signals from the source up to 330 feet (100m) to your HD display. It supports full 3D with resolutions up to 4Kx2K (4 times the 1080p), multi-channel audio and IR extension over a single low cost CAT5e/6 cable.

Fully compliant with HDCP, EDID and CEC controls, the Long-runner HDMI extender is an ideal solution for HDMI extension over long distances.

**Please note:** This extender supports power over Ethernet, from either the Tx side or Rx side, and comes with only one power supply.

### 1.2. Features

- Extend HDMI signals up to 330 ft. (100m) on single CAT6 cable
- Supports Power over Ethernet from Tx or Rx
- Infrared Signal Input/Output, embedded over extension
- Supports resolutions from 1080p/60@48bit to 4Kx2K
- Supports data rates up to 10.2 Gbps
- Enables 3D pass-through
- Supports CEC pass-through
- HDCP and EDID compliant
- Audio support: Dolby TrueHD & DTS Master Audio, 7.1 compliant
- Uncompressed audio support such as LPCM
- Front panel-LEDs for link activity and HDCP authentication
- One external power supply included

**Note:** Please adhere to the **TIA/EIA568B** standards when terminating network cables in the field.

### 1.3. Package Contents

- Transmitter/Receiver Set
- IR Kit
- One power supply
- Operation manual

## 1.4. Specifications

### Interface:

- Transmitter:
  - Input: HDMI
  - Output: HDBaseT (Cat 5e/6)
- Receiver:
  - Input: HDBaseT (Cat 5e/6)
  - Output: HDMI

**Video Amplifier Bandwidth:** 6.75Gbps / 2.25Gbps per channel

**Vertical Frequency Range:** 50/60Hz

**Resolutions (HDTV):** 480i, 576i, 480p, 576p, 720p, 1080i, 1080p

**Computer Resolution:** WUXGA (1920x1200)

**Power:** 5V DC@2A

**Power Consumption:** 5W (Maximum)

**Regulatory Approvals Converter:** FCC, CE, UL

**Regulatory Approvals Power Supply:** FCC, CE, UL

**Dimensions:** 3.93"x2.5"x1.0" (100x65x25.5mm)

**Weight:** 0.37 lbs. (170g)

**Warranty:** 1 Year limited

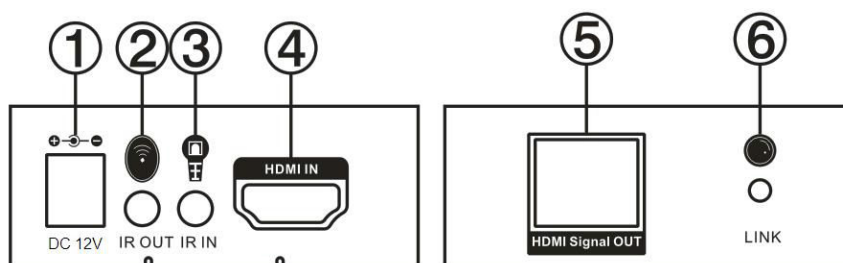
### Helpful Tips & Recommendations:

- CAT-5 cables should not exceed 330 feet or (100m).
- Please adhere to the TIA/EIA568B standards when terminating network cables in the field.
- Shielded CAT5/6 with metal RJ-45 connectors are recommended to safeguard against random video flashes caused by electromagnetic interference (EMI).
- Do not use crossover cables, patch cables or Ethernet couplers to extend two CAT5 cables. This may damage the Tx & Rx.
- If the power LED indicator on the Tx/Rx unit is not on, check to make sure that the CAT5 cables are not crossed i.e., Ethernet to Link instead of Ethernet to Ethernet.

### 1.5. Operation Controls and Functions

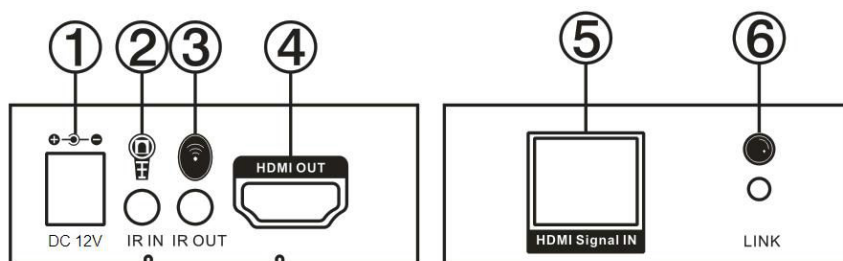
#### Transmitter:

- ① **DC IN:** Plug the 12V DC power supply into the unit.
- ② **IR OUT:** Chanel 1 IR Transmitter
- ③ **IR IN:** Chanel 2 IR Receiver
- ④ **HDMI IN:** HDMI Input Port
- ⑤ **HDMI Signal OUT:** Standard HDBaseT signal output port
- ⑥ **LINK LED:** This red LED will illuminate when the Transmitter and Receiver are connected with a LAN cable.



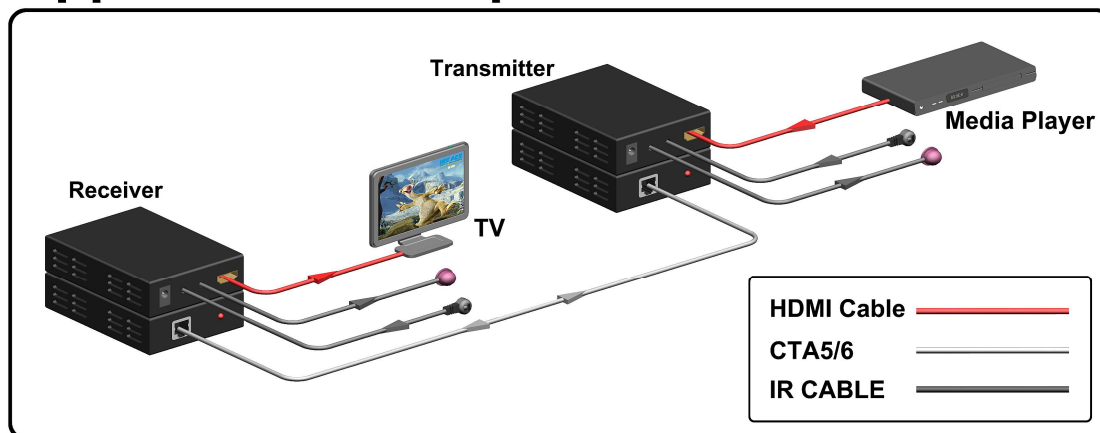
#### Receiver:

- ① **DC IN:** Plug the 12V DC power supply into the unit.
- ② **IR IN:** Chanel 1 IR Receiver
- ③ **IR OUT:** Chanel 2 IR Transmitter
- ④ **HDMI OUT:** HDMI Output port.
- ⑤ **HDMI Signal IN:** Standard HDBaseT signal input port.
- ⑥ **LINK LED:** This red LED will illuminate when the Transmitter and Receiver is connected with a LAN cable.



## 1.6. Application Example

### Application Example



## **2. Warranty**

KanexPro™ warrants that (a) its products (the “Product”) will perform greatly in agreement with the accompanying written materials for a period of 1 year from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 1 year.

### **B. CUSTOMER REMEDIES**

KanexPro’s entire liability and Customer’s exclusive remedy shall be, at KanexPro option, either return of the price paid for the product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to KanexPro with a copy of customers’ receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period or 90 days whichever is longer.

### **C. NO OTHER WARRANTIES**

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, KANEX DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE PRODUCT AND ANY RELATED WRITTEN MATERIALS. THIS LIMITED WARRANTY GIVES CUSTOMERS SPECIFIC LEGAL RIGHTS. CUSTOMERS MAY HAVE OTHER RIGHTS DEPENDING ON THE JURISDICTION.

### **D. NO LIABILITY FOR DAMAGES**

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL KANEX BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES FOR PERSONAL INJURY, LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE THIS PRODUCT, EVEN IF KANEX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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