Low-Cost HDMI Over Gigabit IP Extender with IR and Power over Ethernet (POE) (Next-Generation Model)

XTENDEX®

Extend an HDMI display up to 394 feet away from the source using gigabit Ethernet. Use with cascaded network switches to extend the length long distances.

- Supports HDTV resolutions to 1080p.
  - Extend up to 394 feet (120 meters) with CAT6/6a/7 cable.
  - Extend up to 328 feet (100 meters) with CAT5e cable.
- Cascade network switches to extend the length long distances.
  - Up to three switches can be cascaded.
  - The max cable length between the first switch/transmitter and the last switch/receiver is 1,575 feet (480 meters) for CAT6/6a/7 or 1,312 feet (400 meters) for CAT5e cables.
  - The max cable lengths between switches is switch dependent, but 394 feet (120 meters) is typical with CAT6/6a/7 cable.
- Power over Ethernet (PoE) – power supply not required at the local or remote unit.
- Ideal solution for digital signage applications.
- Broadcast real-time HDMI video and audio signals to multiple display locations with a managed or unmanaged (also known as non-managed) network switch.
- Transmits an HDMI signal over one CATx cable.
- Full Infrared Remote (IR) control of HDMI source from remote HDTV using existing source remote control.
- Plug-and-Play installation allows receivers to find the transmitters automatically on the same subnet. (Network configuration may be required for managed network switch.)
- Easily expandable. Add remote units as you add monitors.
- Inexpensive CATx cable replaces bulky video cables.
- Supports 1000 Base-T Ethernet connection.
- Built in default EDID table.
- HDMI 1.4 and HDCP 1.4 compliant.
- Support for multiple transmitters requires a managed network switch with VLAN support. Standard LAN switches can only support one transmitter.
  - The managed switch must support port-based IEEE 802.1Q VLAN.
  - Each VLAN acts as a separate HDMI Over IP Channel on the network.
    - Each VLAN channel supports one transmitter.
  - Number of local and remote units that can be used is dependent on the backplane bandwidth of the switch.
- For a point-to-many connection, a standalone network with an unmanaged network switch, hub, or router can be used instead of a managed network switch.
  - Up to 253 receivers supported.
  - It is not recommended to use any other network devices on this standalone network as it may cause degradation in performance.
- Local and remote units must be in the same LAN. The units do not support WAN connections.

The XTENDEX® Low-Cost HDMI Over Gigabit IP Extender with IR and POE multicasts digital video and audio signals to one or more receivers up to 394 feet away over a 1000 Base-T Gigabit Network connected with CAT6/6a/7 cable.

Each Low-Cost HDMI Over Gigabit IP Extender with IR and POE consists of a local unit that connects to an HDMI source, and a remote unit that connects to an HDMI display. The local and remote units can be connected together for a Point-to-Point connection via CATx or a Point-to-Many connection via a network switch. Support for multiple transmitters requires a managed network switch.

- Extend HD 1080p Video up to 394 ft via One CATx Cable
- Use with Cascaded Network Switches to Extend to 1,575 Feet
- Supports Point-to-Point, Point-to-Many & Many-to-Many Connections
- Power over Ethernet (POE) – No Power Supply Required

NOTE: ST-IPHD-POELC-V4 models are NOT compatible with ST-IPHD-POELC(-CLR) models due to different chipsets being used.
Extends an HDMI display up to 394 feet away from the source using gigabit Ethernet. Use with cascaded network switches to extend the length long distances.

Specifications

**Local Unit**
- One female HDMI-A port for source connection.
- One female 1000Mbps RJ45 port for sending high definition video/audio signals.
- One female 3.5mm port for IR emitter (included).
  - IR frequency range: 20 to 60 Khz.
- Supported input resolutions: 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
- Encoding delay: 80 ms latency
- Supports HDCP 1.4

**Remote Unit**
- One female HDMI-A port for HDTV or computer display.
- One female 1000Mbps RJ45 port for receiving high definition video/audio signals.
- One female 3.5mm port for IR receiver (included).
  - IR frequency range: 20 to 60 Khz.
- Supported output resolutions: 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@50/60Hz
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.
- Supports HDCP 1.4

**Dimensions**
- WxDxH: 4.44x3.71x0.94 in (113x94x24 mm)

**Max Distance**
- 394 feet (120 meters) over CAT6/6a/7 cable.
- 328 feet (100 meters) over CAT5e cable.

**Regulatory Approvals**
- CE, FCC, RoHS

**Power**
- Power over Ethernet: With a switch that supports Power over Ethernet, a power supply is not required at the local or remote unit.
  - Compliant with IEEE 802.3af, class 0 standards.
- Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter (not included).
  - Country-specific AC adapter sold separately (PWR-SPLY-IHPDPOELCV4).
  - Output: 5VDC, 3.0A.
- Power Consumption:
  - Local: 4.5W
  - Remote: 3.5W.

**Cables**
- Use HD-xx-MM cable to connect an HDMI source or display up to 50 feet.
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet.
- Use DP-HD-xx-MM cables to connect a DisplayPort source up to 15 feet away from the transmitter.
- Use DVI-HD-xx-MM cable to connect a DVI source up to 5 meters.
- Use CATx solid or stranded straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

**Environment**
- Operating temperature: 32 to 140°F (0 to 60°C).
- Storage temperature: -4 to 158°F (-20 to 70°C).
- Operating and storage relative humidity: 0 to 95% non-condensing RH.

**Warranty**
- Two years.
Extend an HDMI display up to 394 feet away from the source using gigabit Ethernet. Use with cascaded network switches to extend the length long distances.

### Configuration and Cable Illustrations (Continued)

**Point-to-Many Connections**

- **Blu-Ray Player**
- **ST-IPHD-POELC-V4** (Local Unit)
- **POE Network Switch**
- **ST-IPHD-POELC-V4** (Remote Unit)

**Remote HDMI Display**

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**Many-to-Many Connections**

- **Blu-Ray Player**
- **ST-IPHD-POELC-V4** (Local Unit)
- **POE Managed Network Switch**
- **ST-IPHD-POELC-V4** (Remote Unit)

**Remote HDMI Display**

### Low-Cost HDMI Over Gigabit IP Extender with IR and Power Over Ethernet (POE)

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Local or Remote Unit</th>
</tr>
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<tbody>
<tr>
<td>ST-IPHD-POELC-V4</td>
<td>Local and Remote</td>
</tr>
<tr>
<td>ST-IPHD-R-POELC-V4</td>
<td>Remote</td>
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