

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.



**ST-IPHD-POELC-V4
(Local & Remote Unit)**

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.

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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-IPHDPOELCV4).
 - 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

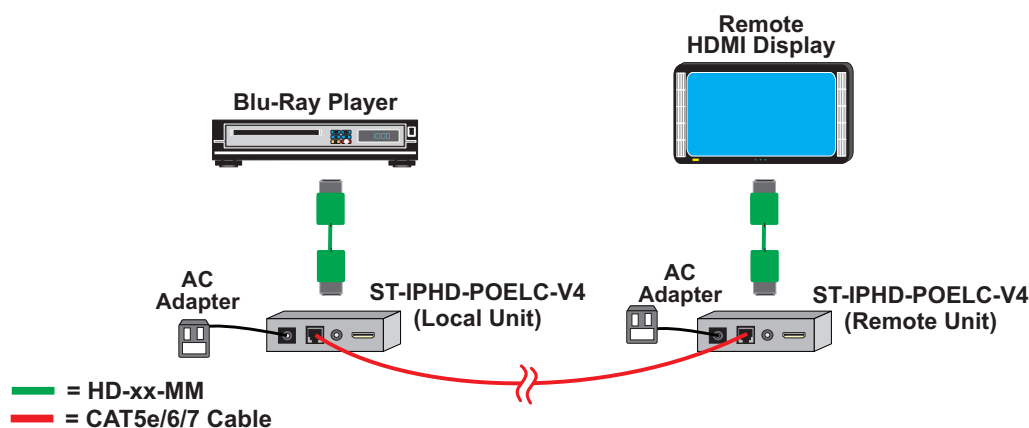
- Operating temperature: 32 to 140°F (0 to 60°C).
- Storage temperature: -4 to 158°F (-20 to 70°C).
- Operating and storage relative humidity: 0 to 95% non-condensing RH.

Warranty

- Two years.

Configuration and Cable Illustrations

Point-to-Point Connection



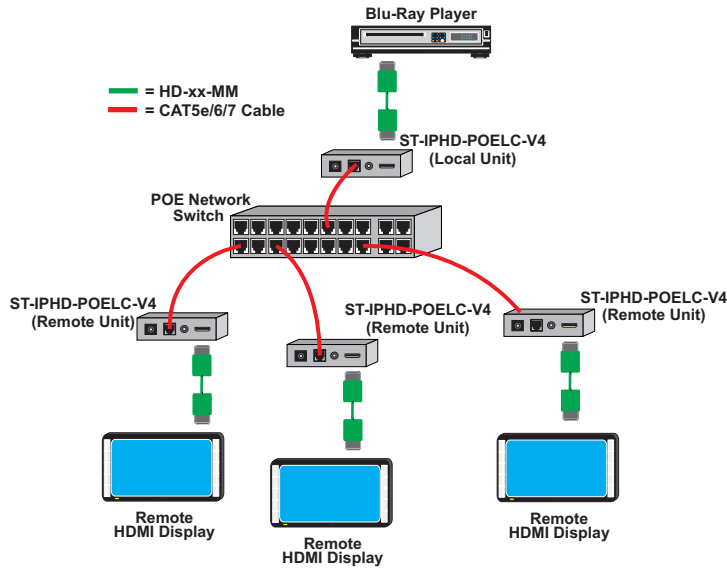
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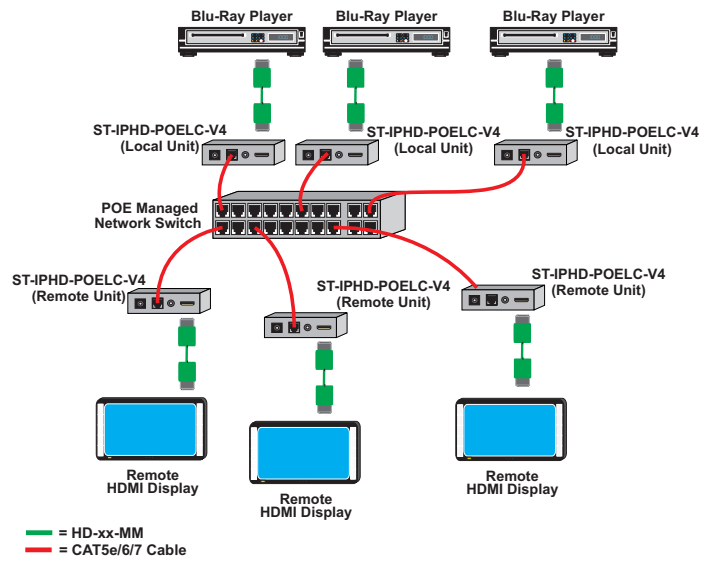
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Configuration and Cable Illustrations (Continued)

Point-to-Many Connections



Many-to-Many Connections



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NTI Part #	Local or Remote Unit
ST-IPHD-POELC-V4	Local and Remote
ST-IPHD-R-POELC-V4	Remote