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

Extend an HDMI display up to 393 feet away from the source using gigabit Ethernet.

- Supports HDTV resolutions up to 1080p.
- Ideal solution for digital signage applications.
- Power over Ethernet (PoE) - power supply not required at the local or remote unit.
- Broadcast real-time HDMI video and audio signals to multiple display locations with a managed or unmanaged (also known as non-managed) network switch.
- Support for multiple transmitters requires a managed network switch with VLAN support. Standard LAN switches can only support one transmitter.
  - Each VLAN acts as a separate HDMI Over IP Channel on the network.
  - Number of local and remote units that can be used is dependent on the backplane bandwidth of the switch.
- Transmits an HDMI signal over one CAT5e/6/7 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 transmitter automatically on the same subnet. (Network configuration may be required for managed network switch.)
- Web interface for firmware updates.
- Easily expandable. Add remote units as you add monitors.
  - Supports a maximum of 253 receivers.
- Inexpensive CAT5e/6/7 cable replaces bulky video cables.
- Supports 10/100/1000 Ethernet connection.
- Built-in default EDID table.
- HDCP compliant.
- Local and remote units must be in the same LAN. The units do not support WAN connections.

XTENDEX® ST-IPHD-POELC
(Local & Remote Unit)

- **Extend HD 1080p Video up to 393 ft via One CATx Cable**
- **Supports Point-to-Point, Point-to-Many, & Many-to-Many connections**
- **Power over Ethernet (POE) – No Power Supply Required**

The XTENDEX® Low-Cost HDMI Over Gigabit IP Extender multicasts digital video and audio signals to one or more receivers up to 393 feet away over a 1000Base-T Gigabit Network connected with CAT5e/6/7 cable.

Each Low-Cost HDMI Over Gigabit IP Extender 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 cable or a Point-to-Many connection via a network switch. Support for multiple transmitters requires a managed network switch.

Specifications

Local Unit

- One female HDMI-A port for source connection.
- One female 1000Mbps RJ45 port for sending high definition video/audio signals and DDC signal.
- One female 3.5mm port for IR transmitter (included).
  - IR frequency range: 20 to 60 Khz.
- Class 3 PoE compatible (10 watts maximum).
- Supported input resolutions: 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz.
- Codec: H.264
- Encoding delay: 22 mS at 30fps latency

Power

- Power over Ethernet: With a switch that supports Power over Ethernet, a power supply is not required at the local or remote unit.
- Local and remote unit:
  - Input: 100 to240 VAC at 50 or 60 Hz via AC adapter (not included).
    - Country-specific AC adapter sold separately (PWR-SPLY-IPHDPOELC).
  - Output: 5VDC, 3.0A.
- Power Consumption:
  - Local: 3.5W
  - Remote: 3.0W.

Environmental

- Operating temperature: 32 to 140°F (0 to 60°C).

Dimensions

- WxDxH (in): 4.13x3.72x0.94 (105x95x24 mm)

Remote Unit

- One female HDMI-A port for HDTV 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.
- Class 3 PoE compatible (10 watts maximum).
- Supported output resolutions: 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz.
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

Max Distance

- 393 feet (120 meters) over Cat5e/6/7 cable.

Cables

- Use HD-xx-MM cable to connect an HDMI source or display up to 50 feet away (not included).
- Use DVI-HD-xx-MM cable to connect a DVI source or display (not included).
- Use CAT5e/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

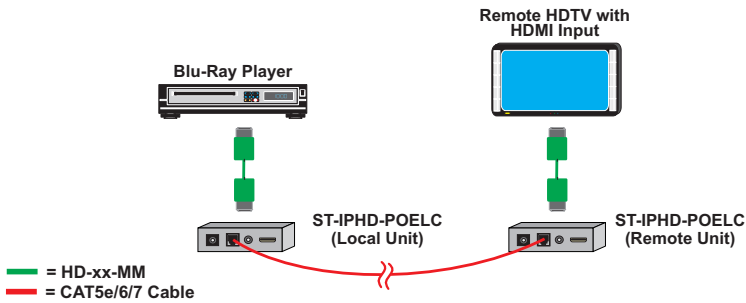### Regulatory Approvals

- CE, FCC, RoHS

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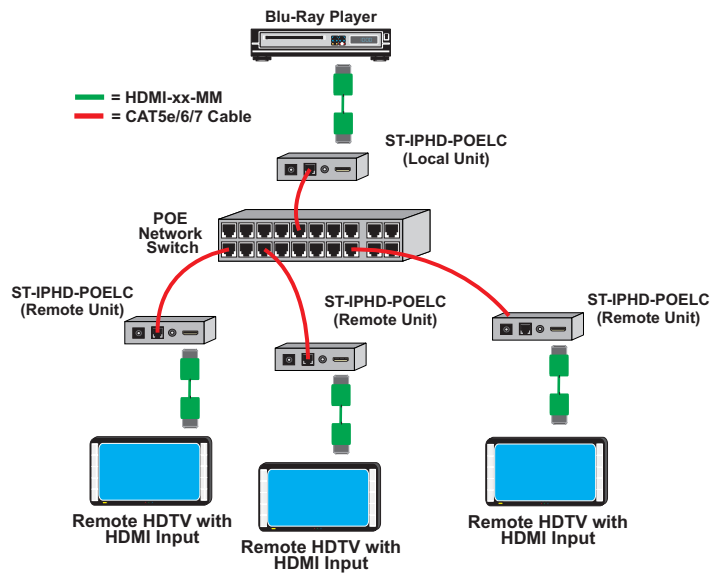sales@ntigo.com
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Extend an HDMI display up to 393 feet away from the source using gigabit Ethernet.

Configuration and Cable Illustrations

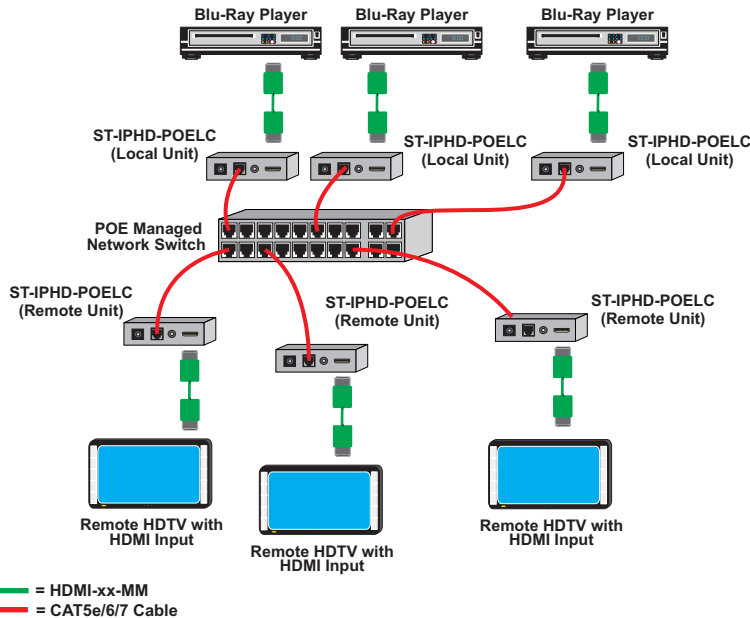**Point-to-Point Connections**

Remote HDTV with HDMI Input

Blu-Ray Player

ST-IPHD-POELC (Local Unit)

ST-IPHD-POELC (Remote Unit)

= HD-xx-MM
= CAT5e/6/7 Cable

Point-to-Many Connections

Blu-Ray Player

= HDMI-xx-MM
= CAT5e/6/7 Cable

ST-IPHD-POELC (Local Unit)

POE Network Switch

ST-IPHD-POELC (Remote Unit)

ST-IPHD-POELC (Remote Unit)

ST-IPHD-POELC (Remote Unit)

Remote HDTV with HDMI Input

Remote HDTV with HDMI Input

Remote HDTV with HDMI Input

Many-to-Many Connections

Blu-Ray Player   Blu-Ray Player   Blu-Ray Player

ST-IPHD-POELC (Local Unit)

ST-IPHD-POELC (Local Unit)

ST-IPHD-POELC (Local Unit)

POE Managed Network Switch

ST-IPHD-POELC (Remote Unit)

ST-IPHD-POELC (Remote Unit)

ST-IPHD-POELC (Remote Unit)

Remote HDTV with HDMI Input

Remote HDTV with HDMI Input

Remote HDTV with HDMI Input

= HDMI-xx-MM
= CAT5e/6/7 Cable

Low-Cost HDMI Over Gigabit IP Extender with IR and Power Over Ethernet (POE)	
NTI Part #	**Local or Remote Unit**
ST-IPHD-POELC	Local and Remote
ST-IPHD-R-POELC	Remote