Low-Cost 4K HDMI USB KVM Extender Over IP

XTENDEX®

Extend 4Kx2K HDMI monitor, Audio, USB keyboard, and USB mouse up to 328 feet using Gigabit Ethernet.

- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 and 4096x2160 @30Hz YUV 4:4:4, HDTV resolutions to 1080p @60Hz, and up to 1920x1200 (WUXGA).
  - Extend 4Kx2K up to 328 feet using CAT6/6a/7 cable.
    - In a Point-to-Many or Many-to-Many connection, the max length between the switch and the local/remote unit is 164 feet.
- USB ports for keyboard and mouse.
  - Keyboard and mouse are hot-pluggable.
- Plug-and-Play installation allows receivers to find the transmitter automatically on the same network. (Network configuration may be required for managed network switch for many-to-many connections.)
- When using multiple remote units, only one unit can have USB control over the source at any time.
- Built-in EDID table.
- HDMI features supported:
  - HDMI 1.4
  - 36-bit Deep Color
  - Dolby, DTS, PCM, and LPCM
  - YUV 4:4:4
  - Bandwidth up to 340 MHz (10.2 Gbps)
- HDCP 1.4 compliant.
- Easily expandable. Add remote as you add monitors.

The XTENDEX® Low-Cost 4K HDMI USB KVM Extender Over IP provides remote KVM (USB keyboard, USB mouse, and 4Kx2K HDMI monitor) access to a USB computer up to 328 feet (100 meters) over a Gigabit network using a single CAT6/6a/7 cable.

Each Low-Cost 4K HDMI USB KVM Extender consists of a local unit that connects to an HDMI source and also supplies video to a local monitor, and a remote unit that connects to a keyboard, monitor and mouse. 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.

Specifications

Local Unit

- Compatible with a USB computer (PC, SUN and MAC) with Ultra-HD 4K HDMI output.
- One female HDMI connector for computer connection.
- One female HDMI connector for local monitor.
  - Supports Ultra-HD 4Kx2K resolutions to 3840x2160 and 4096x2160 @30Hz YUV 4:4:4, HDTV resolutions to 1080p @60Hz, and up to 1920x1200 (WUXGA).
- One female USB Type B connector.
- One female RJ45 port for sending/receiving high definition video/audio and USB signals.

Remote Unit

- One female HDMI connector.
- Two female USB Type A connectors for keyboard and mouse.
- One female RJ45 port for sending/receiving high definition video/audio and USB signals.

- Supported video resolutions:
  - Ultra-HD 4Kx2K resolutions (3840x2160 and 4096x2160 @ 30Hz)
  - HDTV resolutions to 1080p
  - Up to 1920x1200 (WUXGA)
- Supports HDCP 1.4
- Max data rate: 10.2Gbps
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

Dimensions

- WxDxH (in): 5.21x3.53x0.98 (132.37x89.7x24.9 mm)

Environmental

- Operating temperature: 32 to 140°F (0 to 60°C)
- Storage temperature: -40 to 158°F (-40 to 70°C)
- Operating relative humidity: 0 to 90% non-condensing RH.

Regulatory Approvals

- CE, FCC, RoHS

Warranty

- Two years
Max Distance
- Extend up to 328 feet (100 meters) using CAT6/6a/7 cable.
  • In a Point-to-Many or Many-to-Many connection, the max length between the switch and the local/remote unit is 164 feet (50 meters).

Cables
- 1-meter male USB Type A to male USB Type B interface cable included.
- Interface cables between the video source/display and the transmitter/receiver are required for proper operation.
  • Supports cable lengths to 20 feet.
  • Longer cable lengths can be used provided they have a built-in video equalizer (also known as “active HDMI cables”).
- Use HD-xx-MM cable to connect an HDMI source of display (not included).
- Use DVI-HD-xx-MM to connect DVI source or display (not included).
- Use HD-RM-xx-MM 4K HDMI RedMere Active Cables to connect an HDMI source of display up to 100 feet (not included).
  • Supports resolutions to 4K@30Hz.
- Use CAT6/6a/7 cable terminated with standard RJ45 connectors (not included).

Specifications (continued)

Low-Cost 4K HDMI USB KVM Extender Over IP – Transmitter & Receiver Set Models

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Power Cord Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST-IPUSB4K-LC</td>
<td>US NEMA 1-15P</td>
</tr>
<tr>
<td>ST-IPUSB4K-LCEU</td>
<td>Europlug CEE 7/16</td>
</tr>
<tr>
<td>ST-IPUSB4K-LCUK</td>
<td>UK BS1363</td>
</tr>
<tr>
<td>ST-IPUSB4K-LCAU</td>
<td>AS/NZS 3112</td>
</tr>
<tr>
<td>ST-IPUSB4K-LCUNV</td>
<td>US NEMA 1-15P with country-specific universal power plug adapter</td>
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Low-Cost 4K HDMI USB KVM Extender Over IP – Receiver Only Models

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Configuration and Cable Illustrations

Point-to-Point Connection

- HDMI USB PC/SUN/MAC
- Local 4K HDMI Display
- 4Kx2K
- CAT6/6a/7 Cable (up to 328 feet)
- 4K HDMI Display
- 4Kx2K
- AC Adapter
- ST-IPUSB4K-L-LC (Local Unit)
- ST-IPUSB4K-R-LC (Remote Unit)
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Configuration and Cable Illustrations

Many-to-Many Connections

Point-to-Many Connections

ST-IPUSB4K-L-LC (Local Unit)

ST-IPUSB4K-R-LC (Remote Units)

AC Adapter

AC Adapter

AC Adapter

AC Adapter

Managed Network Switch

Network Switch

= HD-xx-MM

= CAT6/6a/7 Cable

4Kx2K

4Kx2K

4Kx2K

4K HDMI Display

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