

# HDMI USB KVM Over IP Extender with Audio, RS232, and IR

XTENDEX®

## Extend HDMI monitor, Audio, USB keyboard, and USB mouse up to 330 feet using Gigabit Ethernet

- Supports HDTV resolutions to 1080p.
  - Extend 1080p up to 330 feet in a Point-to-Point connection.
  - Extend 1080p up to 660 feet in a Point-to-Point or Point-to-Many connection via a network switch.
- Supports USB 2.0 devices.
  - Keyboard and mouse are hot-pluggable.
  - Connect a mouse, keyboard, flashdrive, HDD, or touchscreen display.
- Full Infrared Remote (IR) control of HDMI source from remote HDTV using existing source remote control.
- Built-in default EDID configuration table.
- Support for multiple transmitters and receivers requires a managed network switch.
  - Distance between transmitter and receiver can be up to 660 feet when using a managed network switch (330 feet on each side).
  - Easily expandable – add receivers as you add control stations.
  - Identically configure dip switches on a transmitter and multiple receivers to link them together.
    - ♦ Simply press and hold the USB link button on a receiver for 3 seconds to gain USB control.
  - Cascade managed network switches to extend the distance between transmitter and receiver.
  - Up to 16 transmitters can be connected per individual network switch or between cascaded network switches.
- 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.
- When using multiple remote units, only one unit can have USB control over the source at any time.
  - Analog audio signals are transmitted via USB - a deactivated remote unit will continue to display video but does not provide analog sound or user control.
  - HDMI digital audio will still pass through as it is embedded in the video signal.
- Supports 2-way RS232 commands at baud rate 115200 (control software on a PC, or other automated control system hardware such as Control4 or Crestron) to control devices attached to the extender using RS232.
- Inexpensive CAT5e/6 cable replaces bulk video cables.
- HDCP compliant.
- Supports the DDC2B protocol.
- Compliant with the HDMI v1.2 standard.



**ST-IPUSBH-1G (Local & Remote)**

- **Extend 1080p video, audio, RS232, USB and IR control up to 330 ft via one CATx cable**
- **4 USB 2.0 connectors for keyboard, mouse flashdrive, HDD, or touchscreen display**
- **Supports Point-to-Point and Point-to-Many connections**

The XTENDEX® HDMI USB KVM Over IP Extender with Audio, RS232, and IR provides remote KVM (USB keyboard, USB mouse, and HDMI monitor) access to a USB computer up to 330 feet over a Gigabit network using a single CAT5e/6 cable. The extender consists of the ST-IPUSBH-L-1G local unit that connects to a computer and the ST-IPUSBH-R-1G remote unit that connects to an HDMI monitor, 3.5mm stereo audio speakers and microphone, and up to four USB devices (keyboard, mouse, flashdrive, HDD, or touchscreen 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.

## Control Methods

### Managed Ethernet Switch

- Compatible Managed Ethernet Switches (requires Gigabit for best results)
  - Cisco SG300 Gigabit Series (no stacking)
  - Cisco Catalyst 2960 Gigabit
  - Dell PowerConnect 5400 Series (5424, 5448)
  - Dell PowerConnect 5500 Series (5524, 5524P, 5548, 5548P)
  - Dell PowerConnect 6200 Series (6224, 6224P, 6248, 6248P)
  - Netgear 7000 Series V2 (GSM7224, GSM7228PS, GSM7248, GSM7252PS)
  - Packedge SW24-GBM, S24P

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## Specifications

### Local Unit (ST-IPUSBH-L-1G)

- One female HDMI connector.
- One female USB Type B connector.
- One female 3.5mm port for IR emitter.
- One female DB9 connector for RS232.
- One female 1 Gbps RJ45 port for sending/receiving high definition video/audio, USB and IR signals.
- Four dip switches for linking transmitters and receivers in a Point-to-Many connection.

### Remote Unit (ST-IPUSBH-R-1G)

- One female HDMI connector.
- Four female USB 2.0 Type A connectors for keyboard, mouse, flashdrive, HDD, or touchscreen display.
- One female DB9 connector for RS232.
- Two female 3.5mm stereo jacks for audio out and mic in.
- Built-in IR receiver.
- One female 1 Gbps RJ45 port for sending/receiving high definition video/audio, USB and IR signals.
- Four dip switches for linking transmitters and receivers in a Point-to-Many connection.
- Link button for disabling or gaining control of the source through USB.
- Supports HDTV resolutions to 1080p.
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

### RS232

- Supports TXD and RXD.
- Baud rate: 115200.
- Support for a touch screen monitor.

### Dimensions

- WxDxH (in): 7.09x4.33x0.98 (180x110x25 mm).

### Power

- Local and remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter.
- Power consumption:
  - ST-IPUSBH-L-1G: 5W
  - ST-IPUSBH-R-1G: 12W

### Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -4 to 140°F (-20 to 60°C).
- Operating/storage relative humidity: 20 to 90% non-condensing RH.

### Regular Approvals

- CE, RoHS.
- TAA compliant

### Warranty

- Two years

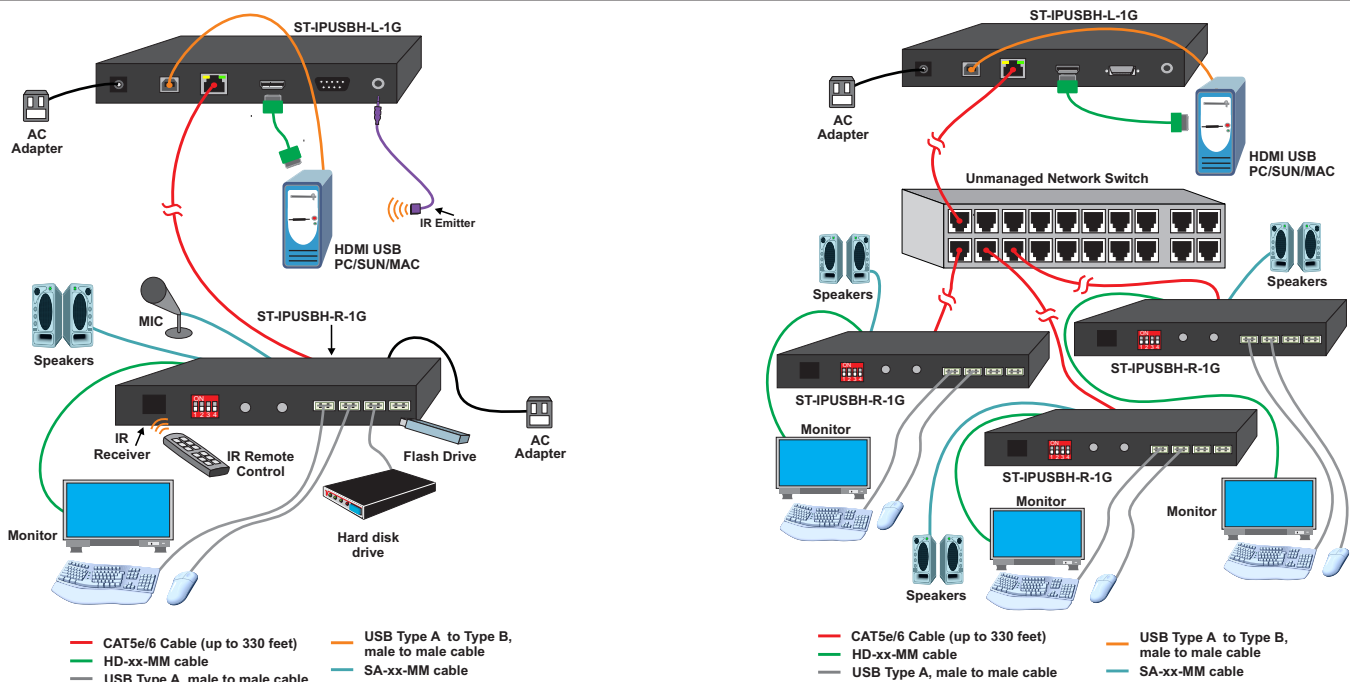
### Max Distance

- 330 feet (100 meters) over CAT5e/6 cable.

### Cables

- Use HD-xx-MM cable to connect an HDMI source or display (not included).
- Use DVI-HD-xx-MM cable to connect a DVI source or display (not included).
- Use USB Type A male to USB Type B male cable to connect a PC/notebook to the local unit (not included).
- Use CAT5e/6 straight through cable with TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included)

## Configuration and Cable Illustration



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