

# 4K 10.2Gbps HDMI USB KVM Extender via Two Singlemode/ Multimode Fiber Optic Cable

**XTENDEX®**

**Extend 4Kx2K @30Hz HDMI monitor, Audio, USB keyboard, and USB mouse up to 400 feet using Gigabit Ethernet. Create video walls up to 8x8 – 64 screens.**

- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 (30Hz), 2K resolution 2048x1080, HDTV resolutions to 1080p, and computer resolutions to 1920x1200.
  - Extend 4Kx2K up to 400 feet in a Point-to-Point connection.
  - Extend 4Kx2K up to 1,000 feet in a Point-to-Point or Point-to-Many connection via a Gigabit network switch.
    - ♦ The max length between the switch and the local/remote unit is 500 feet.
- The max length between the switch and the local/remote unit is 500 feet.
- Supports USB 2.0 devices.
  - Keyboard and mouse are hot-pluggable.
  - Connect a mouse, keyboard, flashdrive, HDD or touchscreen display.
- Supports video wall installations from 1x2 to 8x8 screens.
  - Displays can be rotated 90, 180 and 270°.
- Plug-and-Play installation allows receivers to find the transmitter automatically on the same network. (Network configuration may be required for managed network switch.)
- Full Infrared Remote (IR) control of HDMI source from remote HDTV using existing source remote control.
- Support for multiple transmitters requires a managed Gigabit network switch with VLAN/IGMP support. Standard LAN switches can only support one transmitter.
  - Each VLAN acts as a separate HDMI Over IP Channel on the network.
- When using multiple remote units, only one unit can have USB control over the source at any time.
- Manage transmitter/receiver connections and video wall configuration with built-in software.
- Supports 2-way RS232 commands (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.
- Customizable EDID table on local unit.
- HDCP compliant.
- Supports the DDC2B protocol.
- Easily expandable - add receivers as you add control stations.
- Integrated mounting brackets for easy surface/wall mounting.



**XTENDEX® ST-IPUSB4K-VW  
(Local & Remote Unit)**



- **Supports Point-to-Point and Point-to-Many connections.**
- **4 USB connectors for keyboard, mouse, flashdrive, HDD, or touchscreen display.**
- **Supports video wall installations from 1x2 to 8x8 screens.**
- **4Kx2K @30Hz**

The XTENDEX® 4K HDMI USB KVM Over IP Extender provides remote KVM (USB keyboard, USB mouse, and 4Kx2K HDMI monitor) access to a USB computer up to 400 feet (122 meters) over a Gigabit network using a single CAT5e/6 cable. The extender consists of the ST-IPUSB4K-L-VW local unit that connects to a computer and the ST-IPUSB4K-R-VW 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 CAT5e/6 cable or a Point-to-Many connection via a Gigabit network switch. Support for multiple transmitters requires a managed Gigabit network switch.

## Specifications

### RS232

- Supports TXD and RXD.
- Baud rate: 9600/14400/19200/38400/57600/115200.
- Support for a touch screen monitor.

### Power

- Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (US AC adapter included.)
  - Output: 12 VDC, 2A

### Dimensions

- WxDxH (in): 5.91x4.33x1.10 (150x110x28 mm).

### Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -4 to 185°F (-20 to 85°C).
- Operating/storage relative humidity: 0 to 80% non-condensing RH.

### Regulatory Approvals

- CE, FCC, RoHS
- TAA compliant

### Warranty

- Two years

### Max Distance

- 400 feet in a Point-to-Point connection.
- 1,000 feet in a Point-to-Point or Point-to-Many connection via a network switch.
  - The max length between the switch and the local/remote unit is 500 feet.

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## Specifications (continued)

### Local Unit

- Compatible with a USB computer (PC, SUN and MAC) with Ultra-HD HDMI output.
- Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- One female HDMI connector.
- One female USB Type B connector.
- Two female 3.5mm stereo jacks for audio out and mic in.
  - Microphone only works when in a point-to-point connection.
- One female 3.5mm port for IR emitter (sold separately).
- Screw terminal for RS232.
- One female 1 Gbps RJ45 port for sending/receiving high definition video/audio, USB and IR signals.

### Cables

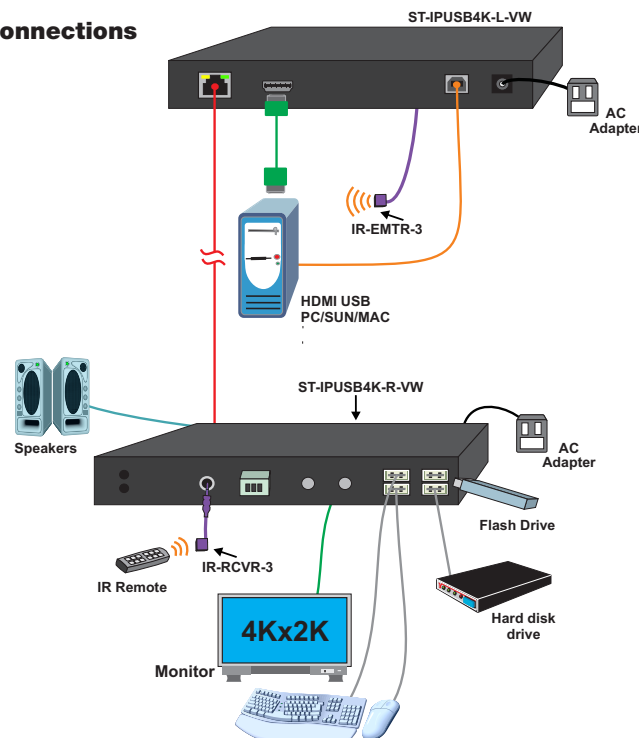
- Cables included with local unit:
  - One 4.25 ft (1.3 m) male to male HDMI cable.
  - One 6 ft (1.8 m) male USB Type A to male USB Type B cable.
  - One 5 ft (1.5 m) male to male 3.5mm stereo audio cable.
- Use CAT5e/6 straight through cable with TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included)
- IR emitter and receiver sold separately.

### Remote Unit

- One female HDMI connector.
- Four female USB Type A connectors for keyboard, mouse, flashdrive, HDD, or touchscreen display.
  - Two USB 2.0 and two USB 1.1
- Two female 3.5mm stereo jacks for audio out and mic in.
  - Microphone only works when in a point-to-point connection.
- One female 3.5mm port for IR receiver (sold separately).
- Screw terminal for RS232.
- One female 1 Gbps RJ45 port for sending/receiving high definition video/audio, USB and IR signals.
- Supported video resolutions:
  - Ultra-HD 4Kx2K resolutions (3840x2160 @ 30Hz)
  - 2K Cinema (2048x1080 @ 60Hz)
  - HDTV resolutions to 1080p
  - Computer resolutions to 1920x1200
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

## Configuration and Cable Illustration

### How to Configure Point-to-Point Connections



- CAT5e/6 Cable (up to 400 feet)
- HD-xx-MM cable
- USB Type A, male to male cable
- USB Type A to Type B, male to male cable
- SA-xx-MM cable

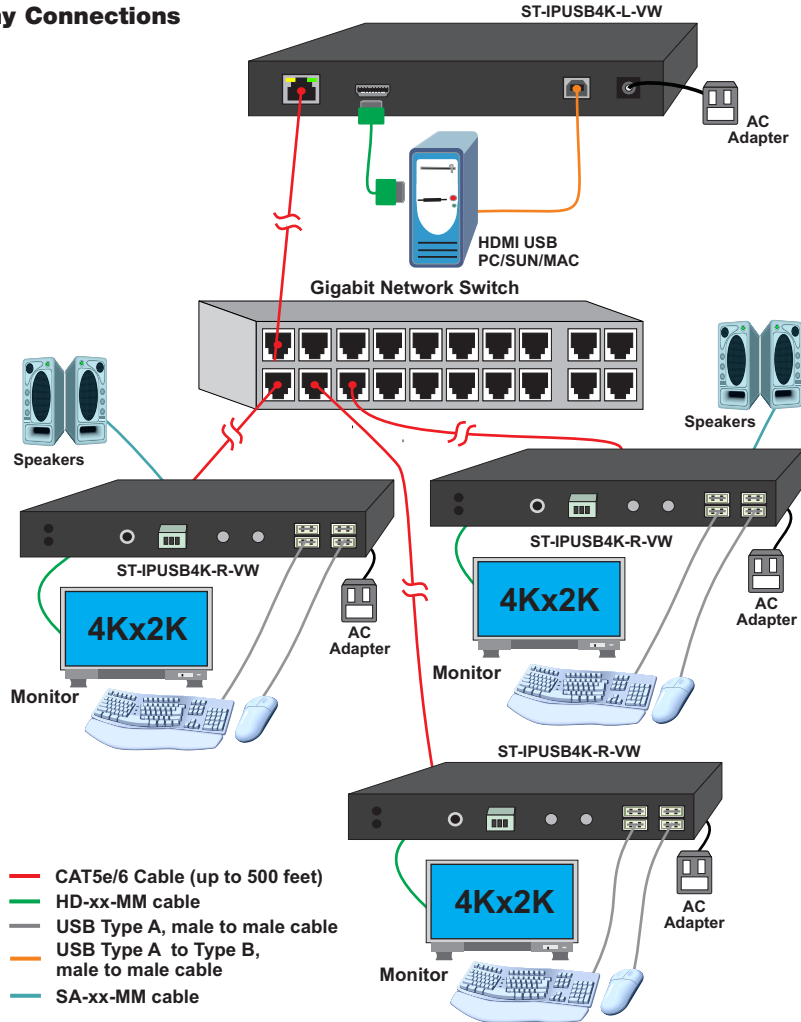
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## Configuration and Cable Illustration

### How to Configure Point-to-Many Connections



### 4K HDMI USB KVM Extender Over IP with Video Wall Support

NTI Part #	Local or Remote Unit
ST-IPUSB4K-L-VW	Local
ST-IPUSB4K-R-VW	Remote

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## Configuration and Cable Illustration

### How to Configure a Video Wall

