4K 18Gbps HDMI USB KVM Extender over HDBase-T with RS232 to 328 Feet

XTENDEX®

Extend Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI display, audio, USB keyboard/mouse, RS232, IR, and power up to 328 feet (100 meters) away from the source using HDBase-T technology

- Transmits an uncompressed high speed HDMI signal over one CAT6/6a/7 cable.
- Supports resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
  - Extend a 4Kx2K signal up to 328 feet (100 meters) with solid or stranded CAT6/6a/7 cable.
  - Extend a 1080p signal up to 492 feet (150 meters) with solid or stranded CAT6/6a/7 cable.
- HDMI features supported:
  - HDMI 2.0
  - Up to 36-bit Deep Color
  - RGB, YUV 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, Dolby Digital+, Dolby Atmos, Dolby Digital 2/5.1CH, LPCM 2/5.1/7.1CH, LPCM 2CH, LPCM 5.1, DTS 5.1, DTS:X, and DTS 2/5.1CH.
  - Bandwidth up to 600 MHz (18 Gbps)
  - Support for CEC (consumer electronic control) compatible devices.
  - HDR10
- HDCP 2.2 and 1.4 compliant.
- Local unit provides local KVM access.
- Bi-directional Infrared Remote (IR) control of HDMI source or display. IR transport channel can be forward or backward per the installation.
- Supports full-duplex RS232 up to 115200 baud.
- USB 2.0 ports for keyboard, mouse, flash drive, web camera, or touchscreen display.
  - Compliant with USB 2.0 (low/full/high speed) standards.
  - Use a USB hub to extend multiple USB devices.
- Only one power supply is necessary to power both the local and remote units.
- Use the DIP switch on the receiver to extract the digital HDMI audio signal and convert it to 2-channel analog stereo audio or multi-channel SPDIF digital audio.
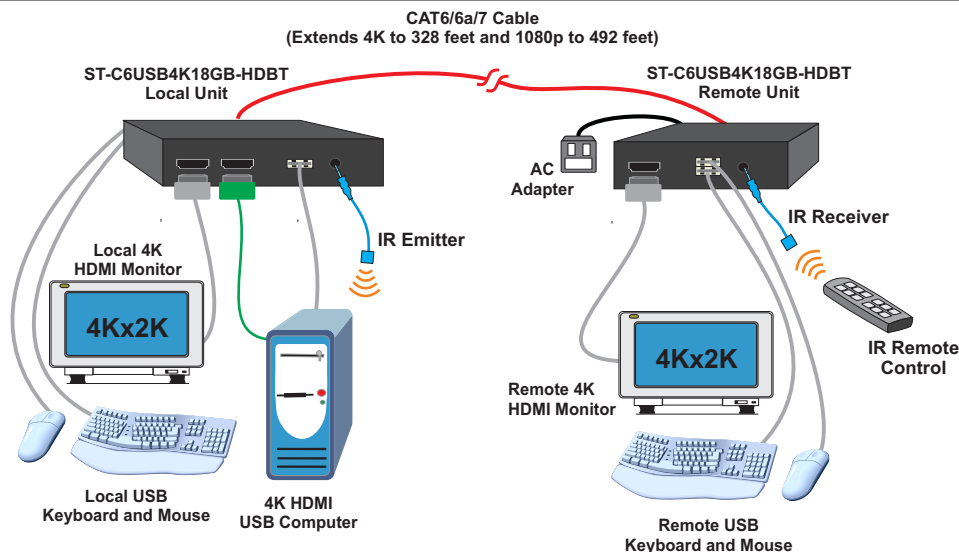

DIGITAL SIGNAGE

ST-C6USB4K18GB-HDBT
(Local and Remote Units)

- **Extend Ultra-HD 4Kx2K to 328 feet & 1080p to 492 feet**
- **18Gbps bandwidth**
- **HDMI 2.0**
- **Only one power supply required**
- **Local and remote KVM access**

The XTENDEX® 4K 18Gbps HDMI USB KVM Extender over HDBase-T with RS232 transmits uncompressed digital Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI signal, USB, IR, RS232, and power up to 328 feet over a single CATx cable using HDBase-T technology. Each extender consists of a local unit that connects to a computer and provides local keyboard, monitor and mouse connections; and a remote unit that connects to a keyboard, monitor and mouse.

Configuration and Cable Illustrations

CAT6/6a/7 Cable
(Extends 4K to 328 feet and 1080p to 492 feet)

ST-C6USB4K18GB-HDBT Local Unit

ST-C6USB4K18GB-HDBT Remote Unit

AC Adapter

IR Emitter

IR Receiver

Local 4K HDMI Monitor

4Kx2K

IR Remote Control

Remote 4K HDMI Monitor

4Kx2K

Local USB Keyboard and Mouse

4K HDMI USB Computer

Remote USB Keyboard and Mouse

NETWORK TECHNOLOGIES INCORPORATED

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Extend Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI display, audio, USB keyboard/mouse, RS232, IR, and power up to 328 feet (100 meters) away from the source using HDBase-T technology

Specifications

Local Unit

- **Host Connection**
  - Compatible with a USB computer or HDTV video source with HDMI output.
  - Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012/2016, Solaris, Linux, FreeBSD, and MAC OS 9/10.
  - One female HDMI connector.
  - One female USB Type B connector.
  - 3-pin screw terminal for RS232.
    - Support full-duplex RS232 up to 115200 baud.
  - Two female 3.5mm ports for connecting an IR emitter and receiver (included).
  - One female RJ45 port for sending/receiving UHD video, USB, audio, RS232, IR, and power signals.
  - One female Micro USB Type B for updating firmware.
  - Supports HDCP 2.2/1.4.
  - DIP switch to select 4Kx2K or 1080p resolution transmission to remote display.
  - Dip switch to copy EDID from local or remote displays.
- **Local Access**
  - Supports resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
  - One female HDMI connector.
  - Two female USB Type A connectors.

Remote Unit

- Supports resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
- One female HDMI connector for display.
- Two female USB Type A connectors for connecting USB keyboard, mouse, flash drive, web camera, or touchscreen display.
  - Compliant with USB 2.0 (low/full/high speed) standards.
  - Use a USB hub to extend multiple USB devices.
- One female Micro USB Type B for updating firmware.
- 3-pin screw terminal for RS232.
  - Support full-duplex RS232 up to 115200 baud.
- One female 3.5mm port for stereo audio.
- Two female 3.5mm ports for connecting an IR emitter and receiver (included).
- One RCA jack for SPDIF digital audio.
- One female RJ45 port for sending/receiving UHD video, USB, audio, RS232, IR, and power signals.
- DIP switch to select 4Kx2K or 1080p resolution transmission from the source.
- DIP switch to extract the digital HDMI audio signal and convert it to 2-channel analog stereo audio or multi-channel SPDIF digital audio.
- Supports HDCP 2.2/1.4.
- Max data rate: 18Gbps.

Dimensions

- WxDxH (in): 6.79x4.46x0.94 (172x113x24 mm)

Power

- Powered from a single power supply attached to either the local or remote unit.
- Local or remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter.
- Output: 24VDC, 1A
- Power consumption: 14W (max)

Environmental

- Operating temperature: 23 to 104°F (-5 to 40°C).
- Operating/storage relative humidity: 5 to 90% non-condensing RH.

Regulatory Approvals

- CE, FCC, RoHS

Warranty

- Two years

Max Distance

- Extend a 4Kx2K signal up to 328 feet (100 meters) with solid or stranded CAT6/6a/7 cable.
- Extend a 1080p signal up to 492 feet (150 meters) with solid or stranded CAT6/6a/7 cable.

Cables

- Interface cables between the source/display and the transmitter/receiver are required for proper operation.
  - Supports cable lengths to 20 feet for 4Kx2K resolutions and 50 feet for 1080p.
  - Longer cables 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 or display (not included).
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet.
  - HD-ACT-20/25/30/40/50/60-MM supports resolutions to 4K@60Hz (18 Gbps).
  - HD-ACT-75/100-MM supports resolutions to 4K@30Hz (10.2 Gbps).
- Use DVI-HD-xx-MM cable to connect a DVI source or display (not included).
  - Does not support 4Kx2K resolutions.
- Use CAT6/6a/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).
  - Extend a 4Kx2K signal up to 328 feet (100 meters) with solid or stranded CAT6/6a/7 cable.
  - Extend a 1080p signal up to 492 feet (150 meters) with solid or stranded CAT6/6a/7 cable.
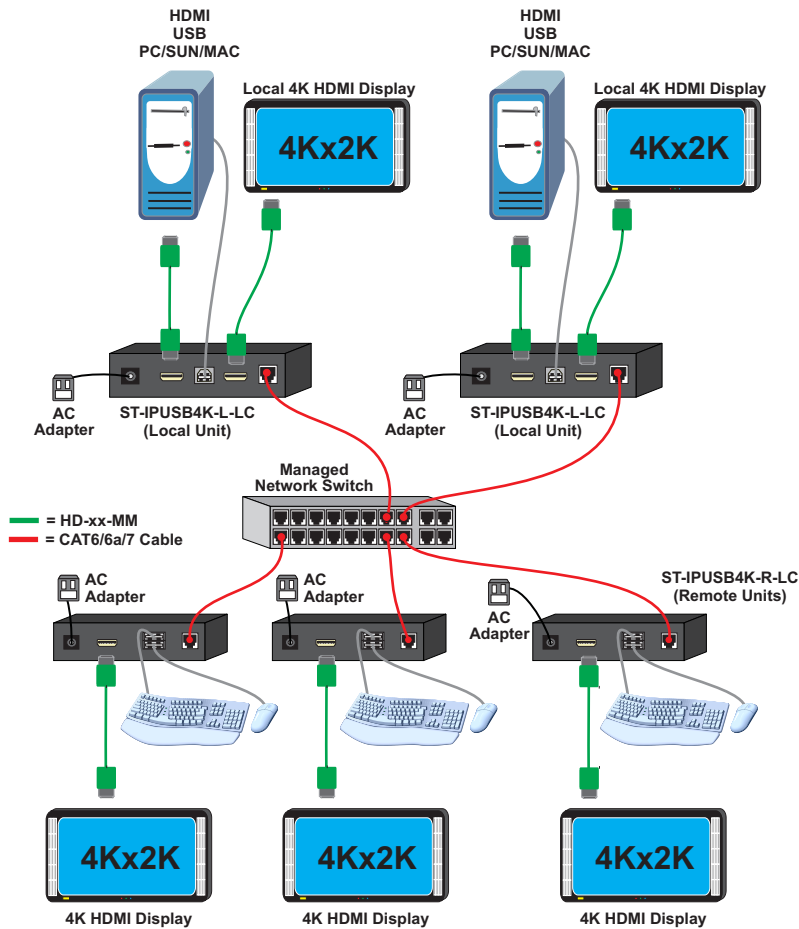- Male USB Type A to male USB Type B interface cable included.

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

Configuration and Cable Illustrations

Many-to-Many Connections

HDMI
USB
PC/SUN/MAC

Local 4K HDMI Display

4Kx2K

HDMI
USB
PC/SUN/MAC

Local 4K HDMI Display

4Kx2K

AC Adapter

ST-IPUSB4K-L-LC (Local Unit)

AC Adapter

ST-IPUSB4K-L-LC (Local Unit)

Managed Network Switch

 = HD-xx-MM
 = CAT6/6a/7 Cable

AC Adapter

AC Adapter

AC Adapter

ST-IPUSB4K-R-LC (Remote Units)

4Kx2K
4K HDMI Display

4Kx2K
4K HDMI Display

4Kx2K
4K HDMI Display

Point-to-Many Connections

HDMI
USB
PC/SUN/MAC

Local 4K HDMI Display

4Kx2K

AC Adapter

ST-IPUSB4K-L-LC (Local Unit)

Network Switch

 = HD-xx-MM
 = CAT6/6a/7 Cable

AC Adapter

AC Adapter

AC Adapter

ST-IPUSB4K-R-LC (Remote Units)

4Kx2K
4K HDMI Display

4Kx2K
4K HDMI Display

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