

# 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 CAT6/6a/7 cable.
  - Extend a 1080p signal up to 492 feet (150 meters) with solid 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 ports for keyboard and mouse.
  - Keyboard and mouse are hot-pluggable.
- 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.

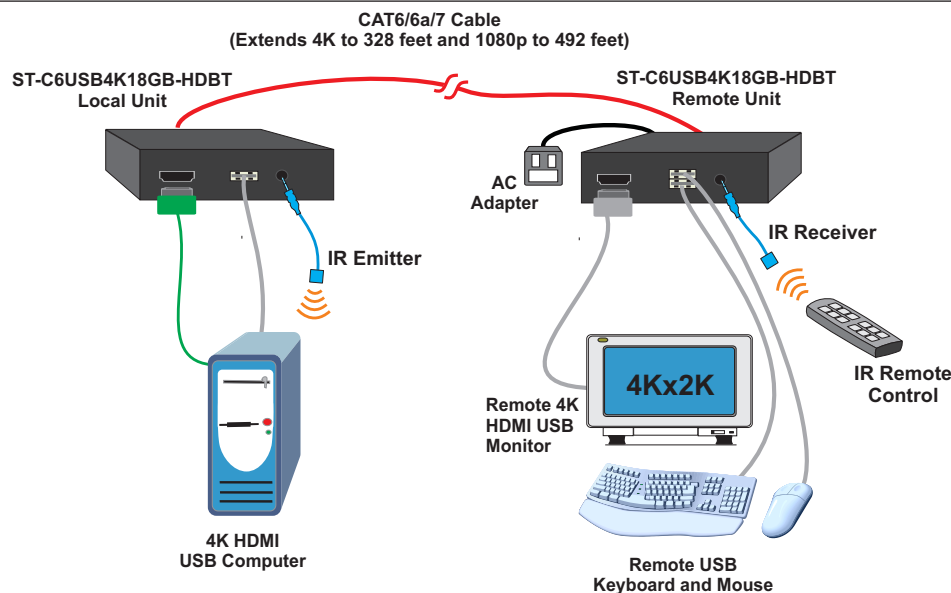


**ST-C6USB4K18GB-HDBT  
(Local and Remote Units)**

- **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



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## 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.
- 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 CAT6/6a/7 cable.
- Extend a 1080p signal up to 492 feet (150 meters) with solid 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 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 CAT6/6a/7 cable.
  - Extend a 1080p signal up to 492 feet (150 meters) with solid CAT6/6a/7 cable.
- Male USB Type A to male USB Type B interface cable included.