4K HDMI Extender over HDBase-T with USB and RS232
XTENDEX®

Extend a 4Kx2K HDMI display, USB 2.0 device and RS232 up to 328 feet away from the source.

- Transmits an uncompressed high speed HDMI signal over one CAT5e/6/7 cable.
- Supports Ultra-HD 4Kx2K resolutions to 3840x2160, 2K resolution 2048x1080, HDTV resolutions to 1080p, and computer resolutions to 1920x1200.
  - 3840x2160 at 60Hz, 4:2:0
  - 3840x2160 at 30Hz, 4:4:4
- HDMI features supported:
  - x.v.Color, sYCC601 color, Adobe RGB Color and Adobe YCC601 color
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, and DTS
  - Bandwidth up to 340 MHz (10.2 Gbps).
  - Support for CEC (consumer electronic control) compatible devices.
  - 3D
  - Lip Sync
- HDCP compliant.
- Supports the DDC2B protocol.
- USB 2.0 port for keyboard, mouse, flash drive, HDD, or touchscreen display.
- Compliant with USB 2.0 (low/full/high speed) standards.
- Use a USB hub to extend multiple USB devices.
- Supports full-duplex RS232 up to 115200 baud.
- Compact size.
- Optional mounting bracket for easy surface/wall mounting.

XTENDEX® ST-C6USB4K-HDBT (Local & Remote Unit)

The XTENDEX® 4K HDMI Extender over HDBase-T with USB and RS232 transmits uncompressed digital 4Kx2K HDMI signal, USB and RS232 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 a remote unit that connects to a UHD HDMI display and USB 2.0 device.

Specifications

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 Mini B connector.
- 3-pin screw terminal for RS232.
- One female RJ45 port for sending/receiving UHD video, audio, USB, RS232 and DDC signals.

Local Access

- Crisp and clear 1920x1440 video resolution.
- Female 15-pin HD connector for local VGA monitor.
- Video signal to noise ratio: >55dB
- Distortion: 65dB at 5MHz
- Optional RS232 support - male 9-pin D connector.
- Optional stereo audio support - 3.5 mm stereo jack.
- Local VGA monitor not available on 2-port local units, ST-2C5V-L-600.

Dimensions

- WxDxH (in): 1.73x2.87x0.98 (44x73x25mm)

Power

- Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (US AC adapter included.)
  - Output: 5VDC, 2A

Regulatory Approvals

- RoHS
- TAA compliant.

Remote Unit

- One female HDMI connector for display.
- One female USB Type Mini B connector for connecting USB keyboard, mouse, flash drive, HDD, or touchscreen display.
  - Use a USB hub to extend multiple USB devices.
- 3-pin screw terminal for RS232.
  - Support full-duplex RS232 up to 115200 baud.
- Supported video resolutions:
  - Ultra-HD 4Kx2K resolutions
- 3840x2160 at 60Hz, 4:2:0
- 3840x2160 at 30Hz, 4:4:4
  - 2K Cinema (2048x1080 at 60Hz)
  - HDTV resolutions to 1080p
  - Computer resolutions to 1920x1200
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -4 to 167°F (-20 to 75°C).
- Operating and storage relative humidity: 5 to 95% non-condensing RH.

Max Distance

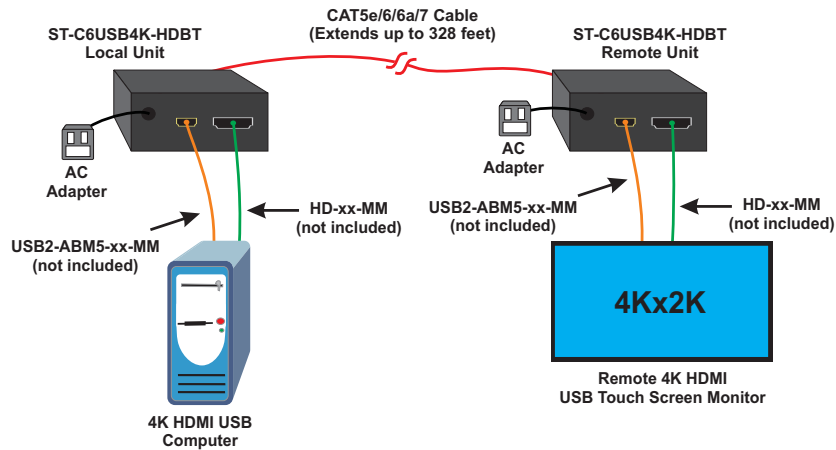- 328 feet (100 meters) over CAT5e/6/7 cable.

Cables

- Use HD-xx-MM to connect an HDMI source or display.
  - Max HDMI cable length: 30 feet.
- Use CAT5e/6/6a/7 solid straight through cables for TIA/EIA 568B wiring terminated with standard RJ45 connectors.
- Cables not included.

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Extend a 4Kx2K HDMI display, USB 2.0 device and RS232 up to 328 feet away from the source.

Configuration and Cable Illustration

Options

VESA Mounting Bracket

- Use to mount the remote unit to the back of a flat panel monitor.
- Compliant to VESA 75 and 100 mm (3 and 3.9 in) mounting hole patterns.

Distances & Computer Resolutions for CAT5e/6/6a/7 Cables		
Cable	Distance (ft)	Maximum Standard Resolution
CAT5e	328 feet (100 meters)	1080p at 60Hz
	295 feet (90 meters)	3840x2160 at 60Hz, 4:2:0 3840x2160 at 30Hz, 4:4:4
CAT6/6a/7	328 feet (100 meters)	3840x2160 at 60Hz, 4:2:0 3840x2160 at 30Hz, 4:4:4

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