

# 4K 18Gbps HDMI USB KVM Extender via Two LC Singlemode Fiber Optic Cable

XTENDEX®

Extend an Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI monitor, USB keyboard, USB mouse, RS232, and IR up to 6,561 feet (2000 meters)



- Signal transmission via two-strand singlemode LC fiber optic cable.
  - Extend HDCP-encrypted video signal up to 1,640 feet (500 meters).
  - Extend unencrypted video signal up to 6,561 feet (2000 meters).
- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 and 4096x2160 @60Hz YUV 4:4:4, and HDTV resolutions to 1080p @144Hz.
- HDMI features supported:
  - HDMI 2.0
  - RGB, YCbCr 4:4:4, YCbCr 4:2:2, and YCbCr 4:2:0
  - Dolby TrueHD, LPCM 7.1, DTS-HD Master Audio, ATMOS, and DTS:X
  - Up to 48-bit Deep Color
  - Bandwidth up to 600 MHz (18Gbps)
  - 3D
  - HDR
- HDCP 2.2 compliant.
- USB ports for keyboard, mouse, and touch screen.
  - Keyboard and mouse are hot-pluggable.
- Use the DIP switch on the transmitter and receiver to select the USB, IR, and RS232 extension functions.
  - Only one function can be used at a time.
- 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.
- Integrated mounting brackets for easy surface/wall mounting.

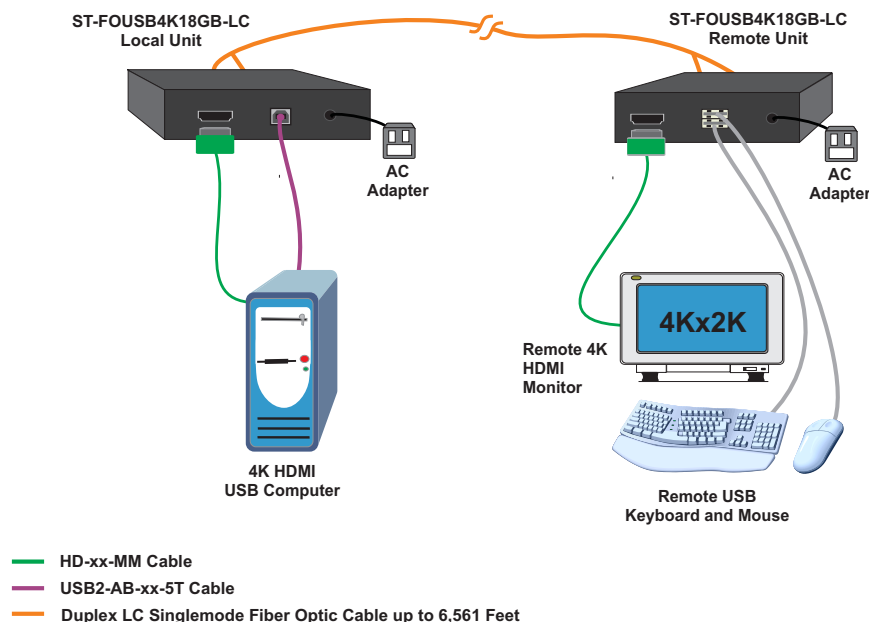


**ST-FOUSB4K18GB-LC**  
(Remote and Local Units)

- Resolutions to Ultra-HD 4Kx2K 60Hz 4:4:4
- 18Gbps bandwidth
- HDMI 2.0
- IR, RS232 control

The XTENDEX® 4K 18Gbps HDMI USB KVM Extender via Fiber provides remote KVM (USB keyboard, USB mouse and 4Kx2K UHD HDMI monitor) access to a USB computer up to 6,561 feet (2000 meters) away via a duplex singlemode LC fiber optic cable. Each KVM extender consists of a local unit that connects to an Ultra-HD 4Kx2K 60Hz 4:4:4 computer, and a remote unit that connects to a keyboard, monitor and mouse.

## Configuration and Cable Illustrations



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## Specifications

### Local Unit

- Compatible with a USB computer (PC or MAC) with Ultra-HD HDMI output.
- Multiplatform support: Windows XP/7/10, Linux, and MAC OS 10.
- One female HDMI connector.
- One female USB Type B connector.
- Two female 3.5mm ports for connecting an IR emitter and receiver (included).
  - IR frequency: 30KHz to 60KHz
- Female DB9 connector for RS232.
- One duplex female LC fiber optic port for sending/receiving video/audio, USB, and RS232 signals.
- DIP switch for selecting between USB, IR, and RS232 extension functions.
  - Only one function can be used at a time.

### Remote Unit

- One female HDMI connector for display.
- Two female USB Type A connectors for connecting USB keyboard, mouse, or touch screen.
  - No other types of USB devices are supported.
- Two female 3.5mm ports for connecting an IR emitter and receiver (included).
  - IR frequency: 30KHz to 60KHz
- Male DB9 connector for RS232.
  - Supports full-duplex RS232 up to 115200 baud.
- One duplex female LC fiber optic port for sending/receiving video/audio, USB, and RS232 signals.
- DIP switch for selecting between USB, IR, and RS232 extension functions.
  - Only one function can be used at a time.
- Supported video resolutions:
  - Ultra-HD 4Kx2K60Hz 4:4:4 resolutions (4096x2160 and 3840x2160 @30/50/60Hz)
  - HDTV resolutions to 1080p (1080p@120Hz, 1080p 3D@60Hz).
- Supports HDCP 2.2 and 1.4
- Max data rate: 18Gbps

### Power

- Local and remote unit:
  - Input: 100 to 240 VAC at 50 to 60 Hz via AC adapter.
  - Output: 5VDC, 2A
  - Power consumption: 5W

### Max Distance

- Extending unencrypted video signal: 6,561 feet (2000 meters) over 9µm singlemode duplex LC fiber optic cable.
- Extending HDCP-encrypted video signal: 1,640 feet (500 meters) over 9µm singlemode duplex LC fiber optic cable.

### Cables

- Interface cables between the source/display and the transmitter/receiver are required for proper operation.
  - Supports cable lengths to 20 feet for 4K@60Hz resolutions, and lengths to 50 feet for 1080p@60Hz using passive HDMI cables.
  - 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.
  - HD-3/6/10/15-MM supports resolutions to 4K@60Hz.
  - HD-25/30/50-MM supports resolutions to 1080p@60Hz.
- Use HD-ACT-xx-MM 4K HDMI Active cables to connect an HDMI source or display.
  - HD-ACT-20/25/30/40/50/60-MM supports resolutions to 4K@60Hz.
  - HD-ACT-75/100-MM supports resolutions to 1080p@60Hz.
- Use DVI-HD-xM-MM to connect a DVI source or display.
  - Supports resolutions to 1080p@60Hz.
- Use USB2-AB-x-5T male USB Type A to male USB Type B cable to connect USB source.
- Use a duplex singlemode LC fiber optic cable to extend the receiver from the transmitter up to 6,561 feet (2000 meters).
  - Does not support multimode fiber optic cable.
- Cables not included.

### Dimensions

- WxDxH (in): 4.31x4.69x1.18 (110x119x30 mm)

### Environmental

- Operating temperature: 14 to 113°F (-10 to 45°C).
- Storage temperature: -22 to 158°F (-30 to 70°C).
- Operating and storage relative humidity: up to 95% non-condensing RH.

### Regulatory Approval

- CE, RoHS

### Warranty

- Two years