Dual Monitor 4K 10.2Gbps HDMI USB KVM Extender with Video Wall Support Over IP via Two Duplex LC Singlemode Fiber Optic Cables
XTENDEX®

Extend two Ultra-HD 4Kx2K 30Hz HDMI monitors, audio, USB keyboard, and USB mouse up to 12.4 miles (20 km)

- Signal transmission via four-strand singlemode 9-micron LC fiber optic cable up to 12.4 miles (20 km).
- Supports Ultra-HD 4Kx2K resolutions to 3840x2160 (30Hz), 2K resolution 2048x1080, HDTV resolutions to 1080p, and up to 1920x1200 (WUXGA).
- HDMI features supported:
  - HDMI 1.4
  - x.v.Color, sYCC601 color, Adobe RGB Color and Adobe YCC601 color
  - Dolby TrueHD, LPCM 7.1, DTS-HD Master Audio, Dolby Digital, and DTS
  - Bandwidth up to 340 MHz (10.2 Gbps)
  - Lip Sync
- HDCP 1.4 compliant.
- USB ports for keyboard, mouse, flash drive, HDD or touchscreen display.
  - Four USB 2.0 and four USB 1.1 connectors.
  - Keyboard and mouse are hot-pluggable.
- Supports video wall installations from 1x2 to 4x4 screens.
  - Displays can be rotated 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 SFP switch.)
- Support for Point-to-Many or Many-to-Many connections requires a managed Gigabit SFP switch with IGMP support and Jumbo frame support.
  - Manage transmitter/receiver connections and video wall configuration with web interface or network switch that supports VLAN.
    - Each VLAN group acts as a separate HDMI Over IP Channel on the network.
- When using multiple remote units, there are two USB control modes – Exclusive Mode and Sharing Mode.
  - USB Exclusive Mode: Only one remote unit can have USB control over the source computer at any time.
  - USB Sharing Mode: Multiple remote units share the control of the source computer.
    - Up to 5 USB devices will be recognized by the computer.
- Customizable EDID table on local unit.
- Supports the DDC2B protocol.
- Easily expandable – add receivers as you add control stations.
- Integrated mounting brackets for easy surface/wall mounting.

**XTENDEX® ST-IPFOUSB4K-LCDH-V2
(Local & Remote Units)**

- **Dual Head**
- **Supports Point-to-Point, Point-to-Many, and Many-to-Many connections.**
- **8 USB connectors for keyboard, mouse, flashdrive, HDD, or touchscreen display.**
- **Supports video wall installations from 1x2 to 4x4 screens.**

The XTENDEX® Dual Monitor 4K 10.2Gbps HDMI USB KVM Extender over IP via Fiber provides remote KVM (USB keyboard, USB mouse and two 4Kx2K 30Hz UHD HDMI monitors) access to a dual-head USB computer up to 12.4 miles (20 km) away via two duplex LC singlemode fiber optic cables.

Each KVM extender consists of a local unit that connects to a dual-head computer and also supplies video to two local monitors, and a remote unit that connects to two HDMI monitors, 3.5mm stereo audio speakers and microphone, and up to eight USB devices (keyboard, mouse, flash drive, HDD, or touchscreen display).

The local and remote units can be connected together for a Point-to-Point connection via fiber cable, or a Point-to-Many or Many-to-Many connection via a managed Gigabit SFP switch.

NOTE: The top layer of the transmitter(s) only pairs with the top layer of the receiver(s), and the bottom layer of the transmitter(s) only pairs with the bottom layer of the receiver(s). For example, the top and bottom layers of one receiver unit cannot display the same video from a single video source connected to a transmitter.

Dual Monitor 4K 10.2Gbps HDMI USB KVM Extender with Video Wall Support Over IP via Two Duplex LC Singlemode Fiber Optic Cables

XTENDEX®

Extend two Ultra-HD 4Kx2K 30Hz HDMI monitors, audio, USB keyboard, and USB mouse up to 12.4 miles (20 km)

Specifications

Local Unit

- Compatible with a dual-head USB computer (PC, SUN and MAC) with Ultra-HD HDMI output.
- Multiplatform support: Windows 7/8/10, Windows Server 2008/2012/2016/2019, Solaris, Linux, FreeBSD, and MAC OS 10/11.
- Two female HDMI connectors for source.
- Two female HDMI connectors for displays.
- Two female USB Type B connector.
- Four female 3.5mm stereo jacks for audio out and mic in.
    - Speaker only works when in a point-to-point connection.
- Two female 3.5mm ports for IR emitter (sold separately).
- Screw terminals for RS232. (Not supported at this time.)
- Two duplex female LC fiber optic port for sending video/audio and USB signals.

Remote Unit

- Two female HDMI connectors.
- Eight female USB Type A connectors for keyboard, mouse, flash drive, HDD, or touchscreen display.
    - Four USB 2.0 and four USB 1.1
- Four female 3.5mm stereo jacks for audio out and mic in.
    - Microphone only works when in a point-to-point connection.
- Two female 3.5mm ports for IR receiver (sold separately).
- Screw terminals for RS232. (Not supported at this time.)
- Two duplex female LC fiber optic port for sending video/audio and USB signals.
- Supported video resolutions:
    - Ultra-HD 4Kx2K resolutions (3840x2160 @ 30Hz)
    - 2K Cinema (2048x1080 @ 60Hz)
    - HDTV resolutions to 1080p
    - Up to 1920x1200 (WUXGA)
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

Dimensions

- WxDxH (in): 6.3x4.33x1.99 (160x110x51 mm).

Power

- Local and remote unit:
    - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter (included.)
    - Output: 12 VDC, 5A
- Power consumption (max):
    - Local unit: 14.4W
    - Remote unit: 33.6W

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

- Using singlemode 9-micron cable, extend to 12.4 miles (20 km).

Cables

- Cables included with local unit:
    - Two 6.56 ft (2 m) male to male HDMI cables.
    - 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 HD-xx-MM HDMI cables to connect an HDMI source or display up to 20 feet (not included).
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet (not included).
- Use DP-HD-xx-MM cables to connect a DisplayPort source (not included).
- Use DVI-HD-xx-MM cables to connect a DVI source or display (not included).
    - Does not support 4Kx2K resolutions.
- Use two duplex singlemode LC 9-micron fiber optic cable to extend the receiver from the transmitter up to 12.4 miles (20 km).

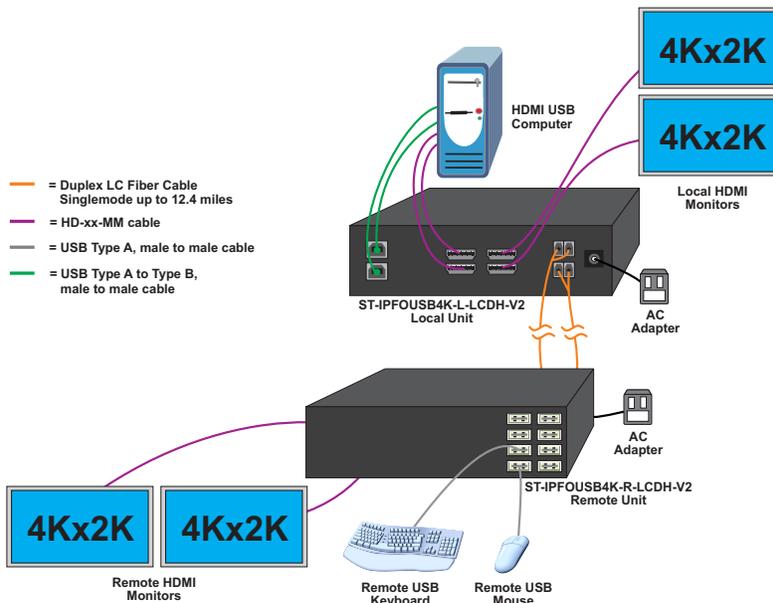| Dual Monitor 4K 10.2Gbps HDMI USB KVM Extender with Video Wall Support Over IP via Two Duplex LC Singlemode Fiber Optic Cables	
NTI Part #	Local or Remote Unit
ST-IPFOUSB4K-L-LCDH-V2	Local
ST-IPFOUSB4K-R-LCDH-V2	Remote

Dual Monitor 4K 10.2Gbps HDMI USB KVM Extender with Video Wall Support Over IP via Two Duplex LC Singlemode Fiber Optic Cables

XTENDEX®

Extend two Ultra-HD 4Kx2K 30Hz HDMI monitors, audio, USB keyboard, and USB mouse up to 12.4 miles (20 km)

Configuration and Cable Illustrations

Point-to-Point Connection

= Duplex LC Fiber Cable Singlemode up to 12.4 miles

= HD-xx-MM cable

= USB Type A, male to male cable

= USB Type A to Type B, male to male cable

4Kx2K / 4Kx2K — HDMI USB Computer — Local HDMI Monitors

ST-IPFOUSB4K-L-LCDH-V2 Local Unit — AC Adapter

ST-IPFOUSB4K-R-LCDH-V2 Remote Unit — AC Adapter

4Kx2K / 4Kx2K — Remote HDMI Monitors

Remote USB Keyboard — Remote USB Mouse

Point-to-Many Connections

= Duplex LC Fiber Cable Singlemode up to 12.4 miles

= HD-xx-MM cable

= USB Type A, male to male cable

= USB Type A to Type B, male to male cable

4Kx2K / 4Kx2K — HDMI USB Computer — Local HDMI Monitors

ST-IPFOUSB4K-L-LCDH-V2 Local Unit — AC Adapter

Managed Gigabit SFP Switch

ST-IPFOUSB4K-R-LCDH-V2 Remote Unit — AC Adapter

ST-IPFOUSB4K-R-LCDH-V2 Remote Unit — AC Adapter

4Kx2K / 4Kx2K — Remote HDMI Monitors — Remote USB Keyboard — Remote USB Mouse

4Kx2K / 4Kx2K — Remote HDMI Monitors — Remote USB Keyboard — Remote USB Mouse

ST-IPFOUSB4K-R-LCDH-V2 Remote Unit — AC Adapter

4Kx2K / 4Kx2K — Remote HDMI Monitors — Remote USB Keyboard — Remote USB Mouse

NETWORK TECHNOLOGIES INCORPORATED

1.800.RGB.TECH (800.742.8324)
Toll Free: US & Canada

330.562.7070
International calls

330.562.1999
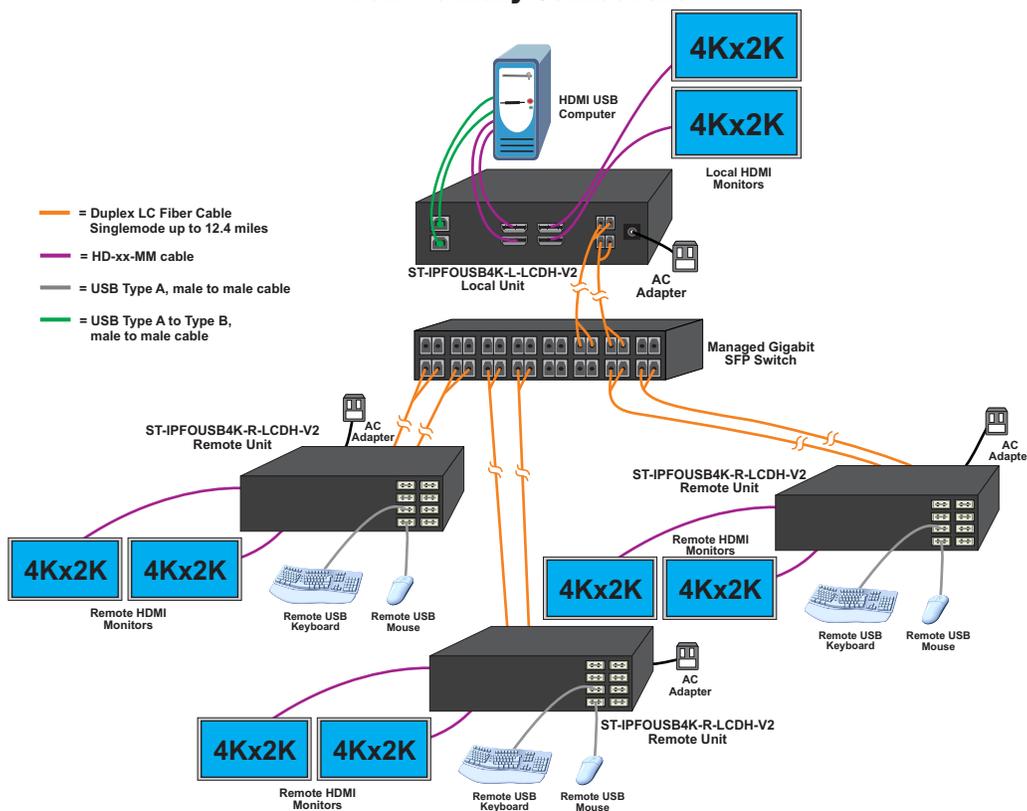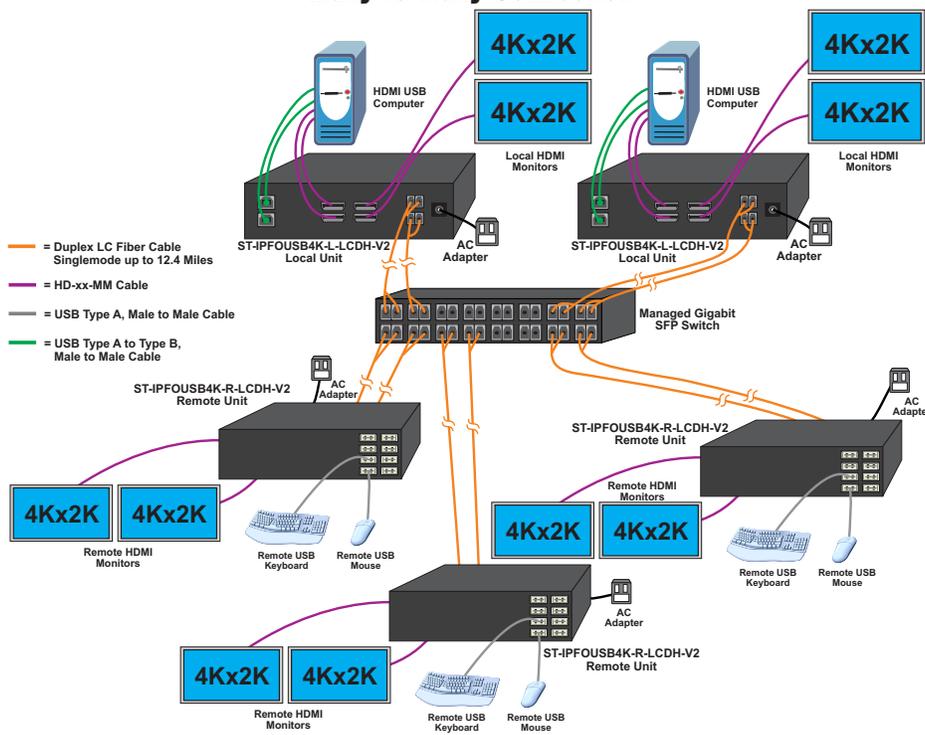Worldwide fax

sales@ntigo.com
www.networktechinc.com

Extend two Ultra-HD 4Kx2K 30Hz HDMI monitors, audio, USB keyboard, and USB mouse up to 12.4 miles (20 km)

Configuration and Cable Illustrations

Many-to-Many Connection

How to Configure a Video Wall