



## Two PCs Switchable Dual-head DVI Optical KVM Extender, KVMX-100-TR

### Description

Dual-head DVI optical KVM extender, KVMX-100-TR is designed to extend Dual DVI outputs with keyboard, mouse and bi-directional audio. But the key feature of 2:1 KVM switch function inside KVMX-100-TR enables users to select one PC between two (2) PCs as a host.

KVMX-100-TR transmits DVI, USB HID, RS232 and bi-directional stereo audio signal up to 1.0km (3,280feet) over two (2) duplex LC single-mode fibers or 300m (985feet) over two (2) duplex LC multi-mode fibers.

Designed for high resolution performance, it guarantees lossless image quality and no frame dropping to deliver perfect graphic data transmission up to WUXGA (1,920x1,200) at 60Hz.

It provides Auto-mix EDID programming feature that reads EDID information from both local and remote side displays and then determines the lowest resolution of them. It makes the installation of KVMX-100-TR easy and flexible at any variable resolution

Optionally, we could include convenient remote console switch for selecting local control or remote control.

### Specification

- Switches and Controls Two (2) PCs – 2:1 KVM switch function
- Supports two (2) single-link DVI displays up to WUXGA (1,920x1,200) resolution at 60Hz.
- Transmits DVI, USB HID, RS232 and audio signal up to 1km (3,280feet) over two (2) duplex LC optical fibers.
- Operates with both single and multi-mode optical fibers.
  - Up to 1.0km (3,280feet) with two (2) duplex LC single-mode fibers.
  - Up to 300m (985feet) with two (2) duplex LC multi-mode fibers.
- Offers DVI, USB Loop through ports for Local two (2) displays and Keyboard / Mouse.
- Supports bi-directional stereo audio.
- Lossless Image Quality, with no Frame Dropping.
- USB HID ports for keyboard and mouse
- Provides Serial Control Data: RS232C through 9 pin D-sub connector.
- Auto-mix EDID feature
- Offers remote console switch (option)
- 19" 1RU mounting rack, mounting bracket (option)
- Size (WDH): 216mm x 112mm x 44mm
- Power supplying: +12V, 3A power adapter
- Certifications: CE / FCC

### Application

- Medical
- Military and aerospace
- Factory automation and traffic control platforms
- Conference rooms, auditoriums and kiosk systems
- Large scale information display and stadiums

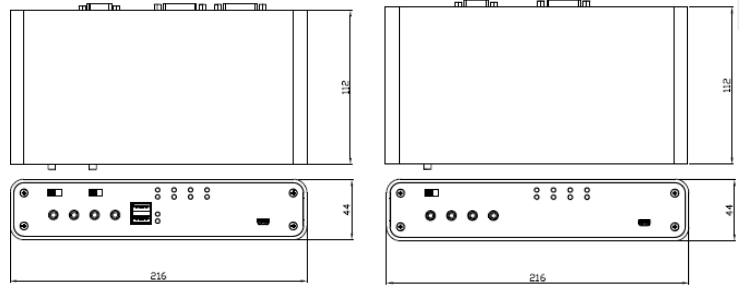
# Two PCs Switchable Dual-head DVI Optical KVM Extender, KVMX-100-TR

## Technical Features

OPTICAL INTERCONNECTION	
Number	Four (4) fiber
Connectors	Four (4) LC connector
Wavelength	1310/1550 nm
Operating Distance	Up to 1.0 km (3280feet) over LC single-mode Up to 300m (985feet) over LC multi-mode
VIDEO	
Supported Resolution	WUXGA (1920x1200)
Pixel data bit depth	8 bits per channel, 3 channels (RGB)
Connectors (Tx)	Two (2) female DVI-D for input
Connector (Rx)	Two (2) female DVI-D for local monitors Two (2) female DVI-D for remote monitors
USB	
Supported Standard	USB HID
Connectors (Tx)	Two (2) female USB-B for connection with PCs. Two (2) female USB-A for local KM
Connector (Rx)	Two (2) female USB-A for remote KM
AUDIO (3.5mm jack)	
Connector (Tx)	One (1) Audio In & One (1) Audio Out One (1) Mic In & One (1) Mic Out
Connector (Rx)	One (1) Audio In & One (1) Audio Out One (1) Mic In & One (1) Mic Out
SERIAL DATA COMMUNICATION	
Connector (Tx)	One (1) female 9-pin Dsub
Connector (Rx)	One (1) male 9-pin Dsub
Supported Protocol	RS-232C

## Dimension

216mm x 112mm x 44mm (WDH)



Transmitter

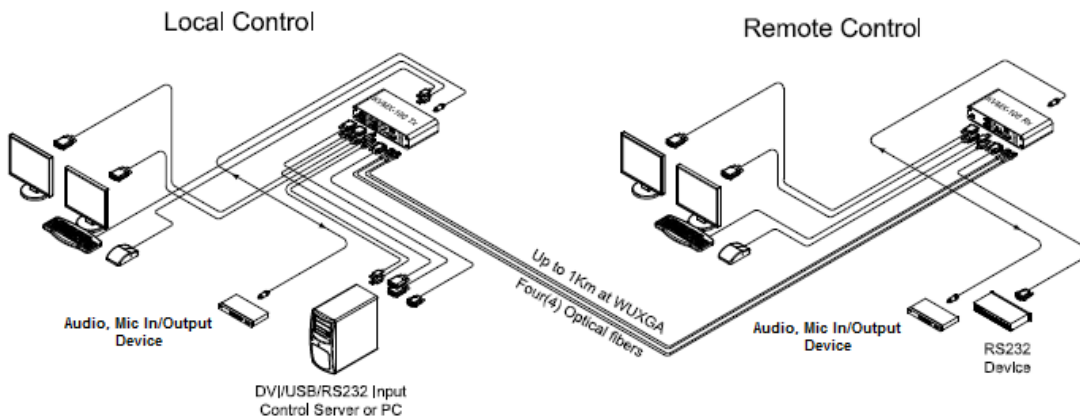
Receiver

## Recommended Operating Conditions

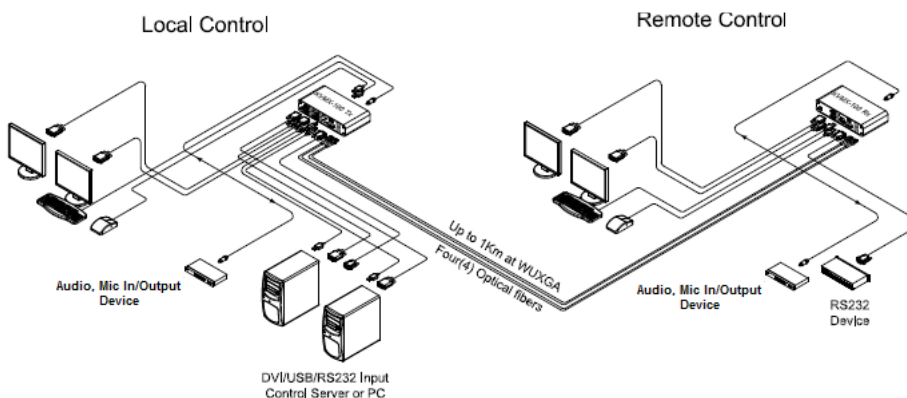
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Temp.	T <sub>A</sub>	0	25	+ 50	°C
Storage Temp.	T <sub>s</sub>	-30		+ 70	°C
Humidity	H <sub>s</sub>	10		85	RH%

## Connection Diagram

One PC equipped dual DVI ports



Two PCs equipped each DVI ports



## Image



Front View

Back View

## Accessories (as an option)

Remote Console Switch:

KVMX-100-RO/ KVMX-100-LO

Mounting Bracket

OPMCB



19" 1RU Mounting Rack: OPMCR-1U



## Optolinks

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*All contents are subject to be changed without prior notice.*