

KVX SERIES DVI KVM EXTENDERS

Introduction

The KVX Series DVI KVM Extenders deliver a cost-effective and reliable solution for extending high-quality DVI video, USB, audio, and serial signals over long distances. In a point-to-point configuration, they enable you to locally use one or two DVI monitors, USB keyboard/mouse/other devices, speaker, and microphone to operate a remote computer, server, or other IT device.

With support for single or dual-head DVI displays, the KVX Series provides flexible connectivity options over CATx or fiber infrastructure. Its plug-and-play operation, OS-independent design, and broad peripheral compatibility make it an ideal choice for mission-critical environments.

Applications

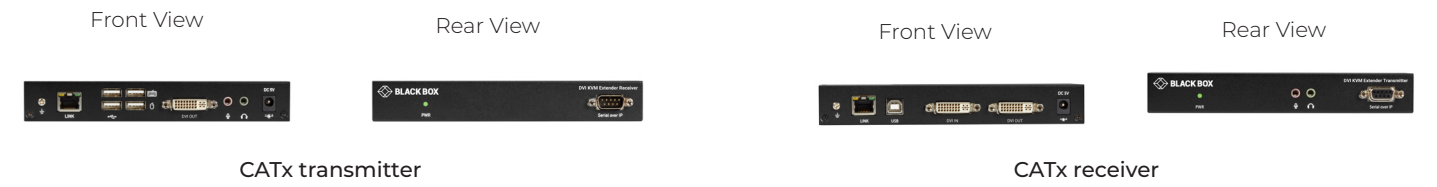
- Control Rooms
- Industrial Automation & Manufacturing
- Broadcast & Media Production
- Data Centers & IT Infrastructure
- Healthcare & Medical Imaging

Key Features

- **High-Quality Video Performance**
 - Supports DVI-D video resolutions up to 1920 x 1200 @ 60 Hz for clear, detailed visuals
 - Maintains signal integrity over long distances without compression artifact
- **Extended Reach Over Multiple Media**
 - Video/USB/RS-232/audio basic extension distance is 330 ft. (100 meters) over CAT5e/6/7
 - Video/USB/RS-232/audio basic extension distance is up to 18.6 miles (30 km) using a single-mode SFP transceiver module or multimode SFP for shorter distances
- **Broad USB Device Support**
 - Supports transparent USB extension via two USB 2.0 ports plus two USB 1.1 ports for USB hubs or USB hids, such as touchscreens, printers, barcode readers, keyboards, and mice
- **Integrated Audio & Serial Connectivity**
 - Bidirectional analog audio (line-in/line-out)
 - RS-232 serial extension
- **Flexible Deployment Options**
 - Available in single-head and dual-head configurations
 - Choice of CATx or fiber models to match infrastructure and distance requirements
- **Simple, Reliable Operation**
 - Plug-and-play setup with no software required
 - OS-independent for seamless integration across environments
 - Durable metal chassis for long-term reliability

Product Image:

KVXLC-100-R2



Specifications

Physical	CATx Transmitter	CATx Receiver
Black Box Product SKU	KVXLC-100-R2	
Black Box Product Name	KVX series single-head DVI KVM CATx extenders	
Product Type	KVM CATx extender	
Form Factor	Desktop	
Material	Metal	
Dimensions (HxWxD)	1.06" x 7.09" x 3.27" (27 x 180 x 83 mm)	1.06" x 7.09"x 3.27" (27 x 180 x 83 mm)
Weight	0.79 lb. (0.36 kg)	0.84 lb. (0.38 kg)
Mounting Options	Flat surface or IDF rack	

General	CATx Transmitter	CATx Receiver
Connectors	Video Input: (1) DVI-D female Link Port: (1) RJ-45 female USB: (1) USB Type B female Audio: (1) Line in, (1) Line out Local Video Output: (1) DVI-D female Serial Port: (1) DB9 female	Console connection: Video Output: (1) DVI-D female Serial Extension: (1) DB9 male Link Port: (1) RJ-45 female USB 2.0: (2) USB Type A female USB HID ports: (2) USB Type A female Audio: (1) Mic In, (1) Speaker Out

Video	
Maximum resolution	1920 x 1200 @ 60 Hz
DDC supported	DDC, DDC2, DDC2B

Specifications (continued)

Power	CATx Transmitter	CATx RECEIVER
Power Source	External 5 VDC, 2A power supply	External 5 VDC, 2A power supply

Latency	
Video	<16.6ms @1080p/60 Hz
USB/HID	<1 ms (Instant mouse/keyboard response)

Environmental	
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-4 to +140°F (-20 to +60°C)
Humidity	0 to 80% (Non-condensing)

Product Includes:

- (1) Transmitter
- (1) Receiver
- (2) 5V, 2A Power supplies (Includes US, EU, and UK plug types)
- (1) DVI-D cable, M/M 1.8 m (6 ft.)
- (1) 3.5 mm audio cable 1.8 m (6 ft.)
- (1) USB-A to USB-B cable, M/M 1.8 m (6 ft.)
- (2) Deskmount KIT switch screws (KVXLC-DMK)

Product Image:

KVXLCF-100-R2



Specifications

Physical	Fiber Transmitter	Fiber Receiver
Black Box Product SKU	KVXLCF-100-R2	
Black Box Product Name	KVX series single-head DVI KVM fiber extenders	
Product Type	KVM fiber extenders	
Form Factor	Desktop	
Material	Metal	
Dimensions (HxWxD)	1.06" x 7.09" x 3.27" (27 x 180 x 83 mm)	1.06" x 7.09" x 3.27" (27 x 180 x 83 mm)
Weight	0.77 lb. (0.35 kg)	0.81 lb. (0.37 kg)
Mounting Options	Flat surface or IDF rack	

general	Fiber Transmitter	Fiber Receiver
Connectors	Host connection: Video Input: (1) DVI-D female Link Port: (1) SFP cage USB: (1) USB Type B female Audio: (1) Line in, (1) Line out Local Video Output: (1) DVI-D female Serial Port: (1) DB9 female NOTE: SFP not included	Console connection: Video Output: (1) DVI-D female Serial Extension: (1) DB9 male Link Port: (1) SFP cage USB 2.0: (2) USB Type A female USB HID ports: (2) USB Type A female Audio: (1) Mic In, (1) Speaker Out NOTE: SFP not included

Video	
Maximum resolution	1920 x 1200 @ 60 Hz
DDC supported	DDC, DDC2, DDC2B

Specifications (continued)

Power	Fiber Transmitter	Fiber Receiver
Power Source	External 5VDC, 2A power supply	External 5VDC, 2A power supply

Latency	
Video	<16.6ms@1080p/60 Hz
USB/HID	<1 ms (Instant mouse/keyboard response)

Environmental	
Operating Temperature	32 to 122° F (0 to 50° C)
Storage Temperature	-4 to +140° F (-20 to +60° C)
Humidity	0 to 80% (Non-condensing)

Product Includes:

- (1) Transmitter
- (1) Receiver
- (2) 5V, 2A Power supplies (Includes US, EU, and UK plug types)
- (1) DVI-D cable, M/M 1.8 m (6 ft.)
- (1) 3.5 mm audio cable 1.8 m (6 ft.)
- (1) USB-A to USB-B cable, M/M 1.8 m (6 ft.)
- (2) Deskmount KIT switch screws (KVXLC-DMK)

Compatible SFP modules		
Part number	Description	Distance
1-GBPS Connections		
LFP441	SFP 1.25-Gb, 850-nm Multimode Fiber, LC	550 m
LFP442	SFP 1.25-Gb, 1310-nm Single-mode Fiber, LC	20 km
LFP442	SFP with Extended Diagnostics - 1250-Mbps Multimode Fiber, 1310-nm	2 km
LFP413	SFP with Extended Diagnostics - 1250-Mbps Single-Mode Fiber, 1310-nm	10 km
LFP414	SFP with Extended Diagnostics - 1250-Mbps, Single-Mode Fiber, 1310-nm	30 km
LFP416	SFP 1250-Mbps, Extended Diagnostics, 10/100/1000BASE-T, SGMII Interface, RJ-45	100 m

NOTE: Other SFPS may work but have not been validated by Black Box. We recommend you use the suggested SFPS to avoid technical incompatibilities.

Product Image:

KVXLC-200-R2

Front View

Rear View



CATx transmitter

Front View

Rear View



CATx receiver

Specifications

Physical	CATx Transmitter	CATx Receiver
Black Box Product SKU	KVXLC-200-R2	
Black Box Product Name	KVX series dual-head DVI KVM CATx Extenders	
Product Type	KVM CATx Extender	
Form Factor	Desktop	
Material	Metal	
Dimensions (HxWxD)	1.71" x 7.09" x 3.27 " (44 x 180 x 83 mm)	1.71" x 7.12" x 3. 28" (4.4 x 181 x 83 mm)
Weight	1.12 lb. (0.51 kg)	1.12 lb. (0.51 kg)
Mounting Options	Flat surface or IDF rack	

General	CATx Transmitter	CATx Receiver
Connectors	Host connection: Video Input: (2) DVI-D female Link Port: (2) RJ-45 female USB: (1) USB Type B female Audio: (1) Line in, (1) Line out Local Video Output: (2) DVI-D female Serial Port: (1) DB9 female	Console connection: Video Output: (2) DVI-D female Serial Extension: (1) DB9 male Link Port: (2) RJ-45 female USB 2.0: (2) USB Type A female USB HID ports: (2) USB Type A female Audio: (1) Mic In, (1) Speaker Out

Video	
Maximum resolution	1920 x 1200 @ 60 Hz
DDC supported	DDC, DDC2, DDC2B

Specifications (continued)

Power	CATx Transmitter	CATx Receiver
Power Source	External 5VDC, 2A power supply	External 5VDC, 2A power supply

Latency	
Video	<16.6ms@1080p/60 Hz
USB/HID	<1 ms (Instant mouse/keyboard response)

Environmental	
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-4 to +140°F (-20 to +60°C)
Humidity	0 to 80% (Non-condensing)

Product Includes:

- (1) Transmitter
- (1) Receiver
- (2) 5V, 2A Power supplies (Includes US, EU, and UK plug types)
- (2) DVI-D cable, M/M 1.8 m (6 ft.)
- (1) 3.5 mm audio cable 1.8 m (6 ft.)
- (1) USB-A to USB-B cable, M/M 1.8 m (6 ft.)
- (2) Deskmount KIT switch screws (KVXLC-DMK)

Product Image:

KVXLCF-200-R2

Front View



Rear View



Fiber transmitter

Front View



Rear View



Fiber receiver

Specifications

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Black Box Product SKU	KVXLCF-200-R2	
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Specifications (continued)

Power	Fiber Transmitter	Fiber Receiver
Power Source	External 5VDC, 2A power supply	External 5VDC, 2A power supply

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LFP442	SFP with Extended Diagnostics - 1250-Mbps Multimode Fiber, 1310-nm	2 km
LFP413	SFP with Extended Diagnostics - 1250-Mbps Single-Mode Fiber, 1310-nm	10 km
LFP414	SFP with Extended Diagnostics - 1250-Mbps, Single-Mode Fiber, 1310-nm	30 km
LFP416	SFP 1250-Mbps, Extended Diagnostics, 10/100/1000BASE-T, SGMII Interface, RJ-45	100 m

NOTE: Other SFPS may work but have not been validated by Black Box. We recommend you use the suggested SFPS to avoid technical incompatibilities.

Ordering Information

Product Code	Description
KVXLC-100-R2	CATx Single-Head Transmitter and Receiver Kit
KVXLC-200-R2	CATx Dual-Head Transmitter and Receiver Kit
KVXLCF-100-R2	Fiber Single-Head Transmitter and Receiver Kit
KVXLCF-200-R2	Fiber Dual-Head Transmitter and Receiver Kit

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About Black Box

Black Box is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.

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