KVXLCH-100, KVXLCHF-100

KVX SERIES 4K HDMI KVM-IP EXTENDERS
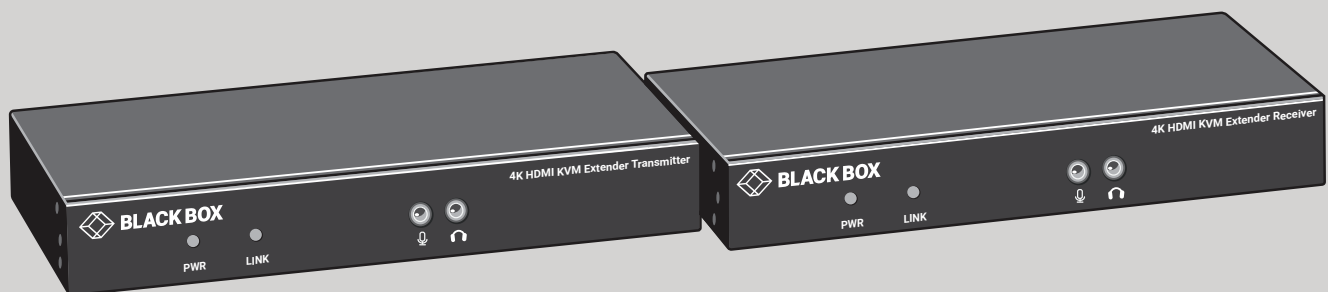
BLACK BOX

OVERVIEW

KVX SERIES 4K HDMI KVM-IP EXTENDERS DATA SHEET

INTRODUCTION

The KVX Series are the Black Box® low-cost 4K HDMI KVM-IP extenders. In a point-to-point configuration, they enable you to locally use amn HDMI monitor, USB keyboard/mouse/other devices, speaker and microphone to operate a remote computer, server, or other IT device.

In a plug-and-play based Unicast application, either GUI or serial control setup is required.

Two versions are available:

– KVX Series 4K HDMI KVM-IP CATx Extender (KVXLCH-100)

– KVX Series 4K HDMI KVM-IP Fiber Extender (KVXLCHF-100)

FEATURES

- **OFFERS HDMI INPUT/OUTPUT VIDEO QUALITY UP TO 4K @ 30 HZ**
- **VIDEO/USB/RS-232/AUDIO BASIC EXTENSION DISTANCE IS 330 FEET (100 METERS) OVER CAT5E/6 OR UP TO 3300 FEET (1000 M) VIA GIGABIT ETHERNET SWITCH DAISYCHAINING**
- **VIDEO/USB/RS-232/AUDIO BASIC EXTENSION DISTANCE IS 33,000 FEET (10 KM) USING A SINGLE-MODE SFP TRANSCEIVER MODULE OR MULTIMODE SFP FOR SHORTER DISTANCES**
- **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**
- **SUPPLIES BIDIRECTIONAL ANALOG LINE-IN/LINE-OUT EXTENSION AND SERIAL RS-232 EXTENSION**
- **SUPPORTS 4K HDMI LOCAL VIDEO OUTPUT**

COMPARISON CHART

FEATURES COMPARISON CHART		
	KVXLCH-100	**KVXLCHF-100**
AUDIO	YES	YES
RS-232	YES	YES
LOCAL OUT CONNECTOR	YES	YES
POE	NO	NO
MEDIA	TWISTED-PAIR	FIBEROPTIC
MAXIMUM DISTANCE	328 FEET (100 M)	33,000 FEET (10 KM)
IR EXTENSION	NO	NO
LEVEL	ENTRY-LEVEL	ENTRY-LEVEL

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SPECIFICATIONS

KVX SERIES HDMI KVM-IP CATX EXTENDERS (KVXLCH-100)

FRONT VIEW	BACK VIEW	FRONT VIEW	BACK VIEW
CATx Transmitter	CATx Transmitter	CATx Receiver	CATx Receiver

WHAT'S INCLUDED WITH THE KVXLCH-100

- **(1) HDMI KVM-IP CATX EXTENDER TRANSMITTER**
- **(1) HDMI KVM-IP CATX EXTENDER RECEIVER**
- **(2) POWER SUPPLIES (INCLUDES US, EU, UK AND AU PLUG TYPES)**
- **(1) HDMI CABLE (6-FT./1.8-M)**
- **(1) 3.5MM AUDIO CABLE (6-FT./1.8-M)**
- **(1) USB-B TO USB-A CABLE (6-FT./1.8-M)**

SPECIFICATIONS FOR KVX SERIES HDMI KVM-IP CATX EXTENDER (KVXLCH-100)		
SPECIFICATION	**CATX TRANSMITTER**	**CATX RECEIVER**

CONNECTORS	Host connection:
	  Video Input: (1) HDMI female
	  Serial Control Port: (1) DB9 female
	  Link Port: (1) RJ-45 female
	  USB: (1) USB Type B female
	  Audio: (1) Line in, (1) Line out;
	  Local Video Output: (1) HDMI female
		Console connection:
		  Video Output: (1) HDMI female
		  Serial Control Port: (1) DB9 male
		  Link Port: (1) RJ-45 female
		  USB: (4) USB Type A female
		  Audio: (1) Mic In, (1) Speaker Out

DISTANCE	CATx cable: Up to 328 ft. (100 m)	CATx cable: Up to 328 ft. (100 m)
INDICATORS	(1) Power LED (red), (1) Link LED (green)	(1) Power LED (red), (1) Link LED (green)
MAXIMUM RESOLUTION	4K @ 30 Hz, 3840 x 2160 @ 30 Hz	4K @ 30 Hz, 3840 x 2160 @ 30 Hz
DDC SUPPORTED	DDC, DDC2, DDC2B	DDC, DDC2, DDC2B
HOUSING MATERIAL	Metal chassis	Metal chassis
OPERATING SYSTEM	OS independent	OS independent
ENVIRONMENTAL	Operating Temperature: 32 to 122° F (0 to 50° C); Storage Temperature: -4 to +140° F (-20 to +60° C); Operating Humidity: 0 to 80%, noncondensing	Operating Temperature: 32 to 122° F (0 to 50° C); Storage Temperature: -4 to +140° F (-20 to +60° C); Operating Humidity: 0 to 80%, noncondensing
POWER	External 5-VDC, 2-A power supply	External 5-VDC, 2-A power supply
DIMENSIONS	0.83" H x 3.27" W x 7.09" D (2.1 x 8.3 x 18 cm)	0.83" H x 3.27" W x 7.09" D (2.1 x 8.3 x 18 cm)
WEIGHT	0.82 lb. (0.372 kg)	0.83 lb. (0.378 kg)

SPECIFICATIONS

KVX SERIES HDMI KVM-IP FIBER EXTENDERS (KVXLCHF-100)

FRONT VIEW	BACK VIEW	FRONT VIEW	BACK VIEW
Fiber Transmitter	Fiber Transmitter	Fiber Receiver	Fiber Receiver

WHAT'S INCLUDED WITH THE KVXLCHF-100

- (1) HDMI KVM-IP FIBER EXTENDER TRANSMITTER
- (1) HDMI KVM-IP FIBER EXTENDER RECEIVER
- (2) POWER SUPPLIES (INCLUDES US, EU, UK AND AU PLUG TYPES)
- (1) HDMI CABLE (6-FT./1.8-M)
- (1) 3.5MM AUDIO CABLE (6-FT./1.8-M)
- (1) USB-B TO USB-A CABLE (6-FT./1.8-M)

SPECIFICATIONS FOR KVX SERIES HDMI KVM-IP FIBER EXTENDER (KVXLCHF-100)

SPECIFICATION	FIBER TRANSMITTER	FIBER RECEIVER

CONNECTORS	Host connection:
	  Video Input: (1) HDMI female
	  Serial Control Port: (1) DB9 female
	  Link Port: (1) SFP cage
	  USB: (1) USB Type B female
	  Audio: (1) Line in, (1) Line out;
	  Local Video Output: (1) HDMI female
		Console connection:
		  Video Output: (1) HDMI female
		  Serial Control Port: (1) DB9 male
		  Link Port: (1) SFP cage
		  USB: (4) USB Type A female
		  Audio: (1) Mic In, (1) Speaker Out

DISTANCE	Fiberoptic cable: Up to 33,000 ft. (10 km)	Fiberoptic cable: Up to 33,000 ft. (10 km)
INDICATORS	(1) Power LED	(1) Power LED
MAXIMUM RESOLUTION	4K @ 30 Hz, 3840 x 2160 @ 30 Hz	4K @ 30 Hz, 3840 x 2160 @ 30 Hz
DDC SUPPORTED	DDC, DDC2, DDC2B	DDC, DDC2, DDC2B
HOUSING MATERIAL	Metal chassis	Metal chassis
OPERATING SYSTEM	OS independent	OS independent
ENVIRONMENTAL	Operating Temperature: 32 to 122° F (0 to 50° C); Storage Temperature: -4 to +140° F (-20 to +60° C); Operating Humidity: 0 to 80%, noncondensing	Operating Temperature: 32 to 122° F (0 to 50° C); Storage Temperature: -4 to +140° F (-20 to +60° C); Operating Humidity: 0 to 80%, noncondensing
POWER	External 5-VDC, 2-A power supply	External 5-VDC, 2-A power supply
DIMENSIONS	0.83" H x 3.27" W x 7.09" D (2.1 x 8.3 x 18 cm)	0.83" H x 3.27" W x 7.09" D (2.1 x 8.3 x 18 cm)
WEIGHT	0.82 lb. (0.372 kg)	0.83 lb. (0.378 kg)

COMPATIBLE SFP MODULES

PART NUMBER	DESCRIPTION	DISTANCE
1-GBPS CONNECTIONS		
LFP411	SFP 1250-Mbps, 850-nm Multimode Fiber, LC	550 m
LFP413	SFP 1250-Mbps, 1310-nm Single-mode Fiber, LC	10 km
LFP415	SFP 1250-Mbps, Extended Diagnostics, 1000BASE-T, SerDes Interface, RJ-45	100 m

NOTE: Black Box extenders will also support generic SFP modules.

ORDERING INFORMATION

ITEM	CODE
KVX HDMI KVM-IP CATx Extenders	
Transmitter and Receiver Kit	**KVXLCH-100**
KVX HDMI KVM-IP Fiber Extenders	
Transmitter and Receiver Kit	**KVXLCHF-100**
Accessories	
Rackmount Kit	**KVXLC-RMK**
Spare Power Supply	**KVXLC-PS**
NOTE: Kits contain (1) Transmitter and (1) Receiver	

NOTES

DISCLAIMER
Black Box Corporation shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Corporation may revise this document at any time without notice.

ABOUT BLACK BOX
Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.