**KVXLCDP-100, KVXLCDPF-100** 

# KVX SERIES 4K DP KVM EXTENDERS

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM





#### KVX SERIES DISPLAYPORT KVM EXTENDERS DATA SHEET

#### INTRODUCTION

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

Two versions are available:

- KVX Series DisplayPort KVM CATx Extender (KVXLCDP-100)
- KVX Series DisplayPort KVM Fiber Extender (KVXLCDPF-100)

#### **FEATURES**

- OFFERS DISPLAYPORT INPUT/OUTPUT VIDEO QUALITY UP TO 4K @ 30 HZ
- VIDEO/USB/RS-232/AUDIO BASIC EXTENSION DISTANCE IS 330 FEET (100 METERS) OVER CAT5E/6/7
- 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
- THE DISPLAYPORT KVM CONSOLE EXTENDER LETS YOU CONTROL A SERVER, OR COMPUTER OVER SINGLE-MODE OR MULTIMODE FIBER OPTIC CABLE AT DISTANCES OF UP TO 30 KM (DEPENDING ON THE SFP USED, FIBER TYPE, AND FIBER BANDWIDTH\*)
- 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 DISPLAYPORT LOCAL VIDEO OUTPUT

\*NOTE: Reference the supported SFP chart on page 4.

## **COMPARISON CHART**

FEATURES COMPARISON CHART					
	KVXLCDP-100	KVXLCDPF-100			
AUDIO	YES	YES			
RS-232	YES	YES			
LOCAL OUT CONNECTOR	YES	YES			
MEDIA	TWISTED-PAIR	FIBEROPTIC			
MAXIMUM DISTANCE	328 FEET (100 M)	UP TO 18.6 MILES (30 KM), DEPENDING ON SFP USED			
LEVEL	ENTRY-LEVEL	ENTRY-LEVEL			



# **SPECIFICATIONS**

## KVX SERIES DISPLAYPORT KVM CATX EXTENDERS (KVXLCDP-100)

FRONT VIEW

**BACK VIEW** 

FRONT VIEW

**BACK VIEW** 









CATx Transmitter

**CATx Transmitter** 

CATx Receiver

CATx Receiver

#### WHAT'S INCLUDED WITH THE KVXLCDP-100

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

SPECIFICATION	CATX TRANSMITTER	CATX RECEIVER	
CONNECTORS	Host connection: Video Input: (1) DisplayPort 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) DisplayPort female	Console connection: Video Output: (1) DisplayPort 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 (8-, 10-bit input)	4K @ 30 Hz, 3840 x 2160 @ 30 Hz (8-bit output only)	
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 DISPLAYPORT KVM FIBER EXTENDERS (KVXLCDPF-100)

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Fiber Receiver

FRONT VIEW

Fiber Receiver

**BACK VIEW** 

Fiber Transmitter

Fiber Transmitter

# WHAT'S INCLUDED WITH THE KVXLCDPF-100

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

NOTE: SFP not included, must be ordered separately. See chart below.

SPECIFICATIONS FOR KVX SERIES DISPLAYPORT KVM FIBER EXTENDER (KVXLCDPF-100)					
SPECIFICATION	FIBER TRANSMITTER	FIBER RECEIVER			
CONNECTORS	Host connection: Video Input: (1) DisplayPort 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) DisplayPort female	Console connection: Video Output: (1) DisplayPort 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 18.6 miles (30 km), depending on SFP used	Fiberoptic cable: Up to 18.6 miles (30 km), depending on SFP used			
INDICATORS	(1) Power LED	(1) Power LED			
MAXIMUM RESOLUTION	4K @ 30 Hz, 3840 x 2160 @ 30 Hz (8-, 10-bit input)	4K @ 30 Hz, 3840 x 2160 @ 30 Hz (8-bit output only)			
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)			

NOTE: SFP modules are not included and must be ordered separately. See the chart below.

COMPATIBLE SFP MODULES				
PART NUMBER	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		
LFP412	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, Singlemode 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

ITEM	CODE			
KVX DisplayPort KVM CATx Extenders				
Transmitter and Receiver Kit	KVXLCDP-100			
KVX DisplayPort KVM Fiber Extenders				
Transmitter and Receiver Kit	KVXLCDPF-100			
Accessories				
Rackmount Kit	KVXLC-RMK			
Spare Power Supply	KVXLC-PS			
NOTE: Extender kits contain (1) Transmitter and (1) Receiver				

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#### **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.

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