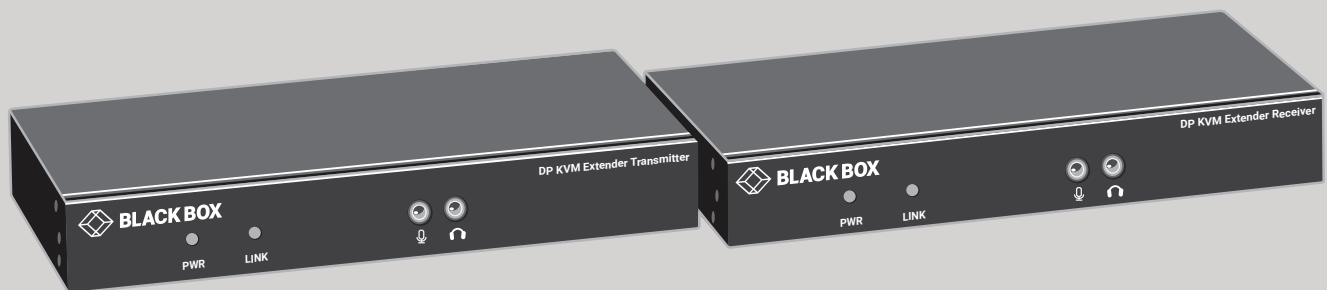


DATA SHEET

KVXLCDP-100, KVXLCDPF-100, KVXLCDP-200, KVXLCDPF-200

KVX SERIES 4K DP KVM EXTENDERS

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



OVERVIEW

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 one or two DisplayPort monitors, USB keyboard/mouse/other devices, speaker, and microphone to operate a remote computer, server, or other IT device. Operation is plug-and-play.

Four versions are available:

- KVX Series DisplayPort KVM CATx Extender (KVXLCDP-100)
- KVX Series DisplayPort KVM Fiber Extender (KVXLCDPF-100)
- KVX Series Dual-Head DisplayPort KVM CATx Extender (KVXLCDP-200)
- KVX Series Dual-Head DisplayPort KVM Fiber Extender (KVXLCDPF-200)

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	KVXLCDP-200	KVXLCDPF-200
AUDIO	YES	YES	YES	YES
RS-232	YES	YES	YES	YES
TX LOCAL OUT DP CONNECTORS	(1) DISPLAYPORT	(1) DISPLAYPORT	(2) DISPLAYPORT	(2) DISPLAYPORT
TX INPUT DP CONNECTORS	(1) DISPLAYPORT	(1) DISPLAYPORT	(2) DISPLAYPORT	(2) DISPLAYPORT
RX OUTPUT DP CONNECTORS	(1) DISPLAYPORT	(1) DISPLAYPORT	(2) DISPLAYPORT	(2) DISPLAYPORT
MEDIA	TWISTED-PAIR	FIBEROPTIC	TWISTED-PAIR	FIBEROPTIC
MAXIMUM DISTANCE	328 FEET (100 M)	UP TO 18.6 MILES (30 KM), DEPENDING ON SFP USED	328 FEET (100 M)	UP TO 18.6 MILES (30 KM), DEPENDING ON SFP USED
LEVEL	ENTRY-LEVEL	ENTRY-LEVEL	ENTRY-LEVEL	ENTRY-LEVEL



SPECIFICATIONS

KVX SERIES DISPLAYPORT KVM CATX EXTENDERS (KVXLCDP-100)



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)

SPECIFICATIONS FOR KVX SERIES DISPLAYPORT KVM CATX EXTENDER (KVXLCDP-100)		
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 2.0: (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 7.09" W x 3.27" D (2.1 x 18 x 8.3 cm)	0.83" H x 7.09" W x 3.27" D (2.1 x 18 x 8.3 cm)
WEIGHT	0.82 lb. (0.372 kg)	0.83 lb. (0.378 kg)



SPECIFICATIONS

KVX SERIES DISPLAYPORT KVM FIBER EXTENDERS (KVXLCDPF-100)



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 2.0: (4) USB Type A female Audio: (1) Mic In, (1) Speaker Out
DISTANCE	Fiber optic cable: Up to 18.6 miles (30 km), depending on SFP used	Fiber optic 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 7.09" W x 3.27" D (2.1 x 18 x 8.3 cm)	0.83" H x 7.09" W x 3.27" D (2.1 x 18 x 8.3 cm)
WEIGHT	0.82 lb. (0.372 kg) (no SFP)	0.83 lb. (0.378 kg) (no SFP)

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

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
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.



SPECIFICATIONS

KVX SERIES DISPLAYPORT DUAL-HEAD KVM CATX EXTENDERS (KVXLCDP-200)



WHAT'S INCLUDED WITH THE KVXLCDP-200

- (1) DISPLAYPORT DUAL-HEAD KVM CATX EXTENDER TRANSMITTER
- (1) DISPLAYPORT DUAL-HEAD KVM CATX EXTENDER RECEIVER
- (2) POWER SUPPLIES (INCLUDES US, EU, UK AND AU PLUG TYPES)
- (2) DISPLAYPORT CABLES (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)

SPECIFICATIONS FOR KVX SERIES DISPLAYPORT DUAL-HEAD KVM CATX EXTENDER (KVXLCDP-200)

SPECIFICATION	CATX TRANSMITTER	CATX RECEIVER
CONNECTORS	Host connection: Video Input: (2) 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: (2) DisplayPort female	Console connection: Video Output: (2) DisplayPort female Serial Control Port: (1) DB9 male Link Port: (1) RJ-45 female USB 2.0: (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	1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm)	1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm)
WEIGHT	0.84 lb. (0.381 kg)	0.85 lb. (0.386 kg)

SPECIFICATIONS

KVX SERIES DISPLAYPORT DUAL-HEAD KVM FIBER EXTENDERS (KVXLCDPF-200)



WHAT'S INCLUDED WITH THE KVXLCDPF-200

- (1) DISPLAYPORT DUAL-HEAD KVM FIBER EXTENDER TRANSMITTER
- (1) DISPLAYPORT DUAL-HEAD KVM FIBER EXTENDER RECEIVER
- (2) POWER SUPPLIES (INCLUDES US, EU, UK AND AU PLUG TYPES)
- (2) DISPLAYPORT CABLES (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 DUAL-HEAD KVM FIBER EXTENDER (KVXLCDPF-200)		
SPECIFICATION	FIBER TRANSMITTER	FIBER RECEIVER
CONNECTORS	Host connection: Video Input: (2) 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: (2) DisplayPort female	Console connection: Video Output: (2) DisplayPort female Serial Control Port: (1) DB9 male Link Port: (1) SFP cage USB 2.0: (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	1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm)	1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm)
WEIGHT	0.85 lb. (0.386 kg) (no SFP)	0.85 lb. (0.386 kg) (no SFP)

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

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
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.



