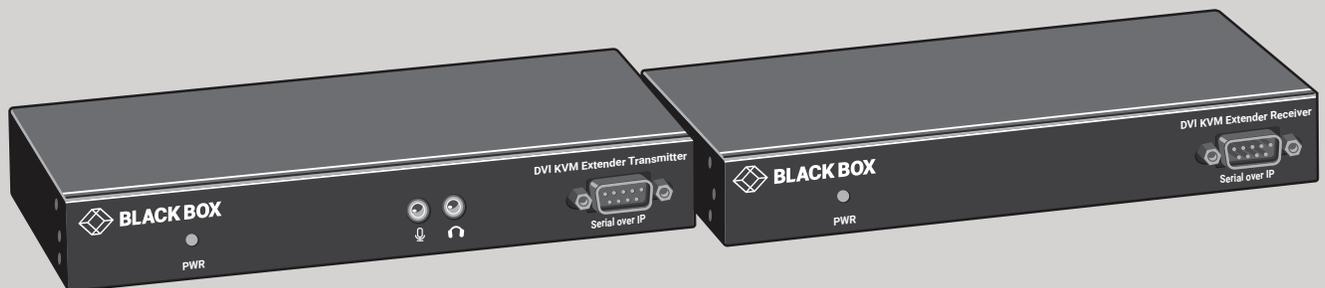


DATA SHEET

KVXLC-100, KVXLCF-100, KVXLC-200, KVXLCF-200

KVX SERIES DVI KVM EXTENDERS

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



OVERVIEW

KVX SERIES DVI KVM EXTENDERS DATA SHEET

INTRODUCTION

The KVX Series are the Black Box low-cost DVI KVM extenders. In a point-to-point configuration, they enable you to locally use one or two DVI/VGA 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 Single-Head DVI KVM CATx Extender (KVXLC-100)
- KVX Series Single-Head DVI KVM Fiber Extender (KVXLCF-100)
- KVX Series Dual-Head DVI KVM CATx Extender (KVXLC-200)
- KVX Series Dual-Head DVI KVM Fiber Extender (KVXLCF-200)

FEATURES

- OFFERS DVI-I (DVI AND VGA) INPUT/OUTPUT VIDEO QUALITY UP TO 1920 X 1200 @ 60 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 DVI 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

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

COMPARISON CHART

| FEATURES COMPARISON CHART | | | | |
|-----------------------------|------------------|--|------------------|--|
| | KVXLC-100 | KVXLCF-100 | KVXLC-200 | KVXLCF-200 |
| AUDIO | YES | YES | YES | YES |
| RS-232 | YES | YES | YES | YES |
| TX LOCAL OUT DVI CONNECTORS | (1) DVI | (1) DVI | (2) DVI | (2) DVI |
| TX INPUT DVI CONNECTORS | (1) DVI | (1) DVI | (2) DVI | (2) DVI |
| RX OUTPUT DVI CONNECTORS | (1) DVI | (1) DVI | (2) DVI | (2) DVI |
| 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 |
| IR EXTENSION | NO | NO | NO | NO |
| LEVEL | ENTRY-LEVEL | ENTRY-LEVEL | ENTRY-LEVEL | ENTRY-LEVEL |



SPECIFICATIONS

KVX SERIES SINGLE-HEAD DVI KVM CATX EXTENDERS (KVXLC-100)

FRONT VIEW



CATx Transmitter

BACK VIEW



CATx Transmitter

FRONT VIEW



CATx Receiver

BACK VIEW



CATx Receiver

WHAT'S INCLUDED WITH THE KVXLC-100

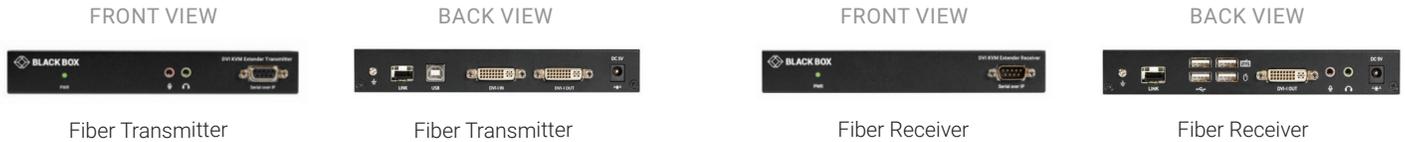
- (1) SINGLE-HEAD DVI KVM CATX EXTENDER TRANSMITTER
- (1) SINGLE-HEAD DVI KVM CATX EXTENDER RECEIVER
- (2) WALLMOUNT POWER SUPPLIES 5 V, 2 A W/ US, EU, AU, AND UK POWER CLIPS
- (1) DVI CABLE, M/M
- (1) USB TYPE A TO B CABLE, M/M
- (1) 3.5-MM DUAL AUDIO/MIC CABLE, M/M

| SPECIFICATIONS FOR KVX SERIES SINGLE-HEAD DVI KVM CATX EXTENDER (KVXLC-100) | | |
|---|---|--|
| SPECIFICATION | CATX TRANSMITTER | CATX RECEIVER |
| CONNECTORS | Host connection: Video Input: (1) DVI-I 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-I female; Serial Port: (1) DB9 female | Console connection: Video Output: (1) DVI-I 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 |
| DISTANCE | CATx cable: Up to 328 ft. (100 m) | CATx cable: Up to 328 ft. (100 m) |
| INDICATORS | (1) Power LED | (1) Power LED |
| MAXIMUM RESOLUTION | 1920 x 1200 @ 60 Hz | 1920 x 1200 @ 60 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 | 1.06" H x 7.09" W x 3.27" D (2.7 x 18.0 x 8.3 cm) | 1.06" H x 7.09" W x 3.27" D (2.7 x 18.0 x 8.3 cm) |
| WEIGHT | 0.79 lb. (0.36 kg) | 0.84 lb. (0.38 kg) |



SPECIFICATIONS

KVX SERIES SINGLE-HEAD DVI KVM FIBER EXTENDERS (KVXLCF-100)



WHAT'S INCLUDED WITH THE KVXLCF-100

- (1) SINGLE-HEAD DVI KVM FIBER EXTENDER TRANSMITTER
- (1) SINGLE-HEAD DVI KVM FIBER EXTENDER RECEIVER
- (2) WALLMOUNT POWER SUPPLIES 5 V, 2 A W/ US, EU, AU, AND UK POWER CLIPS
- (1) DVI CABLE, M/M
- (1) USB TYPE A TO B CABLE, M/M
- (1) 3.5-MM DUAL AUDIO/MIC CABLE, M/M

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

| SPECIFICATIONS FOR KVX SERIES SINGLE-HEAD DVI KVM FIBER EXTENDER (KVXLCF-100) | | |
|---|---|--|
| SPECIFICATION | FIBER TRANSMITTER | FIBER RECEIVER |
| CONNECTORS | Host connection: Video Input: (1) DVI-I female Link Port: (1) SFP cage USB: (1) USB Type B female Audio: (1) Line in, (1) Line out; Local Video Output: (1) DVI-I female; Serial Port: (1) DB9 female NOTE: SFP not included | Console connection: Video Output: (1) DVI-I 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 |
| 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 | 1920 x 1200 @ 60 Hz | 1920 x 1200 @ 60 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 | 1.06" H x 7.09" W x 3.27" D (2.7 x 18.0 x 8.3 cm) | 1.06" H x 7.09" W x 3.27" D (2.7 x 18.0 x 8.3 cm) |
| WEIGHT | 0.77 lb. (0.35 kg) | 0.81 lb. (0.37 kg) |

| 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 DUAL-HEAD DVI KVM CATX EXTENDERS (KVXLC-200)

FRONT VIEW



CATx Transmitter

BACK VIEW



CATx Transmitter

FRONT VIEW



CATx Receiver

BACK VIEW



CATx Receiver

WHAT'S INCLUDED WITH THE KVXLC-200

- (1) DUAL-HEAD DVI KVM CATX EXTENDER TRANSMITTER
- (1) DUAL-HEAD DVI KVM CATX EXTENDER RECEIVER
- (2) WALLMOUNT POWER SUPPLIES 5 V, 2 A W/ US, EU, AU, AND UK POWER CLIPS
- (2) DVI CABLES, M/M
- (1) USB TYPE A TO B CABLE, M/M
- (1) 3.5-MM DUAL AUDIO/MIC CABLE, M/M

SPECIFICATIONS FOR KVX SERIES DUAL-HEAD DVI KVM CATX EXTENDER (KVXLC-200)

| SPECIFICATION | CATX TRANSMITTER | CATX RECEIVER |
|---------------------------|---|--|
| CONNECTORS | Host connection: Video Input: (2) DVI-I 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-I female; Serial Port: (1) DB9 female | Console connection: Video Output: (2) DVI-I 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 |
| DISTANCE | CATx cable: Up to 328 ft. (100 m) | CATx cable: Up to 328 ft. (100 m) |
| INDICATORS | (1) Power LED | (1) Power LED |
| MAXIMUM RESOLUTION | 1920 x 1200 @ 60 Hz | 1920 x 1200 @ 60 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 | 1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm) | 1.71" H x 7.12" W x 3.28" D (4.4 x 18.1 x 8.3 cm) |
| WEIGHT | 1.12 lb. (0.51 kg) | 1.12 lb. (0.51 kg) |

SPECIFICATIONS

KVX SERIES DUAL-HEAD DVI KVM FIBER EXTENDERS (KVXLCF-200)



WHAT'S INCLUDED WITH THE KVXLCF-200

- (1) DUAL-HEAD DVI KVM FIBER EXTENDER TRANSMITTER
- (1) DUAL-HEAD DVI KVM FIBER EXTENDER RECEIVER
- (2) WALLMOUNT POWER SUPPLIES 5 V, 2 A W/ US, EU, AU, AND UK POWER CLIPS
- (2) DVI CABLES, M/M
- (1) USB TYPE A TO B CABLE, M/M
- (1) 3.5-MM DUAL AUDIO/MIC CABLE, M/M

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

| SPECIFICATIONS FOR KVX SERIES DUAL-HEAD DVI KVM FIBER EXTENDER (KVXLCF-200) | | |
|---|--|---|
| SPECIFICATION | FIBER TRANSMITTER | FIBER RECEIVER |
| CONNECTORS | Host connection: Video Input: (2) DVI-I female Link Port: (2) SFP cages USB: (1) USB Type B female Audio: (1) Line in, (1) Line out; Local Video Output: (2) DVI-I female; Serial Port: (1) DB9 female NOTE: SFP not included | Console connection: Video Output: (2) DVI-I female Serial Extension: (1) DB9 male Link Port: (2) SFP cages 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 |
| 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 | 1920 x 1200 @ 60 Hz | 1920 x 1200 @ 60 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 | 1.71" H x 7.09" W x 3.27" D (4.4 x 18.0 x 8.3 cm) | 1.71" H x 7.12" W x 3.28" D (4.4 x 18.1 x 8.3 cm) |
| WEIGHT | 1.12 lb. (0.51 kg) | 1.12 lb. (0.51 kg) |

| 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.



