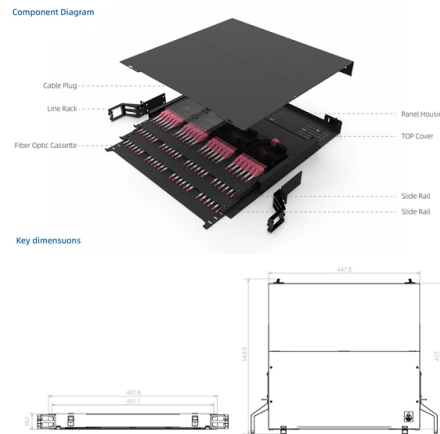


KVM Fiber Optic System



Overview

4K Fiber KVM Extender up to 550m for Remote PC Control With the advanced fiber optic technology, this 4K KVM extender provides anti-electromagnetic interference.

Key Takeaways

KVM fiber optic solutions enable long-distance, high-quality, and EMI-immune transmission of keyboard, video, and mouse signals, supporting resolutions up to 4K and distances from hundreds of meters to tens of kilometers.

KVM fiber optic extenders allow users to control computers remotely over fiber optic cables, transmitting video, audio, USB, and other control signals with minimal latency. Unlike standard HDMI or USB extenders, fiber KVM solutions are ideal for long-distance applications and environments with high electromagnetic interference (EMI), such as data centers, broadcast studios, medical facilities, and industrial control rooms.

Key Features

- **Long-Distance Transmission:** Fiber KVM extenders can transmit signals from hundreds of meters up to 70 km, depending on single-mode or multi-mode fiber and the specific product.
- **High-Resolution Support:** Many solutions support 4K video at 60Hz or higher, dual or multiple monitors, and high-quality audio formats including PCM 7.1, Dolby TrueHD, and DTS-HD Master Audio.

- **Zero or Low Latency:** Fiber transmission ensures real-time control of keyboard, mouse, and peripheral devices, critical for professional and mission-critical applications .
- **EMI and RFI Immunity:** Optical fiber is immune to electromagnetic and radio-frequency interference, ensuring stable and secure signal transmission .
- **Scalability:** Some systems support multiple transmitter/receiver pairs via a Gigabit Ethernet switch, allowing up to 16 or more PCs to be controlled from a single location .
- **Peripheral Support:** Many extenders transmit USB, RS-232, IR, and audio signals, enabling full remote control of connected systems .

Typical Applications

- **Data Centers and Control Rooms:** Centralize servers and workstations while maintaining secure, remote access.
- **Medical and Telemedicine:** Stream high-definition video and control diagnostic equipment remotely.
- **Broadcast and Media Production:** Manage multiple video sources and displays with low-latency control.
- **Industrial and Military Environments:** Operate systems in high-EMI areas without signal degradation.
- **Education and Campus Networks:** Facilitate remote lectures and multi-display setups with stable video and audio .

Example Products

- **AV Access 4KIP500F-KVM:** Extends 4K HDMI, USB, and audio signals up to 550 meters over multi-mode fiber with zero latency, supporting up to 16 TX/RX pairs via a Gigabit switch .
- **Rextron Fiber KVM Extenders:** Extend dual 4K60 HDMI, USB, IR, and RS-232 signals up to 70 km over single-mode fiber, suitable for ultra-long-distance applications .
- **Matrox Extio Series:** Offers point-to-point or networked KVM over fiber, supporting multi-monitor setups, 4K resolution, and IP-based matrix switching for flexible control room deployments .

Benefits of Fiber Optic KVM

- **High-Quality Video and Audio:** Maintains clarity over long distances.
- **Secure and Stable Transmission:** Optical isolation prevents interference and ensures reliable operation.
- **Flexible Deployment:** Supports both single and multi-user setups, scalable via Ethernet switches.

- **Outdoor and Harsh Environment Suitability:** Fiber is resistant to weather and EMI, making it ideal for industrial or outdoor installations . KVM fiber optic solutions are essential for any environment requiring long-distance, high-resolution, and interference-free remote control of computers and peripherals, offering both reliability and scalability for professional applications.

Article Content

4K Fiber KVM Extender up to 550m for Remote PC Control

With the advanced fiber optic technology, this 4K KVM extender provides anti-electromagnetic interference and zero

Fiber KVM Extender

Single Mode & Multi Mode (Five Fiber) Fiber KVM Extenders. Dual Monitor DVI.

Using fiber optics for KVM extension.

If you're sending KVM signals between buildings for an extended distance, in areas supplied by different power sources, in an

AV Access Unveils 4KIP500F-KVM: 550m KVM

AV Access, a leader in Pro AV and AV over IP solutions, is excited to announce the launch of

KVM Fiber Optic Extenders over Fiber up to 70 km

The Fiber Extender is designed to extend signals over Optical Fiber for long-distance transmission. Rextron is good at providing a

KVM Extenders:Fibre-Optic:

The DVI-7360 is a high-speed, HDCP compliant fiber optic transport system capable of distributing high resolution HDMI or DVI

Secure High Performance KVM Extenders and Matrix Switches

Thinklogical provides secure, high-performance, fiber-optic KVM extenders and matrix switches that offer uncompressed, high

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KVM Over Fiber Extenders provide remote computer monitoring and management from distances up to 1,400 feet away! Extend

KVM Extender Fiber

The KVX HDMI KVM Extender lets you control a server, or computer over single-mode or multi-mode fiber

4K@60Hz HDMI™ Extender (Loop)

UHD-FO10-KVM is a high-performance signal transmission solution designed for ultra-long-distance AV

USB True 4K DisplayPort/HDMI Optical KVM Extender

The CE980 is a USB DisplayPort/HDMI Optical KVM Extender that extends KVM signals over fiber-optic

AV Access 4K HDMI Fiber KVM Extender Over IP, up to

Featuring DIP switch pairing, this 4K fiber optic KVM extender ensures quick and simple setup. The user

KVM Extenders over Fiber

KVM Extenders over Fiber Extend a monitor, keyboard, and mouse away from a computer with no loss of signal using fiber optic

CONSIDERATIONS FOR FIBER

CONSIDERATIONS FOR FIBER-BASED KVM EXTENSION If you're sending KVM signals between buildings for an extended

KVM Matrix Switch, Fiber Optic KVM Extender, KVM Extender over Fiber ...

AVCIT provides Fiber KVM Matrix system with simple and smart user experience without wasting any fiber ports. Thanks to its

4K HDMI KVM Extender over Fiber

REMOTE ACCESS: USB & 4K HDMI KVM extender over fiber controls a KVM switch/console or PC using a fiber optic cable at

4K KVM Extender over Fiber

The transmitter and receiver could be connected to each other directly with a duplex OM4 fiber optic cable, extending

KVM Extender Fiber

The KVX HDMI KVM Extender lets you control a server, or computer over single-mode or multi-mode fiber

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The ATEN CE980 USB True 4K DisplayPort/HDMI Optical KVM Extenders ensure transmission of True 4K video, KVM and control

StarTech DisplayPort KVM Extender Over Multimode Fiber, 4K

The Fiber Optic KVM Extender allows for control of a KVM switch, console, or PC from a distance of up to 984ft (300m). The

StarTech 4K 60Hz HDMI KVM Extender Over Fiber, SFP+ Kit, 300m

This HDMI KVM extender kit lets you use a keyboard, mouse and monitor to remotely control any computer over a point-to-point fiber

Fiber KVM Matrix System Market 2026-2034

Fiber KVM Matrix System Market Insights Global Fiber KVM Matrix System market size was valued at USD 609

KVM Fiber Extenders HDMI DisplayPort VGA USB Singlemode

KVM Extenders over Fiber Extend a monitor, keyboard, and mouse away from a computer with no loss of signal using fiber optic

10 Best 4K KVM Over IP Switches for Ultimate Control and Flexibility

Offering zero latency and impressive 4K ultra HD transmission, the AV Access 4K HDMI Fiber KVM Extender Over IP

How Fiber Optics and KVM Extenders Connect Buildings Miles Apart

Let's connect these two buildings using fiber optics and a KVM extender. The BZBGear® BG-UHD-18GFE

KVM Switches, Extenders & Matrix Systems | Black Box

Optimize your workspace with Black Box KVM solutions. Gain seamless, high-performance control over multiple servers and

CE680

The Aten CE680 is a DVI Optical KVM Extender that overcomes length restrictions of standard DVI cables by using fiber optics to

4K@60Hz DisplayPort Extender (Loop)

Ultra-Long Distance 4K DisplayPort Extension The DP-FO10-KVM is a high-performance DisplayPort over fiber-optic extender

Amazon : KVM Extender

AV Access HDMI KVM USB Extender Over Cat5e/6/6a/7 to 260ft/80M | 2 USB 2.0 Ports, Zero-Latency, Plug and Play, PoE,

4K HDMI Over Fiber Optic Extender with KVM LC Singlemode up

About this item □4K HDMI over Fiber□- Extend 4K HDMI signal through a Fiber Optic cable to remote transmission, Up to

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Fiber Multipoint Extension System DVI or VGA Up To 1920 x 1200 @ 60Hz Extend up to 1400ft Supports

Thinklogical Video Extension Systems (KVM extenders)

Thinklogical Low-latency fiber-optic and CATx HDMI, DisplayPort, USB 2, USB 3, video, audio and KVM extenders up to 4K@60Hz.

DisplayPort KVM Extender over Fiber Optic, 4K 60Hz, Console

FIBER OPTIC KVM EXTENDER: Control a KVM switch, console, or PC at a distance of up to 984ft (300m) away over multi-mode

Modular KVM Extender

Modular KVM extender cards support HDMI and USB HID for Fiber Optic connectivity. The DKM extender setup provides the widest

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