

Fiber Optic KVM System Solution

Article Overview

A fiber optic KVM system package allows remote control of computers over long distances with high-resolution video, USB peripheral support, and zero-latency transmission.

Key Features

High-Resolution Video Transmission: Modern fiber optic KVM extenders support up to 4K HDMI or DisplayPort video at 30-60Hz, ensuring clear visuals for professional applications such as control centers, hospitals, universities, and large buildings . **Long-Distance Capability:** Depending on the model, fiber KVM extenders can transmit signals over hundreds of meters to tens of kilometers. For example, the AV Access 4KIP500F-KVM transmits up to 550 meters over multi-mode fiber, while Rextron extenders can reach up to 70 km using single-mode fiber . **USB and Peripheral Support:** These systems typically include USB 2.0 ports for keyboards, mice, touchscreens, and other peripherals, with data transfer rates up to 480 Mbps. Some models also support USB cameras, IR, RS-232, and audio signals for full remote workstation control . **EMI Immunity and Stability:** Fiber optic connections eliminate electromagnetic interference (EMI) and provide optical isolation, ensuring uninterrupted and stable video and data transmission even in high-EMI environments . **Plug-and-Play Installation:** Many packages offer easy setup with DIP switch pairing and compatibility with standard Gigabit Ethernet switches, allowing multiple transmitter and receiver pairs to be connected without complex VLAN configuration . **Scalability:** Some systems support up to 16 transmitter-receiver pairs via a single Ethernet switch, making them suitable for large-scale deployments . **Package Components:** A typical fiber optic KVM package includes a transmitter unit, receiver...

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KVM Extender over Fiber

The KVX HDMI/DisplayPort Dual Head KVM Extender lets you control a server or computer over a single-mode or multimode cable

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The DKM FX system enables flexible, instantaneous, and reliable matrix switching and extension of high-quality video, audio, and

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Fiber 4K30 HDMI+USB KVM-Extender over IP (max. 500m MM), Zero Latency ...

With the capability to support up to 16 pairs of transmitter (TX) and receiver (RX) devices

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VIDEOCAST 20km (HD) hdmi USB kvm Fiber Extender

Summary: The VIDEOCAST 20km (HD) HDMI USB KVM Fiber Extender Over IP is a powerful solution for

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Thinklogical manufactures mid-to-large scale fiber-optic KVM matrix switches that are IA-accredited to manage multiple

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KVM Switches, Extenders & Matrix Systems | Black Box

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

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HDBaseT_Fiber_KVM Extender_Brochure

ATEN Fiber Optic KVM Extenders utilize single-mode or multi-mode optic fiber cables to extend AV, RS-232, or USB signals at

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KVM Extenders | Matrox Video

Matrox Extio 3 works as either a point-to-point (fiber optic or copper), or networked KVM extension and switching solution, leveraging

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4K KVM Extender over IP with Zero Latency, Plug & Play

AV Access 4KIP100-KVM is an HDMI KVM extender kit with a transmitter and a receiver. It

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Emerald® 4K KVM over IP

The award winning Emerald 4K KVM over IP is a Unified KVM system that delivers pixel-perfect HD or 4K video over an IP network.

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Professional KVM Extension Systems | Black Box

KVM switches and extenders are devices that allow operators to share and control remote PCs, servers, and virtual machines from

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Shop KVM Fiber Extenders | Markertek

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

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AV Access Unveils 4KIP500F-KVM: 550m KVM

With unmatched stability against electromagnetic interference, this solution is perfect for

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KVM Over Fiber, Phinx

AVCiT Fiber KVM Collaboration System (non-IP) is based on distributed and scalable architecture with optional features, which can

Sep 01, 2025

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

Nov 06, 2025

KVM-over-IP-Matrix-System-Product-Guide

Leading the World in KVM Innovations World acclaimed for innovations that drive connectivity and access solutions, ATEN brings

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Fiber Distribution KVM Matrix System Market Outlook 2026-2034

Deploying Fiber Distribution KVM Matrix System Market solutions involves substantial upfront investments in

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CE680 Aten USB and DVI Fibre Optic 600m KVM

Aten CE680 USB DVI Fibre 1920x1200@600m KVM extender with audio and picture perfect quality.

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KVM Solutions

IHSE is a leading developer and manufacturer of KVM solutions for secure, user-friendly and efficient access to remotely located

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

AV Access 4KIP500F-KVM fiber KVM extender, transmitting 4K HDMI and USB signals up to 550m/1800ft with zero latency. Works

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KVM Fiber Optic Extenders over Fiber up to 70 km | Rextron KVM

Rextron is good at providing a variety of KVM solutions, including Fiber KVM extenders. Our extender can extend the video, USB, IR,

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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

Jun 26, 2026

StarTech 4K HDMI KVM Extender Over Fiber

About this item USB and 4K HDMI KVM extender over fiber controls a KVM switch/console or PC using fiber optic cable up 4K 60Hz

Sep 07, 2025

KVM-over-IP or classic KVM: how to choose a system fitting your

Dedicated twisted pair cables or optical fibers integrate the remote workplaces (equipped with CON user modules)

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Fiber KVM Extender

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

Oct 22, 2025

USB True 4K DisplayPort/HDMI Optical KVM Extender

Deploying the CE980 enables long-distance KVM extension of up to 300 meters via a fiber optic

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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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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

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