How much does a KVM fiber optic matrix interface cost

Overview

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

Key Takeaways

KVM fiber optic matrix interfaces typically range from several thousand to tens of thousands of dollars, depending on resolution, number of ports, and distance capabilities.

Cost Overview

The price of a fiber optic KVM matrix system depends on several factors: Resolution and Video Quality: Systems supporting 4K or higher resolutions, such as the Matrox Extio 2 or AV Access 4KIP500F-KVM, generally cost more due to high-bandwidth requirements and uncompressed or visually lossless video transmission. Number of Ports and Users: Matrix systems that allow multiple users to control multiple computers simultaneously are more expensive than simple point-to-point extenders. Expanding from 2–4 screens to 16 or more can significantly increase cost.

Transmission Distance: Single-mode fiber extenders capable of transmitting signals over 10 km or more are pricier than short-range multi-mode fiber solutions. Additional Features: USB support, audio transmission, low-latency performance, and IP-based switching capabilities add to the overall cost. Typical Price RangesPoint-to-Point Fiber KVM Extenders: For dual-monitor setups over short distances (up to 500 m), prices generally range from $1,500 to $5,000 per extender pair.

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High-

End Multi-

User Matrix Systems: Large-scale fiber KVM matrix systems for control rooms or broadcast studios can cost $10,000 to $50,000 or more, depending on the number of inputs/outputs, supported monitors, and distance. Market Context: The global fiber KVM matrix system market was valued at USD 609 million in 2025 and is projected to grow steadily, reflecting increasing demand for high-performance remote access solutions in data centers and broadcast environments.

Cost-

Saving Considerations

Modular Expansion: Some systems, like the Matrox Extio F2408E, allow incremental expansion of screens and users, which can reduce upfront costs.

Multi-

Mode vs.

Single-

Mode Fiber: Multi-mode fiber is cheaper but limited in distance, while single-mode fiber supports longer distances at higher cost. Vendor Selection: Prices vary by manufacturer; key players include Matrox, ATEN, Black Box, StarTech.com, and AV Access. In summary, KVM fiber optic matrix interfaces are a significant investment, with costs influenced by resolution, distance, number of users, and system complexity.

For precise pricing, requesting quotes from vendors based on your specific configuration is recommended.

Article Content

Shop KVM Fiber Extenders | Markertek

KVM Over Fiber Extenders provide remote computer monitoring and management from distances up to 1,400 feet away! Extend USB, Keyboard, Mouse, Stereo Audio, VGA and RS-232 signals to your

FOX3 Matrix 40x

The Extron FOX3 Matrix 40x provides high-performance switching of 4K/60 video, audio, USB, control, and 3D sync over fiber optic cable. Expandable from 8x8 up to 40x40, this modular matrix switcher

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5K DisplayPort dual-video KVM over IP over CATx or fiber-optic, for point-to-point KVM extension, KVM splitting, KVM switching, and multipoint-to-multipoint KVM matrix switching.

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High-performance, single-head DisplayPort, HDMI, and DVI CATx and fiber-optic KVM-over-IP extension & matrix-switching, w/ USB peripherals, audio, optional RS232 & IR

KVM Extenders:Fibre-Optic:

DP KVM-Over-IP Extender/Matrix Device – Single Head, CATx + Fiber Extend, control, and manage your DP-based workstation over IP with the P2P-KDT300. Supporting flexible Direct,...

Black Box DKM Modular KVM Extender Fiber Optic, 4K30 DisplayPort

The DKM FX Modular KVM Extender Interface Card extends visually lossless, high-resolution DisplayPort signals over CATx cable. It also features two USB HID ports so you can easily connect

24 x 24 10Gb Multimode Fiber Matrix Switch

Call 1-877-586-6654 for discounted pricing and ordering information. The TLX24 offers a compact, high performance, non-blocking matrix switch for complete, end-to-end routing of video and peripheral

Black Box DKM Compact II KVM Matrix Switch

Shop Black Box DKM Compact II KVM Matrix Switch - Fiber for seamless high-performance KVM routing. Enjoy free shipping and 15-day returns on all orders.

KVM switch

A KVM switch (with KVM being an abbreviation for "keyboard, video, and mouse") is a hardware device that allows a user to control multiple computers from one or

KVM Extenders | Matrox Video

IP KVM Extenders Matrox Extio 3 works as either a point-to-point (fiber optic or copper), or networked KVM extension and switching solution, leveraging standard Gigabit network infrastructure to securely

KVM Matrix Switch

Get enterprise-level KVM features in a compact form Scale from 40 to 80 to 160 Ports Extend video, USB, and audio up to 10 km (6.2 miles) over fiber Support 4K 60 4:4:4 video with 10-bits per color

From Millivolts to Volts A Practical LM358 Amplifier Tutorial

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The lm358 is a versatile and beginner-friendly op-amp. This tutorial guides you in building a simple non-inverting amplifier circuit. You will use the popular lm358 to boost a small DC voltage

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 dynamic ports, any PHINX ports can be automatically detected as input for

DKM Modular KVM Matrix Switching | Black Box

The DKM FX system enables flexible, instantaneous, and reliable matrix switching and extension of high-quality video, audio, and peripheral signals. Choose from chassis-based, modular KVM matrix

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KVM Extenders:Fibre-Optic:

P2P-KDR300 - SmartAVI - Single Head DP KVM-Over-IP Extender/Matrix Switch, CATx + Fiber, DP Receiver (P2PKVM Series) DP KVM-Over-IP Extender/Matrix Device – Single Head, CATx + Fiber

KVM over IP Matrix System Implementation Guide

ATEN''s KVM over IP Matrix Manager (CCKM) allows you to create custom video walls. The KVM over IP Matrix System''s multicast functionality means it is able to broadcast packets.

Complete Guide To KVM Switching & Extension

What is KVM extension and KVM switching? KVM extension technology offers point-to-point extension of computer signals over a certain physical distance. Like this, it enables users to remotely access a

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