How much does a KVM fiber optic matrix cost



Overview

How much does a KVM fiber optic matrix cost in the USElevated upfront costs for fiber transceivers and matrix switches, often 30-50% higher than alternativ.

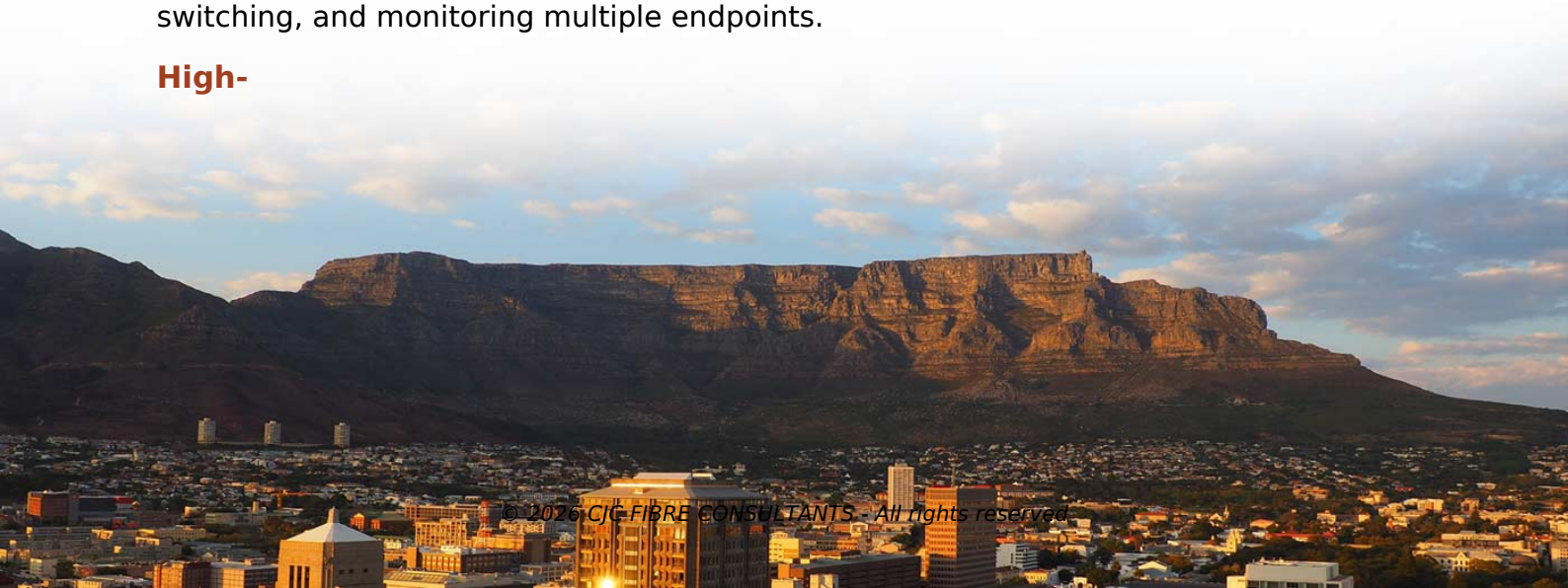
Key Takeaways

KVM fiber optic matrix systems typically range from $3,000 for basic extenders to over $100,000 for large-scale, high-performance matrix switches. Pricing OverviewEntry-Level Extenders: Single or dual-head KVM fiber optic extenders for point-to-point setups generally cost $3,000–$8,000 per transmitter/receiver pair. Examples include the ADDERLink XD150FX and ATEN CE980, which support high-resolution video (up to 4K or dual 5K) and USB/Audio extension over distances up to 1,400 feet (425 meters).

Mid-

Range Matrix Systems: Small to medium KVM matrices with 12–64 ports, supporting uncompressed 4K video, USB, and audio over fiber, typically range from $15,000–$50,000. These systems often include management software for routing, switching, and monitoring multiple endpoints.

High-



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End Enterprise/

Defense Matrices: Large-scale, IA-accredited or TEMPEST-certified fiber optic KVM matrices, such as Thinklogical TLX series, can scale from 128 to over 1,000 ports. Prices for these high-performance, secure systems can exceed $100,000, depending on port count, video resolution, and security certifications (EAL4, NATO GREEN, TEMPEST SDIP 27 Level B).

Factors Affecting Cost

Port Count and Scalability: More ports and higher scalability increase the price significantly. Video Resolution and Bandwidth: Support for 4K, 5K, or dual-head displays requires higher bandwidth and more expensive hardware. Distance and Fiber Type: Single-mode fiber for long distances (up to several kilometers) is more costly than multimode fiber for shorter runs.

Security Certifications: IA, TEMPEST, and other compliance certifications add to the cost, especially for defense or government applications. Management Features: Advanced matrix management software, remote monitoring, and integration with existing IT/AV infrastructure can increase overall system cost.

Vendor Examples

Adder Technology: ADDERLink INFINITY 4000 Series, dual-head 5K over single fiber, point-to-point or matrix integration. Thinklogical: TLX series, scalable 12–1280 ports, uncompressed 4K video, IA-accredited. SmartAVI & ATEN: Offer single-head and dual-head HDMI/DVI fiber extenders with CATx + fiber options for professional AV setups.

In summary, KVM fiber optic matrix pricing varies widely based on scale, resolution, distance, and security requirements. For small setups, expect a few thousand dollars per extender, while enterprise-grade matrices for secure, multi-classification environments can exceed six figures.

Article Content

How much does a KVM fiber optic matrix cost in the US

Elevated upfront costs for fiber transceivers and matrix switches, often 30-50% higher than alternatives, deter small-to-medium enterprises from adoption despite long-term savings.

Fiber KVM Extender

NTI ST-FOUSBVARS-LC12V VGA USB KVM Extender via One LC Singlemode/Multimode Fiber Optic Cable $995.00 NEW ADD TO CART

Thinklogical TLX Matrix Switches EAL4

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High-performance KVM matrix switches able to support uncompressed 4K @ 60Hz 4:4:4 video. The TLX series offers protocol agnostic, non-blocking 10Gbps performance and a flexible and efficient hybrid

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,...

Fiber 4K30 HDMI+USB KVM-Extender over IP (max.

With the capability to support up to 16 pairs of transmitter (TX) and receiver (RX) devices via a single Gigabit Ethernet switch, this fiber optic KVM extender offers

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

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

KVM Matrix Systems: Flexible operator station administration

The KVM matrix system CATCenter NEO can be configured per Web interface. A network connection is integrated in all CATCenter NEO model versions (SNMP, Syslog, monitoring

FOX3 Matrix 24x

The Extron FOX3 Matrix 24x provides high-performance switching of 4K/60 video, audio, USB, control, and 3D sync over fiber optic cable. Expandable from 8x8 up to 24x24, this modular matrix switcher

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

Featuring DIP switch pairing, this 4K fiber optic KVM extender ensures quick and simple setup. The user-friendly feature eliminates complex configuration processes, enabling you to get your system up

A Capella: A Unique Compilation | PDF | Wellness

A Capella: A Unique Compilation This document contains a long list of words beginning with "ab-" or "ac-". It does not appear to be a coherent text, but rather a collection of unrelated terms.

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

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

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unsupervised_topic_modeling/topics/en/13/100/100/topics at ...

Contribute to annontopicmodel/unsupervised_topic_modeling development by creating an account on GitHub.

Is OLED Better Than LED for 2025 Displays | ODG

What does OLED mean for 2025 displays? OLED offers deeper blacks, vibrant colors, and faster response than LED, but LED excels in brightness and lifespan.

How much does a KVM fiber optic matrix cost in the US

Fiber Distribution Kvm Matrix System Market: A Comprehensive Leverage emerging technologies in fiber optics, such as photonic integrated circuits, to create innovative KVM solutions that offer

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The Giant Easter Egg Song Ps. can baby guppies be, back put in tank socially responsible interior, than design rati skifterat 2 install: else coil spring insulators datasia todd para

From Millivolts to Volts A Practical LM358 Amplifier Tutorial

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

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 signals over a single fiber optic cable, extending up to 984ft/300m. The

KVM Extenders from Your Extender Experts

A standard CATx/Fiber KVM extender allows you to access a extend the distance between a local computer and a user console via a CATx or Fiber cable. Standard KVM extenders are great for local

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