

Pricing of Fiber Optic KVM Solutions



Overview

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

Key Takeaways

Fiber optic KVM solutions typically range from \$1,000 to over \$10,000 per extender pair, depending on distance, resolution, and features. Pricing Overview

The cost of a fiber optic KVM extender depends on several factors:

- **Transmission Distance:** Short-range extenders (up to 500 meters) are generally less expensive, while long-range extenders (up to 70 km) can cost significantly more due to the need for single-mode fiber and advanced SFP modules .
- **Video Resolution:** Extenders supporting 4K or dual 4K video at 60Hz are priced higher than those supporting lower resolutions or single HDMI/DisplayPort outputs .
- **Connectivity and Peripherals:** Devices with multiple USB ports, audio, IR, or RS-232 support, and the ability to control multiple PCs via Ethernet switches, increase the overall cost .
- **Single-mode vs Multi-mode Fiber:** Single-mode fiber extenders for long distances are more expensive than multi-mode fiber extenders for shorter distances .

- **Brand and Warranty:** Established brands like AV Access, Black Box, and Rexton may charge premium prices for reliability, support, and warranty coverage .

Example Solutions

- **AV Access 4KIP500F-KVM:** Supports 4K HDMI and USB signals up to 550 meters over multi-mode fiber, with zero latency and Ethernet integration for up to 16 transmitter/receiver pairs. Typical market pricing for similar 4K multi-mode extenders ranges from \$1,500 to \$3,000 per pair .

- **Black Box KVM Series:** Single-mode fiber extenders capable of distances up to 30 km, supporting DisplayPort, USB 2.0, audio, and serial connections. These solutions are generally priced \$5,000 to \$10,000 per pair, depending on distance and features .

- **Rexton Fiber KVM Extenders:** Offer a wide range of options, including dual 4K60 HDMI extenders up to 20 km and single HDMI extenders up to 70 km. Prices vary widely, from \$2,000 for short-range 500m extenders to \$12,000+ for ultra-long-range 70 km extenders .

Cost Considerations

- **Installation and Cabling:** Fiber optic cabling, SFP modules, and switches add to the total cost. Multi-mode fiber is cheaper than single-mode fiber for long distances.
- **Scalability:** Extenders that allow multiple PCs to be controlled via a single switch may reduce per-PC costs in large deployments.
- **Environmental Requirements:** EMI-prone or harsh environments may require specialized extenders, which are more expensive.

Summary

For most professional applications, short- to medium-range 4K fiber KVM extenders cost between \$1,500 and \$3,500 per pair, while long-range single-mode extenders for distances over 10 km can exceed \$10,000 per pair. The final cost depends on resolution, distance, peripheral support, and deployment complexity .

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KVX is the perfect low-cost solution for transportation control centers, medical facilities, industrial warehouses, and extended

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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

Emerald® 4K KVM over IP

Black Box implemented an Agility KVM Extender solution over 50 miles of fiber optic cabling, providing reliable and secure

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

Thinklogical Video Extension Systems (KVM extenders)

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KVM Fiber Extenders HDMI DisplayPort VGA USB Singlemode

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VE883 Aten 4K HDMI Fibre Optic Extender up to 300m

Description The VE883 is a fiber-based extender designed to extend uncompressed 4K signal up to 300 m (using VE883K1) or 10

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

Fiber Distribution KVM Matrix System Market 2026 to 2034

A Fiber Distribution KVM Matrix System is a specialized KVM (Keyboard, Video, Mouse) matrix system that uses fiber

Amazon : KVM Extender

OREI KVM 4K HDMI Over Ethernet Extender Balun Over CAT6/7 Cable 4K@60Hz Upto 230 Feet - 2 USB 1.1 Ports, Supports

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