

KVM Fiber Optic Matrix Interface



Overview

● Fiber-based IP transmission reduces dedicated cabling and delivers stable, EMI-free KVM extension. ● Up to 550m transmission extends HDMI, USB, and audio signals over duplex OM4 multi-mode. Matrox KVM extenders allow you to centralize systems in a secure server room, and control them from a distance without compromising performance. Matrox KVM extenders can extend signals—such as keyboard, mouse, audio, video, RS232, and USB—over fiber, copper, LAN, or private WAN. Single Mode & Multi Mode (Three Fiber) Fiber KVM Extenders. Thanks to dynamic ports of KVM Matrix switch, any PHINX ports can be automatically detected as inputs for the computers, or outputs for the user ports, as soon as the KVM over Fiber. The Extron FOX3 Matrix 80x provides high-performance switching of 4K/60 video, audio, USB, control, and 3D sync over fiber optic cable. Expandable from 8x8 up to 80x80, this modular matrix switcher also features RS-232 insertion from the Ethernet port, extending bidirectional control to any FOX3. If you're sending KVM signals between buildings for an extended distance, in areas supplied by different power sources, in an electrically noisy environment, or where data security is a big concern, you need to use a fiber optic-based KVM extender.



Article Content

May 28, 2026

KVM Matrix Systems: Flexible operator station administration

Both KVM matrix systems access the external server interfaces via the CATPro2 server modules (connection dongle).

Aug 05, 2025

Ultra-Secure 8x8 KVM Fiber Optic Matrix

FXCORE-PRO Ultra-Secure 8x8 KVM Fiber Optic Matrix Manage uncompressed signals and secure KVM functions over long

May 12, 2026

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

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

Jul 26, 2026

KVM Switches, Extenders & Matrix Systems | Black Box

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

Nov 20, 2025

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

Jul 20, 2026

KVM over IP vs. Non-IP KVM Matrix: Advantages and Comparison

Introduction to KVM over IP and comparison between IP KVM switch and the general AV/KVM matrix switch, with advantages of

Jun 01, 2026

KVM over IP Matrix System Implementation Guide

1. Introduction The ATEN KVM over IP Matrix System is a solution that combines KVM over IP Extenders with the KVM over IP

Aug 05, 2025

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

Sep 23, 2025

KVM Matrix Switch, Fiber Optic KVM Extender, KVM

AVCIT provides Fiber KVM Matrix system with simple and smart user experience without wasting any fiber

May 20, 2026

KVM Extenders:Fibre-Optic:

DP KVM-Over-IP Extender/Matrix Device - Single Head, CATx + Fiber Extend, control, and manage your DP-based workstation over

May 31, 2026

Matrix Switch

DKM Compact KVM Matrix Switch - 8-Port, High-Speed Singlemode Fiber, Redundant Power Scalable, flexible and instantaneous

Sep 22, 2025

KVM Extenders | Matrox Video

With best-in-class resolution and multi-monitor support, our KVM product line includes solutions for direct point-to-point or switchable

Sep 12, 2025

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

The KE9950 / KE9952 / KE8950 / KE8952 (4K DisplayPort/HDMI KVM over IP Extenders) and KX9970 / KX9970F (5K DisplayPort

Feb 01, 2026

FOX3 Matrix 80x

Equipped with many integrator-friendly features, the FOX3 Matrix 80x delivers highly reliable, enterprise

Jan 12, 2026

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

May 08, 2026

Thinklogical TLX Matrix Switch TLX24 Matrix Switch

TLX Matrix Switches are high performance, modular, non-blocking switches for complete, end-to-end switching of video, audio and

Apr 12, 2026

KVM Extenders with HDMI/DP/DVI/VGA/USB-C Inputs

Rextron KVM extender is the best solution to control the computer and server at a distance. Typically, it consists of a transmitter and

Aug 18, 2025

Extio 3 Series | Dual Monitor IP KVM Extenders | Matrox Video

Extio 3 KVM extenders support 4:4:4 applications at low bitrates over standard 1 GbE networks. Featuring two DisplayPort™

Oct 13, 2025

Selecting a KVM Extender | Key Considerations | Matrox Video

How does a KVM extender work? KVM extenders consist of a transmitter and receiver pair. A transmitter unit is located next to the

Oct 25, 2025

24 x 24 10Gb Multimode Fiber Matrix Switch

Thinklogical's TLX24 incorporates a push button interface, for simplified access and control. TLX24 Features 24 Multimode Fiber

Jun 30, 2026

Proprietary KVM Matrix Switching and Extension

DKM FX KVM Matrix Switches The DKM KVM matrix system enables flexible, instantaneous, and reliable matrix switching and

Dec 26, 2025

KVM over IP Matrix System | ATEN Corporate Headquarters

Slim Matrix Ideal for small-scale control room applications, the slim matrix KVM over IP system supports up to 12 transmitters and

Mar 20, 2026

Aten KE Series

Matrix mode Many-to-Many: Delivering the ultimate in flexibility and performance, in this mode the ATEN KVM Over IP Matrix System

Oct 27, 2025

Modular KVM Extender

The DKM FX Modular KVM Extender Interface Card extends visually lossless, high-resolution DisplayPort signals over fiber cable. It

Apr 18, 2026

Secure High Performance KVM Extenders and Matrix Switches

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

Contact Us

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