

KVM Optical Matrix



Article Overview

A KVM Optical Matrix system allows multiple computers or servers to be controlled from multiple operator stations over fiber-optic or networked connections, providing high-resolution, low-latency, and secure remote access.

Overview

A KVM (Keyboard, Video, Mouse) Optical Matrix combines the functionality of KVM extenders and KVM switches, enabling centralized management of multiple computers or servers from distributed operator stations. These systems are widely used in control rooms, broadcast studios, data centers, and mission-critical environments where secure, high-performance remote access is required .

Key Components

- **Central Matrix Switch:** The core module that manages connections between operator stations and servers, allowing dynamic switching and routing of signals .
- **KVM Extenders:** Extend keyboard, video, mouse, USB, audio, and RS232 signals over long distances using fiber-optic or CATx cables, ensuring minimal latency and high-quality video transmission .
- **Operator Station Units (CON):** User consoles with monitors, keyboards, and mice that connect to the matrix to control multiple servers .
- **Server Modules (CPU):** Interface devices that connect servers to the matrix, enabling remote control and signal transmission .

Features and Capabilities...

Article Content

4x2 HDMI KVM Matrix Switch, 4K@60Hz KVM Switch + Optical

About this item □4 Ports USB KVM HDMI Matrix Switch Box□ NEWCARE 4K HDMI KVM Switcher allows you to control 4 computer

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

KVM Extenders:Fibre-Optic:

P2P-KHT300 - SmartAVI - Single Head HDMI KVM-Over-IP Extender/Matrix Switch, CATx + Fiber, HDMI Transmitter (P2PKVM

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

KVM matrix systems | Guntermann & Drunck GmbH

KVM matrix systems help you to operate complex IT infrastructures simply and intuitively. Benefit from the

ATEN KVM over IP Matrix System Implementation Guide

2. KVM over IP Matrix System Components The KVM over IP Matrix System lets you set up a matrix of workstations

Secure High Performance KVM Extenders and Matrix Switches

Thinklogical provides secure, high-performance, fiber-optic KVM extenders and matrix switches that offer uncompressed, high

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

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

4K HDMI® IP KVM Matrix Extender

This series of extenders can be connected to an 1G network switch to form a matrix switching system,

9-Console 32-Port Cat 5 Matrix KVM Switch with Daisy-Chain Port

ATEN Matrix KVM Switches are designed for modern data centers that require reliable, high security access and control of multiple

Using fiber optics for KVM extension.

Using fiber optics for KVM extension. Where to use? If you're sending KVM signals between buildings for an extended distance, in

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

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

A KVM matrix system lets users operate multiple computers from different workstations. Dedicated twisted pair cables

KVM Matrix Systems: Flexible operator station administration

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

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

4K HDMI® IP KVM Matrix Extender over Cat5/Fiber

The video compression algorithm of the IP HD digital KVM matrix extender is a perfect combination of high

KVM Matrix Switch

The DKM Compact II KVM Matrix Switches come in sizes of 1, 2, or 4 RU. With their capability to facilitate 1G and 3G technology

KVM matrix switches: 5 questions – 5 answers

What are KVM matrix switches? What features are important? And how does a KVM matrix

4K HDMI® IP KVM Matrix Extender over Cat5/Fiber

High Resolution: This IP KVM matrix extender supports up to 1920 x 1080@60Hz. Number of Screens: 2 Low latency: Support

Proprietary KVM Matrix Switching and Extension

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

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

ATEN KVM over IP Matrix System | KE Series

The KVM over IP Matrix Manager (CCKM) is a management software that allows you to define connections

KVM Extenders | Frequently Asked Questions | Matrox Video

IP KVM extenders offer many advantages over point-to-point KVM extenders. They enable the design of KVM matrix systems over

2-Port 4K DisplayPort Dual Display Mini-Matrix

The CM1942 2-Port 4K DisplayPort Dual Display Mini-Matrix Boundless KVM Switch, combining a 2-port

Contact Us

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