KVM Switch Control Platform



Overview

Barco CTRL transforms the traditional KVM paradigm from a switching tool into a comprehensive control room platform.

Key Takeaways

A KVM switch control platform allows centralized management of multiple computers or servers using a single keyboard, monitor, and mouse, with options for both hardware and software implementations.

Overview of KVM Switches

A KV

M switch (Keyboard, Video, Mouse) is a device that enables operators to control multiple computers from a single set of peripherals, reducing workspace clutter and equipment costs while simplifying system management.

Traditional KV

M switches require physical proximity, connecting computers directly via cables, whereas KVM-over-IP solutions transmit signals over a network, allowing remote access to systems across a campus or data center.

Hardware KVM Platforms

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Hardware KV

M platforms, such as Raritan's Dominion KX series, provide high-performance, scalable solutions for data centers, labs, and server rooms. Key features include: Multi-platform support: Connects to 8, 16, 32, or 64 servers and serial devices. Remote access: Operators can manage systems from anywhere via IP networks.

High-resolution video: Some models support Ultra HD 4K for detailed monitoring. Redundancy and failover: Network-based architecture enhances reliability. Integrated management: Platforms like CommandCenter consolidate access to multiple KVM switches and serial devices.

Other hardware options include serial-over-IP access for managing legacy devices and rackmount console drawers for at-the-rack access in space-constrained environments.

Software-

Based KVM Solutions

Software KVM platforms mimic hardware functionality without requiring physical switches. Examples include: Barrier: Open-source software that allows a single keyboard and mouse to control multiple computers by moving the cursor across screens or using hotkeys. It supports Windows, macOS, Linux, and FreeBSD, and includes clipboard sharing.

Other free and open-source software KVM solutions provide similar functionality, often with cross-platform support, TLS encryption, and compatibility with modern display servers like Wayland.

Software KV

Ms are ideal for setups where physical hardware is impractical or for users seeking cost-effective, flexible solutions. Choosing a KVM PlatformWhen selecting a KVM control platform, consider: Number of systems: Hardware KVMs scale well for large server environments. Remote access needs: KVM-over-IP or software solutions enable offsite management.

Video quality requirements: High-resolution monitoring may require advanced hardware. Budget and infrastructure: Software KVMs are cost-effective, while hardware KVMs offer robust enterprise features. Security: Ensure encryption and access controls, especially for remote management.

In summary, a KVM switch control platform can be implemented via hardware or software, providing centralized control, improved efficiency, and scalability for managing multiple computers or servers in both local and remote environments.

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Article Content

Guide to KVM in control rooms

Barco CTRL transforms the traditional KVM paradigm from a switching tool into a comprehensive control room platform. While it functions as a powerful KVM over IP solution, it delivers far more – creating

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Control multiple computers with one keyboard, mouse, and monitor using our recommended KVM switches, with setup guides, troubleshooting tips, and security considerations for

6 Best Free and Open Source Software KVM Switches

This roundup focuses on software that mimics a hardware KVM switch. Use a single keyboard and mouse to control multiple computers by moving your mouse to the edge of the screen,

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 Solutions

High performance KVM-over-IP switches for data centers, labs and server rooms. A single switch can connect to 8, 16, 32, or 64 multi-platform servers and serial devices.

KVM Systems, KVM Matrix and KVM-over-IP | WEYTEC

With our KVM systems, WEYTEC enables fast switching between different computers and applications. This is essential when fast response times and real

Top 10 Best Kvm Switch Software | Ranked for 2026

This buyer''s guide covers KVM switch software workflows that replace desk switching with browser consoles, VM management control planes, or networked keyboard and mouse routing.

Barco CTRL

Barco CTRL is an all-in-one KVM over IP solution for control rooms. Managing both desk and wall, this solid platform gives you control over the information flow in an easy, intuitive and secure way.

KVM matrix systems | Guntermann & Drunck GmbH

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Industrial automation: Using the KVM matrix provides access and control to a variety of computers, control systems and industrial equipment. The KVM matrix allows

TinyPilot | KVM over IP for Standardized Out-of-Band Access

Never lose access. TinyPilot standardizes out-of-band access with KVM over IP and enables automated, AI-assisted recovery even when the OS or network fails.

The Best KVM Switches

The Best KVM Switches Switching among your work, personal, and gaming PCs can be a slog. With a KVM switch, you can press a button and

Desktop KVM Switches | ATEN Corporate Headquarters

Check our ATEN products: KVM, Professional Audio/Video, Energy Intelligence Rack PDU, Mobility & USB, Data Communication and Cables. | Desktop KVM Switches | ATEN Corporate Headquarters

KVM over IP

PiKVM is the most advanced and open KVM over IP in the world. Get a BIOS-level remote control over your server.

6 Best Free and Open Source Software KVM Switches

The main function of a KVM switch is to control, switch between, and manage multiple PCs or servers via a single keyboard, monitor and mouse.

KVM Switches

A KVM switch allows you to control multiple computers with a single keyboard, monitor, and mouse, reducing desktop clutter and streamlining your workspace.

Guide to KVM in control rooms

KVM control room solutions: transition from basic switching to integrated platforms In control rooms where every second counts, operators need seamless access to multiple systems without the clutter

KVM Switches | Adder Technology

A KVM switch allows users to control multiple computers using a single keyboard, monitor, and mouse, reducing workspace clutter and improving efficiency. This is particularly useful in IT management,

KVM Switch Buying Guide | Eaton

KVM switches differ in the number of computers they can control, ranging from two to 64 directly connected computers. Enterprise-level KVM switches can also be

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