

KVM Switch Components



Article Overview

KVM switching components include the central switch unit, computer modules, console modules, and peripheral connections that allow seamless control of multiple computers from a single set of keyboard, video, and mouse devices.

Core Components of a KVM Switch

1. Central KVM Switch Unit The central unit acts as the hub connecting all computers and peripherals. It manages the switching process, directing keyboard, video, and mouse signals to the selected computer. In matrix systems, this central module can handle multiple users and computers simultaneously, allowing decentralized operation in large IT environments or control rooms . 2. Computer Modules (CPU Modules) Each computer connected to the KVM switch requires a dedicated computer module. These modules interface with the computer's keyboard, video, and mouse ports, transmitting signals to the central switch. They ensure that each computer can be accessed without physically reconnecting peripherals . 3. Console Modules (CON Modules) Console modules are the user-side components that connect keyboards, monitors, and mice to the KVM system. They allow users to select and control any connected computer through the central switch. In matrix systems, multiple console modules can be deployed to provide access from different locations . 4. Peripheral Connections KVM switches support various types of connections, including USB, PS/2, HDMI, DVI, VGA, and audio. USB-HID devices, such as keyboards and mice, may require full enumeration when switching between computers, while dedicated USB console ports can emulate keyboard and mouse signals to each system for faster switching . 5. Cables and Extenders Cables connect the computers and consoles to the KVM switch. For long-distance setups, KVM extenders transmit video, keyboard,...

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Most KVM switches are metal enclosures with a plastic faceplate and light emitting diode (LED) indicators. Buttons on the front of the

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Our technology manages switching, sharing, extension and conversion of all types of computer signals, including analog and digital

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Diagram of KVM switch connection setup

The KVM switch connection diagram illustrates the different components and connections involved in setting up a KVM switch. It

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The Comprehensive Guide to KVM Switches: What They Are and

The abbreviation KVM stands for "Keyboard, Video (monitor), Mouse." A KVM switch's primary purpose is to enable the

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If you're sharing USB peripherals and displays between two or more devices, a KVM switch

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Best KVM Switches in 2023

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KVM Solutions

KVM technology offers users access to video sources and remote computers in mission-critical applications. Internet and electricity

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KVM switches are the ideal solution for controlling multiple PCs and servers from a single keyboard, video

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KVM switch

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USB keyboards,

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What Is a KVM Switch?

One other option is to use a software KVM and just have an extra monitor running;
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