

KVM Switch Interconnect Risks



Overview

Compromising a Keyboard, Video, and Mouse (KVM) device gives an attacker the equivalent of physical access to every connected machine. This enables malicious actors to inject keystrokes, boot from removable media to bypass disk encryption, and alter BIOS setups to disable Secure. KVM (Keyboard, Video, and Mouse) switches have become an essential component in many industries, including finance, government, and healthcare, where multiple computers need to be accessed and managed from a single workstation. Has this created a new security risk or can this actually improve the security. analysis to identify signals and data flow patterns. In addition to blocking data leakage between multiple connected computers/ servers, a secure KVM switch can prevent eavesdropping through LCD monitors (EDID). Do KVM switches pose a security risk if I want to hook up my peripherals from my personal pc with work laptop?

I've read that they are a solution to share the use of my monitors with my work laptop without the massive hassle of unplugging/replugging awkward cables all the time. Securing an IP KVM system in a control room is paramount to ensuring the safety and integrity of your operations. These flaws uncovered by Eclipsium allow attackers to gain complete, BIOS-level control over connected systems, effectively bypassing all operating system security.

Article Content

Aug 08, 2025

How to Secure an IP KVM System in a Control Room

The integration of IP KVM (Keyboard, Video, and Mouse) systems into control rooms has revolutionized how

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Unveiling the Truth: Are KVM Switches Truly Secure?

KVM switches can be secure if proper security measures are in place, such as strong encryption, authentication, and

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How to Secure an IP KVM System in a Control Room

IP KVM systems rely on network connectivity to function. Any vulnerabilities in the network infrastructure, such as

Dec 03, 2025

10 ways to address KVM switch vulnerabilities -

Poor housing and design. The internal and external components of the switch may be vulnerable to tampering. In light of these

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IP KVM Vulnerabilities Exposed: Critical Security Flaws Threatening ...

Researchers have uncovered alarming IP KVM vulnerabilities embedded in the firmware of four major manufacturers,

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Meeting Cybersecurity Threats With Secure KVM Switches

Together, these features and capabilities enable a secure KVM switch to address the requirements of the most demanding

Oct 27, 2025

What is a KVM switch? Everything you need to know

Another benefit of a desktop KVM switch is you allow remote workers to combine their personal company computer

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NIAP 4.0 Certified Secure KVM Switches

Switch securely between classified and non-classified networks with NIAP 4.0 secure KVM solutions that protect data integrity and

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Can a KVM Switch be Hacked? Understanding the Risks and Mitigations

However, like any other network device, KVM switches are not immune to cybersecurity threats. The question on

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Are KVM Switches a Security Risk? Understanding the Vulnerabilities

However, as with any technology, KVM switches are not immune to security risks. In this article, we will delve into the

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Strengths And Weaknesses Of Using KVM Switches Over TCP/IP

It will discuss the situation before the advent of KVM using TCP/IP, and the benefits of using this new technology, along with the

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Enhancing Cybersecurity with KVM Switches: Protecting Sensitive

KVM switches help mitigate this risk by restricting access to sensitive systems and data. By limiting the number of

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Top IP KVM Security Factors You Need to Know About

Both data and telephone over IP have already gone through multiple generations of constant iterative improvements on security,

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Your KVM is the Weak Link: How \$30 Devices Can Own Your Entire

A KVM (Keyboard, Video, Mouse) switch lets you control multiple computers with a single set of peripherals.

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The Hidden Risks of KVM Devices in Cybersecurity

The article discusses the potential cybersecurity risks associated with KVM (Keyboard, Video, Mouse) devices,

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Best Practices for KVM-over-IP Security

This white paper discusses the security aspects of the Emerald family of products, highlighting multiple

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Lock It Down with Secure KVMs in a World of Rising Threats

With ATEN Secure KVM Switches, they: Guaranteed separation between classified and unclassified systems. Locked down USB

Nov 10, 2025

Black Box KVM

ATTENTION: Low attack complexity/public exploits are available Vendor: Black Box Equipment: KVM Switches and Extenders

Mar 07, 2026

KVM Switches: A Security Threat Some Might Leave Open

Everything about the Belkin Secure DVI-I KVM Switch is air-tight, right down to the tamper-evident outer packaging and cabinet

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Complete Guide To KVM Switching & Extension

What is KVM extension and KVM switching? KVM extension technology offers point-to-point extension of computer signals over a

Jul 22, 2026

Best KVM Switches for 2026 (Dual Monitor, Multi-PC)

Control multiple computers with one keyboard, mouse, and monitor using our recommended KVM switches, with setup

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\$30 IP-KVM Flaws Could Give Attackers BIOS-Level Control Across ...

Researchers found flaws in low-cost IP-KVM devices, allowing attackers to gain BIOS-level control and bypass OS

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Secure KVM Switches | Black Box

Standard keyboard-video-mouse (KVM) switches connect multiple users to multiple PCs or monitors. Secure KVM

Sep 18, 2025

Researchers disclose vulnerabilities in IP KVMs from four manufacturers

Researchers are warning about the risks posed by a low-cost device that can give insiders and hackers unusually

Jan 20, 2026

Do KVM switches pose a security risk if I want to hook up my ...

So long as you don't connect any storage devices to your kvm there is no risk to anything. I use a displayport+usb2.0 kvm at home to

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What are Secure KVM Switches?

Secure KVM switches are designed from the ground up as dedicated switching devices with every element conceived to prevent

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Secure KVM switches

Secure KVM switches: Security threats against classified data Using typical non secure KVM switches to access

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Can a KVM Switch be Hacked? Understanding the Risks and Mitigations

The potential risks of using a KVM switch include the risk of unauthorized access to sensitive computers and data, as

Apr 19, 2026

9 Critical IP KVM Flaws Enable Unauthenticated Root Access Across

Researchers uncovered 9 vulnerabilities across 4 IP KVM devices enabling unauthenticated root access and code

Jun 23, 2026

The Complete Guide to KVM over IP | TinyPilot

The authoritative guide to KVM over IP — how it works, how to secure it, and how to choose a reliable device for BIOS-level remote

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