

MAKING THE SWITCH

TO A COMPREHENSIVE KVM SOLUTION BY BLACK BOX





BLACK BOX KVM SOLUTIONS

HARNESS THE POWER OF MANY FOR ONE—OR ONE THOUSAND

Black Box played an instrumental role in pioneering KVM technology in the early to mid-1990s and is still blazing new trails in the industry today. No one else offers you as many choices for making KVM technology work for your application—no matter what that application is—with support for virtualization and enterprise-level systems and deployment management.

PERFORMANCE, FLEXIBILITY AND SAVINGS

Whether you're managing a mission-critical control room—with users accessing servers down the street or around the globe—or you have a manufacturing environment and want to get computer CPUs off the production floor, Black Box has the right KVM solution for you.

From high-performance KVM matrix switching with support for virtualization and management to simple KVM extension and everything in between, we're your go-to source for solutions and expertise.

In the simplest terms, KVM (keyboard, video, mouse) switches give users access to multiple target devices, such as CPUs, video walls, servers, and other resources. Users can monitor work flow and gain flexible control of visual and peripheral elements.

Switching and extension provide effective management of technology elements in broadcasting, air traffic control, control rooms, and other collaborative environments.

BLACK BOX KVM TECHNOLOGY OFFERS YOU:

- A LOWER TOTAL COST OF OWNERSHIP
- IMPROVED OPERABILITY AND QUICK ROI
- MAXIMUM FLEXIBILITY, SCALABILITY & RELIABILITY
- ENERGY-SAVING DESIGN & DISTRIBUTION

With more than 20 years of experience in KVM technology, Black Box KVM specialists possess expertise that's second to none and are uniquely qualified to work with you to develop the KVM solution that's just right for your application and environment. We're at your service by phone or email and can also visit your facility to perform an on-site survey of your system. We can even provide an on-site equipment demo, enabling you to see how Black Box solutions will perform in your real-world environment.

EASE THE MIGRATION TO VIRTUALIZATION

The latest advancement in KVM technology, the Black Box InvisaPC™ solution bridges the gap between physical IP-based KVM extension/switching and access to virtual servers. InvisaPC offers unmanaged plug-and-play connectivity with a receiver installed at each user's workstation to support access to 32 physical and/or virtual servers. The ability to leverage the cloud as a content storage and distribution system for control rooms and other environments is significant, because it brings flexibility and scalability to your operation, and reduces capital expenditure. And because InvisaPC supports both physical and virtual servers, it gives you an easy migration path to virtualization. To expand beyond the 32-server limitation and add enterprise-level management, combine InvisaPC with Boxilla®, the premier AV/IT system management platform.

BLACK BOX OFFERS A KVM SOLUTION FOR EVERY INDUSTRY—FOR EVERY VERTICAL



BROADCAST



PUBLIC SAFETY



DEFENSE



TRANSPORTATION



DATA CENTER



INDUSTRIAL



MANY ENVIRONMENTS

ONE COMPANY WITH THE KVM TECHNOLOGY OPTIONS FOR ALL OF THEM



CONTROL ROOM



DATA CENTER

A control room or operations center serves as the central space where a large physical facility or physically dispersed service can be monitored and controlled.

Examples of industries using control rooms include:

- Energy—nuclear power plants, power generations stations, refineries, chemical plants and mining
- Transportation—major transportation facilities, including bridges, tunnels, traffic control, rapid transit and traffic monitoring
- Military—mission planning and execution, tactical operations centers, and simulation and manning
- Public safety—911 call centers, real-time crime centers and emergency operations centers
- Broadcast—television production, over the air stations and TV networks

Control rooms require high-performance KVM, distinguished by:

- SWITCHING ACCESS TO REAL-TIME APPLICATIONS
- HIGH-QUALITY VIDEO
- PROMOTE COLLABORATION BY ENABLING USERS TO SHARE SYSTEMS
- INSTANT ACCESS TO ANY LOCAL OR REMOTE SYSTEM
- SUPPORT FOR NON-TRADITIONAL CONTROL DEVICES
- DESIGNED FOR 24X7 OPERATION

Data centers are used to house computer systems and associated components, such as telecommunications and storage systems.

They contain large groups of networked computer servers typically used by organizations for the remote storage, processing, or distribution of large amounts of data.

The data center generally includes redundant or backup power supplies, redundant data communications connections, environmental controls, such as air conditioning and fire suppression systems, and various security devices.

Data center KVM use most often involves the following:

- MANAGEMENT AND CONTROL OF MULTIPLE SERVERS FROM A SINGLE KEYBOARD, VIDEO DISPLAY AND MOUSE
- KVM SWITCHES FOR CONTROL OF REMOTE SERVERS FOR LOCAL AND REMOTE USERS
- SINGLE-USER TO MULTI-USER CONFIGURATIONS
- IP ACCESS FOR REMOTE SERVER MANAGEMENT

ONE SOURCE

THE MOST COMPREHENSIVE SUITE OF ENGINEERED SOLUTIONS IN THE INDUSTRY



DESKTOP



EXTENSION

Standard desktop KVM switching is where KVM technology began decades ago and is still widely used today.

Standard desktop switching typically involves management and control of multiple PCs using a single keyboard, video display, and mouse.

These PCs may be located in close proximity to the user, or they may be located some distance away from the user.

Typical configurations for desktop KVM involve two-, four-, or eight-port KVM switches for managing multi-PC desktops. In addition to keyboard, video and mouse, other shared services may include USB, audio and serial signals.

KVM extenders are specifically designed to increase the distance that a keyboard, video display, and mouse can be placed from a computer or KVM switch. Some KVM extenders include audio and RS-232 serial and additional USB ports for peripherals, storage drives and more.

Extender systems consist of two units—a computer module (transmitter) and a user module (receiver).

Wide selections enabling extension over CATx cable, fiber optic cable, or an IP network ensure a solution is available for all applications.

Primary reasons to keep CPUs in remote locations, creating the need for KVM extension, are to protect the servers themselves from harsh environments, such as those often found on the manufacturing floor, or to safeguard them against security breaches.

Another reason to relocate servers away from users is to keep the noise and heat they generate out of the work area, as well as to free up more space in users' work areas.





LEADING THE INDUSTRY

WITH MORE KVM SOLUTIONS THAN ANYONE ELSE

Black Box offers a host of KVM solutions, each designed suited for different applications, enabling us to engineer and recommend a system that's just right for your unique needs.

CONTROL ROOM KVM

DIGITAL KVM MATRIX

Flexible, scalable and instantaneous HD video and KVM switching and extension for mission-critical installations.

IP-BASED KVM

Connect anywhere with unlimited scalability from point-to-point KVM extension to the ability to build a switched matrix. Connect to a mix of virtualized and physical servers.

MULTIVIEW KVM

Get control and real-time monitoring for up to four PCs from one console with a keyboard, video and mouse control.

KM SWITCHES

Switch between computers by simply moving a mouse cursor from monitor to monitor. With only one keyboard and mouse required to operate four computer systems, desk space can be made more ergonomically effective. It also reduces the time it takes for operators to access multiple computers and gives them the ability to view multiple displays at the same time.

DESKTOP KVM

STANDARD KVM

Desktop KVM switches help you save space and reduce clutter. Access multiple local PC's from a single keyboard, video monitor and mouse.

SECURE

Prevent electronic eavesdropping. Channel-to-channel crosstalk isolation provides robust protection between networks. This enables secure access for agencies that connect to classified networks in addition to public networks, such as the internet.

DATA CENTER KVM

KVM SWITCHES

Get control, convenience and management with KVM data center switches. They give you access to a variety of target devices, such as CPUs and servers.

REMOTE ACCESS GATEWAYS

Remote server and KVM access from anywhere.

LCD CONSOLE DRAWERS

Manage servers in data centers, server rooms and other space-critical environments directly from the racks where they are installed.

CRASH CART ADAPTER

Get a fast, easy way to log into a server or computer to troubleshoot or service a system after a crash. The handheld adapter plugs into the server on one end and your laptop on the other.

KVM EXTENDERS

KVM EXTENDERS

Remove computer noise and heat from the work area by moving servers to clean and secure areas. KVM extension works over CATx cabling, fiber optic cabling, or an IP network. Use the media that works for your application.

If you need to go long distances between buildings, fiber extension is for you. And for multicasting with low latency, check out IP-based extension for lossless compression.



WHY BLACK BOX?

ON-SITE WALK-THROUGHS & SURVEYS

Black Box KVM experts are available to visit your facility, review your application, and recommend the solution that meets your needs.

SYSTEM REVIEW & SOLUTION DESIGN

We take into account all the equipment you need to connect and develop solution design drawings to map out your KVM system.

ON-SITE EQUIPMENT DEMOS

Try before you buy. We can send equipment for a test demonstration that will enable you to see how KVM will work in your environment.

ON-SITE COMMISSIONING & TRAINING

Black Box experts can come to your facility to install your KVM system and train your employees on its use.

ONGOING SUPPORT

We're with you every step of the way. If you experience any problems or issues with your KVM system, our experts are at your service.

SERVICE-LEVEL AGREEMENTS

For mission-critical environments, we can arrange to have replacement components delivered on-site in 4-8 hours.

FREE 24X7 TECHNICAL SUPPORT

With Black Box, you'll never feel like you're on your own. Contact our tech support experts any day of the week, day or night.

COMPLETE SOLUTIONS

Black Box is your one-stop source—not just for KVM, but also pro AV video wall, networking, and data/power infrastructure solutions.

WORLD-CLASS CUSTOMER SERVICE

Black Box's customer service department is known as a "Center of Excellence." Experience it for yourself, and you'll understand why.

THE RIGHT SOLUTION FOR YOUR NEEDS

Other KVM suppliers offer one solution and try to force-fit it to suit every need. Black Box offers multiple KVM solutions, enabling us to recommend the one that's right for you.



