ATEN®

Simply Better Connections™

Application Guide

KVM Solutions for SMB Server Rooms

Build a Server Room for Secure and Centralized Control

Concurrent with developments in modern management systems and network applications, today's enterprise increasingly relies on the availability of data in order for day-to-day operations to succeed. As these operations become more complex, additional servers are needed for data storage and information processing. Therefore, an increasing number of corporations build up a dedicated space - a server room for securely locating and centrally managing the servers.

Due to economic uncertainty, maximizing technological investments has become a major goal of most companies.

Since a modern server room may require additional systems that provide more control, flexibility and scalability than ever before, the server room is under increasing pressure to maintain high levels of efficiency and flexibility while managing costs. Therefore, choosing a solution that ensures your initial investment can reap future rewards, offer scalability to match your company's growth, and reduce your Mean-Time-To-Repair (MTTR) in addition to leveraging the existing IT resources you already have is required.

In addition, as a server room expands it becomes a challenge for an administrator to manage efficiently. As the number of servers dramatically increases more problems present themselves, such as limited rack space for example. Also, it becomes increasingly inefficient for administrators to spend their valuable time moving back and forth to implement operational tasks. Since ensuring 24/7 reliability of a server room is necessary, server downtime may cost a large business millions of dollars in lost revenue.

Mission

Over the last three decades, ATEN has specialized in connectivity solutions in information technology and offers a wide range of KVM and extension related products. Currently, ATEN's mission is to offer an economical solution for small and medium businesses to boost the efficiency of their server room management.

Seeing that server needs may start out small, and expand as businesses grow, offering great flexibility is required. In addition to maximizing the value of SMB's investment, cost saving, time saving, space saving, and energy saving are also the key considerations when ATEN develops solutions.

Moreover, reducing down-time, minimizing repair costs, cutting maintenance costs, and offering remote access capability to ensure 24/7 availability are major points to consider.

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⬂ Solution

Boosts the Efficiency and Flexibility of your Server Room Management
SMB Server Room Solution

Rack KVM Switch / LCD Console / KVM on the NET ™/ KVM Extender

KVM Switch

CS1308/1316 (Basic Models)

8/16-Port PS/2-USB KVM Switch

CS1708A/1716A (Good for Expansion)

8/16-Port PS/2-USB KVM Switch

KH1508/1516 (Distance Extension)

8/16-Port Cat 5 High-Density KVM Switch

KH2508/2516 (2 Consoles Support)

2-Console 8/16-Port Cat 5 High-Density

KVM Switch

LCD Console

CL5800 Dual Rail LCD PS/2 - USB Console

CL1000 LCD Console

KVM on the NET™

CN8000 KVM on the NET™
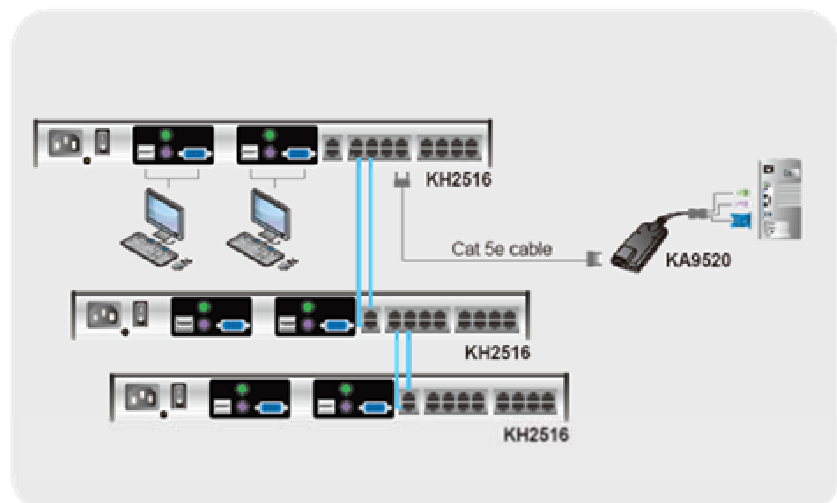
KVM Extender

CE750 USB KVM Extender + Audio

CE250A PS/2 KVM Extender

![ATEN logo - Simply Better Connections™]

Application

>> **Control multiple servers from a single console (Keyboard, Mouse, and Monitor)**
KVM Switch - *Cost Saving, Time Saving, Space Saving, and Energy Saving*

ATEN rack-mountable KVM switches are control units that allow access to multiple computers from a single console (keyboard, mouse, and monitor). By allowing a single console to manage all the attached computers, a rack KVM installation: eliminates the expense of having to purchase a separate keyboard, monitor, and mouse for each computer; saves all the space those extra components would take up; saves on energy costs; and eliminates the inconvenience and wasted effort involved in constantly moving from one computer to another. Furthermore, ATEN rack KVM switches support multiplatform servers via optional custom cables or KVM Adapter Cables – making them compatible with all the major operating platforms: PC, Mac, Sun and Serial. All KVM switch solutions are easy to expand so as to keep pace with your company's growth. Simply cascade or daisy-chain additional switches, and continue to expand to a maximum central control of 512 servers from a single console.
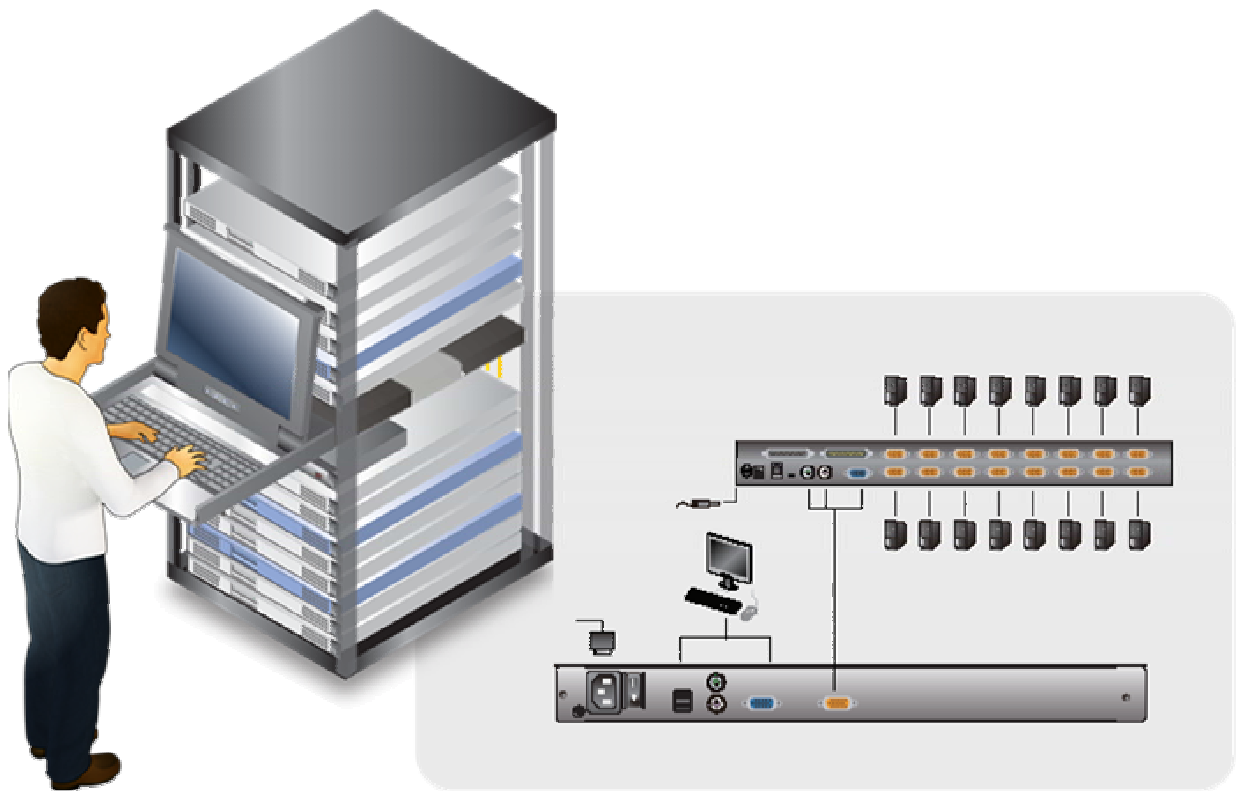
Application

>>Integrates a rack-mounted keyboard, video, mouse console in a 1U housing
LCD Console - *Space-Saving – Optimizes Your Server Room Real Estate*

ATEN LCD Consoles offer a space-saving approach to your server room. The LCD display is built into the cover, the keyboard and touchpad are built into the base. Slide the console module out, flip the cover up; and you are ready to work.

With dual rail support*, the keyboard module hides away when not in use, while the thin profile LCD monitor reclines flush against the rack to enable continuous monitoring of computers.
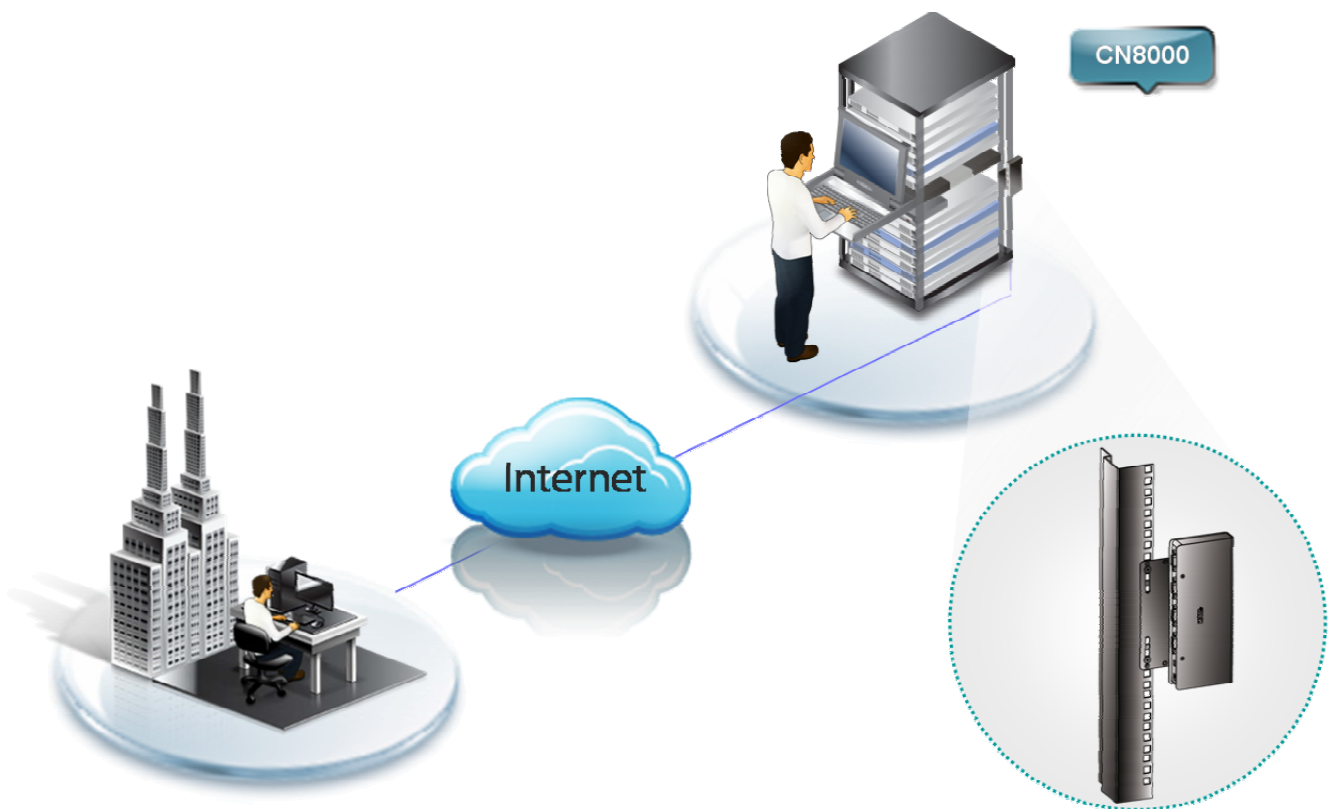
*Not all models support this feature

Application

>> **Provide over-IP capability to your KVM switches**

KVM on the NET™ - *Remotely access your servers from anywhere*

ATEN KVM on the NET™ provides remote access to your existing KVM switches. It allows operators to monitor and access their computers from remote locations. With its advanced features – virtual media, modem access and Graphical User Interface, the KVM on the NET™ facilitates control as if your were right there in front of your servers - minimizing maintenance costs and guaranteeing 24/7 reliable server room operation.
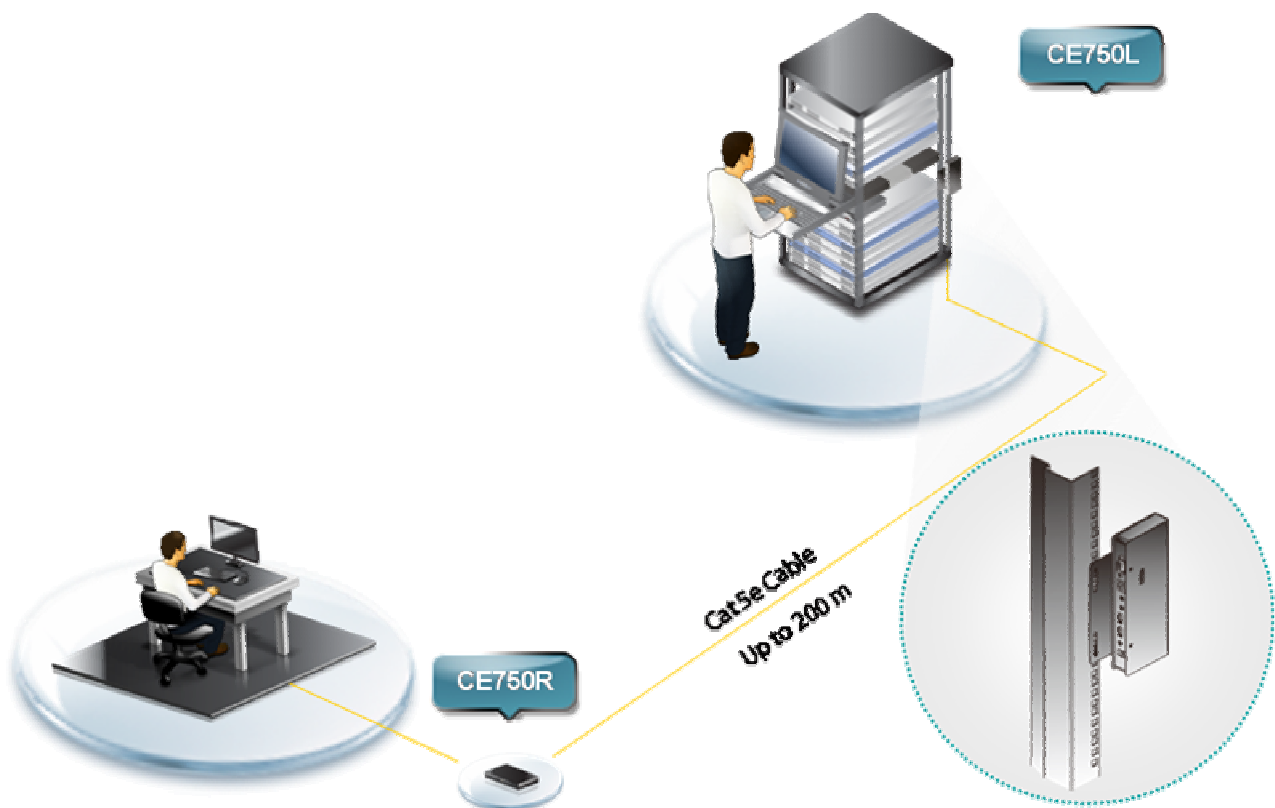
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⬒ Application

>> **Flexibly extend the distance between your console and the KVM switch**

KVM Extender - *Free Yourself from the Server Room – control servers from your desk*

ATEN KVM Extenders free you from crowded, hardware heavy server rooms, enabling you to perform jobs from your desk – no longer be tied to the server room all day. With Dual Console, audio and RS-232 serial connectivity support, our KVM Extenders provide console extension capability and flexibility.

CE750L

CE750R

Cat 5e Cable
Up to 200 m

⮡ *Benefits*

◆ Cost-effective

Utilizing the ATEN Rack KVM Switch allows administrators to control multiple computers from one/two KVM consoles and eliminates the expense of having to purchase a separate keyboard, monitor and mouse for each computer. Moreover, it saves energy costs and helps create a greener environment by reducing the amount of waste.

◆ Space Saving

ATEN SMB Rack KVM switches offer 8/16 port configurations with 1U housing for convenient rack mounting. In addition, the LCD Consoles require only 1U of rack space. It eliminates the need for a separate monitor (requiring at least 5U of rack space) and frees up precious real estate in your server room. Moreover, the KVM on the NET™ and KVM Extenders also can be mounted on the system rack.

◆ Easy Installation

ATEN SMB Server Room solutions are conveniently installed. Setup is fast and easy; plugging cables into their appropriate ports is all that is needed.

◆ Flexible Expansion

We understand that your server needs may start out small, and expand as your business grows. With the ATEN SMB Server Room Solution, you have the option of managing a small number of servers when your needs are small, and when you are ready to expand your installation, simply daisy-chain or cascade as many additional switches as needed. You can control hundreds of computers from the original single console.

◆ Boost Management Efficiency

The ATEN SMB Server Room Solution not only enables control of multiple computers from a space-saving LCD console , but also allows you to extend the console device up to one hundred meters away - freeing you from crowded, hardware heavy server rooms and enabling you to perform jobs from your desk. Moreover, with KVM on the NET™ Solution, you even can remote access and control computers from anywhere. It boosts the management efficiency of your server room and reduces downtime and maintenance costs.

◆ Easy Operation

The ATEN SMB Server Room Solution offers convenient, friendly User Interface and Port Switching methods for easy operation. It saves on training time and costs.

◆ Compatibility

ATEN's SMB Rack KVM Switches have exhibited an extremely high degree of compatibility with most servers on the market, making them easy to integrate with your existing installation.

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