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Application Guide

Analog KVM Extender for Server Rooms



Server Rooms

The theft of personal information is a growing problem worldwide. More and more governments are mandating that personal information be secure and companies are looking for simple, cost-effective ways of securing their data. Thieves who find their way into the general office space will have a more difficult time breaking through heavier security around the data center. Also, in the past IT staff were forced to work in frigid server rooms filled with computer network equipment, monitors, and the keyboards. Due to this, more and more environments, such as control rooms, security monitor centers, server rooms and more, are extending the consoles away from the servers and centralizing management in a dedicated place, such as the administrator's desk at his office.

Extending the distance between server and console for centralized control is a must. The extension distance and video quality become two major concerns, particularly if the server room and the IT office are located on different floors.

Mission

ATEN's mission is to offer a solution that allows IT staff to remove computers from non-secure or hazardous work environments or public places and extend the console up to 300m away still maintaining excellent video quality over extended distances. Reducing signal transmission delay for essential real-time operation as well as maintaining high audio/video quality is extremely important in developing this solution.

 **Solution****CE770 USB KVM Extender with Deskew Function***Operate your system locally and up to 300 m away**High Video Quality, Superior Audio Quality***CE800B USB KVM Extender***Operate your system locally and up to 250 m away**USB Mass Storage Support, Dual Console Operation, Security Login*

The CE770 and CE800B are USB based KVM Extender systems. Because they allow access to a computer system from a remote console, the CE770 and CE800B are perfect for use in any type of installation where you need to place the console where it is conveniently accessible, but you want the system equipment to reside in a safe location – away from the dust and dirt of the factory floor, or the harsh environmental influence of a construction site, for example. This allows users to deploy system equipment over large distances.

The CE770's automatic delay line synchronizing function (ATEN patent) corrects RGB color phase and timing errors that occur over long distance transmissions. It also enables you to manually tune the R/G/B signal settings, store the settings and retrieve them later using the memory button.

The CE770 and CE800B are also useful for control and security purposes, where you can have the system unit in a secure area at the same time that you put the console in the most convenient location for user access. This is ideal for managing highly confidential data systems.

In addition, the CE800B features a built-in USB port on both units that supports external USB Mass Storage compliant flash drives for easy file sharing. A special security feature requires login when mounting a USB storage device on the remote unit.

Both systems improve on previous designs by: 1) the addition of a dedicated KVM port section on the Local Unit so you can simply and easily include a KVM switch in your installation; 2) using inexpensive Cat 5e cable instead of bulkier, more expensive, standard cables, for a much neater, more convenient, more reliable data transfer connection; 3) its ability to sense the distance to the system and automatically adjust the gain accordingly; and 4) featuring a custom ASIC to ensure the utmost in reliability and compatibility.



Application

>> Operate your system up to 300 m away

Applications: Server Room, Data Center, Control Room

Many IT management concerns, such as data security, workplace environments, asset management, real time display, remote access, and more, can be managed by the physical separation of the IT staff from their servers and multiplatform computers. So, extending the remote console away from the servers in conjunction with a KVM switch that connects to a local unit and then consolidating them in a dedicated and safe location allows IT staff to control the servers from the local console or the remote console located conveniently at the desktop.

The simple local and remote unit design makes installation straightforward and effortless, providing the IT staff with the means to access and control the servers from their desk.

In addition, even if the IT staff and the server room are located on different floors, video skew and signal loss deterioration due to long distances can be avoided. The CE770's Deskew function ensures that clear crisp 1280 x 1024 video images are delivered at long distances – up to 300m. While the CE800B's support for external USB Mass Storage compliant flash drives makes for easy file sharing

Another key feature of the analog based CE770 and CE800B is that they can be easily integrated into a server rack, allowing further local units to be run off a common supply. This can reduce the overall cost of ownership in many applications.

The CE770 and CE800B USB KVM Extender systems are ideal for all server room applications where the requirements are for real-time operation, security of data, and a consolidated infrastructure.

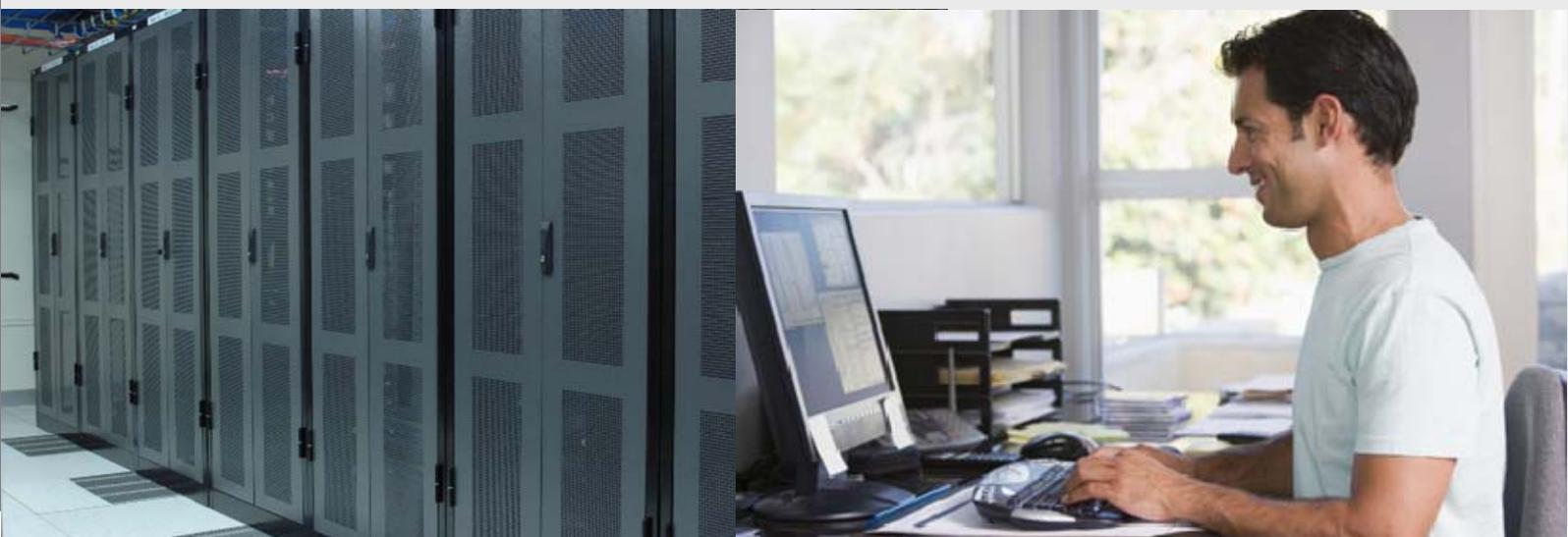


 **Benefits**

	CE800B	CE770
▪ Max. Distance	250 m	300 m
▪ Resolution	1920x1200@60Hz (30 m), 1600x1200@60Hz (150 m), 1024x768@60Hz (250 m)	1920x1200@60Hz (150 m), 1280x1024@60Hz (300 m)
▪ Picture Quality Control	Adjustable gain control	Patented ATEN Deskew technology
▪ Serial Connectivity	✘	✓
▪ USB Mass Storage compliant	✓	✘
<ul style="list-style-type: none"> ▪ Built-in 8KV/15KV ESD protection and 2KV surge protection ▪ Supports stereo speakers and stereo microphone ▪ Dual console operation ▪ Built-in ASIC ▪ Sun/Mac keyboard support and emulation ▪ Pushbutton operating mode selection ▪ Rack mountable 		

KVM Switches – An Essential Server Management Device

A KVM (Keyboard, Video and Mouse) switch is an advanced, hardware-based solution that allows centralized access to multiple computers easily and conveniently from a single keyboard, monitor, and mouse. A KVM switch is useful in an extensive range of environments, suitable for SOHO users, small and medium businesses, and large corporations. ATEN offers a wide range of KVM switch to meet various needs. Please visit our website for more product information.





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