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Application Guide

Analog KVM Extender for Serial Applications



Warehouse and Distribution Facilities

ATEN KVM Extenders have applications that reach far beyond the server room. Being able to extend the distance between computer and console, or centralize control of a number of computers in a different location, is useful in a wide range of environments, from internet cafes to production lines. All of these environments require high quality video (and often audio) to be extended over long distances. But keeping your computers secure and extending your control are not the only applications for ATEN KVM extenders.

In a distribution environment, such as a warehouse or loading docks, the physical security of important shipping or delivery information on back-up office computers is an important concern. Computers can be located away from harsh environmental influences. But in addition to these concerns, in a distribution environment, shipments need to be tracked and containers need to be logged, so serial devices such as barcode scanners and touchscreens are essential to the smooth functioning of the distribution center. The RS-232 serial functionality of ATEN KVM extenders means you can not only control and monitor your computers from a distance location, but you can also include the other devices you need for your specific requirements – devices that require a serial channel in your installation.

Mission

ATEN's mission is to offer an RS-232-enabled solution that allows managers to remove computers from busy/hazardous work environments and extend the console up to 200 m / 300 m away, while still maintaining excellent video quality over extended distances and providing a serial channel for devices such as touchscreens and barcode scanners to be included in the installation.

CE750 USB KVM Extender

Operate your system locally and up to 150 m away

Serial Connectivity, Dual Console Operation, Automatic Gain Control

CE770 USB KVM Extender with Deskew Function

Operate your system locally and up to 300 m away

Serial Connectivity, Dual Console Operation, Patented Deskew Technology

The CE750 and CE770 are a USB (Universal Serial Bus) based KVM Extender systems with automatic signal compensation and RS-232 serial functionality that allow access to a computer system from a remote USB console (USB keyboard, monitor, and USB mouse). Because they allow access to a computer system from a remote console, the CE750 and CE770 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.



The CE750 and CE770 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.

The CE750 and CE770 improve on previous designs by: 1) the addition of an RS-232 port, on both the Local and Remote Units – the RS-232 port on the Local Unit allows you to connect to a serial terminal, while the RS-232 port on the Remote Unit allows you to connect serial devices such as touchscreens and barcode scanners; 2) 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; 3) using inexpensive Cat 5e cable instead of bulkier, more expensive, standard cables, for a much neater, more convenient, more reliable data transfer connection; 4) its ability to sense the distance to the system and automatically adjust the gain accordingly; and 5) featuring a custom ASIC to ensure the utmost in reliability and compatibility. A further CE750 / CE770 key feature is built-in 8KV/15KV ESD protection and 2KV surge protection, and picture compensation pushbuttons on the Remote Unit to adjust the picture on the remote console.



In addition, the CE770 features Deskew, an automatic delay line synchronizing function (ATEN patent) that 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.

Setup is as easy as can be – simply connect the computer system box and local console to the Local CE750L / CE770L Unit; run the Cat 5e cable to the Remote CE750R / CE770RQ Unit (up to 150/300 meters away); and plug the remote console into the Remote Unit.

Application

>> Operate your system up to 150 m/300 m away

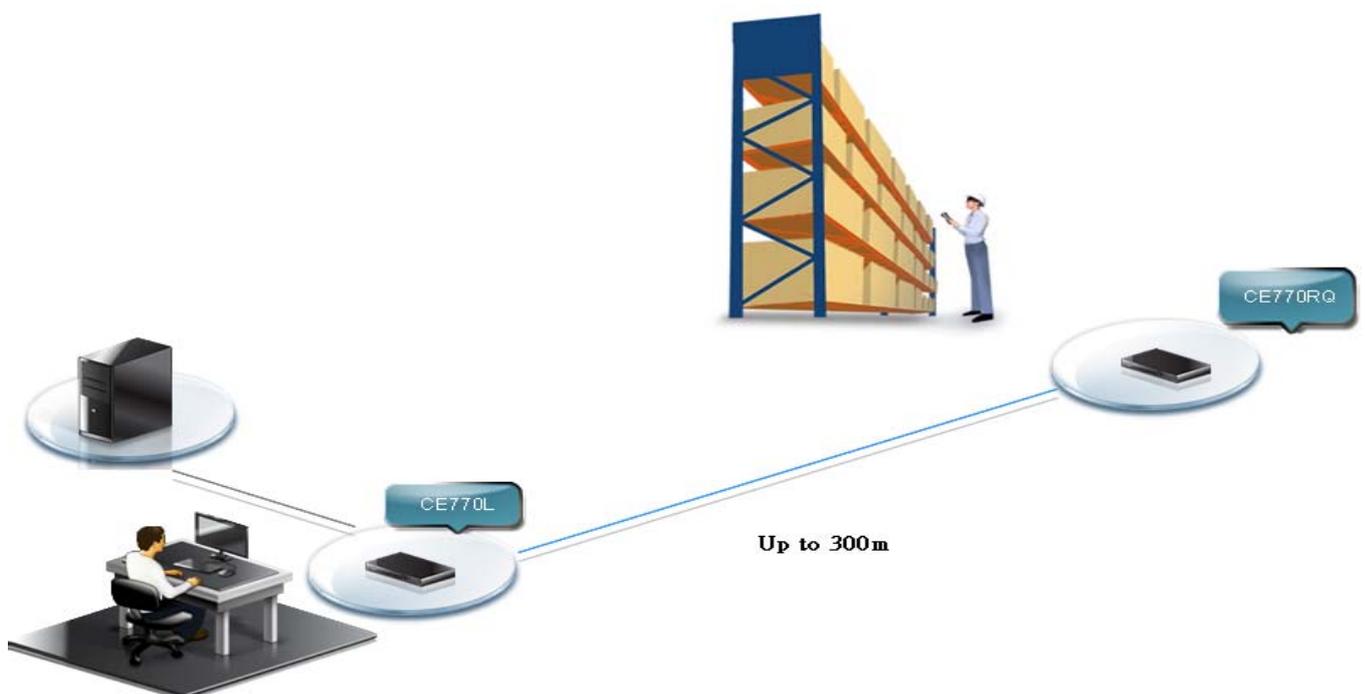
Applications: Warehouse and Distribution Facilities, Retail Environment Stock Rooms

With the CE750 or CE770 USB KVM Extender system, the main computer and the local unit can be located safely away from where equipment damage can occur, such as warehouse floors and loading docks, and the remote unit can be extended into unsecured areas for convenient operation. Furthermore, the CE750 / CE770 RS-232 serial ports allow for a barcode scanner to be included in the installation, which allows shipments to be tracked at the remote site as they pass through the distribution center. All tracking information, along with any special customs information or delivery requirements, is safely stored on the computer.

In another scenario, shipping information and/or stock information is entered using a touchscreen at the remote site. The touchscreen is connected to the CE750R / CE770RQ's RS-232 serial port. The serial terminal, attached to the CE750L / CE770L, resides in a secure office. This setup allows for easy configuration and for the touchscreen to be located at the most convenient location for data entry.

In both scenarios, the CE750 and CE770's dual console operation feature means the local computer can be fully accessed at both the local and remote sites, so stock levels, shipping details, and other essential information is available to both the distribution office manager and the workers on the warehouse floor, for example, further facilitating an efficient, time-saving solution.

From huge warehouses and distribution facilities to smaller stock rooms in the retail environment, the RS-232 functionality of the ATEN CE750 and CE770 USB KVM Extender systems provide not only extended control of your computers but also a connection for any serial device that you need to make your distribution business or retail environment run smoothly.





Benefits

	CE750	CE770
▪ Max. Distance	150 m	300 m
▪ Resolution	1600x1200@60Hz (150 m), 1280x1024@60Hz (200 m)	1920x1200@60Hz (150 m), 1280x1024@60Hz (300 m)
▪ Picture Quality Control	Adjustable gain control	Patented ATEN Deskew technology
▪ Built-in 8KV/15KV ESD protection and 2KV surge protection		
▪ Supports stereo speakers and stereo microphone		
▪ Dual console operation		
▪ RS-232 serial port		
▪ Sun/Mac keyboard support and emulation (CE770 only)		
▪ Pushbutton operating mode selection		
▪ Rack mountable		





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