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ATEN®
Simply Better Connections™

Application Guide

Digital KVM Extension Solution
for Public Access Consoles



Public Access Consoles

More and more public places are offering services to provide users with access to computing resources or research materials, such as libraries, airports, stations, and more. And free or charged computer access services are also offered in internet cafes, school computer centers, computer labs, and public internet stations.

When offering these kinds of services, security management becomes an important issue. Since a lot of people pass through these public places every day, it's not easy to control who will use public computers and what they will do to the equipment. The challenge is to keep the computers safe from maliciously damage while providing a full range of computer access and information services.

Furthermore, large offices such as insurance companies or call centers may not provide a dedicated station for each employee who needs to use computing resources. A high number of staff may work in shifts, so ensuring an efficient and secure method of controlling computing resources is a key issue.

Generally, what all of these environments have in common is a large number of computers and consoles located in large/public places that are operated by unrestricted/large numbers of users. This not only raises security concerns but also increases the difficulty of management. Administrators need to be constantly on the run, checking and maintaining computers located in many locations. To increase overall efficiency, it would be a great benefit if all the computers could reside in a secure location for centralized management while all the consoles are kept in public for convenient operation. When introducing a new solution, the increasing demand for applications that require high quality audio and video is also a major concern. Furthermore, a complete network infrastructure has usually already been configured in these kind of public places, so any new solution benefits from being able to integrate with the existing infrastructure. They are also very large, so the distance between consoles and server room is long. Finally, flexible configurations are paramount to allow for increasing demand or re-layout of the existing infrastructure.

Mission

For these kinds of applications, ATEN's mission is to provide an efficient extension solution which offers centralized computer management from a secure location in tandem with console operation in public places. ATEN also considers that the A/V quality is a major concern in some areas such as internet cafes. So it is important to maintain high quality signals for a long-distance transmission. To minimize the loss of video quality due to distance extension became ATEN's challenge in developing this solution. In addition, there are such large numbers of computers/consoles, that reducing the total installing cost and time is another key point. Furthermore, the extension distance and room for expansion are also important issues to think about.

↓ Solution

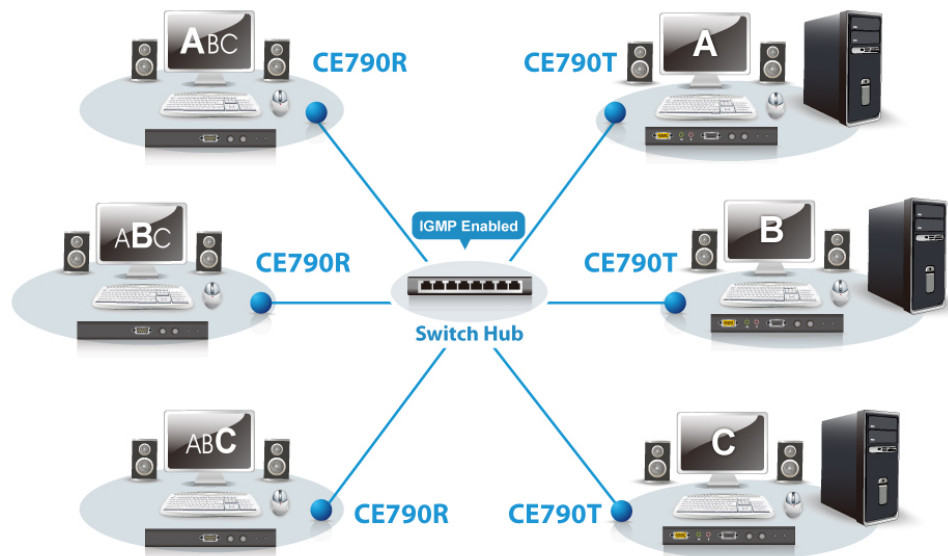
UNLIMITED ACCESS from Anywhere Over the Intranet CE790 Digital KVM Extender

ATEN CE790 Digital KVM Extension Solution Allows Unlimited Access and Complete Control of Your Computing Resources Over the Intranet



The CE790 is an IP based KVM Extender system with RS-232 serial functionality that allows access to a computer system from a remote USB console (USB keyboard, monitor, and USB mouse) located anywhere on your existing network infrastructure.

The CE790 system consists of a transmitter (CE790T) that connects to the computer system and a receiver (CE790R) that is located on the user's desk. For even greater flexibility, any number of transmitters can be configured with any number of receivers, providing access and control of various computing resources from any number of remote consoles via a standard TCP/IP network. Furthermore, the CE790 supports high quality digital audio and video streaming transmissions, ensuring that users obtain superior A/V signals from anywhere on the Intranet with no distance limitation. Each unit is assigned a unique IP address and connects via a single Cat 5e cable, making the CE790 Digital KVM Extender system perfect for use in the installation where you need multiple consoles in conveniently accessible locations, such as control rooms.



* The CE790 can be installed in point to point, point to multipoint and multipoint to multipoint configurations. Multipoint configurations require a separate purchase - contact your dealer for details.

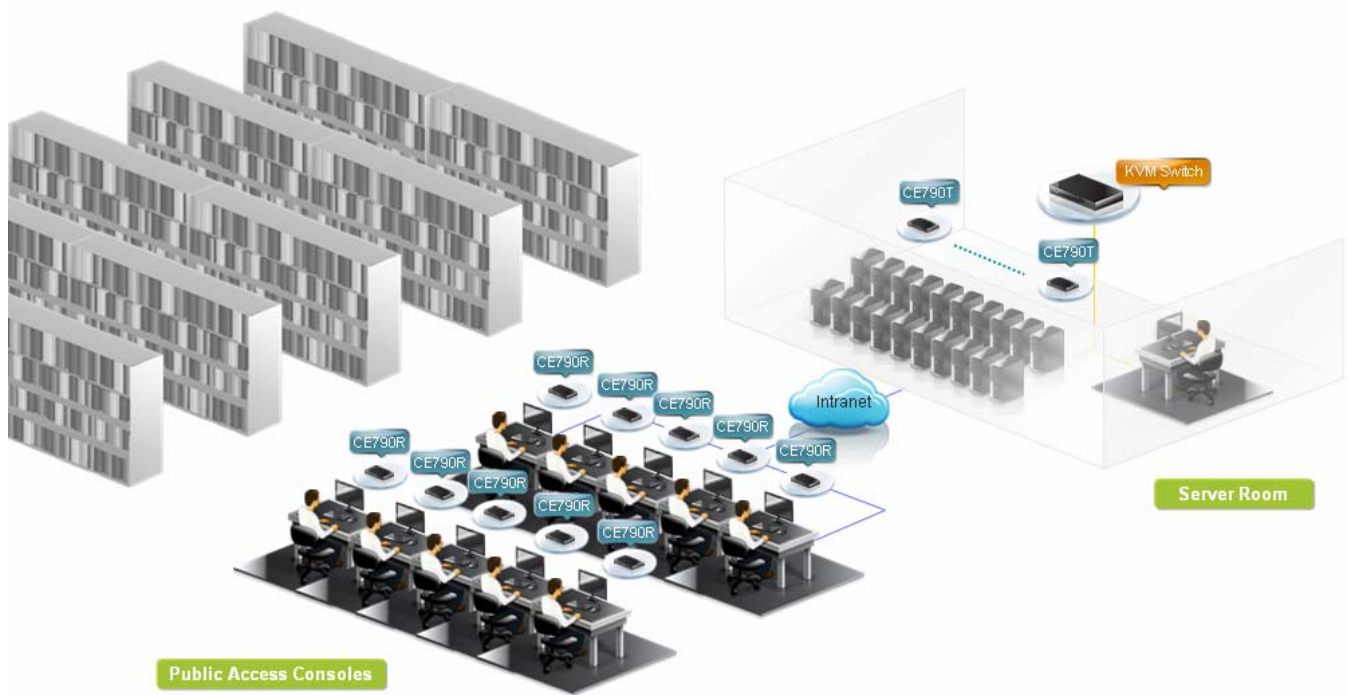
* In multipoint configurations, the IGMP (Internet Group Management Protocol) function of your network switches/hubs should be enabled to avoid deterioration of data throughput. If you do not know how to enable IGMP, please contact your network administrator.

Application

>> Configuring Public Access Consoles for Information Inquiries

Applications: Libraries, Airports, Stations, Official Institutions

With the ATEN Digital KVM Extension Solution, users can place computers containing data in a secure room and place the consoles in a public area for inquiries. Connect the Receivers (CE790R) to the console devices in the public area and the Transmitters (CE790T) to the computers located in a secure room to the existing LAN. This enables a user to access a computer from a public access console. Furthermore, the administrator is able to control and manage multiple computers from a single console by connecting the console ports of the Transmitters (CE790T) to a KVM switch, replacing multiple sets of console devices.



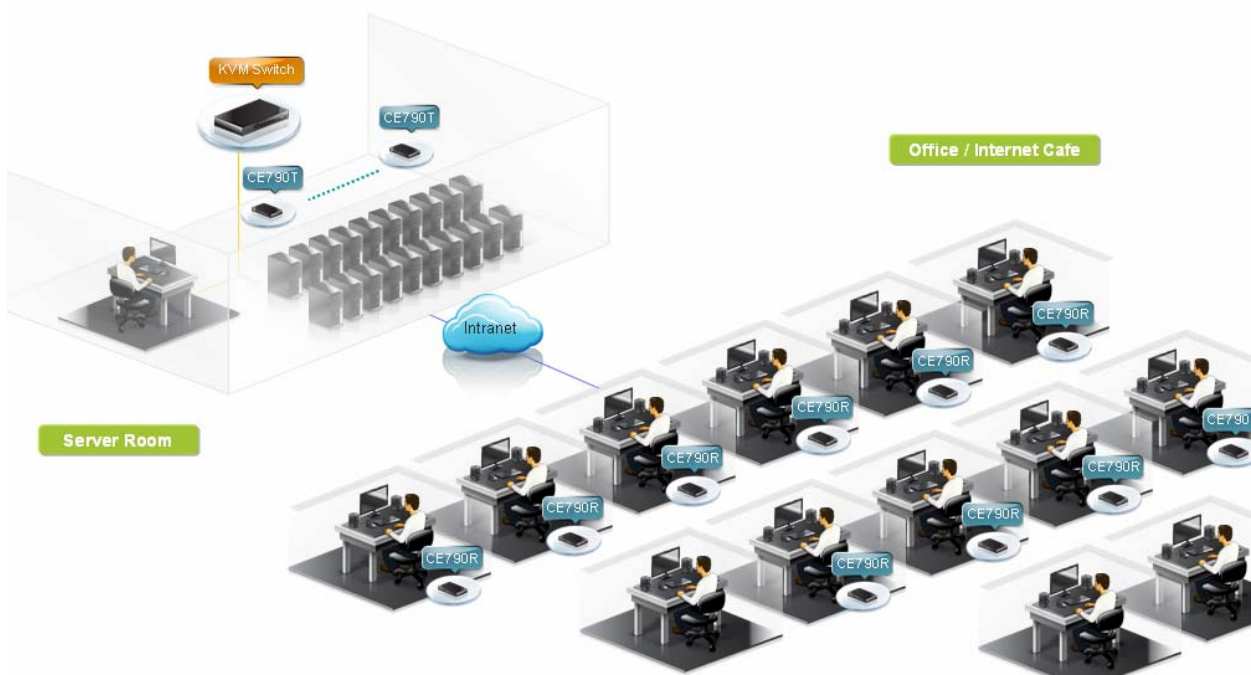
Application

>> Offering Computer Access Service and Secure Placement of Computers

Applications: Internet Cafes, School Computer Centers, Computer labs, Public Internet Stations, Insurance Companies, Call Centers

Utilizing this solution minimizes the risks involved in sharing computing resources with uncertain users and keeps the computers in a safe place. It also reduces the risk of malicious destruction and avoids illegal operations, such as downloading to a USB flash driver or CD ROM. Moreover, a maintenance engineer is able to centrally manage all computers in a dedicated room and monitor the status of each computer in real time.

Install a Transmitter (CE790T) for each computer and set up the consoles with the Receivers (CE790R), then connect the Transmitter (CE790T) and Receivers (CE790R) to the existing Intranet, creating a KVM extension with unlimited distance. A user can input the keyboard/mouse/audio signals to a computer and obtain high quality audio/video signals. In the secure room, a maintenance engineer also can integrate a KVM switch in the installation and take advantage of its benefits – cost-saving, space-saving and time-saving – to increase his management efficiency.



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.

Benefits

- ◆ **Secure Placement, Centralized Management** – with Transmitter/Receiver module design, the Digital KVM Extension Solution allows users to extend the distance between the KVM console and PC/server.
- ◆ **Transmits over intranet** – works over existing LAN environment – unlimited distance, no trailing smear. With this features, the solution greatly reduces the total installation cost and time, especially for applications in large public places.
- ◆ **Flexible Configurations** – allows flexible point-to-point, point-to-multipoint, and multipoint-to-multipoint administration. It fulfills the expansion need of console/computer by allowing the easy addition of the Transmitter/Receiver to the installation.
- ◆ **Digital Audio/Video Streaming** – This allows A/V signals transmitted through the Intranet to maintain an excellent quality (up to 1920 x 1080). With superior video signal support, the CE790 maximizes the possibilities of A/V applications.
- ◆ **Dedicated Computer Operation** – the Digital KVM Extender allows a user to exclusively access a computer. The administrator can assign suitable computing resources to individual users depending on a user's authority and demand for application programs.
- ◆ **Broadcast Mode Support** – enables an announcement to be displayed on multiple monitors when no user is operating the console.
- ◆ **Dual Console Operation** – allows you to control your computing source from both the Receiver and Transmitter consoles. Connecting the console devices or a KVM switch to the console ports of a Transmitter enables an administrator to manage the computers efficiently.
- ◆ **Easy-to-use** – Provides an intuitive On Screen Display (OSD) on both the transmitter and receiver units for easy setup and operation. The administrator is able to manage all the consoles and assign a computer to a user via an IP address.
- ◆ **KVM Switch Integration** – offers a flexible and cost-saving and space-saving solution.

* The specification and pictures are subject to change without notice.





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