

Single Port KVM over IP

CN8000A

- The new generation ATEN CN8000A features superior video quality with HD resolutions up to 1920 x 1200, LUC (Laptop USB Console) for easier KVM access, user-friendly local console OSD and virtual media function without additional cable.

The CN8000A Single Port KVM over IP provides access control through “over-IP” for conventional KVM switches that do not have built in over-IP functionality. It allows system operators to monitor and access computers from remote locations using standard Web browsers or Windows and Java based application programs. The CN8000A connects to the Intranet either LAN or WAN simply by using an industry standard Cat 5e/6 cable, and is connected to a local KVM switch or server via a custom KVM cable.

The ATEN CN8000A uses the standard TCP/IP protocols for communications, it allows the connected server or KVM switch to be accessed from any computer over the internet – whether that computer is located down the hall, in other areas of the country or branch offices in other parts of the world.

The CN8000A expands on previous models by providing a dedicated RS-232 port for modem access or serial console management, a PON port to connect a ATEN PDU device and USB 2.0 virtual media capability.

A Windows Client Viewer and a Java Applet Viewer are available for browser access, while Windows Client AP and Java Client AP programs are provided for non-browser GUI access. They allow IP connection and login from anywhere over the internet. Inclusion of a Java-based client ensures that the CN8000A is an independent platform, and is able to work with practically all operating systems.

To meet advanced security requirements, the CN8000A’s Virtual Media function allows a Smart Card / CAC reader on a user’s local system to be mapped to a remote server. The CN8000A provides a fast, reliable and a cost effective way to remotely access and manage widely distributed multiple computer installations.

Front view



Rear view



Features

Hardware

- Provides over-IP capability to KVM switches that do not have built in over-IP functionality¹
- Supports PS/2, USB, Sun Legacy (13W3)² and serial (RS-232) connectivity
- Local console provides PS/2, and USB keyboard and mouse support³
- Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
- Virtual Media Support
- High video resolution – up to 1920 x 1200 @ 60 Hz- 24 bit color depth for the local console; up to 1920 x 1200 @ 60 Hz with 24 bit color depth for remote sessions
- Enhanced fps (frames per second) throughput for crisp responsive video display

Note:

1. Cascade-compatible KVM Switches include the following: CS9134, CS9138, CS88A, CS1308, CS1316, CS1754*, CS1758*, CS1708A, CS1716A, ACS1208A, ACS1216A, CS228*, CS428*, KH0116, KH2508, KH2516, KH1508, and KH1516
 - Some of the CN8000A's features may not be supported, depending on the functionality of the cascaded KVM switch. (For example, some switches do not support virtual media.)
 - Some features found on the cascaded KVM switches may not be supported on the CN8000A. (For example, the CS1754's audio.)
2. Requires CV130A converter purchase
3. Since there are a large number of keyboards/mouses with functions specifically designed for OS other than Windows, they may not be adapted and may have compatibility issue.

Management

- Laptop USB Console (LUC) – A dedicated USB port directly connects to laptop for easy console operation
- Easy configuration through local console OSD
- Up to 64 user accounts – up to 32 users simultaneously share the control
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Critical system events sent by email and SNMP trap; and Syslog support
- Remote Firmware upgradable
- Serial console management – serial terminal access. Access the CN8000A via a built-in serial viewer, or via third party software (such as PuTTY) for Telnet and SSH sessions
- PPP mode (modem) dial-in/dial back/dial out support for out-of-band, and low bandwidth operation
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Local/Remote Share Mode to conveniently grant shared or exclusive console privilege
- Integration with ATEN CC2000 Centralized Management Software
- Integration with ATEN CCVSR Video Session Recording Software
- Power Over the NET integration for remote power control
- DDNS (Dynamic Domain Name System)
- Export/import user account and configuration settings
- Enable/disable browser operation
- IPv6 capable

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified Multilanguage interface to minimize user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multibrowser support (IE, Mozilla, Firefox, Safari, Opera, Netscape)
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package required
- Full-screen or sizable and scalable Virtual Remote Desktop
- Magic Panel

Advanced Security

- Smart Card /CAC Reader Support
- External authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- TLS 1.2 encryption to protect password when users log in
- Flexible design allows users to choose any combination of encryption algorithms (e.g. 256-bit AES) or system-generated random selection for independent keyboard/mouse, video, and virtual media data encryption
- Support for IP/MAC Filter
- Supports password protection
- Private CA

Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Convenient to use without virtual media cable

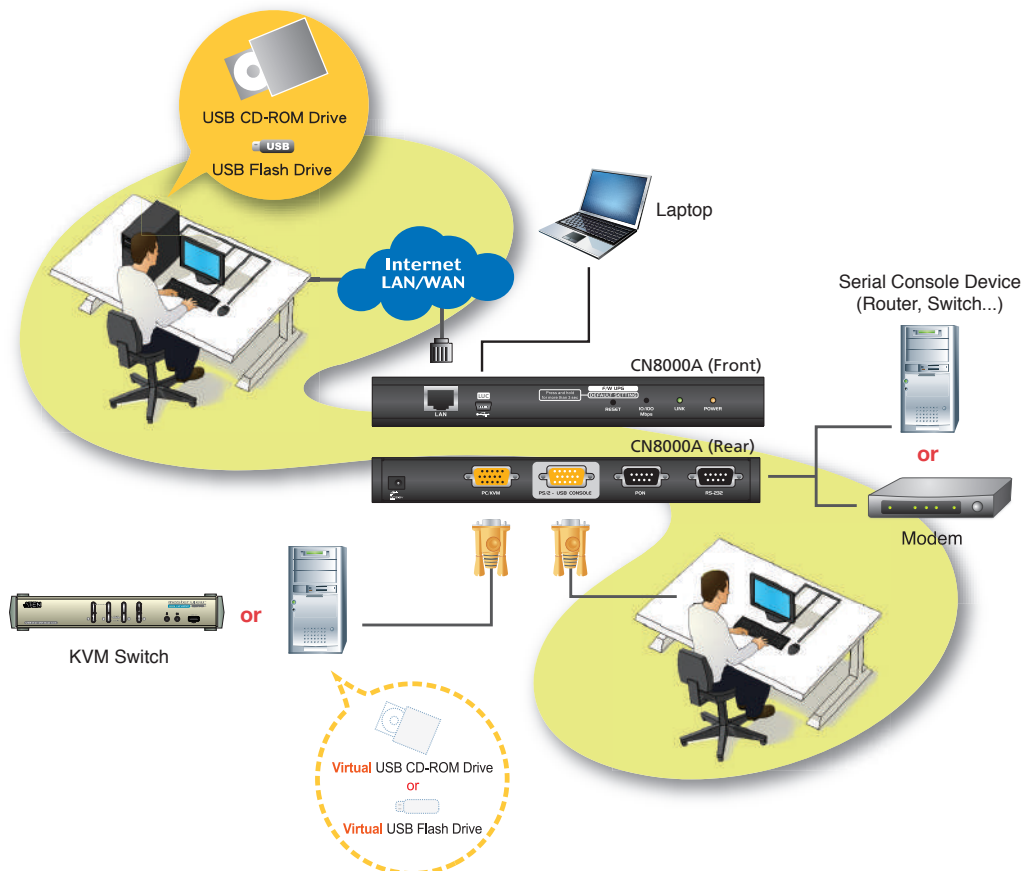
Virtual Remote Desktop

- Video quality and video tolerance can be adjusted to optimize data transfer speed; monochrome color depth setting, threshold and noise settings for compression of the data bandwidth in low bandwidth situations
- Full screen video display or scalable video display
- Message Board for communication among remote users
- On-screen keyboard with multilanguage support
- Mouse Dynasync
- Exit Macros support
- BIOS-level access

Highlights

Laptop USB Console (LUC)	A dedicated USB port directly connects to your Laptop for easy console operation.
Over-IP capability for legacy KVM switches	Protects your original KVM switch investment. No need to purchase new KVM switches to achieve the benefits of over-IP connectivity.
Multi-Keyboard Language Support — On-Screen Keyboard	The CN8000A supports multiple keyboard language input – including English, French, German, Italian, Spanish, Japanese, Korean, and Traditional Chinese. There is no need to have a separate keyboard for each language – you can input key data in any of these languages with the CN8000A's convenient on-screen keyboard.
External Authentication Support	In addition to its own security protection, the CN8000A allows you to set up log in authentication and authorization management from external sources such as RADIUS, LDAP, LDAPS, and MS Active Directory.
Ease-to-use user interface	A user-friendly, intuitive, GUI provides convenient, access, configuration and operation. Local Console, browser-based and AP GUIs offer a unified multilanguage interface to minimize user training time and increase productivity.
Virtual Remote Desktop	The remote desktop can appear full-screen or as a window with a flexible scaling video display. Advanced features such as the Message Board, Mouse DynaSync™, Virtual Media, and Keyboard Pass Through, create a Virtual Remote Desktop that allows users to operate servers from remote locations just as if they were actually at the local site.

Superior Video	With enhanced fps throughput for crisp responsive video display, the switches offer resolutions of up to 1920 x 1200 @ 60 Hz; vibrant 24-bit color depth for rich remote session display.
Configurable Network Bandwidth settings	A Network setting is provided that allows you to streamline data throughput by adjusting the size of the data stream (bandwidth) to match network traffic conditions. Video performance can be adjusted so that data throughput is optimized for the available network bandwidth. With high speed LAN access, the network setting can be adjusted so that a greater amount of video information is sent, resulting in a higher quality video display. In a limited bandwidth situation, the network setting can be adjusted so that net lag is minimized.
Mouse DynaSync	Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.
Message Board	To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions like an Internet chat program, allowing users who are logged in to instantly communicate with each other.
Virtual Media	Virtual Media support lets you map DVD/CD-ROMs and other storage media to a remote server. This function allows you to conduct file transfers, application and OS patches, and diagnostics remotely.
Smart Card Reader	The smart card reader function allows a reader plugged into a local client computer's USB port to be redirected, and appear as if it were plugged into the remote server. One purpose of smart cards (Common Access Cards, for example), is to allow authentication to the remote server from the local client.



Specifications

Function	CN8000A
Connectors	
Console Ports	1 x SPHD-18 Male (Yellow)
KVM (Computer) Ports / Virtual Media	1 x SPHD-18 Female (Yellow)
Laptop USB Console (LUC)	1 x USB Mini Type B Female (Black)
PON	1 x DB-9 Male (Black)
Modem	1 x DB-9 Male (Black)
LAN Ports	1 x RJ-45 Female
Power	1 x DC Jack
Switches	
Reset	1 x Semi-recessed Pushbutton
LEDs	
Power	1 (Orange)
Link	1 (Green)
10/100/1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)
Emulation	
Keyboard / Mouse	USB; PS/2
Video	Up to 1920 x 1200 @ 60 Hz; DDC2B
Power Consumption	DC 5.3 V; 7.26 W
Environmental	
Operating Temperature	0° to 50° C (CN8000A) 0° to 40° C (Power Adapter)
Storage Temperature	-20° to 60° C
Humidity	0 - 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.49 kg
Dimensions (L x W x H)	20.00 x 8.14 x 2.50 cm

