

# CN8000

## KVM on the NET™



The new generation of CN8000 provides “over-IP” capability to KVM switches that do not have built in over-IP functionality. It allows operators to monitor and access their computers from remote locations using a standard Internet browser or Windows and Java based application programs. The CN8000 connects to the Internet, an Intranet, LAN, or WAN using industry standard Cat 5e cable, then uses a custom KVM cable to connect to a local KVM switch or server.



Because the CN8000 uses TCP/IP for its communications protocol, the server or KVM switch it is connected to can be accessed from any computer on the Net – whether that computer is located down the hall, down the street, or halfway around the world.

The CN8000 expands on previous models by providing a dedicated RS-232 port for modem access or serial console management, a PON port to attach a Power Over the NET™ 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 on the net. Inclusion of a Java-based client ensures that the CN8000 is platform independent, and is able to work with practically all operating systems.

To meet advanced security requirements, the CN8000’s Virtual Media function allows a Smart Card / CAC reader on a user’s local system to be mapped to a remote server. The CN8000 is the fastest, most reliable, most cost effective way to remotely access and manage widely distributed multiple computer installations.

## » Features

### Hardware

- Provides over-IP capability to KVM switches that do not have built in over-IP functionality<sup>1</sup>
- Supports PS/2, USB, Sun Legacy (13W3)<sup>2</sup> and serial (RS-232) connectivity
- Local console provides PS/2, and USB keyboard and mouse support
- Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
- Virtual Media Support
- High video resolution – up to 1600 x 1200 @ 60Hz- 32 bit color depth for the local console; up to 1600 x 1200 @ 60Hz with 24 bit color depth for remote sessions
- Enhanced fps (frames per second) throughput for crisp responsive video display **New**

<sup>1</sup> 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 CN8000’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 CN8000. (For example, the CS1754’s audio.)

<sup>2</sup> Requires CV130A converter purchase

## Management

- 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 **New**
- Remote Firmware upgradable
- Serial console management – serial terminal access. Access the CN8000 via a built-in serial viewer, or via third party software (such as PuTTY) for Telnet and SSH sessions **New**
- PPP mode (modem) dial-in/dial back/dial out support for out-of-band, and low bandwidth operation **New**
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Integration with ALTUSEN CC2000 Management software
- Power Over the NET integration for remote power control
- DDNS (Dynamic Domain Name System) **New**
- Export/import user account and configuration settings
- Enable/disable browser operation

## Ease-to-Use Interface

- Browser-based and AP GUIs offer a unified Multilanguage interface to minimize user training time and increase productivity **New**
- 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 **New**
- Full-screen or sizable and scalable Virtual Remote Desktop
- Magic Panel

## Advanced Security

- Smart Card /CAC Reader Support **New**
- External authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- Advanced security features include password protection and advanced encryption technologies – 1024 bit RSA; 56 bit DES; 256 bit AES; and 128 bit SSL
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES 256-bit AES, 128-bit RC4, or Random for independent KB/Mouse, video, and virtual media data encryption **New**
- Support for IP/MAC Filter
- Supports strong password protection
- Private CA **New**

## 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

## 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 **New**
- BIOS-level access

## » Benefits

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### **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.

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### **Multi-Keyboard Language Support — On-Screen Keyboard**

The CN8000 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 CN8000's convenient on-screen keyboard.

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### **External Authentication Support**

In addition to its own security protection, the CN8000 allows you to set up log in authentication and authorization management from a external sources such as RADIUS, LDAP, LDAPS, and MS Active Directory.

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### **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

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### **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

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### **Superior Video**

With enhanced fps throughput for crisp responsive video display, the switches offer resolutions of up to 1600 x 1200 @ 60Hz; vibrant 24-bit color depth for rich remote session display

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### **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.

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### **Mouse DynaSync**

Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.

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**Message Board**

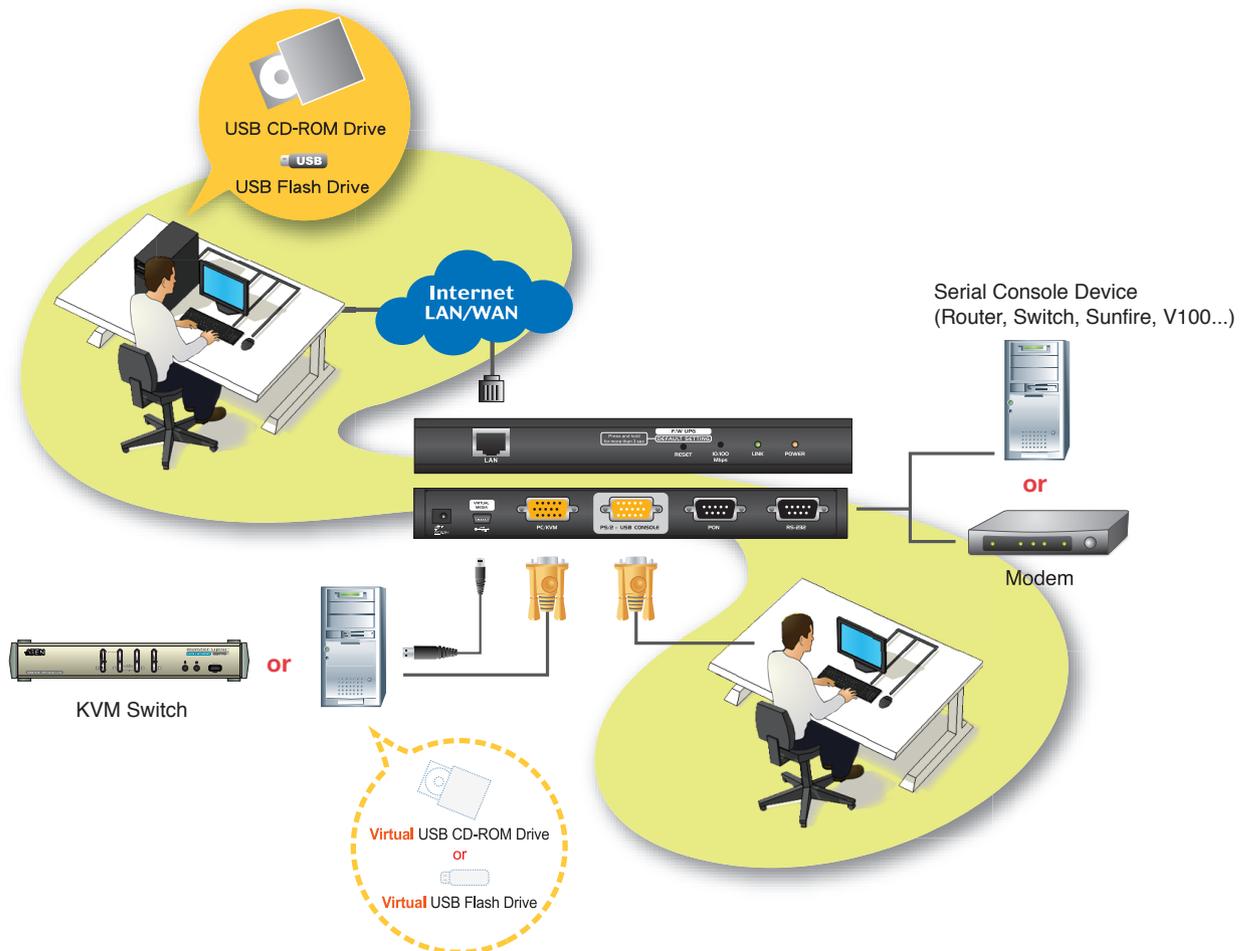
To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions like an Internet chat program, allowing users who are logged in to instantly communicate with each other

**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.



## » Specification

Function		CN8000
Connectors	Console	1 x SPHD-18 Male (Yellow)
	KVM (Computer)	1 x SPHD-18 Female (Yellow)
	Virtual Media	1 x USB Mini Type B Female (Black)
	PON	1 x DB-9 Male (Black)
	Modem	1 x DB-9 Male (Black)
	LAN	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 Mbps	1 (Orange / Green)
Emulation	Keyboard / Mouse	USB; PS/2
Video		Up to 1600 x 1200 @ 60 Hz; DDC2B
Power Consumption		DC5.3V; 6.3W
Environment	Operating Temp.	0-50°C (CN8000) 0-40°C (Power Adapter)
	Storage Temp.	-20-60°C
Physical Properties	Humidity	0-80% RH, Non-condensing
	Housing	Metal
	Weight	0.49 kg
	Dimensions (L x W x H)	20.00 x 8.15 x 2.50 cm

### **ATEN International Co., Ltd.**

3F, No.125, Sec. 2, Datung Rd. Sijhih City, Taipei 221, Taiwan

Phone: +886-2-8692-6789 Fax: +886-2-8692-6767 www.aten.com E-mail: online@aten.com.tw