KN10000

1-Port Digital KVM/Power/Serial Device

Simply Better Connections™

The KN1000 is a control unit that 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/Java based application programs, for BIOS-level troubleshooting without the need for constant on site IT maintenance. In addition, the KN1000 offers out-of-band access – including external modem support.

To help you manage and control your entire datacenter environment, a built-in single-port PDU (power distribution unit) allows remote power management of a server/installation connected locally to the KN1000. To manage the power of even more devices, the KN1000's PON (Power Over the Net) port allows you to add a PON power management unit, to remotely control the power status of devices on your installation, as well as turning servers on and off.

Both a Windows GUI Client and a Java Applet are also available in browser based and Windows application versions. They are provided for IP connection and login from anywhere on the net. Inclusion of a Java-based client ensures that the KN1000 is platform independent, and is able to work with practically all operating systems. The KN1000 also provides serial console management over the internet which can remotely control serial console devices such as a network switch.

KN1000's Virtual Media function allows you to perform diagnostic testing, file transfer, and OS and application patches from a remote console. There is no need to physically load a CD directly to the server to perform data-related tasks. Conveniently and efficiently troubleshoot and resolve the problems at BIOS level from anywhere. The KN1000 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 servers or KVM switches that do not have built in over-IP functionality [1]
- Built in single port PDU
- Supports PS/2,USB, Sun Legacy (13W3) [2] 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 @ 60Hzwith 24 bit color depth for remote sessions

1 Cascade-compatible KVM Switches include the following: CS9134, CS9138, CS88A, CS1308, CS1316, CS1754*, CS1758*, CS1708A, CS1716A, ACS1208A, ACS1216A, KH2508A, KH2516A, KH1508A, and KH1516A

- Some of the KN1000'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 KN1000. (For example, the CS1754's audio.)

2 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
- Remote Firmware upgradable
- Serial console management – serial terminal access. Access the KN1000 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 out support for out-of-band, and low bandwidth operation
- 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
- Remote power on and off control function with Wake on LAN
- DDNS (Dynamic Domain Name System)
- 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
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multibrowser support (IE, Mozilla, Firefox, Safari, Opera, Netscape, Chrome)
- 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
- 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
- Support for IP/MAC Filter
- Supports strong password protection
- Private CA

Virtual Media

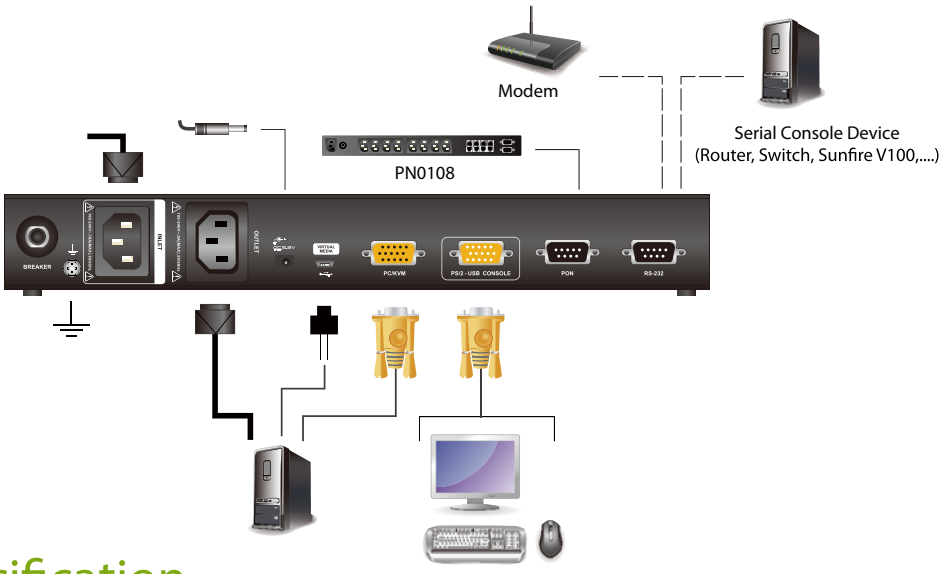
- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images

Virtual Remote Desktop

- BIOS-level access
- 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

Benefits

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
Remote Power Control	A built-in single-port PDU (power distribution unit) allows remote power management of a server/installation connected locally to the KN1000. In addition, you can also add a PON (Power Over the NET™) power management unit and remotely control the power status of devices on your installation, including monitoring their current status, as well as turning servers On, Off and Rebooting them.
Multi-Keyboard Language Support — On-Screen Keyboard	The KN1000 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 KN1000's convenient on-screen keyboard.
External Authentication Support	In addition to its own security protection, the KN1000 allows you to set up log in authentication and authorization management from a external sources such as RADIUS, LDAP, LDAPS, and MS Active Directory.
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.
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



Specification

Function		KN1000
Connectors	Console	1 x SPHD-18 Male (Yellow)
	KVM (Computer)	1 x SPHD-17 Female (Yellow)
	PON[1]	1 x DB-9 Male (Black)
	Modem	1 x DB-9 Male (Black)
	LAN	1 x RJ-45 Female
	Power Inlet	1 x IEC320 C14
	Power Outlet	1 x IEC320 C13
	Power	1 x DC Jack
	Virtual Media	1 x USB Mini-B Female (Black)
Switches	Reset	1 x Semi-recessed pushbutton
LEDs	Power	1 (Orange)
	Power Outlet	1 (Orange)
	Link	1 (Green)
	10/100 Mbps	1 (Orange/Green)
Emulation	Keyboard/Mouse	USB; PS/2
Video		1600 x 1200 @ 60 Hz; DDC2B
I/P Rating		100–240 VAC; 50/60 Hz, 10A
O/P Rating		100–240 VAC; 50/60 Hz; 9A
Power Consumption		DC5.3V; 6.3W
Environment	Operating Temp.	0–40° C
	Storage Temp.	-20–60° C
	Humidity	0–80% RH Non-condensing
Physical Properties	Housing	Metal
	Weight	0.86 kg
	Dimensions (L x W x H)	30.85 x 8.15 x 4.20 cm

[1] Power Over the NET™

ATEN North America

ATEN Simply Better Connections

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