KN1000

1-Local/Remote Share Access
Single Port VGA KVM over IP Switch with Single Outlet Switched PDU (1600 x 1200)

The KN1000 is a control unit that provides remote BIOS-level access to servers or "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 multiple widely distributed servers efficiently from a remote console, a built-in single-port Power Switch allows remote power management of a server/installation connected locally to the KN1000, including turning servers On, Off and Rebooting. In addition, you can also add a PON (Power Over the NET™) power management unit to manage the power status of even more devices. 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.

I WANT TO TEST!

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. An inclusion of a Java-based client ensures that the KN1000 is platform independent, and is able to work with practically all operating systems.

With these advanced features, the KN1000 is the fastest, most reliable, most cost effective way to remotely access and manage widely distributed multiple computer installations, such as kiosks and automated banking.

Features

- **Hardware**
- Provides over-IP capability to servers or KVM switches that do not have built in over-IP functionality*
- Built in single port Power Switch
- Supports PS/2, USB, Sun Legacy (13W3)** 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
  * 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 connected KVM switch. (For example, some switches do not support virtual media.)
- Some features found on the connected KVM switches may not be supported on the KN1000. (For example, the CS1754's audio.)

** Requires **CV130A** converter purchase

Management
- Up to 64 user accounts
- Up to 32 concurrent logins
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Remote Firmware upgradable
- Serial console management – serial terminal access. Access the device connected to 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
- On/Off scheduling for power outlet. Power management tasks can be scheduled on a daily, weekly, monthly or user-specified time basis
- Safe shutdown support
- Auto-Ping pings a device to determine its status, if the ping test fails after a set amount of time- it automatically takes an action assigned
- DDNS (Dynamic Domain Name System)
- Export/import user account and configuration settings
- Manage browser access methods (disable browser, http, or https)

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)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla, 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 – a special hideaway control panel with configurable function icon

Advanced Security
- Smart Card /CAC Reader Support
- External authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- Supports SSL 128-bit data encryption and RSA 1024-bit certificates to secure users log in from browser
- Flexible encryption design allows users to choose any combination of DES, 3DES, AES, RC4, or Random for independent KB/Mouse, video, and virtual media data encryption
- IP/MAC Filter for enhanced security protection
- 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

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

Specification

Connectors	
Console Ports	1 x SPHD Male (Yellow)
KVM Ports	1 x SPHD Female (Yellow)
PON	1 x DB-9 Male
RS-232	1 x DB-9 Male

LAN Ports	1 x RJ-45 Female
Power Inlets	1 x IEC320 C14
Power Outlets	1 x IEC320 C13
Power	1 x DC Jack
Virtual Media	1 x USB Mini-B Female
Switches	
Reset	1 x Semi-recessed pushbutton
LEDs	
Power	1 (Orange)
Power Outlets	1 (Orange)
Link	1 (Green)
10/100 Mbps	1 (Orange/Green)
Emulation	
Keyboard / Mouse	USB; PS/2
Video	1600 x 1200 @ 60 Hz; DDC2B
Maximum Input Power Rating	100–240 V~ 50/60 Hz, 10A
Output	100–240 V~; 50/60 Hz; 9A
Power Consumption	DC5.3V:6.77W:40BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0-40°C
Storage Temperature	-20-60°C
Humidity	0 - 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.86 kg (1.89 lb)
Dimensions (L x W x H)	31.00 x 8.15 x 4.20 cm (12.2 x 3.21 x 1.65 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

KN1000 (Front)

Modem

Serial Console Device
(Router, Switch, Sunfire V100,....)

PN0108

KN1000 (Rear)