

KVM over IP Switches

KN2124VA / KN2140VA / KN4124VA / KN4140VA

- ATEN's 4th generation of KVM over IP switches exceed expectations. The KN2124VA / KN2140VA / KN4124VA / KN4140VA feature superior video quality with Full HD resolutions up to 1920 x 1200, FIPS 140-2 with level 1 security standards and virtual media transmissions at twice the normal speed.

The KN Series provides a local console and remote over IP access for users to monitor and access their entire data center over a network.

Exclusive KN Series Features:

- High-grade security – supports FIPS 140-2 level 1 security standards
- 2x faster virtual media transmission speeds
- Advanced FPGA graphics processor with Full HD resolutions up to 1920 x 1200

With dual on-board NICs and dual power supplies, the KN Series is built for reliability, to ensure 24/7 availability of remote access to all servers.

The KN Series can be integrated into ATEN's CC2000 Management Software. CC2000 puts administrators in complete control of remote data centers and branch offices no matter where they are in the world – allowing them to remotely monitor and control all devices on a network, including blade server chassis, individual blades and virtual machines.

Additional exclusive features of ATEN KVM over IP switches include: a Message Board, Panel Array Mode™, Mouse DynaSync™ and the Adapter ID function.

ATEN KVM over IP switches save you time and money by allowing administrators to manage their data centers from practically anywhere – minimizing travel and Mean Time To Repair (MTTR) costs and ensuring the highest availability for data center services.

KN2124VA

- 24 Ports
- 1 Local and 2 Remote User Access
- Audio, Virtual Media, Dual Power, Fan Speed Control

KN2140VA

- 40 Ports
- 1 Local and 2 Remote User Access
- Audio, Virtual Media, Dual Power, Fan Speed Control

KN4124VA

- 24 Ports
- 1 Local and 4 Remote User Access
- Audio, Virtual Media, Dual Power, Fan Speed Control

KN4140VA

- 40 Ports
- 1 Local and 4 Remote User Access
- Audio, Virtual Media, Dual Power, Fan Speed Control

KN4140VA Front view



KN4140VA Rear view



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Features

Exclusive KN Series Features

- High-Grade Security – supports FIPS 140-2 level 1 security standards
- Advanced FPGA graphics processor with Full HD resolutions up to 1920 x 1200
- 2x faster virtual media transmission speeds
- Simultaneously share one local console and two or four independent connections to servers

Hardware

- High Port Density – RJ-45 connectors for up to 40 ports in 1U housing
 - Laptop USB Console (LUC) – a dedicated USB port directly connects to a laptop for easy console operation
 - Two or four separate buses for remote KVM over IP access
 - Two 10/100/1000 Mbps NICs for redundant LAN or dual IP operation
 - Blade server support
 - Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
 - Local console provides USB keyboard and mouse support
 - Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
 - Audio enabled
 - Dual power supply
 - High Video Resolutions – up to 1920 x 1200 @ 60 Hz with 24-bit color depth at the switch's local console and on remote displays
 - Monitor and control up to 40 computers on a single level or control up to 512 computers in a cascade*
- * Cascade-compatible KVM switches include the following: CS9134, CS9138, KH1508A and KH1516A.

Management

- Supports 64 user accounts – up to 32 users can simultaneously share control
- Green IT Fan – speed varies according to temperature
- Event logging and Windows-based Log Server support
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Customizable events notification
- Firmware upgradeable
- Adapter ID Function – stores port information, allowing administrators to relocate servers to different ports without having to re-configure adapters or switches
- Port Share Mode – allows multiple users to gain access to a server simultaneously
- Supported by ATEN's CC2000 Management Software
- IPv6 capable

Easy-to-Use Interface

- ATEN Exclusive Panel Array™ Mode – monitor all ports in a grid display of all desktops at both the local and remote screen
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera and Netscape
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software
- Launch multiple virtual remote desktop sessions to control multiple servers at the same time
- Fullscreen or scalable virtual remote desktop window
- Keyboard/Mouse Broadcast – keyboard and mouse signals can be duplicated across all servers at once
- Video syncing with the local console – local console monitor's EDID information stored on the KVM Adapter Cables for display resolution optimization

Advanced Security

- Remote authentication support: RADIUS, LDAP, LDAPS and Microsoft Active Directory
- Supports TLS 1.2 encryption and RSA 2048-bit certificates to secure browser logins
- 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 Keyboard/Mouse, video and virtual media data encryption
- Supports IP/MAC address filtering
- Configurable user and group permissions for server access and control
- Automated CSR creation utility and third-party CA certificate authentication

Virtual Media

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

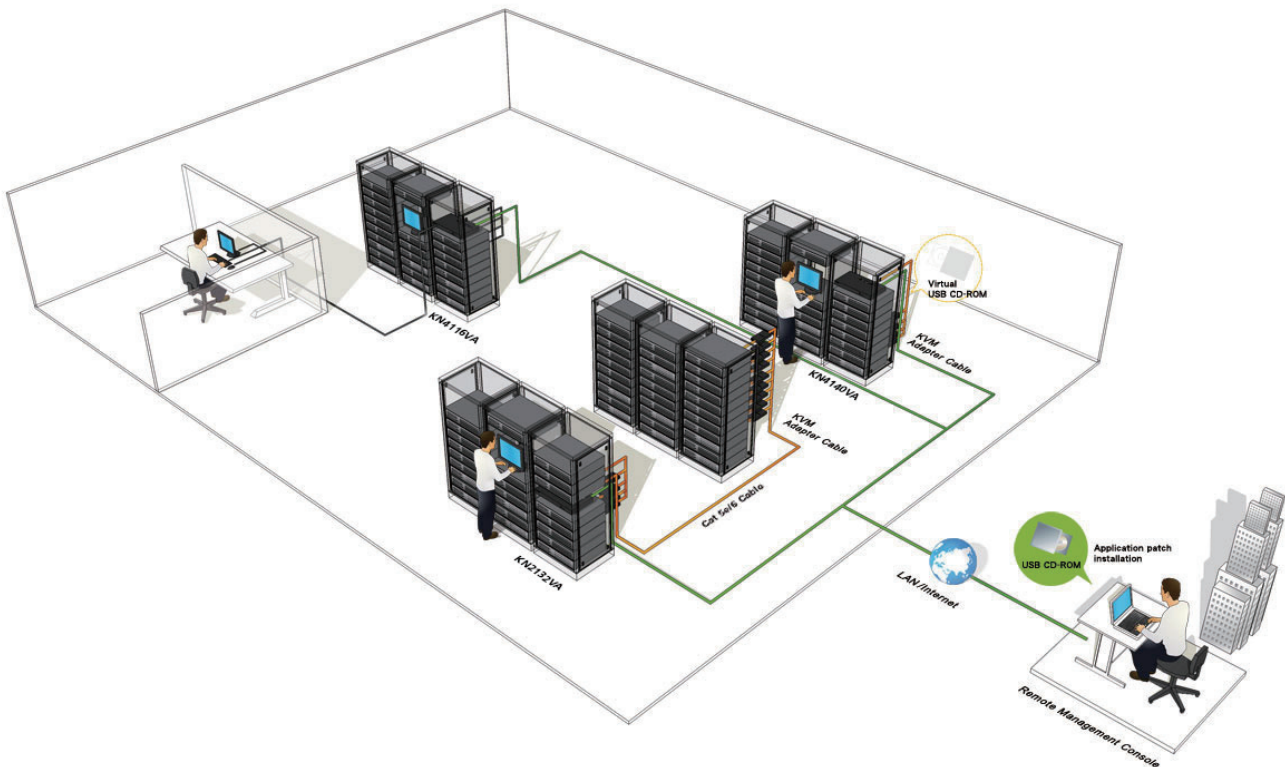
Virtual Remote Desktop

- Video quality can be adjusted to optimize data transfer speeds; monochrome color depth, threshold and noise settings reduce data transmission to lower bandwidth
- Fullscreen or scalable window for desktop sessions
- Message Board for communication among remote users
- Mouse DynaSync – automatically synchronizes the local and remote mouse movements
- Exit Macro support
- On-screen keyboard with multi-language support
- BIOS-level access for troubleshooting

Highlights

High-Grade Security	FIPS 140-2 certified cryptography provides an FIPS mode to use an embedded FIPS 140-2 certified OpenSSL cryptographic module.
Extreme Virtual Media Speeds	Virtual media supports twice the transmission speed of comparable models and supports connecting to DVD/CD drives, USB mass storage devices, hard drives and ISO images. Virtual media allows you to conduct file transfers, application and OS patches, and run diagnostics remotely.
Advanced FPGA Graphics Processor	Our enhanced FPS throughput provides a responsive and vivid video display, offering resolutions up to 1920 x 1200 @ 60 Hz with 24-bit color at the switch's local console, up to 50 meters from the computers, and on remote session displays.
Panel Array Mode™	Exclusive ATEN feature allows simultaneous monitoring for both local console operators and remote access users.
Blade Server Support	Support for blade server associations with KVM switch ports – allows the blade server chassis and individual blades to be integrated into the sidebar tree view for easy access.
Dual IP / Dual Power	Dual IP / Dual Power operation provides the backup for complete redundancy and reliability. Should one of the Ethernet ports or power supplies become unavailable, the other will take over in order to keep the system functioning normally.
Configurable Network Bandwidth Settings	Network bandwidth settings allow 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 settings can be adjusted so that a greater amount of video data is sent, resulting in a higher quality video display. In a limited bandwidth situation, the settings can be adjusted so that network lag is minimized.
Mouse DynaSync™	Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of the mouse acceleration settings on the server.

Message Board	To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions similar to an Internet chat program, allowing users to instantly communicate with each other.
Intelligent Bus Assignment with Flexible Port Switching	With Intelligent Bus Assignment, users are automatically assigned to one of four buses as they log in. With flexible port switching, up to 32 users can be distributed over 4 separate bus sessions, and multiple users are allowed to share access to one server for maximum efficiency.
Adapter ID	The Adapter ID function stores port information such as the Adapter ID, OS, keyboard language, adapter name, operation modes and more. This enables administrators to relocate the servers to different ports without having to re-configure the adapters or switches.



KVM Adapter Cables

The following KVM adapter cables are required when using ATEN KVM over IP switches:

Type:	PS/2 KVM Adapter Cable	USB KVM Adapter Cable	Sun Legacy KVM Adapter Cable	Serial KVM Adapter Cable	USB Virtual Media KVM Adapter Cable	USB Virtual Media KVM Adapter Cable with Audio	USB Virtual Media KVM Adapter Cable with Smart Card Reader	USB Virtual Media KVM Adapter Cable with Audio	DVI USB Virtual Media KVM Adapter Cable with Smart Card Reader support	HDMI USB Virtual Media KVM Adapter Cable with Smart Card Reader	DisplayPort USB Virtual Media KVM Adapter Cable with Smart Card Reader
Interface:	6-pin Mini-DIN Male 6-pin Mini-DIN Male HDB-15 Male	USB Type A Male HDB-15 Male	13W3 Male DIN 8 pin Male	RS-232 DB-9 Female	USB Type A Male HDB-15 Male	USB Type A Male HDB-15 Male 2 Audio plugs	Connects to USB 2.0 ports with Smart Card Reader support	Connects to systems with USB 2.0 ports + Audio	Connects to USB 2.0 ports with Smart Card Reader support	Connects to USB 2.0 ports with Smart Card Reader support	Connects to USB 2.0 ports with Smart Card Reader support

Specifications

Function	KN2124VA	KN4124VA	KN2140VA	KN4140VA
Computer Connections				
Direct	24	24	40	40
Maximum	384 (via Cascaded KVM Switches)	384 (via Cascaded KVM Switches)	512 (via Cascaded KVM Switches)	512 (via Cascaded KVM Switches)
Console Connections				
Local	1	1	1	1
Remote	2	4	2	4
Port Selection	Pushbuttons, Hotkeys, GUI	Pushbuttons, Hotkeys, GUI	Pushbuttons, Hotkeys, GUI	Pushbuttons, Hotkeys, GUI
Connectors				
Console Ports	2 x USB Female (Black) 1 x DVI-I Female (White)	2 x USB Female (Black) 1 x DVI-I Female (White)	2 x USB Female (Black) 1 x DVI-I Female (White)	2 x USB Female (Black) 1 x DVI-I Female (White)
KVM Ports	24 x RJ-45 Female (Black)	24 x RJ-45 Female (Black)	40 x RJ-45 Female (Black)	40 x RJ-45 Female (Black)
USB Port	3 x USB Female (Black)	3 x USB Female (Black)	3 x USB Female (Black)	3 x USB Female (Black)
Audio	2 x Audio Jack Female (Pink; Green)	2 x Audio Jack Female (Pink; Green)	2 x Audio Jack Female (Pink; Green)	2 x Audio Jack Female (Pink; Green)
Laptop USB Console (LUC) Port	1 x Mini-USB Female (Black)	1 x Mini-USB Female (Black)	1 x Mini-USB Female (Black)	1 x Mini-USB Female (Black)
PON	N/A	N/A	N/A	N/A
Serial	N/A	N/A	N/A	N/A
LAN Ports	2 x RJ-45 Female (Black)	2 x RJ-45 Female (Black)	2 x RJ-45 Female (Black)	2 x RJ-45 Female (Black)
Power	2 x IEC 60320/C14	2 x IEC 60320/C14	2 x IEC 60320/C14	2 x IEC 60320/C14
Switches				
Power	2 x Rocker Switches	2 x Rocker Switches	2 x Rocker Switches	2 x Rocker Switches
Port Selection	2 x Pushbuttons	2 x Pushbuttons	2 x Pushbuttons	2 x Pushbuttons
Reset	1 x Semi-recessed Pushbutton	1 x Semi-recessed Pushbutton	1 x Semi-recessed Pushbutton	1 x Semi-recessed Pushbutton
LEDs				
Online / Selected	24 (Green/Orange)	24 (Green/Orange)	40 (Green/Orange)	40 (Green/Orange)
Power	2 (Blue)	2 (Blue)	2 (Blue)	2 (Blue)
Link 10 / 100 / 1000 Mbps	2 (Red/Orange/Green)	2 (Red/Orange/Green)	2 (Red/Orange/Green)	2 (Red/Orange/Green)
Emulation				
Keyboard / Mouse	PS/2; USB	PS/2; USB	PS/2; USB	PS/2; USB
Video				
Remote	1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200
Local	1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200
I/P Rating	100 - 240 VAC; 50 - 60 Hz; 1 A	100 - 240 VAC; 50 - 60 Hz; 1 A	100 - 240 VAC; 50 - 60 Hz; 1 A	100 - 240 VAC; 50 - 60 Hz; 1 A
Power Consumption				
Single Power	110 V, 32.78 W; 220 V, 33.44 W	110 V, 47.19 W; 220 V, 45.87 W	110 V, 45.87 W; 220 V, 44.66 W	110 V, 47.41 W; 220 V, 46.09 W
Dual Power	110 V, 18.81 W; 220 V, 19.36 W (per input)	110 V, 24.20 W; 220V, 23.65 W (per input)	110 V, 22.99 W; 220 V, 22.88 W (per input)	110 V, 25.52W; 220 V, 24.64 W (per input)
Scan Interval	1 - 255 Sec	1 - 255 Sec	1 - 255 Sec	1 - 255 Sec
Environmental				
Operating Temperature	0° to 40° C	0° to 40° C	0° to 40° C	0° to 40° C
Storage Temperature	-20° to 60° C	-20° to 60° C	-20° to 60° C	-20° to 60° C
Humidity	0 - 80% RH, Non-condensing	0 - 80% RH, Non-condensing	0 - 80% RH, Non-condensing	0 - 80% RH, Non-condensing
Physical Properties				
Housing	Metal	Metal	Metal	Metal
Weight	5.48 kg	5.51 kg	5.54 kg	5.56 kg
Dimensions (L x W x H)	43.36 x 41.21 x 4.40 cm	43.36 x 41.21 x 4.40 cm	43.36 x 41.21 x 4.40 cm	43.36 x 41.21 x 4.40 cm

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Publish Date: 03/2017 V3.0



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