

## **KN4164V**

1-Local/4-Remote Access 64-Port Multi-Interface Cat 5 KVM over IP Switch - TAA Compliant



ATEN's 4th generation of KVM over IP switches exceed expectations. The KN4164V features superior video quality (Full HD resolution of 1920 x 1200), FIPS 140-2 with level 1 security standards and virtual media transmissions at twice the speed. The KN series provides local console and remote over IP access for users to monitor and access their entire data center over a network. In addition. it offers out-of-band access with external modern support for BIOS-level troubleshooting when the network is down.

New KN Series Exclusive :

- Advanced FPGA graphics processor with an Full HD resolutions of 1920 x 1200
   Extreme virtual media speed 2 x faster virtual media transmission speed
- · High grade security supports FIPS 140-2 level 1 security standards

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

The KN series offers out-of-band (OOB) management that enables IT administrators to manage network devices (e.g. server, storage, router/switch) in server rooms via management networks that are separate from the main/production networks. So if there's difficulty in accessing the network devices through the production network, the administrators can still access them via the KVM switch. The KVM switch offers several out-of-band access methods, such as a direct console connection from a local computer, a USB console connection from a laptop, a PSTN connection via modem, or a dedicated management network connection via the Ethernet (LAN) port.

KN series devices can be integrated into the CC2000 Management Software. The CC2000 puts administrators in complete control of remote data centers and branch offices no matter where they are in the world - allowing IT administrators to remotely monitor and control all devices on a network, including blade servers and virtual machines.

In addition, the KN series is compatible with ATEN's KVM over IP Console Station, the KA82 series. The KA82 series is a hardware-based standalone console solution that can centrally manage multiple KN devices. It is especially suitable for environments where a PC is not allowed. The KVM over IP Console Station features a 0U space-saving compact design and low power consumption for 24/7 operations.

To help you manage and control an entire data center, ATEN KVM over IP switches support blade servers and chassis. With powerful features such as Power Association - KVM ports can be associated with ATEN PDU power outlets for power management of servers from the KVM over IP switches' user interface.

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

A Windows Client and a Java Client are available for remote access. They allow IP connection and login from anywhere over the internet. In addition, ATEN also provides an iOS APP - PadClient, whose intuitive interface makes it easy to connect to the KVM over IP switch and control computers direct from your iPad. Please visit the PadClient webpage for more information.

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



Features

- New KN Series Exclusive
- Advanced FPGA graphics processor with an Full HD resolution of 1920 x 1200
- Extreme virtual media speed 2 x faster virtual media transmission speed
- High-Grade Security supports FIPS 140-2 level 1 security standards that use an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1747, #2398, #2473) Simultaneously share one local console and four/eight independent connections to the attached servers
- Hardware
- High port density RJ-45 connectors and Cat 5e/6 cable for up to 64 ports in a 2U housing
- Laptop USB Console (LUC) A dedicated USB port directly connects to a laptop for easy Console operation Four or eight separate buses for remote KVM over IP access
- to 10/100/1000 Mbps NICs for redundant LAN or the
- 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 en Dual Power Supr
- High video resolution up to 1920 x 1200 @ 60Hz 24 bit color depth for the local console up to 50m, and 24 bit for the remote sessions
- Monitor and control up to 64 computers on a single level, or control up to 512 computers in a cascade'
- \* Cascade-compatible KVM Switches include the following: CS9138, CS1308, CS1316, KH1508A, KH1516A and KH1532A
- Management
- Up to 64 user accounts
- Up to 32 concurrent logins een IT-Fan spee
- ries according to temperature
- Event logging and Windows-based Log Server support .
- MTP email; SNMP trap and Syslog support al system event notifi Customizable events notification
- Firmware upgradeable
- Out-of-Band Access-Modem dial-in/dial out/dial back support
- strators to relocate the servers to different ports, without having to re-configure the adapters and switches s port infor
- Port Share Mode allows multiple users to gain access to a server simultaneously Integration with ATEN CC2000 Management Software
- Supports ATEN KVM over IP Console Station (KA8270 / KA8280 / KA8278 / KA8288) Integration with ATEN CCVSR Video Session Recording Software\*
- ch's KVM ports to b ith ATEN PDUs power outlets for remote power management
- IPv6 capable

\*supports recording computer operations accessed through the local console and via remote sessions.

- -to-Use Interfa
- ATEN Exclusive Panel Array Mode™ simultaneously monitoring for both local console operators and remote access users Local Console, browser-based, and AP GUIs offer a unified Multilanguage interface to minimize the 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 Users can launch multiple virtual remote desktop sessions to control multiple servers during the same login
- Full-screen or sizable and scalable Virtual Remote Desktop
- Keyboard/Mouse Broadcast keyboard and mouse inputs can be duplicated on all the attached servers
- ole monitor's EDID information stored on the KVM Adapter Cables for display resolution optimization o syncing with the local con ble - local co
- **Advanced Security**
- on support: RADIUS, LDAP, LDAPS, and MS Active Directory Remote auth
- Supports TLS 1.2 data encryption and RSA 2048-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 port for I
- 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 file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- s and ISO images ort DVD/CD driv s USB mass es PC hard dr rage
- Virtual Remote Desktop
- Video quality 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
- · Mouse DynaSync-automatically synchronizes the local and remote mouse movements
- Exit Macros support
- On-screen keyboard with multilanguage support
- · BIOS-level access for trouble shooting



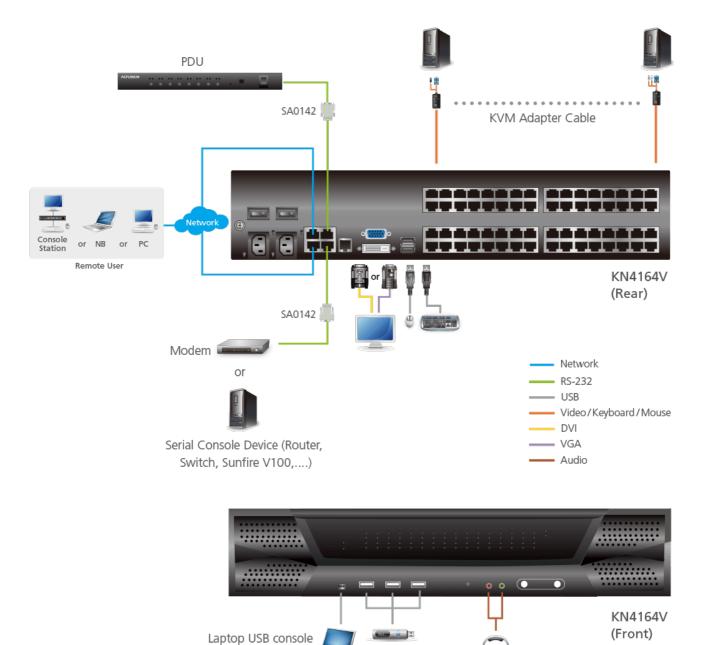
## Specification

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Addo         2 x Audo Jack Female           Lapop USB Consele (LUC) Port         1 x USB Mini-B Female           KVM Ports         64 x RJ-45 Female           Serial         1 x RJ-45 Female           PON         1 x RJ-45 Female           LAN Ports         2 x RJ-45 Female           Power         2 k RJ-45 Female           Power         2 x RJ-45 Female           Switches         2 x RJ-45 Female           Power         2 x RJ-45 Female           Forder         4 (Green/Orange/Green)           Power         2 (RJ-20 Green)           Power         2 (RJ-20 Green)           Voro         Pozy LSD-20 Green           Vidoo         1 2 SD x 1200 Green           Forder         1 2 SD x 1200 Green           Renoto         1 2 SD x 1200 Green           Sacia Interval         1 2 SD x 200 Green           Renoto         1 2 SD x 200 Green </td <td>Console Ports</td> <td>1 x DVI-D Female (White) 1 x VGA HDB-15 (Blue)</td>	Console Ports	1 x DVI-D Female (White) 1 x VGA HDB-15 (Blue)	
Lappp USB Console (LUC) Pot         1 x USB Mini-B Female           KVN Ports         64 x RJ-45 Female           Serial         1 x RJ-45 Female           PON         1 x RJ-45 Female           Powr         2 x RJ-45 Female           Switches         2 x RJ-45 Female           Post Selocion         2 x RJ-45 Female           Post Selocion         2 x RJ-45 Female           Post Selocion         2 x RJ-45 Female           Powr         2 x RJ-45 Female           Post Selocion         2 x RJ-45 Female           Post Selocion         2 x RJ-45 Female           Powr         2 x RJ-45 Female           Powr         2 x RJ-45 Female           Drine / Selectad         64 (Green/Orange)           Fibriton         2 (RJ-00range/Green)           Forder         y S2: US R           Powr         2 (SJ-100rage/Green)           Voleo         y S2: US R           Forder         1 202 x 1200 e01/2           Rondro         1 202 x 1200 e01/2           Rondro         1 202 x 1200 e01/2           Sain Interval         1 202	USB Port	3 x USB Type A Female	
KVM Ports         64 x RJ-45 Female           Strial         1 x RJ-45 Female           PON         1 x RJ-45 Female           LAN Ports         2 x RJ 45 Female           Power         2 x RJ 45 Female           Power         2 x RJ 45 Female           Switches         2 x RJ 45 Female           Port Selection         2 x RJ 45 Female           Power         2 x RJ 45 Female           Switches         1 x Semi-recessed Pushtuton           Power         2 x RJ 45 Kemsel           Power         2 x RJ 45 Kemsel           Coller / Selected         46 (Green Crange)           LEbs         2 (Red) Crange/Green)           Power         2 (Red) Crange/Green)           Power         2 (Red) Crange/Green)           Power         2 (Red) Crange/Green)           Fordator         2 (Red) Crange/Green)           Vafoo         2 (Red) Crange/Green)           Vafoo         2 (Red) Crange/Green)           Vafoo         2 (Red) Crange/Green)           Sole A Mouse         P Si2 (US B           Vafoo         2 (Red) Crange/Green)           Vafoo         1 - 255 Sec           Maxmun Input Power Pating         10 - 240 (Y - 50.40 Kr; 1A           Po	Audio	2 x Audio Jack Female	
Serial         1 x RJ45 Female           PON         1 x RJ45 Female           LAN Ports         2 x RJ45 Female           Powor         2 x RJ45 Female           Powor         2 x RL6 0320.C14           Switches         2 x RL6 0320.C14           Switches         2 x Ruchoszku CIA           Powor         2 x Ruchoszku CIA           LEbs         2 x Ruchoszku CIA           Dolin / Solecid O         4 (Green/Dangel Green)           Powor         2 (Ruchorangel Green)           Powor         2 (Ruchorangel Green)           Powor         2 (Ruchorangel Green)           Fordor         1 2 (Ruchorangel Green)           Powor         9 (Ruchorangel Green)           Powor         1 (Ruchorangel Green)	Laptop USB Console (LUC) Port	1 x USB Mini-B Female	
PON         1 x RJ 45 Female           LN Ports         2 x RJ 45 Female           Power         2 x RJ 45 Female           Power         2 x RJ 45 Female           Switches         -           Port Selection         1 x Semi-recessed Pushbutton           Power         2 x Rocker Switches           Power         2 x Rocker Switches           Driller / Selected         64 (Green/Orange)           Driller / Selected         64 (Green/Orange)           Driller / Selected         2 (Rad/Orange/Green)           Power         2 (Buk)           Errulation         -           Verder         1 y Si x 100 @ Odviz           Renote         1 y Si x 100 @ Odviz           Renote         1 y Si x 100 @ Odviz           Sean Interval         1 - 265 Sec           Maximum Input Power Rating         1 - 265 Sec           Maximum Input Power Rating         1 - 265 Sec           Ferriormental         -           Environmental         -           Power Consumption         1 - 265 Sec           Maximum Input Power Rating         0 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	KVM Ports	64 x RJ-45 Female	
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Power         2 x EC 60320C14           Switches            Pon Selection         2 x Pushbutons           Reset         1 x Semi-recessed Pushbuton           Power         2 x Decker Switches           Chine / Selected         4 Green/Orange           Dinin / Selected         4 (Green/Orange)           Licks         2 (Red/Orange/Green)           Power         2 (Red/Orange/Green)           Power         2 (Selected)           Keybaard / Mouse         PS2; USB           Chalo         1920 x 1200@ 60Hz           Lean         1920 x 1200@ 60Hz           Renote         1920 x 1200@ 60Hz           Sean Interval         1920 x 1200@ 60Hz; IA           Power Consumption         1920 x 1200@ 60Hz; IA           Power Consumption         10-240V~: 50-60Hz; IA           Power Consumption         August May Abgest TU           Consumertal         -25-Sec           Environmental         -25-Sec           Environmental         -26-Sec           Environmental         -04-OC           Environmental         -26-Sec           Environmental         -04-Sec           Environmental         -04-Sec           Environmental         -04	PON	1 x RJ-45 Female	
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Port Selection         2 x Pushbuttons           Reset         1 x Semi-recessed Pushbutton           Power         2 x Rocker Switches           LEDs	Power	2 x IEC 60320/C14	
Reset         1 x Semi-recessed Pushbutton           Power         2 x Roker Switches           LEDs	Switches		
Power         2 x Rocker Switches           LEDs         64 (Green/Orange)           Online / Selected         64 (Green/Orange)           Link 10 / 1000 Mbps         2 (Red/Orange/Green)           Power         2 (Blue)           Emulation         52 (SUB)           Keyboard / Mouse         PS/2; USB           Video         1920 x 1200 @ 60Hz           Remote         1920 x 1200 @ 60Hz           Scan Interval         1-255 Sec           Maximum Input Power Rating         100-240V~; 50-60Hz; 1A           Power Consumption         AC110V:44.3W28BBTU AC110V:44.3W28BBTU AC110V:44.3W28BBTU AC110V:44.3W28BBTU Coperating Temperature         0-40°C           Operating Temperature         0-40°C         2-06°C           Humidity         0-80% RH, Non-condensing         0-80% RM, Non-condensing	Port Selection	2 x Pushbuttons	
LEDs           Online / Selected         64 (Green/Orange/Green)           Link 10 / 1000 Mbps         2 (Red/Orange/Green)           Power         2 (Blue)           Emulation         Emulation           Keyboard / Mouse         PS/2; USB           Video         1           Local         1920 x 1200 @ 60Hz           Remote         1920 x 1200 @ 60Hz           Scan Interval         1.255 Sec           Maximum Input Power Rating         10-240V-; 50-60Hz; 1A           Power Consumption         AC100X-44X-268BTU AC10X-V4X-238BTU AC10X-V4X-23X-258BTU           Environmental         0.40°C           Storage Temperature         -20-60°C           Hunidity         0.40% RH, Non-condensing	Reset	1 x Semi-recessed Pushbutton	
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Link 10 / 100 / 1000 Mbps       2 (Red/Orange/Green)         Power       2 (Blue)         Emulation       Emulation         Keyboard / Mouse       PS/2; USB         Video       1920 x 1200 @ 60Hz         Local       1920 x 1200 @ 60Hz         Remote       1920 x 1200 @ 60Hz         Scan Interval       1 - 255 Sec         Maximum Input Power Rating       100-240V~; 50-60Hz; 1A         Power Consumption       A C110V.49.4W.268BTU AC220V.47.3W.258BTU AC220V.47.3W.258BTU         Environmental       0 - 40°C         Storage Temperature       0 - 60°C         Humidity       0 - 80% RH, Non-condensing	LEDs		
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Scan Interval1 – 255 SecMaximum Input Power Rating100–240V~; 50-60Hz; 1APower ConsumptionAC110V:49.4W:268BTU AC220V:47.3W:258BTUEnvironmental0Operating Temperature0 - 40°CStorage Temperature-20 - 60°CHumidity0 - 80% RH, Non-condensing	Local	1920 x 1200 @ 60Hz	
Maximum Input Power Rating100–240V~; 50-60Hz; 1APower ConsumptionAC110V:49.4W:268BTU AC220V:47.3W:258BTUEnvironmental0-40°COperating Temperature0-40°CStorage Temperature-20-60°CHumidity0-80% RH, Non-condensing	Remote	1920 x 1200 @ 60Hz	
Power Consumption       AC110V:49.4W:268BTU AC220V:47.3W:258BTU         Environmental       0 - 40°C         Operating Temperature       0 - 40°C         Storage Temperature       -20 - 60°C         Humidity       0 - 80% RH, Non-condensing	Scan Interval	1 – 255 Sec	
AC220V:47.3W:258BTU       Environmental       Operating Temperature     0 - 40°C       Storage Temperature     -20 - 60°C       Humidity     0 - 80% RH, Non-condensing	Maximum Input Power Rating	100–240V~ ; 50-60Hz; 1A	
Operating Temperature     0 - 40°C       Storage Temperature     -20 - 60°C       Humidity     0 - 80% RH, Non-condensing	Power Consumption		
Storage Temperature     -20 - 60'C       Humidity     0 - 80% RH, Non-condensing	Environmental		
Humidity 0 - 80% RH, Non-condensing	Operating Temperature	0 - 40°C	
	Storage Temperature	-20 - 60°C	
Physical Properties	Humidity	0 - 80% RH, Non-condensing	
	Physical Properties	•	



Housing	Metal
Weight	7.00 kg ( 15.42 lb )
Dimensions (L x W x H)	43.36 x 41.26 x 8.80 cm (17.07 x 16.24 x 3.46 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram





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