

KM0932

9-Console 32-Port Cat 5 Matrix KVM Switch with Daisy-Chain Port



ATEN Matrix KVM Switches are designed for modern [data centers](#) that require reliable, high security access and control of multiple servers. With non-blocked access and flexible expansion support, Matrix KVM switches offer high quality video sessions for secure, real-time control of your entire [data center](#) devices.

With automatic skew compensation and Auto Signal Compensation (ASC) techniques, Matrix KVM switches provide greatly enhanced video quality via Cat 5e/6 cabling - 1280x1024 @60Hz for up to 300 meters. The industry's first full screen Graphical User Interface offers a tree view list of installed devices - providing smooth navigation and convenient access and control - not only saving on training time and costs; but increasing user efficiency, as well.



Features

- **Hardware**
 - 9 consoles independently and simultaneously control up to 32 directly connected servers
 - Flexible expansion - the installation can grow as you need:
 - Daisy-chain up to 7 [KM0032](#) units
 - Switches can be cascaded to three levels
 - Supports cascading [KH1508/KH1516/KN2116A/KN2124v/KN2132/ KN2140v/ KN4116/ KN4124v/ KN4132/ KN4140v](#) switches
 - Console expansion support - allows up to 18 consoles to access the servers on the installation by connecting servers with the [KA7178](#) Dual Output KVM Adapter Cables or via a Dual Root configuration **NEW!**
 - Audio support for multimedia-capable devices
 - Redundant power supply for 24 x 7 reliability
 - Multiplatform support: PC, Mac, Sun, and Serial Console access - any type of console can control any type of computer; mixed combinations (PS/2 & USB) supported on both the console and computer sides
 - Compact design - rack mounts in only 1U of rack space
- * Dual Root configuration support depends on firmware version
- **Ease-to-Use Interface**
 - Full screen graphical user interface - saves on training time and costs - increases user efficiency
 - Embedded web interface for easy system configuration and management
 - Composite tree view - all connected devices are integrated in a single device tree for convenient management access and control
 - The port list automatically expands when stations are added - port names are automatically reconfigured when the station sequence changes

- Multilingual user interface support – English, German, Japanese, Korean, Traditional Chinese, Simplified Chinese, Russian
- Simplified OSD Mode sets limited functionality for all user type accounts **NEW!**
- **Convenient Port Operation**
- Computer selection via GUI or intuitive hotkey combinations
- Port level access control – users can only access the ports they have been authorized for – whether in a single-station or multi-stage installation
- Console Selector allows setup of forced console to port connections for easy viewing and operation of computers
- Push Video Hotkey allows a user to push their console’s port connection to another console for viewing or operating
- Users can access features on multiple computers simultaneously – a user can be working and listening to music on computer 1 while utilizing [virtual media](#) on computer 2 at the same time
- MultiView supports grouping for single port access to a computer connected to multiple ports utilizing multiple video cards **NEW!**
- Multicast Audio gives multiple console access to the same KVM port – allowing both to listen to the audio being broadcast by that port
- Versatile port operation modes for flexible server management:
 - Scan – provides automatic monitoring of user-selected computers
 - Exclusive – allows the first user to access a port to gain exclusive viewing rights and control over it for as long as he accesses it
 - Occupy – allows the first user to access a port to control that port while others can only view it
 - Share – allows multiple users to access and control a port at the same time on a cooperative basis
- Broadcast support enables executing the same command on multiple servers at the same time
- Disable Toolbar function – disables Toolbar from showing on the screen when the toolbar hotkey is used, instantly returning user to the GUI instead
- **Management**
- Supports up to 1024 user and 255 group accounts
- Three level password security: Super Administrator, Administrator, User
- Stringent password policy features that include password expiration; required password changes, account disabling, and account expiration.
- Disable OSD Mode allows non-authenticated logins **NEW!**
- Disable RS-232 Login Mode allows non-authenticated serial terminal logins **NEW!**
- Intelligent Path Assignment – can allocate the best available path for the user under multi-path cascading and daisy-chaining
- Power Over the NET™ integration for power control
- Power Association enables the switch’s KVM ports to be associated with a [PDU](#)’s power outlets for remote power management of the servers from the switch’s interface
- RS-232 port login support permits an administrator to control the KVM port access for all consoles connected to switch – any console can be assigned to access any KVM port from a single interface point
- Session Management – a Kill Session function provides administrators with the ability to force user logouts
- Backup and restore of configuration settings and user account information
- Firmware upgrades can be performed simultaneously on all daisy chained and cascaded switches as well as connected adapter cables
- Adapter ID – adapter cable’s configuration information is stored with the adapter – no need to reconfigure the adapter when moving a server to a new port
- Remote authentication supports; RADIUS, LDAP, TACACS, LDAPS, and MS Active Director
- Supports ATEN Log Server and Syslog Server
- **Virtual Media**
- Virtual Media support lets you map storage media to servers that are connected to the switch allowing operators to conduct file transfers, install applications and OS patches, and perform diagnostics from a single console
- Works with USB enabled servers at the operating system and BIOS levels
- Supports DVD/CD drives, USB mass storage devices
- Supports mounting Smart Card Readers and [Virtual Media](#) at the same time, on computers connected with [KA7177](#) Adapter Cables **NEW!**
- **Video**
- User’s display automatically adjusts to resolution differences on the remote servers
- Superior Video Quality – supports input video resolutions up to 1920 x 1200 @ 60 Hz up to 200 meters; 1280 x 1024 @ 60 Hz up to 300 meters (with [KA7230](#) or [KA7240](#))
- Superior Video Quality – supports input video resolutions up to 1920 x 1200 @ 60 Hz up to 150 meters; 1280 x 1024 @ 60 Hz up to 200 meters (with [KA7230S](#) or [KA7240S](#))
- Get and store [EDID](#) monitor information for updates on KVM adapters for optimum display resolutions
- Auto Signal Compensation (ASC) assures optimum video resolution for distances up to 300 m between computers and consoles – no DIP switch setting required
- Enhanced video quality via automatic skew compensation support for the [KA7240](#) console module, and the newer KVM adapter cable series*

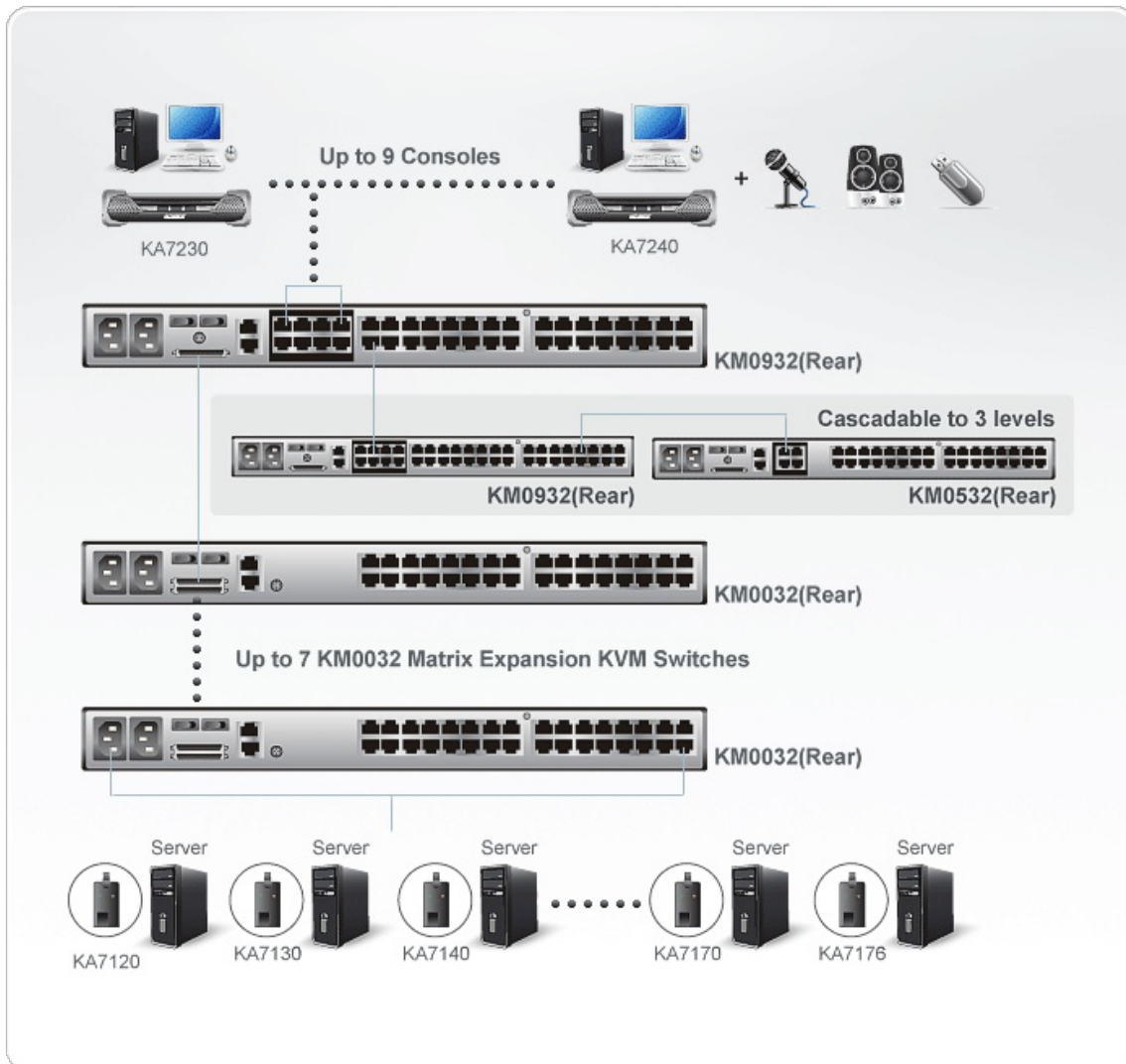
* With KVM Adapter Cable KA7xxx series

Specifications

| | |
|------------------------------|---|
| Computer Connections | |
| Direct | 32 |
| Console Connections | 9 |
| Port Selection | GUI, Hotkey |
| Connectors | |
| Console Ports | 9 x RJ-45 Female |
| KVM Ports | 32 x RJ-45 Female |
| Daisy Chain Ports | 1 x VHDCI 68 Female (Black) |
| LAN Ports | 1 x RJ-45 Female |
| PON | 1 x RJ-45 Female |
| Power | 2 x IEC 60320/C14 |
| Switches | |
| Reset | 1 x Semi-recessed Pushbutton |
| Power | 2 x Rocker |
| Firmware Upgrade | 1 x Slide |
| LEDs | |
| KVM Port (On Line /Selected) | 32 Dual-colored (Green / Orange or Red) |
| Console | 9 (Green) |
| Power | 1 (Blue) |
| Maximum Input Power Rating | 100-240V~, 50/60 Hz; 1A |
| Power Consumption | AC110V:50.61W:237BTU AC220V:53.87W:253BTU |
| Emulation | |
| Keyboard / Mouse | PS/2; USB |
| Scan Interval | 1-240 Seconds |
| Video | To work with KA7230S or KA7240S, 1920x1200@60Hz (150 m), 1280x1024@60Hz (200 m); To work with KA7230 or KA7240, 1920x1200@60Hz (200 m); 1280x1024@60Hz (300 m) |
| Environmental | |
| Operating Temperature | 0 - 50°C |

| | |
|------------------------|---|
| Storage Temperature | -20 - 60°C |
| Humidity | 0-80% RH, Non-condensing |
| Physical Properties | |
| Housing | Metal |
| Weight | 6.08 kg (13.39 lb) |
| Dimensions (L x W x H) | 43.84 x 41.09 x 4.40 cm (17.26 x 16.18 x 1.73 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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