

## KM0032

32-Port Cat 5 Expansion 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**
  - Daisy-chain up to 7 units to a [KM0932/KM0532](#)
  - 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
- **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\*

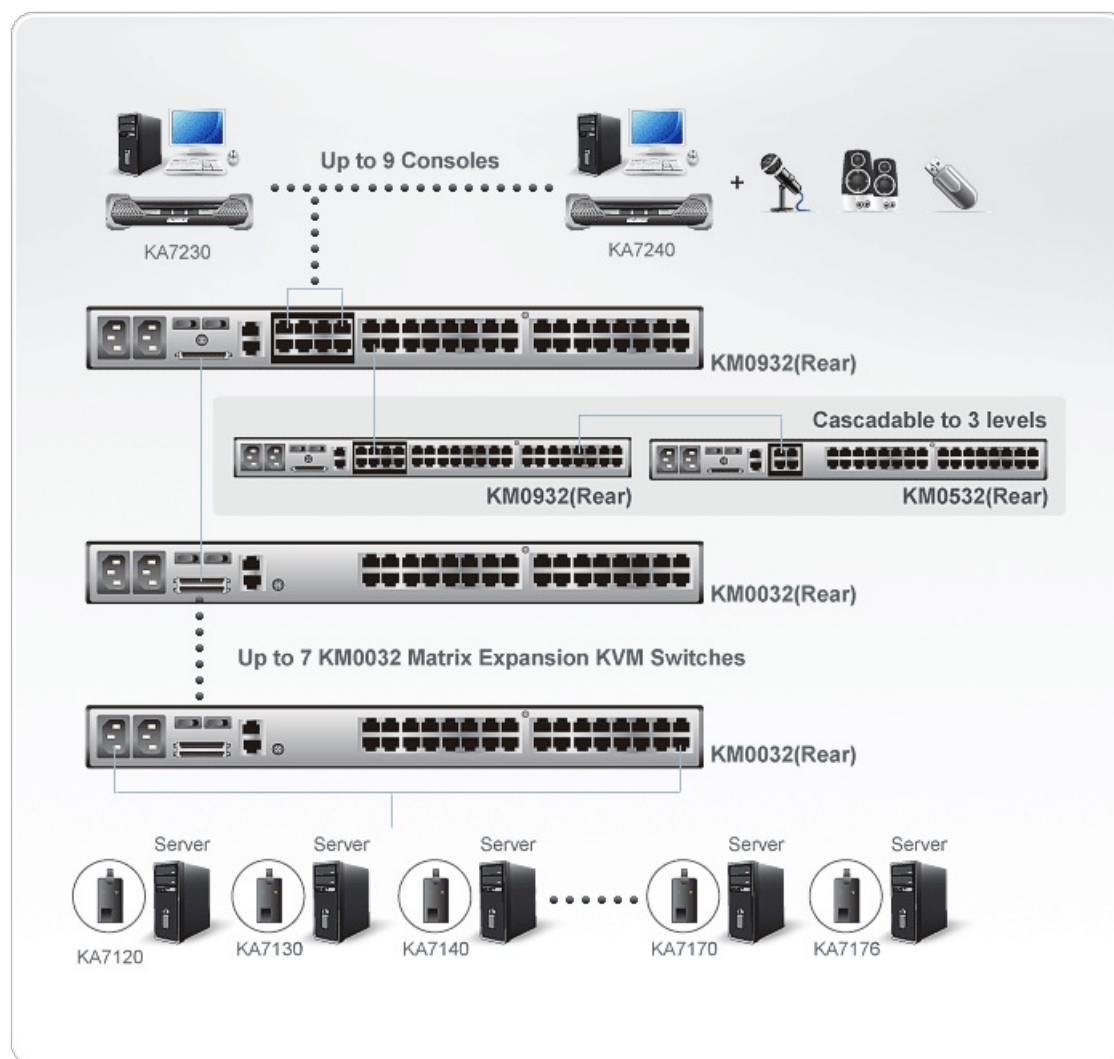
\* With KVM Adapter Cable KA7xxx series

## Specifications

Computer Connections	
Direct	32
Port Selection	GUI, Hotkey
Connectors	
KVM Ports	32 x RJ-45 Female
Daisy Chain Ports	2 x VHDCI 68 Female (Black)
Firmware Upgrade	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	
Online / Selected (KVM Port)	32 Dual-colored (Green / Orange or Red)
Station ID	2 x 7 Segment LED (Orange)
Power	1 (Blue)
Maximum Input Power Rating	100–240V~, 50/60 Hz; 1A
Power Consumption	120V/50W; 240V/51W  Note: <ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul>
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	6.06 kg ( 13.35 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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