

## KE8900ST

Slim HDMI Single Display KVM over IP Transmitter



The KE8900S Slim HDMI KVM [over IP](#) Extender is a pair of compact and affordable high performance IP-based transmitter (KE8900ST) / receiver ([KE8900SR](#)) that allows access to a computer system from a remote USB console (USB keyboard, USB mouse, HDMI monitor) over an intranet, enabling users to locate computers in a secure and temperature controlled environment, which is isolated from users' workstation. The KE8900ST or [KE8900SR](#) can be paired with any KE Series\* receiver or transmitter for a savings solution that stays within budget.

The KE8900ST supports HDMI video input from the computer while the [KE8900SR](#) supports one HDMI monitor output, providing video resolutions up to 1920 x 1200 and flawless and lossless video compression quality with minimal latency. The extender also supports [Virtual Media](#) function and RS-232 serial commands. In addition to a DC power jack, the KE8900ST transmitter includes an extra DC terminal block for convenient installation.

The KE8900ST can be set on a desk, mounted on a wall or at the rear of a rack with its [space-saving](#) 0U rack mount design. Moreover, the KE8900S can be used as a point-to-point/point-to-multipoint/multipoint-to-point extender, or integrated into a KVM [over IP](#) Matrix System (multipoint-to-multipoint) when combined with the KE Matrix Management Software ([CCKM](#)), providing more flexible applications in different working environments.

The KE extender provides multiple ways for configuration, such as the receiver's local OSD, KE Matrix Management Software, or RS-232/Telnet text menu. The KE extender also offers enhanced security features such as supporting AES encryption for secured Video/Keyboard/Mouse/USB data transmissions and RADIUS/LDAP/AD or remote user authentication that provides an added layer of connection security.

When integrated with the KE Matrix Management Software, the KE extender supports more advanced features such as [boundless switching](#), fast switching, video wall, multi display, profile scheduling, auto detection of all KE Series extenders on the same subnet for the sake of fast installation or configuration, as well as username/password authentication and authorization. Please refer to the [CCKM](#) webpage for more details.

Whether you're configuring, monitoring, administrating, controlling or extending computer access, the KVM [over IP](#) Matrix System is made adaptable, to fit an endless variety of working environments and workstation settings, as well as to provide solutions in broadcasting, control center, multimedia, manufacturing and many other industries where matrix extending is required.

\*Please visit [www.aten.com](http://www.aten.com) for a comprehensive list of KE Series Extenders.



### Features

- [Hardware](#)
  - Advance processor provides lossless and low latency video transmissions up to 1920 x 1200 @ 60Hz; 24-bit color depth
  - Support standard HDMI resolutions from 640 x 480 up to 1920 x 1200

- USB [Virtual Media](#) Support
  - Compliant with HDMI 1.4a and [HDCP](#) 1.4
  - Auto-MDIX – automatically detects cable type
  - Built-in 8KV/15KV ESD protection and 1KV surge protection
  - Slim, light and fanless design for silent operations that are energy efficient
  - Support connection via Gigabit Ethernet port
  - Rack Mountable\* and Wall Mountable
  - Mounting options:
    - VE-RMK 1U Extender Rack Mount Kit\*
- Note: \*Refer to [www.aten.com](http://www.aten.com) for more regarding the VE-RMK 1U Extender Rack Mount Kit.

## • Management

- Remotely access computers on your KVM installation via intranet
- OSD (On Screen Display) on the Receiver configures both Tx/Rx units
- EDID Expert™ – selects optimum [EDID](#) settings for smooth power-up and highest quality display
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or Telnet by issuing commands
- RS-232 serial ports – allow you to connect to a serial terminal for text menu, CLI, or serial devices such as touch screens and barcode scanners
- Compatible with all KE devices

## • Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – AES encryption to secure Video/Keyboard/Mouse/Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

## • Virtual Media

- Virtual Media enables file transfers, OS patching, software installations and diagnostic [testing](#)
- Support USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Support Smart Card/CAC Reader

## • Advanced Features\*\*

- Flexible connections – allows multiple extender and matrix connections for multi-display installations and video wall applications
- “Push” and “Pull” – share content instantly by just one click
- Fast Switching – switch between different remote video resolutions on a local display within 0.3 second
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB, and serial sources independently
- Support both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Advanced User Authorization Settings – administrators can set four access modes of permissions on Tx devices for collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE transmitters to support multi-display applications

Note: \*\*These advanced functions are supported when the KE devices are managed by KE Matrix Management Software ( [CCKM](#) )

- **Recommended Network Switches**

- Below are the network switches that have passed ATEN's stress [tests](#) using the KE Series extenders. Our [tests](#) streamed content over a network with a resolution of 1920 x 1200 @60Hz (KE69 Series) and 3840 x 2160 @30Hz (KE89 Series), 24bit color depth at 60 frames per second.
  - Cisco Catalyst 2960X / Catalyst 2960XR / Catalyst 3750
  - HP Procurve 2920
  - H3C S5120
  - Huawei S5700
  - DLink DGS-1510

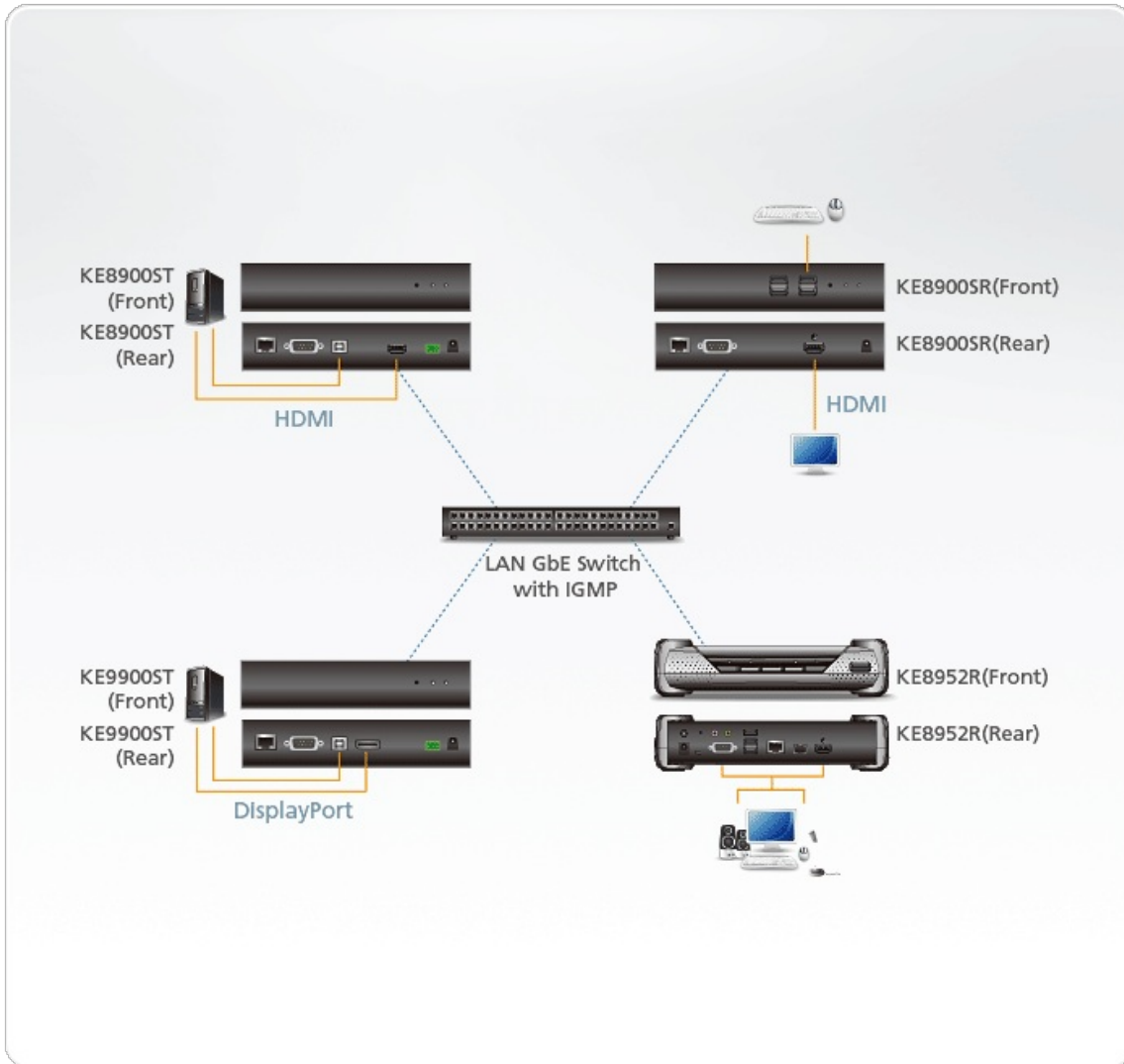
Please refer to the FAQ link below on how to select network switches and network switch information collected by ATEN Customer Service Division, where the collected information includes customer's feedback from their actual experience in using and installing the product(s).

<https://eservice.aten.com/eServiceCx/Common/FAQ/view.do?id=6276>

## Specifications

Connectors	
KVM Ports	1 x USB Type B Female (White) 1 x HDMI Female (Black) 1 x DB-9 Female (Black)
Power	1 x DC Jack (Black) 1 x 3-Pole Terminal Block Connector (Green)
LAN Ports	1 x RJ-45 (Black)
Switches	
Reset	1 x Semi-recessed Pushbutton
LEDs	
10/100/1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)
Power	1 (Blue)
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC5V:4.3W:20BTU DC48V:6.61W:31BTU
Video Resolution	Up to 1920 x 1200 @ 60Hz
Environmental	
Operating Temperature	0–50°C
Storage Temperature	-20–60°C
Humidity	0–95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg ( 1.43 lb )
Dimensions (L x W x H)	18.20 x 11.75 x 2.87 cm (7.17 x 4.63 x 1.13 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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