

KE8950R

4K HDMI Single Display KVM over IP Receiver



ATEN is well known for delivering innovative technologies that drive connectivity and access management solutions. As such, we introduce the new ATEN KE8950 4K HDMI KVM over IP Extender that brings together a unique blend of features and new technologies that offer the ultimate solution for extending computers to consoles on or off your IT infrastructure.

Utilizing expertise in over IP KVM solutions, KE8950 are IP-based HDMI KVM extenders that allow access to a computer system from a remote USB console to anywhere over an intranet. The KE8950 KVM over IP Extenders support one HDMI monitor at each end, providing a greatly improved video display image with 4K x 2K video resolution (up to 3840 x 2160). KE8950 also support 1Gbps SFP fiber module expansions, enabling connections via fiber optic network to extend distances in transmission.

The 4K HDMI KVM over IP Extender consists of a Transmitter unit that connects to the computer and a Receiver unit that provides console access from a separate location. The computer is accessed from the remote console over a standard TCP/IP network via Cat 5e/6 cable that allows point-to-point, point-to-multipoint, multipoint-to-multipoint administration. <u>KE8950</u> can be connected either directly to each other or via a high-speed network, over a copper-based or fiber-based LAN.

Implementing the KVM over IP Matrix Manager (CCKM) with KE8950. IT administrators receive advanced features functioning as auto detection of all KE Series Extenders* on the same subnet for the sake of fast installation or configuration, username/password authentication and authorization, and the ability to define different types of connections that can be switched and shared. Security features also provide extra protection, supporting AES encryption for secured data transmissions, while RADIUS, LDAP, AD or remote user authentication provides an added layer of connection security; moreover, with an OSD, RS-232 support, and Auto MDIX, the KE series is the most cost-effective and convenient way to get a full digital extension from anywhere on the intranet.

More flexible and efficient operations can be achieved in the KVM over IP Matrix System, which integrates KE Series Extenders with the KVM over IP Matrix Manager (CCKM), such as multi-display setups, video grouping, video profile scheduling and enhancements that give greater access to quick and easy control tools to configure KE devices over a network. 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.

Note: Refer to www.aten.com for more about the KE Series extenders. For the latest list of compatible network switches, please visit: ATEN Support Center for more information





Features

Advanced Features¹

- ATEN Matrix Link allows users instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Boundless Switching simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)

 Fast Switching switch between different remote video resolutions on a local display within 0.3 seconds

- Boundless Switching simply move the mouse cursor across screen boundaries to switch between different receivers (Hx) Fast Switching switch between different remote video resolutions on a local display within 0.3 seconds "Push" and "Pull" shares content instantly to / from a single Rx or video wall by just one click Video Walls create multiple video walls with up to 12 x 12 (144 displays max.) in each layout Plexible connections allows multiple extender and matrix connections for multi-display installations and video wall applications On-screen Preview (Panel Array™ Mode) allow users to view the video of up to 36 displays on one screen

- Advanced Scheduling improves efficiency and saves costs by allowing media playback to be set based on time and date
 Channel connections allow RX devices to connect to multiple TX devices to stream video, audio, USB and serial sources independently

- Channel connections allow HX devices to connect to multiple IX devices to stream video, audio, USB and serial sources independently streams video, audio, USB, and serial sources from different Y.
 Internal and external authentication support supports LDAP, Active Directory, RADIUS and TACACS+ external authentications
 Advanced User Authorization Settings administrators can set four access modes of permissions on TX devices for collaboration or to avoid interference among users
 Video grouping of up to 4 sets of KE series devices to support Multi-Display applications
 Configurable user and group permissions for access and control of KVM over IP extenders

- Rx access control users at the Tx local console can enable / disable Rx access by simply pressing a control button ²

- These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by CCKM. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Contact your ATEN dealer for product information

Hardware

- The housing meets IEC 60945 standards for maritime control room use and has passed environmental tests
 Network failover 1 RJ-45 & 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Supports 1Gbps SFP fiber module expansions up to 10 km ¹
 Advance processor provides lossless and zero latency video transmissions up to 3840 x 2160 @ 60 Hz (4:2:0), 3840 x 2160 @ 30 Hz (4:4:4); 8-bit RGB (24-bit total color) Support 32:9 ultra-wide resolution
- Audio Enabled supports stereo speakers and microphone

- Autol Enabled Supports stereo speakers and micropnone
 High speed USS Storage Transmission support
 Auto-MDIX automatically detects cable type
 Built-in 8KV/15KV ESD protection and 1KV surge protection
 Fanless design for silent operations that are energy efficient
 Rack Mountable Mounting options:

 2X-0215 Dual Rack Mount Kit

 2X-0215 Single Pack Mount Kit

- 2X-031C Single Rack Mount Kit
 Includes an industrial-grade power adapter supports operating temperature of 0°C-50°C to ensure durability and adaptability under harsh environmental conditions

The SFP module (<u>2A-136G</u> / <u>2A-137G</u>) is sold separately. Contact your ATEN dealer for product information

Management

- Centralized management software KVM over IP Matrix Manager (CCKM) allows users to easily administrator all KE devices with an intuitive web-based GUI
 Dual console operation controls the user's system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
 OSD (On Screen Display) on the Receiver configures both units
 EDID Expert*— selects optimum EDID settings for smooth power-up and highest quality display
 Four selectable access modes for multiple simultaneous access(Exclusive/Occupy/Share/ View only mode) administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among
- Command line interface administrators can control all KVM over IP extenders via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports allow users to connect to a serial terminal for TextMenu. CLI, or serial devices such as touch screens and barcode scanners

- Supports Holkey Commands uses to connect or a sena terminal or retainent, CLI, or senar devices such as tooch screens. Supports Holkey Commands uses help locate and identify devices. Video Compression Level allow users to increase / decrease the video quality to adjust for appropriate network bandwidth. Compatible with all KE devices.

Security

- Dedicated LAN port for KE direct connections can be isolated from the corporate network
 Secure data transmission AES 128-bit encryption to secure all data before transmitted over a network and decrypts the data on the receiver
 Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- . USB storage transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD / CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports smart card / CAC reader



Specifications

2 x US	ISB Type A Female (White) ISB Type A Female (White) IDM Female (Black) IDM I Female (Black) Init Stereo Jack (Green) Init Stereo Jack (Fink) IB-9 Male (Black) IDC Jack
Console Ports	ISB Type A Female (White) IDMI Female (Black) Idmi Stereo Jack (Green) Idmi Stereo Jack (Pink) IDM Stereo Jack (Pi
1 x Ht 1 x Mi	IDMI Female (Black) Idmi Stereo Jack (Green) Idmi Stereo Jack (Pink) IB-9 Male (Black) IDC Jack (Black) IQC Jack (Black) IQC Jack (Black) IQU Jack (Blac
Power	RU-45 (Black) FFP Slot Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton
LAN Ports 1 x Ru 1 x SF Switches Switches OSD 1 x Pu Video 1 x Pu Graphics 1 x Pu Reset 1 x Se LEDs 10/100/1000 Mbps 1 (10: Power 1 (Blu Local 1 (Green Remote 1 (Green	RU-45 (Black) FFP Slot Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton
1 x SF	Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton Pushbutton
OSD 1 x Pu Video 1 x Pu Graphics 1 x Pu Reset 1 x Se LEDs 10/100/1000 Mbps 1 (10: Power 1 (Blu Local 1 (Green Remote 1 (Green	Pushbutton Pushbutton Demi-recessed Pushbutton
Video 1 x Pu Graphics 1 x Pu Reset 1 x Se LEDs 10/100/1000 Mbps 10/9 Power 1 (Blu Local 1 (Green Remote 1 (Green	Pushbutton Pushbutton Demi-recessed Pushbutton
Graphics 1 x Pu Reset 1 x Se LEDs 10/100/1000 Mbps 1 (10: Power 1 (Blu Local 1 (Green Remote 1 (Green	Pushbutton Gemi-recessed Pushbutton
Reset 1 x Set LEDs 10/100/1000 Mbps 1 (10: Power 1 (Blut Local 1 (Green Remote 1 (Green	Semi-recessed Pushbutton
LEDs 10/100/1000 Mbps 1 (10: Power 1 (Blu Local 1 (Gre Remote 1 (Gre	
10/100/1000 Mbps 1 (10: Power 1 (Blut Local 1 (Gree Remote 1 (Gree	
Power 1 (Blue Local 1 (Green Remote 1 (Green	
Local 1 (Gre Remote 1 (Gre	: Orange / 100: Orange & Green / 1000: Green)
Remote 1 (Gre	ue)
,	reen)
Emulation	reen)
Keyboard / Mouse USB	
Power Consumption DC5V	V:5.65W:52BTU/h
Note: ● The ● The	: e measurement in Watts indicates the typical power consumption of the device with no external loading. e measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Video Resolution 3840 3	x 2160 @ 60Hz (4:2:0), 3840 x 2160 @ 30 Hz (4:4:4)
Latency < 5ms	is
Environmental	
Operating Temperature 0–50°	ec
Storage Temperature -20-6	60°C
Humidity 0–95%	% RH, Non-condensing
Physical Properties	
Housing Metal	
Weight 1.23 k	kg (2.71 lb)
	5 x 17.16 x 5.48 cm x 6.76 x 2.16 in.)
Note For so	

Diagram







