

KE6920R

2K DVI-D Dual-Link KVM over IP Receiver with Dual SFP



The KE6920 is a high performance IP-based extender consisting of a transmitter ([KE6920T](#)) and a receiver (KE6920R). The transmitter connects to a computer to deliver the computer's data to the receiver to collectively provide console access from a remote or separate location. The KE6920 allows extended access of computer systems remotely via USB consoles (USB keyboard, USB mouse, DVI monitor) over intranet, enabling users to place the computer system in secure and temperature controlled environments, which maybe isolated from users' workstation.

The KE6920 supports one DVI display at each end, providing video resolutions up to 2560 x 2048 @ 50Hz and flawless and lossless video compression quality with extremely low latency. The KE6920 supports network connections via the RJ-45 port or the two SFP slots. The transmitter and receiver can be connected either directly to each other, or via a high-speed network over a copper-based or fiber-based LAN. By connecting via the SFP slots with 1Gbps SFP fiber module* expansions on fiber optic network, you can extend transmission distances up to 10km. The KE6920 also features dual power supplies for redundancy to ensure dependable services.

The KE6920 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. As an IP-based matrix extender, the KE6920 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.

When integrated with the KE Matrix Management Software, the KE6920 supports more advanced features such as authentication lock, adaptive fast switching, connection redundancy, disconnection alert, boundless switching, "Push" and "Pull", video wall and multi-display setups, and profile scheduling that provide uninterrupted access with quick and easy control tools to use the KE6920 over a network. More functions include auto detection of all KE Series extenders** in the same subnet for 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 AES encryption support for secured data transmissions, and RADIUS, LDAP, AD or remote user authentication methods provide an added layer of connection security. Moreover, with an OSD, RS-232 support, and Auto MDIX, the KE6920 is the most cost-effective and convenient way to get a full digital extension from anywhere on the intranet.

Whether you're monitoring, operating, 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, and provide solutions in traffic management centers, retail surveillance centers, facility situation rooms, command control centers, utilities process control centers, broadcasting distribution monitoring systems, network operations centers (NOC), and many other industries where matrix extension is required.

*The SFP module ([2A-136G](#) / [2A-137G](#)) is sold separately. Contact your ATEN dealer for product information.

**Refer to www.aten.com for a list of the KE Series extenders.



Features

- **Exclusive Features for ATC Industry***

- Supports 2K x 2K video resolution (2048 x 2048 @ 60Hz)
- Adaptive Fast Switching - switches automatically and immediately between different Tx video resolutions on a Rx display (within 0.3 seconds)
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- "Push" and "Pull" - shares content instantly to/from a single Rx or video wall by just one click
- Authentication Lock - automatically logs in when the power of the system is resumed after power off
- Connection Redundancy - automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert - Pop-up warning message and looping alarm beeping notify users the disconnection status
- Supports power/network failover - KE6920 has 2 DC jacks for power redundancy while 1 RJ45 & 2 SFP fiber ports for network failover to ensure constant availability for mission-critical applications

- **Advanced Features***

- 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 - independently streams video, audio, USB, and serial sources from different Tx
- 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
- 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
- Rx access control - users at the Tx local console can enable / disable Rx access by simply pressing a control button**

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

**The KVM over IP Access Control Box ([2XRT-0015G](#)) is sold separately. Contact your ATEN dealer for product information.

- **Hardware**

- Supports DVI-D Dual Link video resolutions up to 2560 x 1600 @60Hz and 2560 x 2048 @50Hz
- Supports stereo speakers and stereo microphone
- Supports Virtual Media or vUSB
- Auto-MDIX - automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Supports connection via Gigabit Ethernet port (RJ-45) or 1Gbps SFP fiber module expansions*** for failover
- Supports 1Gbps SFP fiber module expansions*** up to 10 km
- Power Redundancy - KE6920 has 2 DC jacks for power redundancy
- Rack Mountable - Mounting options:
 - [2X-021G](#) Dual Rack Mount Kit
 - [2X-031G](#) 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

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• Management

- Centralized KE Series management software – KE Matrix Management Software ([CCKM](#)) allows users to easily administrator all KE devices with an intuitive web-based GUI
- Dual console operation – controls your system from both the transmitter’s and receiver’s keyboard, monitor, and mouse consoles
- Local console for emergency operation
- OSD (On Screen Display) on the receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- 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 TextMenu, 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 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

- Virtual Media 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

Specification

Connectors	
USB Port	2 x USB Type A Female (White)
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	N/A
Power	2 x DC Jack (Black)
LAN Ports	1 x RJ-45 (Black) 2 x SFP Slot
Switches	
OSD	1 x Pushbutton
Video	1 x Pushbutton

Graphics	1 x Pushbutton
Reset	1 x Semi-recessed Pushbutton
Mode Selection	1 x Slide Switch (Extension, RS-232 Config)
LEDs	
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)
Power	1 (Blue)
Local	1 (Green)
Remote	1 (Green)
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC5V:8.86W:67BTU
Video Resolution	Up to 2560 x 2048 @ 50Hz/2560 x 1600 @ 60Hz/2048 x 2048 @60Hz
Environmental	
Operating Temperature	0-50°C
Storage Temperature	-20-60°C
Humidity	0-95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	1.27 kg (2.8 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 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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