Simply Better Connections

KE8980MR

4K Quad-Display KVM over IP Multi-View Receiver

Intelligent Control. Complete Visibility. Leaner Teams.

The KE8980MR is a high-performance KVM over IP Multi-View Receiver designed to revolutionize how you monitor and control physical and virtual servers across up to four displays at a single workstation. Seamlessly integrated into the KVM over IP Matrix System, it empowers operators to effortlessly manage up to 16 servers in stunning True 4K clarity using flexible multiview layouts, while simultaneously monitoring up to 108 servers to maximize productivity in high-stakes environments.

Engineered for operational excellence, the KE8980MR features ATEN's exclusive Boundless Switching MX™, allowing real-time switching between systems simply by moving the mouse freely across displays and windows, ensuring an immediate response to mission-critical events when every second counts. Additionally, with video wall integration, the KE8980MR fosters timely team collaboration and sharp situational awareness.

Purpose-built for leaner operations, the KE8980MR minimizes hardware complexity and maximizes team efficiency. Whether in broadcast, air traffic control, surveillance, or mission-critical transportation hubs, it's an indispensable solution that promotes agile teamwork, without expanding headcount.

Quad Displays

Multiview Monitoring

Physical + Virtual Servers

Ultra-Low Latency

Panel Array™

Boundless Switching MX™

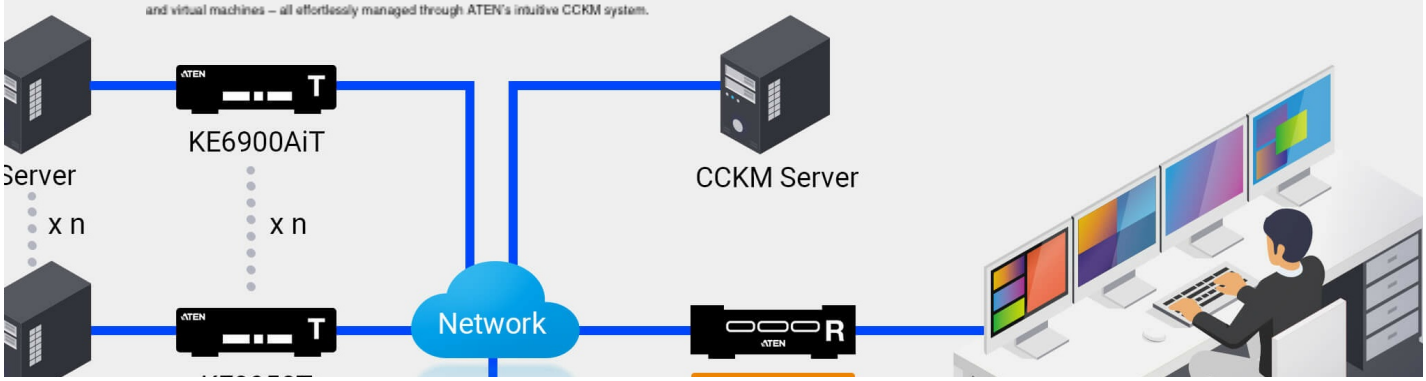
Network Redundancy

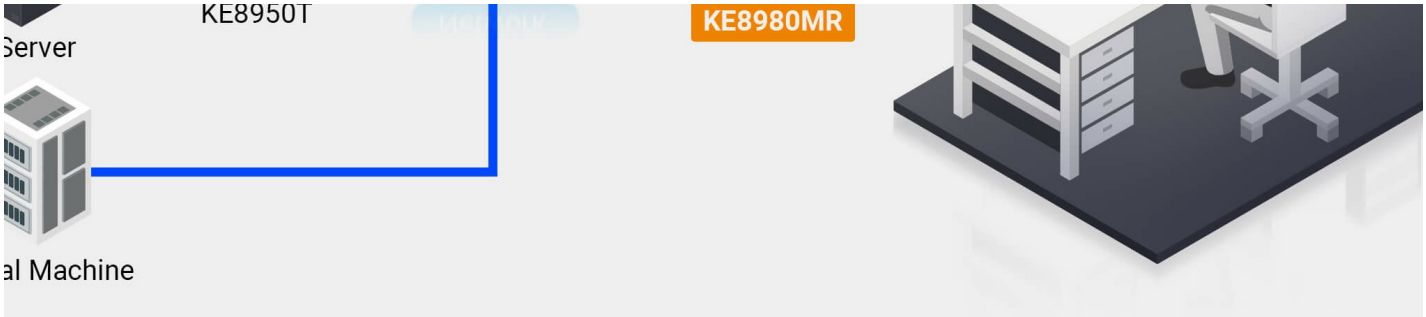
Virtual Machine Access

In addition to physical server systems, the KE8980MR enables access to and control of virtualized environments on VMware®, Microsoft®, and Citrix™ platforms via RDP (Remote Desktop Protocol) and VNC (Virtual Network Computing). Tasks such as mounting ISO images, booting and upgrading devices, and running diagnostics can all be performed remotely – just as if they were being executed locally.

Boundless Switching between Physical and Virtual Machines

Built for ultimate flexibility, the KE8980MR excels in dynamic IT infrastructures with transmitter-receiver connections in a matrix configuration, enabling highly adaptable deployments. As part of the scalable KVM over IP Matrix System, it empowers operators with real-time monitoring and boundless switching between physical servers connected via KE series KVM over IP transmitters and virtual machines – all effortlessly managed through ATEN's intuitive CCKM system.





4K Visual Clarity across Quad Displays

Experience ultra-crisp 4K visual performance across four displays (2× HDMI and 2× DisplayPort) with the KE8980MR – engineered for precision-critical monitoring and built to empower control room operations with informed, immediate decision-making.

Multiview Control with Boundless Switching MX™

Server management is straightforward, allowing up to 16 servers to be managed in separate, resizable windows that can be freely positioned or overlapped across four displays. KE8980MR is further powered by ATEN's exclusive Boundless Switching MX™. By simply moving the mouse cursor across displays or windows, operator control instantly shifts to the corresponding system – enabling intuitive, seamless switching without the need for any other manual input.

Centralized Monitoring via Panel Array™

During active monitoring, the quad-display setup can be switched to operation mode – featuring Panel Array™, which highlights a specific server video on one screen for dedicated attention while displaying others in a multiview layout of up to a 6×6 array (i.e. 108 servers) – enabling centralized server management and a streamlined monitoring experience.

Applications

Designed for control room applications in mind, the KE8980MR is particularly well-suited for fast-paced control rooms in broadcast, surveillance, air traffic control, transportation hubs, and beyond.

- Multiview Monitoring of diverse, simultaneous sources.
- Dynamic Multi-Window Control for flexible screen layouts.
- Multi-Display Expansion to maximize situational awareness.
- Unified Virtual Machine Integration for centralized management.
- Ultra-Low Latency (around 1 frame) for high-speed, mission-critical response.

Simply Better Connections

Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly

First Name *

Last Name *

- Country *

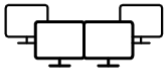
Company *

Email *

Phone Number *

- Customer Type *

Job Title *



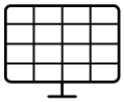
Quad Displays

Multiview Monitoring

Physical + Virtual Servers

Ultra-Low Latency

Boundless Switching MX™



Panel Array™

Network Redundancy

Features

The ATEN KE8980MR is a high-performance KVM over IP Multi-View receiver specifically engineered to empower operators in demanding, mission-critical control room environments. It supports quad-display output (2 HDMI and 2 DisplayPort), each capable of 4096 x 2160 @ 60Hz, providing an expansive and detailed operational view.

To maximize operational agility, the KE8980MR features two powerful modes tailored for mission-critical workflows. In Multi-view mode, it can display and control up to 16 video sources across up to 4 screens simultaneously, using flexible layouts, optimizing situational awareness and workflow efficiency. In Operation mode, it delivers ultra-low latency control with real-time Panel Array monitoring, instant one-click Push and Pull content sharing, and flexible source access through a Virtual Transmitter that streams video, audio, USB, and serial independently.

Seamlessly bridging physical and virtual resources, the KE8980MR offers native support for RDP and VNC protocols. This allows for direct, hardware-free access to virtual machines hosted on VMware®, Microsoft®, and Citrix. platforms, alongside flexible switching to traditional KE Transmitters. The system's ultra-low latency operation ensures real-time interaction and immediate visual feedback, which is paramount for critical decisionmaking. Furthermore, its operation mode enables the monitoring of up to 108 screens, offering extensive scalability for large-scale operations.

The KE8980MR integrates seamlessly with ATEN's KE/KX transmitter series and the KVM over IP Matrix Manager (CCKM), offering flexible deployment options including point-to-point, point-to-multipoint, and multipoint-tomultipoint configurations. It also supports operator session recording when paired with ATEN's CCVSR (Control Center Video Session Recording) system, capturing a comprehensive record of user activity.

The KE8980MR is the ideal solution for extending high-resolution KVM control from multiple sources over IP across significant distances. The KE8980MR delivers seamless connectivity and centralized management, making it an indispensable solution for mission-critical control centers, collaborative conference rooms, and large-scale digital signage networks with multi-monitor configurations.

- Advanced Features[1]
  - Provides versatile viewing and control modes: Multi-view mode and Operation mode
    For Multi-view mode:
    – Multi-view console controls up to 16 video sources on one screen with display modes
    – Workspace: Allows saving multiple configuration profiles and switching screen layouts and connection states across four displays via hotkeys
    – Connection List Panel: Includes source preview functionality and supports intuitive drag-and-drop to assign sources freely
    For Operation mode:
    – Features ultra-low latency operation, enabling simultaneous monitoring of up to 108 screens
    – "Push" and "Pull" – shares content instantly to / from a single Rx or video wall by just one click
    – Virtual transmitter – independently streams video, audio, USB, and serial sources from different Tx
  - Virtual Machine connectivity: VMware®, Microsoft®, and Citrix™ by using RDP and VNC
  - Easily switching to any Virtual Machine or KE Transmitter
  - Boundless Switching MX™ – allowing real-time switching between systems simply by moving the mouse freely across displays and windows
  - Flexible connections – allows multiple extender and matrix connections for multi-display installations
  - Advanced Scheduling – improves efficiency and saves costs by allowing media playback to be set based on time and date
  - 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 KVM over IP extenders
  - Rx access control – users at the Tx local console can enable / disable Rx access by simply pressing a control button

    Note: These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by CCKM.

- Hardware
  - Features a purpose-designed architecture that combines high performance with energy efficiency – delivering advanced functionality while minimizing power usage
  - Optimized power-performance balance – providing enterprise-grade functionality with reduced energy demands
  - The housing meets IEC 60945 standards for maritime control room use and has passed environmental tests
  - Supports Quad-Display Output – 2 HDMI and 2 DisplayPort outputs, each resolution up to 4096 x 2160 @ 60Hz
  - Network failover – 2 RJ-45 ports for network failover to ensure constant availability for mission-critical applications
  - DisplayPort 1.2 compliant
  - High speed USB Storage Transmission support
  - Auto-MDIX – automatically detects cable type
  - Built-in 8KV/15KV ESD protection and 1KV surge protection

- Management
  - Centralized management software – KVM over IP Matrix Manager (CCKM) allows users to easily administrator all KE devices with an intuitive web-based GUI
  - Supports recording of remotely-accessed computer operations using CCVSR
  - 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 users
  - RS-232 serial port – allow users to connect to a serial terminal for TextMenu, or serial devices such as touch screens and barcode scanners
  - Supports Hotkey Commands
  - Video Compression Level – allow users to increase / decrease the video quality to adjust for appropriate network bandwidth

- Security
  - Dedicated LAN port for KE direct connections – can be isolated from the corporate network
  - Supports industry standard Transport Layer Security (TLS) protocol

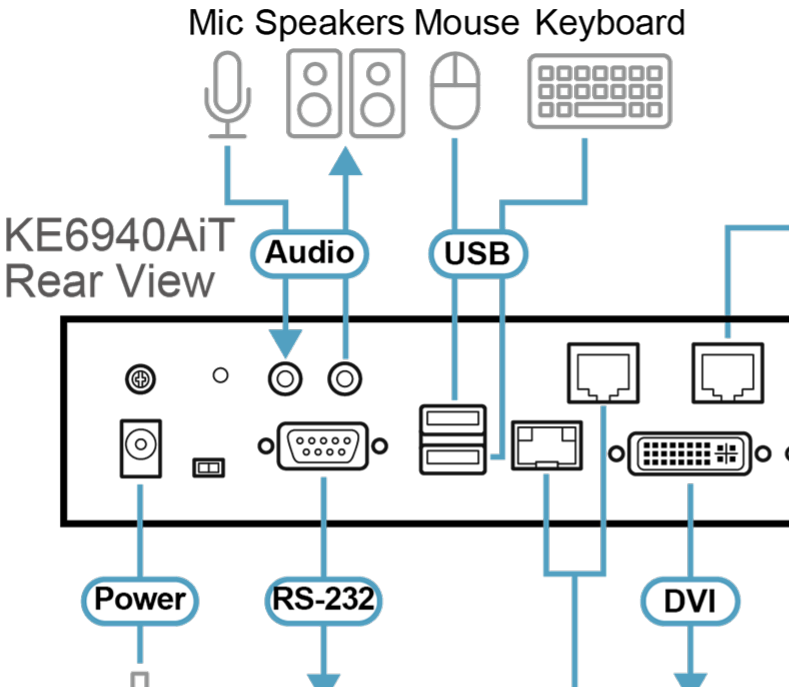
- Virtual Media
  - USB storage transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
  - Supports USB 2.0 DVD / CD drives, USB mass storage devices, PC hard drives and ISO images
  - Supports smart card / CAC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

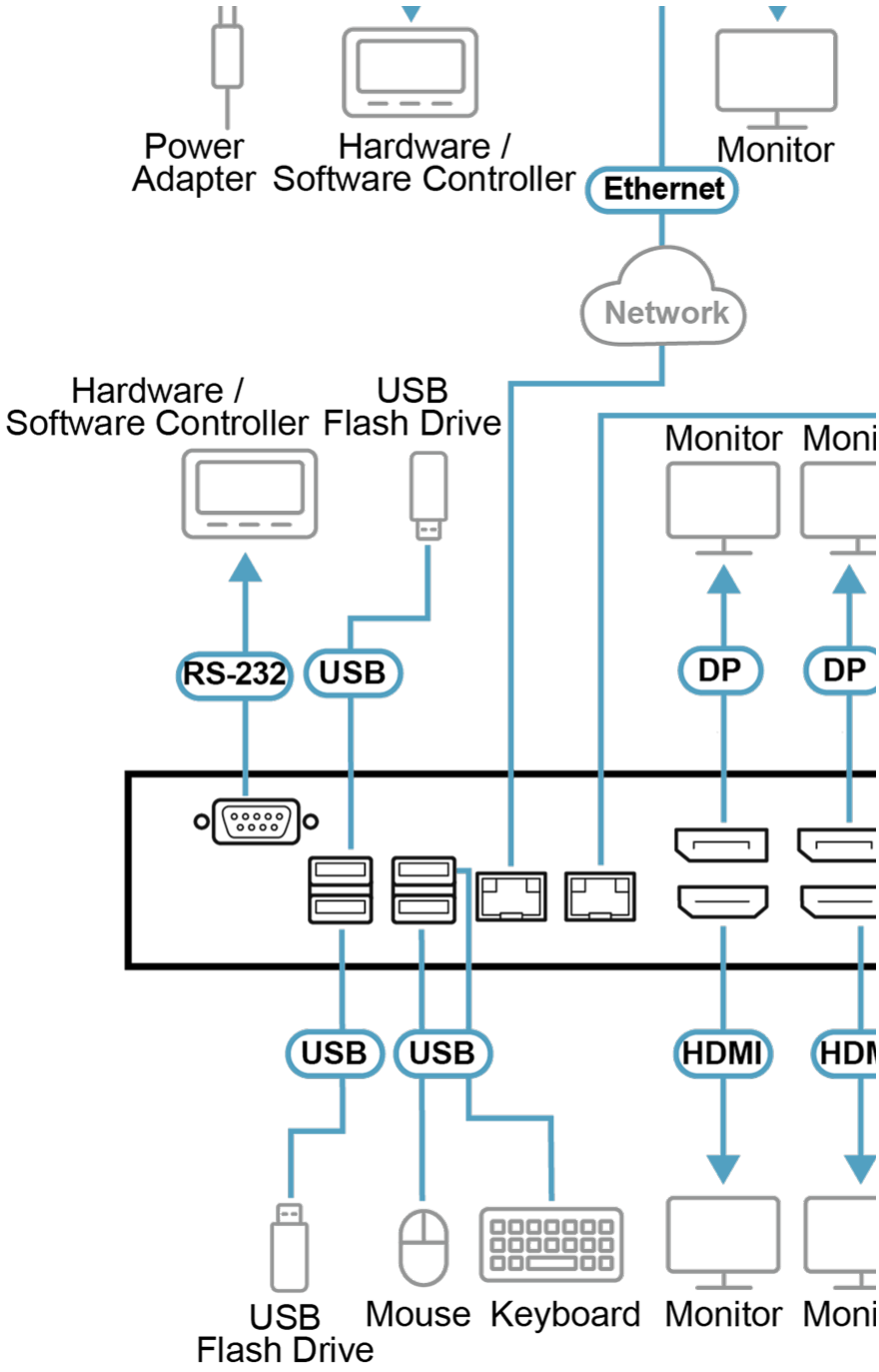
Specifications

Connectors	
USB Port	2 x USB Type A Female (Blue)
Console Ports	2 x USB Type A Female (Blue) 2 x DisplayPort Female (Black) 2 x HDMI Female (Black) 1 x Audio line out/in Jack (Black) 1 x DB-9 Male (Black)
Power	1 x Lockable DC Jack (Black)
LAN Ports	2 x RJ-45 (Blue)
Pushbuttons	
Pushbuttons	1 x Power (Black) 1 x Reset (Black)
LEDs	
Power	1 (Blue)
Storage	1 (Orange)
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC19V:33W:420BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Video Resolution	Up to 4 * 4096 x 2160 @ 60Hz
Latency	Operation mode: 16ms ~ 48ms Multiview mode: < 48ms
Environmental	
Operating Temperature	-10–50°C
Storage Temperature	-40–85°C
Humidity	10–90% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	1.34 kg (2.95 lb)
Dimensions (L x W x H)	20.00 x 19.00 x 4.18 cm (7.87 x 7.48 x 1.65 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

Diagram





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