KE6940AT

DVI-I Dual Display KVM over IP Transmitter

The KE6940A extender is consisted of a high performance IP-based transmitter (KE6940AT) that connects to the computer and a receiver (KE6940AR) that provides console access from a separate location. The KE6940A 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 KE6940A DVI-I Dual Display KVM over IP Extender supports two DVI displays at each end and provides lossless and low latency video transmissions up to 1920 x 1200 @ 60Hz.

The KE6940A support connections via an RJ-45 port or a SFP slot. 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. Connecting via the SFP slot with 1Gbps SFP fiber module* expansions on fiber optic network, you can extend transmission distances up to 10km. The KE6940A also features dual power supplies for redundancy to ensure dependable services.

As an IP-based matrix extender, the KE6940A 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.

Implementing the KE Matrix Management Software (CCKM) with KE6940A, IT administrators can benefit from advanced features such as auto detection of all KE6940A devices 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-128bits 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 KE6940A is the most cost-effective and convenient way to get a full digital extension from anywhere on the intranet.

Note:
The SFP module (2A-136G / 2A-137G) is sold separately. Contact your ATEN dealer for product information.
For the latest list of compatible network switches, please visit: ATEN Support Center for more information.

Features

- Advanced Features*
  - ATEN Matrix Link – allows you 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)
  - "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 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
  - Configurable user and group permissions for access and control of KE devices
  - 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 transmitters are paired with KE receivers and 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 power/network failover – dual DC jacks for power redundancy and 1 RJ45 & 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
  - Advance processor provides lossless and low latency video transmissions up to 1920 x 1200 @ 60Hz
  - Supports digital (DVI) or analog (VGA) video output****
  - Audio Enabled – supports stereo speakers and microphone
  - High speed USB Storage Transmission support
  - 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
  - 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
    ***The SFP module (2A-136G / 2A-137G) is sold separately. Contact your ATEN dealer for product information.
    ****To convert a DVI to VGA signal, a DVI-I to VGA converter is required.

- Management
  - Local console – flexible local or over IP console access
  - 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
  - On-screen Preview – allows users to view the video of up to 36 displays on one screen
  - Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
  - Command Line Interface – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
  - Supports Hotkey Commands
  - Flashing LED and beeping feature help locate and identify 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
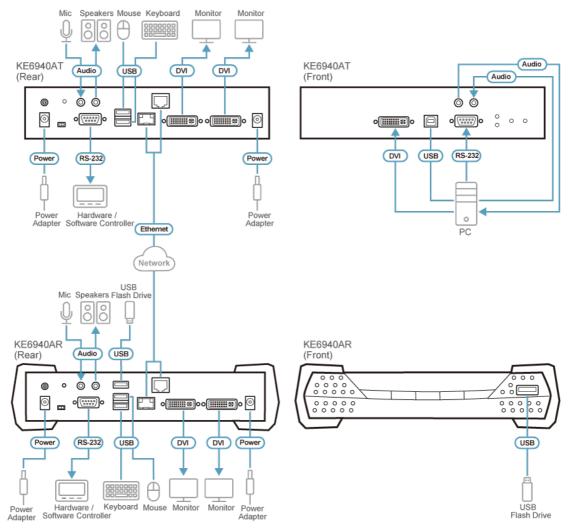 - Supports Smart Card/CAC Reader

Specification

Connectors	
USB Port	N/A
Console Ports	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	1 x USB Type B Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	2 x DC Jack (Black)
LAN Ports	1 x RJ-45 (Black) 1 x SFP Slot
Switches	
OSD	N/A
Video	N/A
Graphics	N/A
Reset	1 x Semi-recessed Pushbutton
Mode Selection	1 x Slide Switch (Auto, RS-232 Config/Access Control, Local)
LEDs	
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:12.2W:61BTU
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	1.17 kg (2.58 lb)
Dimensions (L x W x H)	21.50 x 16.33 x 4.18 cm (8.46 x 6.43 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