

X2XKVM SERIES

X2XKVM SERIES UHD IP KVM EXTENDER WITH MATRIX SWITCHING AND MULTIVIEWER



OVERVIEW

X2XKVM offers the industry's leading KVM solutions for seamless 4K60 signal extension, switching, and full support for keyboard, mouse, and transparent USB.

Each X2XKVM unit can be configured as either a transmitter or receiver, allowing any receiver to view and control any transmitter, with the option to display multiple transmitters on a single screen. The X2XKVM Manager, a Linux-based server, provides administrators with an intuitive interface to easily switch control and view from any receiver. Supporting both CAT5 and fiber, the system is fully compatible with advanced 10G Ethernet switches for seamless performance.

FEATURES

- Uses the latest SDVoE technology
- 4K 60 HDMI Over LAN w/HDR
- Includes Multiviewer KVM
- Support USB 2.0
- 4:4:4, 10GBPS & HDCP 2.2
- Server Manager to control all devices
- WEB GUI & RS232 Control
- Support cat5 up to 100m
- Fiber up to 500m
- No latency and No compression
- Seamless Switching with end-to-end transport latency under 100 microseconds (under 1/150th of a video frame)
- Fully uncompressed transmission for all HD and 4K30 signals

KEY FEATURES

- **UNCOMPRESSED 4K 60 HZ 4:4:4 VIDEO**

The X2XKVM is an SDVoE-compliant, all-in-one AV-over-IP transceiver that delivers premium, uncompressed 4K video alongside zero-frame latency audio/video extension over standard 10G copper or fiber network switches. It supports instant extension, seamless switching, and multi-view functionality, while flawlessly transmitting advanced 4K60 HDMI content with full color depth and multi-channel HD bitstream audio.

- **EFFORTLESS, VERSATILE DEPLOYMENT**

Designed for simplicity, this video extension system is easy to install on any modern network. The X2XKVM can be seamlessly deployed on 10G copper Ethernet networks, offering unmatched flexibility. Its versatile design allows a single unit to operate as either an encoder or decoder, streamlining both installation and inventory management.

- **ZERO LATENCY**

Experience real-time, glass-to-glass encoding and decoding with a minimal delay of just 0.03 milliseconds. This robust video distribution system guarantees zero lag or video delay, ensuring a smooth and responsive AV experience.

- **COMPLETE CONTROL**

X2XManager is a Linux-based, web-driven server application that simplifies the setup and maintenance of X2XKVM systems. It provides a comprehensive suite of control features and tools, enabling full management and oversight of all devices—from login access to firmware updates—all from one centralized interface.

- **COMPREHENSIVE CONNECTIVITY**

More flexible and scalable than traditional matrix switches, the X2XKVM solution is easier to design, install, manage, and use. It supports AV and IT convergence by leveraging existing 10G Ethernet switches while fully integrating the functionality of KVM switches and extenders into the system.

APPLICATION

Elevate your AV setup with the SmartAVI X2X Series, designed for versatile and scalable use cases:



CORPORATE ENVIRONMENTS

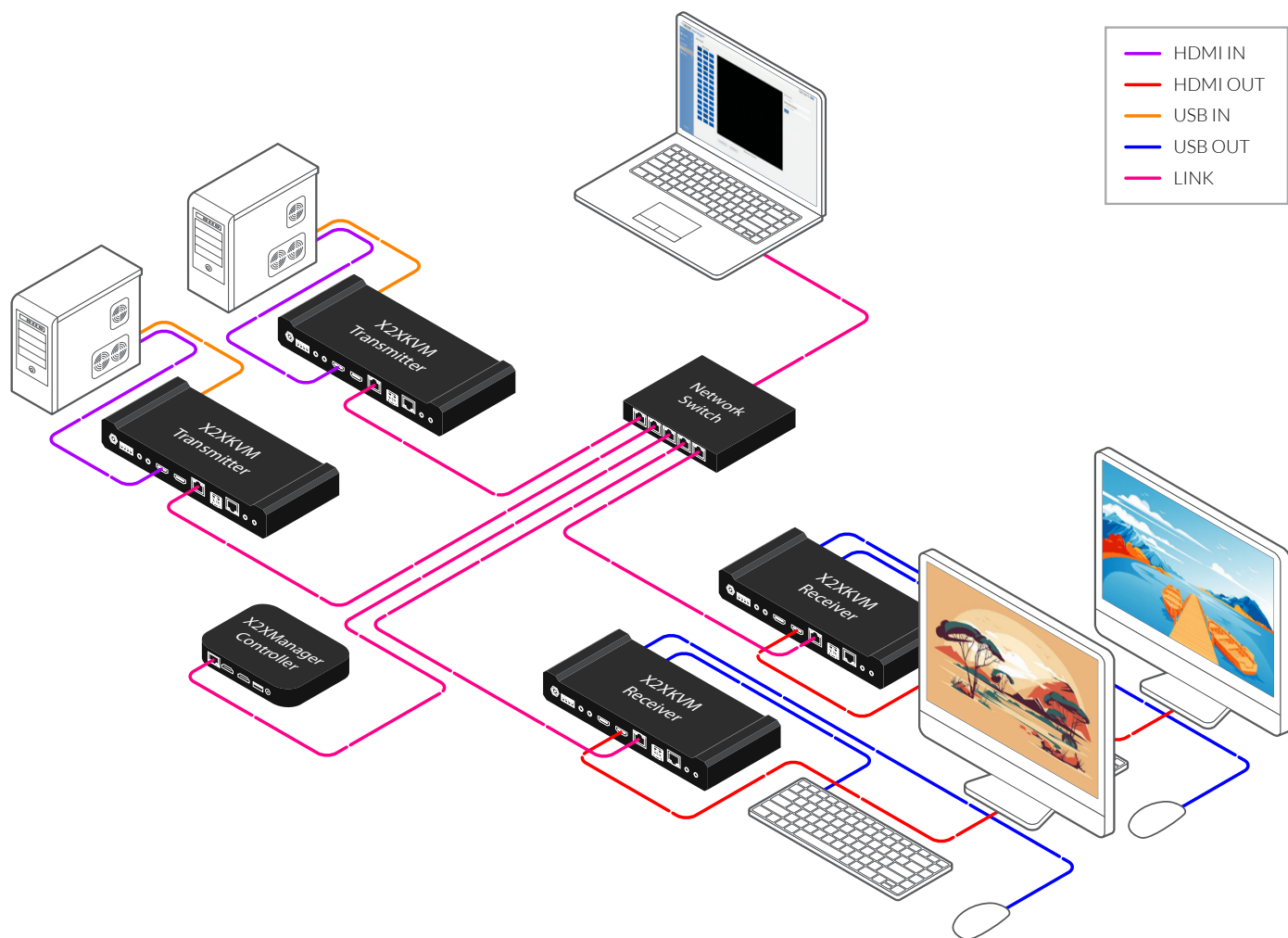


EDUCATIONAL INSTITUTIONS



CONTROL ROOMS

APPLICATION DIAGRAM



Leveraging standard 10G Ethernet infrastructure, the X2XKVM solution facilitates the development of streamlined, adaptable, and highly scalable system architectures. It ensures optimal performance and user experience while minimizing total cost of ownership.

GENERAL VIEW



X2XKVM Front Panel



X2XKVM Back Panel

TECHNICAL SPECIFICATIONS

VIDEO	
HDMI Compliance	HDMI 2.0b
Input Interface	(1) HDMI Type A, 19-pin female
Output interface	(1) HDMI Type A, 19-pin female
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Input Format	10GBaseT
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Color Depth	Full Color-Depth
HDR	HDR, HDR 10, HDR10+, Dolby Vision, HLG

AUDIO	
HDMI Format	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD, DTS:X
Analog Format	Left and Right stereo analog audio
Input Interface	(1) 3.5 mm Jack female
Output Interface	(1) 3.5 mm Jack female

USB	
Input Interface	(1) USB 2.0 Type B female
Output Interface	(1) USB 2.0 Type A female

SYSTEM	
Transmission Distance	90 m (CAT6) 100 m (CAT6A/7) 1000 ft (Fiber)
Network ports	(1) RJ45 Jack (10G BASE-T) (1) Fiber slot (10G SFP+) (1) RJ45 Jack (1G LAN)
RS-232	(1) Phoenix 4-pin

OTHER	
Power Supply	Input: AC 100 - 240V 50/60Hz, DC 12V 3A.
Dimensions	8" W x 5.3" D x .8" H
Weight	1.5 lbs
Operating Temperature	+32 to +104°F (0 to +40°C)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Humidity	Up to 80% (No Condensation)

ORDER INFO

NAME	DESCRIPTION
X2X-KHX300-S	X2XKVM UHD IP KVM Extender with Matrix Switching and Multiviewer. [X2X-KHX300, PS12VD3A]

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