

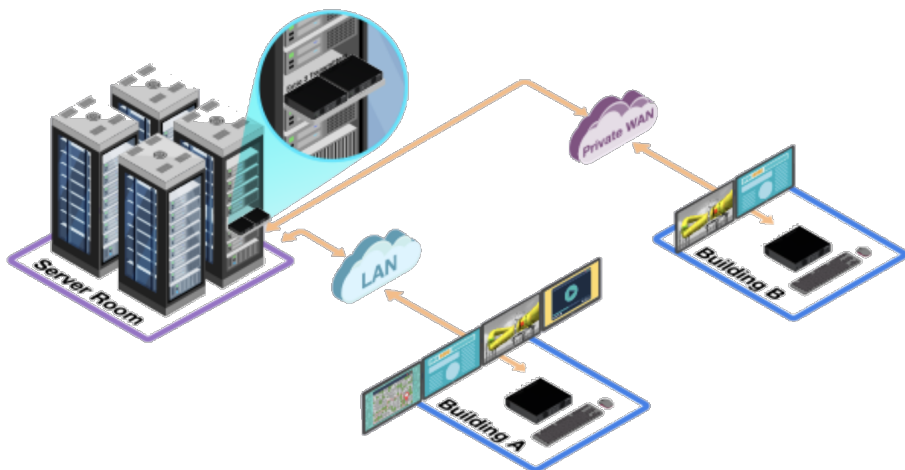


Features

- IPKVM over 1 GB Ethernet
- HDCP 2.2 compliant
- Support video resolution up to 4K60Hz (4:4:4), 18Gbps video bandwidth, as specified in HDMI 2.0b
- Audio formats support LPCM 2.0CH 48kHz
- Integrated design of encoder and decoder, supporting fiber and copper
- Support window roaming function: a unit as decoder can process up to 36 signals, enabling arbitrary windowing, roaming, overlaying, and splicing
- KVM seat management (one-to-one & one-to-many), supporting one person manages multiple PCs
- Universal H.264/265 protocol, supporting IPC access and seamless integration with security camera products
- Support high definition background image (both video and picture are available), as well as multi-screen splicing display
- Support scrolling subtitles and character overlay

Product Overview

The 4TheWall 4K@60 H.264/H.265 Transceiver is a versatile and high-performance AV over IP solution designed for professional audio-visual applications. Supporting both fiber and copper connections with automatic switching (copper has a higher priority), this transceiver delivers the highest-quality audio and video extension with ultra-low latency over standard 1G network switches. With a transmission distance of up to 328ft/100m, seamless switching, video wall capabilities, multiview, and KVM seat management functions, it is the ultimate solution for modern AV distribution and management.



- **All-In-One AV over IP Solution:**
- **Supports Fiber and Copper Connections:** The transceiver automatically switches between fiber and copper connections, with copper prioritized for streamlined connectivity and flexibility in diverse network environments.
- **Ultra-Low Latency and High-Quality Transmission:** Provides ultra-low latency audio and video transmission over a standard 1G network switch, ensuring real-time, high-quality AV performance across distances up to 328ft (100m).
- **Flexible Transceiver Design:**
- **Encoder and Decoder Modes:** The transceiver can be configured as either an encoder or decoder, simplifying installation, reducing inventory complexity, and providing maximum flexibility in deployment.
- **Encoder Mode:** Supports one HDMI 2.0 input and one HDMI loop-out with analog audio embedding/de-embedding capabilities. It also supports an H.264 video preview stream for monitoring purposes.
- **Decoder Mode:** Supports one HDMI 2.0 decoding output with analog audio de-embedding functionality, providing flexibility in output options and audio integration.

SC-IPKVM01E-TRX-F

4K IPKVM Products

Model Number:#1709241403



Secure KVM Features

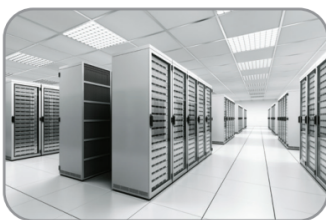
- Support point-to-point signal extension
- Support signal distribution, multicast mode, matrix and video wall functions over a 1G Network Switch
- Integrated central control function over RS-232, APP on portable devices available
- Support user rights management
- Flexible control via KVM, APP and Control Unit
- Standard POE supported (802.3af Class 3, PD mode)
- Encoder supports HDMI local loop out
- Encoder supports audio embedding and de-embedding function
- Comprehensive visual interaction mode, signal source, large screen status, scene preview and environmental visualization control
- **Advanced AV Processing and Management:**
- **Seamless Switching and Video Wall Support:** Supports seamless switching, video wall setups, multiview displays, and KVM (Keyboard, Video, Mouse) seat management, offering a comprehensive solution for AV distribution and control.
- **Distributed Interconnection and Full Network Distribution:** Enables comprehensive visualization solutions that integrate audio and video management, matrix switching, splicing and fusion, window roaming, and KVM collaborative management over the network.
- **Flexible Control Methods:** The system is based on Linux, providing robust and flexible software development capabilities, which ensures a stable and customizable control platform for various AV management applications.
- **Comprehensive AV Management Solution:**
- **Integrated Technologies:** Utilizes cutting-edge technologies in audio and video processing, networking, visualization, and centralized control to create a high-performance, reliable, and easy-to-use visualization application platform.
- **POE Power Supply Application:** Supports Power over Ethernet (POE), simplifying installation and reducing the need for additional power supplies.

Applications

- **Multimedia Conference Rooms:** Ideal for distributing high-quality audio and video across multiple displays, supporting seamless switching and multiview setups.
- **Control Rooms and Command Centers:** Suitable for environments that require centralized management of AV systems, video walls, and KVM collaborative management.
- **Broadcasting Studios and Exhibition Centers:** Perfect for creating dynamic, interactive displays and managing complex AV workflows with minimal latency and high-quality performance.
- **Educational and Training Facilities:** Enhances learning environments by enabling flexible control, high-definition video distribution, and interactive display setups.

The **4TheWall 4K@60 H.264/H.265 Transceiver** is a comprehensive AV over IP solution that provides a powerful, flexible, and scalable platform for professional AV installations. Its advanced features, flexible design, and high-performance capabilities make it the ideal choice for integrators and professionals looking to build reliable and efficient AV networks.

Server room



Control room



Video wall function

High-performance splicing processing capability, perfect splicing in both horizontal and vertical directions. Video signal processing, Adopt top-notch image processing chips for acquisition, encoding, transmission, decoding and frame synchronization. Ensure that each video signal has no frame loss or lag, and can withstand the test of fast moving video. Support high definition background image.

Free output display A single screen can process up to 36 signals, enabling arbitrary windowing, roaming, overlaying and splicing.

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Technical Specifications

Input and Output	
Video Inputs	1 x HDMI 2.0b Port
Video Outputs	1 x HDMI 2.0b Port 2 x Stereo Audio (3pin Phoenix)
Video Resolution	Up to 4K@60Hz 4:4:4
Audio Inputs	2 x Stereo Audio (3pin Phoenix)
Audio Outputs	2 x Stereo Audio (3pin Phoenix)
USB Ports	1 x USB HOST (Type B) 2 x USB DEVICE (Type A)
General Features	
Video Bandwidth	18Gbps
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
USB Support	High Speed USB
Signal Redundancy	Yes
IP Streaming Scheme	Unicast, Multicast
Network Ports	1 x Gigabit (RJ45) POE Support 1 x Fiber Optic Port (SFP not included)
Maximum Distance	Cat5e, Cat6—100 m (328 ft), OM2, OM3, OM4 (50/125µm) multi-mode - 550 m (1804 ft.) OM1 (62.5/125µm) multi-mode - 275 m (902 ft.) OS1, OS2 (9/125µm) single-mode - 10 km (6.20 mi)
Management Features	
Management and Control	Network TCP/IP, RS232 (3pin Phoenix) with API
Others	
Power Connection	DC 12V/2.5A (US/EU standard) (Locking connector), External PSU
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	20 - 90% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	204mm × 131.5mm × 30mm (W/D/H) Metal Enclosure
Weight	760g
Power Value/Consumption	10.22W (Encoder Mode), 7.04W (Decoder Mode)
Mounting	Desktop - 1/2 1U Rack Mount
ESD Protection	±8kV (Air-Gap Discharge) & ±4kV (Contact Discharge)
Software	Designer Central Management Software and CU device
Certifications	
EU/USA	CE/FCC
Package Details	
Package Contents	1 x H.264/H.265 4K60 AV over IP Transceiver 2 x 6pin-3.81mm Phoenix Connector (male) 1 x 3pin-3.81mm Phoenix Connector (male) 1 x 12V 2.5A Locking Power Supply 2 x Mounting Ear 4 x Machine Screw (M3*4) 1 x User Manual