

NEXIS

H.264/H.265 4K60 AV over IP Transceiver with KVM and RS-232 HK200



1. Introduction

This 4K@60 H.264/H.265 transceiver is an All-In-One AV over IP solution that supports fiber and copper, and supports automatic switching between two options, the copper has a higher priority. This product provides highest-quality and ultra-low latency audio/video extension over a standard 1G Network Switch, and the transmission distance is up to 328ft/100m. It supports seamless switching, video wall, multiview and KVM seat management functions. Flexible transceiver design (one box can be set to encoder or decoder) is much convenient in a real installation site and inventory control.

In encoder mode, it supports one HDMI 2.0 input and one HDMI loop out, with analog audio embedding/de-embedding function. In decoder mode, it supports one HDMI 2.0 decoding output, with analog audio de-embedding function. The encoder supports H.264 video preview stream.

The system is based on Linux for software development, providing flexible control methods. The best digital audio and video processing management solution is created using technologies such as audio and video processing, networking, visualization and centralized control, and full network distribution. It is committed to quickly establish a high-performance, reliable and easy-to-use visualization application platform for users. Based on distributed interconnection, a comprehensive visualization solution is built that integrates audio and video comprehensive management, matrix switching, splicing and fusion, window roaming, KVM collaborative management, POE power supply application.

2. Features

- ☆ 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 16 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
- ☆ Support point-to-point signal extension
- ☆ Support signal distribution, multicast mode, matrix and video wall functions over a 1G Network Switch
- ☆ Support user rights management
- ☆ Flexible control via KVM, APP and Control Server (CTL500H or SVR9300AX2/AX3/AX5)
- ☆ Standard POE supported (802.3af Class 3, PD mode)
- ☆ Encoder supports HDMI local loop out
- ☆ Encoder supports audio embedding and de-embedding function

3. Package Contents

- ① 1 x H.264/H.265 4K60 AV over IP Transceiver
- ② 2 x 6pin-3.81mm Phoenix Connector (male)
- ③ 1 x 3pin-3.81mm Phoenix Connector (male)
- ④ 1 x 12V 2.5A Locking Power Supply
- ⑤ 2 x Mounting Ear
- ⑥ 4 x Machine Screw (M3*4)
- ⑦ 1 x User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Compression Standard	H.264/H.265
Video Bandwidth	18Gbps
Network Port	1000M Base-T (supporting POE)
Video Resolution	Up to 4K@60Hz 4:4:4 (Note: The decoder supports custom resolution output.)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8/10/12bit
Encoding Sampling Rate	48KHz
HDMI Audio Formats	LPCM 2.0CH, 16bit, 48k
Analog Audio Formats	Left and right stereo analog audio
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1 x HDMI IN [Type A, 19-pin female] 2 x AUDIO IN [3-pin phoenix connector, stereo balanced linear interface]
Output	1 x HDMI OUT [Type A, 19-pin female] 2 x AUDIO OUT [3-pin phoenix connector, stereo balanced linear interface]
Control	1 x LAN (POE) [RJ45, supporting POE] 1 x RS-232 [3-pin phoenix connector] 1 x USB HOST [Type B, 4-pin female] 2 x USB DEVICE [Type A, 4-pin female] 1 x SFP [Fiber slot]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	204mm [W] × 131.5mm [D] × 30mm [H]
Weight	760g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Encoder: 10.22W; Decoder: 7.04W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

5. Application Example

