



4K60 4:4:4 AV over IP H.265 Transceiver

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. matrix switching, splicing and fusion, window roaming, KVM collaborative management, POE power supply application.

Featured Highlights

- HDMI 2.0b, HDCP 2.2 compliant
- Support video resolution up to 4K60Hz (4:4:4), 18Gbps video bandwidth
- 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
- Integrated central control function over RS-232, APP on portable devices available
- Support user rights management
- Flexible control via KVM, APP and Control Server
- 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

TECHNICAL

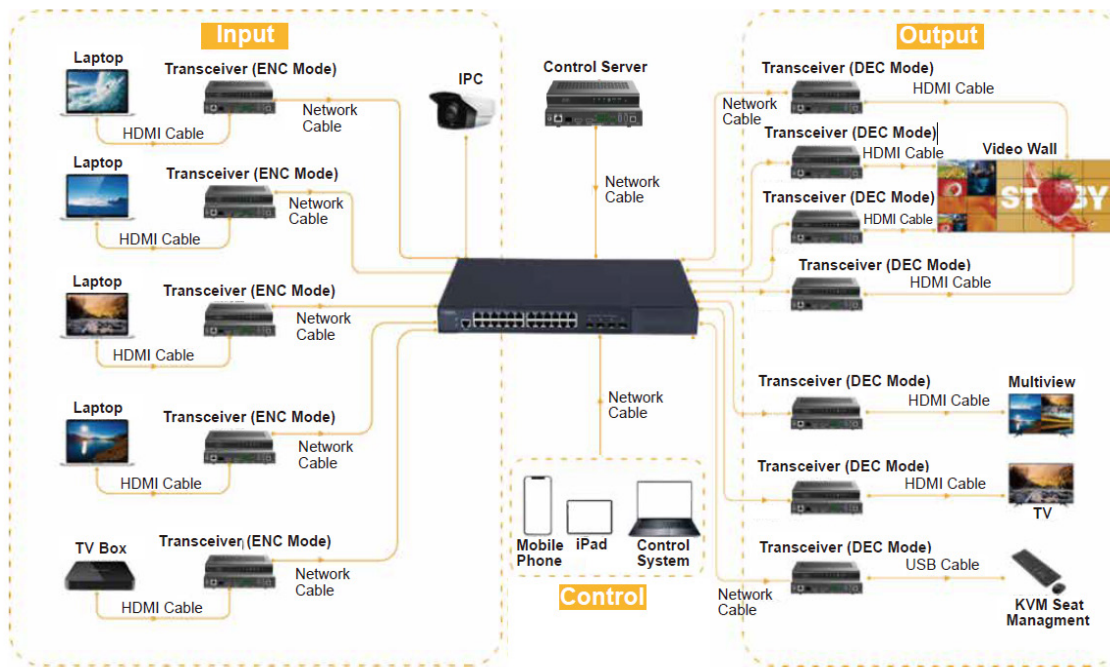
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Compression Standard	H.264/H.265
Video Bandwidth	18Gbps
Network Port	1000M Base-T (supporting POE)
Video Resolution	1024x768~3840x2160@60Hz (Note: The decoder supports custom resolution output.)
Color Space	RGB 4:4:4, YCbCr 4:4:4:2:2:0
Color Depth	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	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

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)

CONNECTION

Input	1 x HDMI IN [Type A, 19-pin female] 2 x AUDIO IN [3-pin phoenix connector, stereo balanced linear]
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]

Classic Application Example

Applications

Digital Signage, Conference Rooms, Operating Rooms and Audio-Video Rooms