

AVIP-H265-1G-T

Transceiver H265 4K60 4:4:4
AV over IP

FEATURE:

- 4K60 4:4:4 over IP H.265 Transceiver
- Encoder/Decoder one box design with Copper and Fiber full version
- HDMI 2.0b, HDCP 2.2 compliant, up to 4K60Hz (4:4:4) 18Gbps
- HDR10, Dolby Vision, HLG pass-through
- Support ultra-low latency operating modes
- Seamless switching, video wall up to 9x9, multiviewer up to 25 windows
- Support USB KVM and RS-232
- Audio embedding and de-embedding
- Encoder or Decoder mode can be set by front panel button or API
- Encoder supports HDMI Loop out
- Built-in H.264 stream for video preview on portable devices
- Control via front panel buttons, RS-232 and TCP/IP
- Standard POE supported (802.3at PD device)
- 1G managed network switch
- Work with IP Controller box AVIP-H265-1G-CTL



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This product is an IP-based distributed digital video processing system, designed as a comprehensive solution for digital audio and video management. Utilizing advanced technologies such as audio/video processing, networking, visualization, centralized control, and full network distribution, it ensures ultra-low latency and high-quality audio/video transmission over a standard 1G Copper or Fiber Network Switch. The system supports seamless switching, video wall capabilities, and MultiView functions. Its flexible transceiver design allows each unit to function as either an encoder or decoder, enhancing ease of installation and inventory management.

This solution is dedicated to providing users with a high-performance, reliable, and intuitive visualization platform. By leveraging distributed interconnection, it integrates audio/video management, matrix switching, splicing and blending, window roaming, KVM collaboration, POE power supply, and big data applications to create a comprehensive visualization information solution.



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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)
Network Video Bandwidth	1G
Video Resolution	1024x768-3840x2160@60Hz (Note: The decoder supports custom resolution output.)
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8/10/12 bit
Encoding Sampling Rate	48KHz
HDMI Audio Formats	LPCM
Analog Audio Formats	Left and Right stereo analog audio
ESD Protection	Human body model: ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connections

Input	1x HDMI IN [Type A, 19-pin female]
	2x AUDIO IN [3-pin phoenix connector, stereo balanced linear interface]
Output	1x HDMI OUT [Type A, 19-pin female]
	2x AUDIO OUT [3-pin phoenix connector, stereo balanced linear interface]
Control	1x LAN (POE) [RJ45, supporting POE]
	1x RS-232 [3-pin phoenix connector]
	1x USB HOST [Type B, 4-pin female]
	2x USB DEVICE [Type A, 4-pin female]
	1x 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	< 10.5W
Operation Temperature	32°F - 104°F / 0°C - 40°C
Storage temperature	-4°F - 140°F / -20°C - 60°C
Relative Humidity	20 - 90% RH (no condensation)