AVIP-J1G-EN /DE

**4K60 4:4:4 AV over IP JPEG2K
Encoder/Decoder**

FEATURE:

- HDMI 2.0b, HDCP 2.2 compliant
- Support 18Gbps video bandwidth
- Input and output video resolution is up to 4K60 4:4:4
- Signal transmission distance can be extended up to 328ft / 100m via CAT5E/6/6A/7 cable
- Transmit video, analog/digital audio, IR, RS-232, CEC and USB over Ethernet
- Integrate Copper port and Fiber port within a single
- ARC/eARC/SPDIF/Analog audio return function
- Channel configuration via front panel buttons and LED screen
- Built-in two channel RELAY ports and two channel I/O ports for contact control
- Support unicast and multicast functions
- Support point-to-point, video matrix and video wall functions (video wall supports up to 9x9)
- Intelligent video wall class management
- Support MJPEG Sub-stream real-time preview
- 1G Ethernet Switch
- Support POE function
- Built-in web page configuration and control, Telnet and SSH as well
- HDMI audio formats: LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master
- Smart networking design for easy and flexible installation

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This product leverages JPEG2000 technology, integrating both copper and fiber ports within a single unit. The encoder input supports resolutions up to 4K60 4:4:4, with options for audio embedding or extraction, while the decoder output supports up to 4K60 4:4:4 with audio extraction. It features ARC/eARC/SPDIF/analog audio return, along with support for USB 2.0, KVM, camera integration, 1G Ethernet, bidirectional RS-232, two-way IR, and POE functionality. Guest mode controls for RS-232, IR, and CEC are available. The product includes two built-in relay channels and two I/O ports for contact control, as well as an MJPEG sub-stream that supports numerous API commands, enabling flexible configurations for third-party control apps to preview video content. The system, built on Linux for software development, offers flexible control methods through intelligent networking via a 1G Ethernet switch.

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SPECIFICATIONS:

Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Compression Standard	JPEG2000
Video Bandwidth	18Gbps
Network Video Bandwidth	1G
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	Input: 8/10/12-bit Output: 8-bit
HDMI Audio Formats	LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master
Analog Audio Formats	Left and Right stereo analog audio
Transmission Distance	100M CAT5E/6/6A/7
IR Level	Default 12V, optional 5V
IR Frequency	Wideband 20K - 60KHZ
ESD Protection	Human body model: ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connections Encoder

Input	1x HDMI IN [Type A, 19-pin female]
	1 x L/R AUDIO IN [3-pin 3.81mm Phoenix connector]
Output	1x HDMI OUT [Type A,19-pin female]
	1 x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector]
	1 x SPDIF OUT [Optical audio connector]
Control	1 x RS-232 [3-pin 3.81mm Phoenix connector]
	Human body model: ±8kV (C48:E50air-gap discharge) & ±4kV (contact discharge)
	1 x FIBER [Optical fiber slot]
	1 x USB 2.0 HOST [Type B, 4-pin female]
	2 x USB 2.0 DEVICE [Type-A, 4pin female]
	2 x RELAYS [3.81mm Phoenix connector]
	2 x DIGITAL IO [3.81mm Phoenix connector]
	1 x IR IN [3.5mm Audio Jack]
	1 x IR OUT [3.5mm Audio Jack]

Connections Decoder

Input	1 x SPDIF IN [Optical audio connector]
	1 x L/R AUDIO IN [3-pin 3.81mm Phoenix connector
Output	1 x HDMI OUT [Type A, 19-pin female]
	1 x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector]
Control	1 x RS-232 [3-pin 3.81mm Phoenix connector]
	1 x LAN (POE) [RJ45 jack]
	1 x FIBER [Optical fiber slot]
	2 x USB 1.1 DEVICE [Type-A, 4-pin female]
	2 x USB 2.0 DEVICE [Type-A, 4pin female]
	2 x RELAYS [3.81mm Phoenix connector]
	2 x DIGITAL IO [3.81mm Phoenix connector]
	1 x IR IN [3.5mm Audio Jack]
	1 x IR OUT [3.5mm Audio Jack]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions	204mm (W) × 136mm (D) × 25.5mm (H)
Weight	Encoder: 631g, Decoder: 626g
Power Supply	Input: AC 100 - 240V 50/60Hz
	Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Encoder: 8.52W, Decoder: 7.08W (Max.)
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)

Resolution /Cable Length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M

The use of "Premium High Speed HDMI" cable is highly recommended.

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