# AVIP-A4601E-B1C

4K60 HDMI over IP Transmitter



- Supports independent breakaway A/V and control matrix routing
- Supports extension of many audio formats including 8 channel LPCM and standard Bitstream
- The analog Line In is automatically embedded in the streaming output and can be independently routed to any receiver
- Optional Dante Ready™ is compatible with existing Dante and AES67 audio networks
- Dante Ready brings Dante functionality to products already shipping and installed in sites
- Channels and features can be added as an installation grows

This unit supports both Unicast and Multicast modes, enabling video wall and seamless collaboration across multiple windows in Multicast mode. It supports the transmission of Ultra High-Definition signals (up to 4K@60Hz RGB) with audio and USB 2.0 up to 100m on a single cable which allows connection of USB flash drives, keyboard, and mouse. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches, allowing the user to cascade the system without signal loss or introducing delay. Moreover, it supports IP to IR and IP to RS-232, converting the IP signal into IR and RS-232 commands for device control.

When the extension system's units are in multicast mode, a single transmitter's AV signal can be sent to a large number of receivers within the same local network without the additional receivers causing the bandwidth requirements to increase. Additionally, that same multicast signal can be used to create large multi-display video walls with amazing simplicity. When combined with the optional IP Master Controller the functionality of the system expands exponentially. Its centralized web-based interface greatly simplifies control and management of large distributed video matrix or video wall systems adding to their flexibility in large home or commercial installations.

This system also features bi-directional IR and RS-232 pass-through, analog line level in/out, and a microphone input (on the receiver), providing the user with a variety of audio options. The USB functionality allows the system to act like a remote USB hub which, when combined with the HDMI input/output feature, provides a comprehensive USB over IP functionality platform. Configuration information is provided via On Screen Display (OSD) and control is by WebGUI, IP Master Controller, and Telnet.

The unit is with Dante Ready which can transmit digital audio channels upon activation and is compatible with any standard Dante audio transmitters/receivers that the audio might be routed to. Dante Ready provides a flexible way to enable and expand the connectivity and interoperability of the world's de-facto AV-over-IP solution, even after the initial purchase. Upgrade your system with Dante and connect to over 4,000 products from 500 manufacturers. Dante Ready is built within the widely used Dante Controller application for Dante audio and video subscription management. Transactions are simple and secure, and device upgrades are seamlessly actioned without the need to enter complex license keys of copy license files.

## PANELS



Front View



Rear View

## FEATURES

- 4K@60 1Gbps AV over IP transmitter in Unicast or Multicast mode.
- IP interface: RJ45
- Supports comprehensive USB over IP functionality (USB flash drive, keyboard and mouse) and seamless collaboration across multiple windows
- Supports PoE-PD (IEEE 802.3af).
- Support IP to IR/ RS-232, converting the IP signal into IR and RS-232 commands for device control.
- Controlled via WebGUI, IP Master Controller, and Telnet
- 1×HDMI input, 1×HDMI loopback output
- Supports the use of an external control center (IP Master Controller) to provide expanded functionality (Contact your authorized dealer for more information)

## SPECIFICATIONS

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Interfaces

| | |
|---|---|
| **Input Port** | 1×HDMI (Type-A)<br>1×Stereo Audio (3.5mm) |
| **Output Port** | 1×HDMI (Type-A)<br>1×Stereo Audio (3.5mm) |
| **Output/Control Port** | 1×GbE LAN (RJ-45) |
| **Pass-through Port** | 1×IR Extender (3.5mm)<br>1×IR Blaster (3.5mm)<br>1×RS-232 (3-pin Terminal Block)<br>1×USB 2.0 (Type-C) |

Video

| | | |
|---|---|---|
| **HDMI Compliance** | HDMI 2.0 (DVI 1.0) | |
| **HDCP Compliance** | HDCP2.2 | |
| **Input Signal Type** | 4096x2160p@60 8bit RGB | |
| **Output Signal Type** | 4096x2160p@60 8bit RGB | |
| | | **Resolutions** |
| **Maximum Input** | HDMI | 4096x2160p@60 |
| **Maximum Output** | LAN(Streaming) | 4096x2160p@60 |

Audio

| | | |
|---|---|---|
| **Digital Format** | HDMI | LPCM (8Channels), Bitstream, High Bit Rate Bitstream |
| | Line In/Out | LPCM (2 Channels) |
| **Line Level** | Line In | 2 Vrms, S/N Ratio:<br>> 80dB (1kHz with 0dBFS) |
| | Line Out | 2 Vrms, S/N Ratio:<br>> 80dB (1kHz with 0dBFS) |

Power

| | |
|---|---|
| **Power Supply** | PoE (802.3af) or 12V/1.25 A |
| **Power Consumption** | 7.19W |

Enclosure

| | |
|---|---|
| **Chassis Material** | Metal (Steel) |
| **Chassis Color** | Black |
| **Dimensions (W×H×D)** | 231.5mm×25mm×108mm [Case Only]<br>231.5mm×25mm×120mm [All Inclusive] |
| **Weight** | 660g |

Field Firmware Update

WebGUI

## ORDERING INFORMATION

| Model No. | Product Description |
|---|---|
| **AVIP-A4601E-B1C** | 4K60 HDMI over IP Transmitter |
| **AVIP-A4601D-B1C** | 4K60 HDMI over IP Receiver with USB 2.0 |
| **CDPS-CS11** | 4K60 over 1G IP Master Control |

## DIAGRAM