



1G AV-over-IP Transmitter for 4K60 signals with Dante audio support

Lightware's new 1Gb AV-over-IP extension family GEMINI GVN where scalability, flexibility and rapid deployment are in focus. It boasts enhanced features like. Gemini GVN is a virtual matrix system, designed for seamless switching of audio, video, and USB transmission, featuring a delay of less than 1 frame.



Details

Lightware's revolutionary GEMINI GVN 1Gb AV-over-IP extender family, where scalability, flexibility, and rapid deployment take center stage. Designed to meet the demands of modern audiovisual environments, the GEMINI GVN is a virtual matrix system that seamlessly switches audio, video, and USB transmission with unparalleled ease.

At the heart of the GEMINI GVN system is the Matrix Management Unit (MMU) device, providing full functionality from a centralized control point, eliminating the need for individual endpoint configurations. With seamless switching capabilities, users can effortlessly manage their audiovisual setup for optimal performance.

Equipped with Lightware's Advanced EDID Management system, the GEMINI GVN ensures that the decoders are capable of scaling HDMI 2.0 video signals up to a maximum resolution of 4K UHD @ 60 Hz either on CAT (up to 100 meters) or on fiber optics (up to 10 kms) with HDR, HDR+, and Dolby Vision support.

Supporting RS-232 control channel, the GEMINI GVN offers enhanced control options for a seamless user experience. The built-in USB ports support KVM functionality and can handle USB 2.0 touch screen, webcam, mass storage, further enhancing connectivity and versatility.

Compliant with HDCP standards, the GEMINI GVN guarantees secure content transmission. With support for the DHCP network management protocol, configuration and management become effortless, simplifying system integration.

The Dante variants can connect the audio layer to the Dante network in the Gemini ecosystem and send/receive streams back and forth. On the transmitter side, the stereo LPCM audio embedded in HDMI or received via the analog input can be sent to the Dante network, or the audio received from the Dante network can be output via the analog output. On the receiver side, receive a Dante audio stream and embed it in the HDMI output or output an analog output. The receiver can transmit audio from the analog input to the Dante network.

The TX device utilizes PoE (IEEE 802.3af) remote power supply, while the RX requires PoE+, providing efficient power delivery for seamless operation. As part of our commitment to sustainability, no power supply is included, but available separately if needed, aligning with our green policy.

Operating on a 1G Ethernet network, the GEMINI GVN boasts low power consumption (~10W), reducing energy costs and environmental impact. Additionally, our commitment to sustainability extends to our packaging, which is made from paper-based materials, further minimizing our ecological footprint.