Dante AV Ultra: Professional quality video delivered with the simplicity of Dante

Dante AV Ultra is an FPGA based solution that enables manufacturers to add networked video and audio to the industry-leading Dante platform. Delivering high quality visually lossless video that's tightly synchronized and at subframe latencies, Dante AV Ultra is perfect for the most demanding applications. It provides the ease-of-use, seamless multi-vendor interoperability, and integrated control experience that customers have come to expect from Dante.

Audio and Video, Together at Last

Dante AV Ultra is part of the Dante AV family of AV-over-IP solutions for OEMs. All Dante products share a common control plane and management platform – including all audio devices. Dante AV Ultra is also compatible with Dante Studio, a suite of software tools for PC, that allows you to monitor or bring video directly into UC, recording, production, or streaming applications without the need for additional hardware. The familiar and reliable Dante Controller handles all device routing, naming and configuration, while Dante Domain Manager provides IT-level management over device organization, user access, multiple subnet coordination and complete audit logs for every endpoint and user.

Dante is by far the most widely used platform for AV-over-IP solutions today. Products made with Dante are instantly compatible, easy to use, and deliver unrivaled value and performance.

Unprecedented Flexibly for Audio and Video

Unlike many video technologies that make it difficult to separate video and audio signals, Dante AV provides completely independent video and audio flows that can be independently routed wherever needed, allowing products to be used in a much wider array of applications and settings. Send audio to any of the thousands of Dante products available without the need for breakouts or matrix switches, reducing costs and complexity. With Dante AV Ultra video and audio are delivered with Dante's sub-microsecond synchronization making time-alignment problems a thing of the past. A single network clock keeps the entire system in sync regardless of the number of endpoints, transporting audio and video with extremely low deterministic latency.

Dante
by Audinate

Features and Benefits:

- Turn-key FPGA solution for AV over IP, from codec to network with a complete set of tools and software plus engineering support.
- Visually perfect codec for up to 4K 60fps 4:4:4 resolutions.
- Subframe latency optimal for live interactive and real-time applications.
- Precision and aligned timing of video and audio across networks - solving problems of audio-video synchronization.
- Support for HDCP 1.x/2.x

- USB HID, serial, and IR over IP for easy control of remote devices.
- Works with already installed, cost-effective 1Gbps network gear - no need to replace network infrastructure.
- Easily route audio and video content to different endpoints reducing the need for demuxing hardware.
- Interoperability between devices from different vendors using Dante AV Ultra.
- Unified control and management of audio and video for end users with familiar tools - Dante Controller and Dante Domain Manager.

Applications:

Live Venues:
- Stadiums
- Theaters
- Concerts

Broadcast:
- Tier 1 broadcasters
- House of worship
- University sports
- Esports

Workplaces:
- Meeting rooms
- Control rooms
- Lobbies
- Cafeterias
- Trading floors
- General office spaces

Education:
- Lecture halls
- Classrooms
- Seminar rooms
- Campus-wide AV distribution

Specifications

	Dante AV Ultra
Codec	JPEG2000
Resolution Support	Up to 4K60 4:4:4 over HDMI
Latency	~8 ms
HDCP Support	HDCP 2.x (with external IC)
Dante Audio	8x0 or 0x8 hardware Dante audio channels
Ancillary Channels	USB HID, Serial, IR
Network	Standard 1 Gbps Ethernet

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