Dante AV-over-IP

What is Dante?

Dante is an AV-over-IP platform that replaces bulky, bespoke point-to-point AV cables and connectors with pure, standards-based IP networking over CAT5/6 or fiber. Gone are problems with poor quality audio, short USB cables and noisy analog connections that plague conference and meeting rooms. Dante puts AV on your network where it belongs for easy management and flawless performance, allowing you to make changes and keep up with system status right from your PC or Mac computer.

Readily available for every application

With over 430 manufacturers and 1700 Dante-enabled products available, it's easy to find the right equipment for your projects. From beamforming microphones to DSPs to powered speakers and multichannel amplifiers, there are Dante-enabled products to fit any need from brands you trust. And they all work together, guaranteed.

Dante isn't just about devices. Because Dante is true AV-over-IP, any computer can be used as a source or destination with applications such as Dante Virtual Soundcard and Dante Via, making integration with conferencing software easier than ever.

AV-over-IP that's as easy as USB

Dante isn't just a protocol - it's a complete suite of applications, features and hardware that make Dante easy to use and consistent from product to product, no matter the vendor. Dante features include automatic discovery of devices, automatic configuration of clocking, and one-click connections using free Dante Controller software. All devices use human-readable (and editable) names and channel subscriptions are stored on each device for instant reconnection upon restart. Performance is unmatched, with pure lossless audio, high channel counts and deterministic latency as low as 125 microseconds. Assembling a Dante system is as easy as connecting USB audio, but with the power and reach of your network.

Dante is used in nearly every type of application, including:

- ▸ Corporate boardrooms
- ▸ Conference rooms
- ▸ Event spaces
- ▸ Real-time translation services
- ▸ Background music systems
- ▸ Houses of worship
- ▸ Campus-wide paging systems
- ▸ Airports
- ▸ Train stations
- ▸ Classrooms
- ▸ Hospitality and casinos
- ▸ Multi-zone stadium audio
- ▸ Broadcast studios and trucks
- ▸ Recording studios
- ▸ Concert tours

Dante Domain Manager

- ▸ Create managed domains of Dante devices
- ▸ Assign user privileges for each domain
- ▸ Route signals across subnets
- ▸ Complete suite of alerts, notifications
- ▸ Encryption of control traffic

Dante AV-over-IP

Real media networking from real network engineers

Dante's wide adoption is driven by Audinate's dedicated engineering team of network experts who see IP as a means to standardizing connectivity between all types of devices, allowing people to easily do more with media. We work with our partners to ensure that Dante is a solid network citizen, thoroughly tested and built entirely on well-implemented standards while meeting the needs of the most demanding AV users. Dante takes the complexity out of point-to-point AV systems and delivers coherent, consistent performance that works like networking should.

AV that works like IT

Dante is designed by networking specialists to be efficient and sensible, with highly predictable behaviors and performance that allow data and AV traffic to easily coexist.

▸ Audio bandwidth usage approximately 6 Mbps per 4-channel flow (48 kHz sample rate, 32-bit sample depth)

▸ Dante devices use DHCP by default, most support static IP

▸ Multicast used for discovery (mDNS, DNS-SD) and clocking (IEEE1588)

▸ Media transport defaults to UDP unicast, multicast optional for one-to-many connections

▸ IGMPv3/v2 support

▸ Signals controlled with Dante Controller software or Dante API

▸ Fully routable transport with Dante Domain Manager

▸ Complete user access control with Dante Domain Manager

A complete listing of addresses and ports used by Dante services is readily available.

WORLD WIDE OFFICES

Audinate Ltd
Level 1, 458 Wattle St
Ultimo NSW 2007
Australia
Tel: +61 2 8090 1000

Audinate Ltd
Suite 104
Werks Central
15-17 Middle St
Brighton, BN1 1AL
United Kingdom
Tel. +44 (0) 1273 921695

Audinate, Inc
1200 NW Naito Parkway
Suite 630
Portland, OR 97209
USA
Tel. +1.503.224.2998

Audinate Limited
Suite 1106-08, 11/
F Tai Yau Building
No 181 Johnston Road
Wanchai, Hong Kong
澳迪耐特有限公司
香港灣仔莊士敦道181號
大有大廈11樓1106-8室
Tel. +(852)-3588 0030
      +(852)-3588 0031

info@audinate.com
www.audinate.com

Dante-AV-Over-IP_11-Mar-2019

www.audinate.com