Digital audio transport system utilizing
Audinate's Dante™ network audio

DAC-122

interM DAC-122 DANTE AUDIO CONTROLLER

CH 1 — CH 2 — AUDIO IN
CH 1 — CH 2 — AUDIO OUT
SYNC ERROR   LINK / ACT
POWER
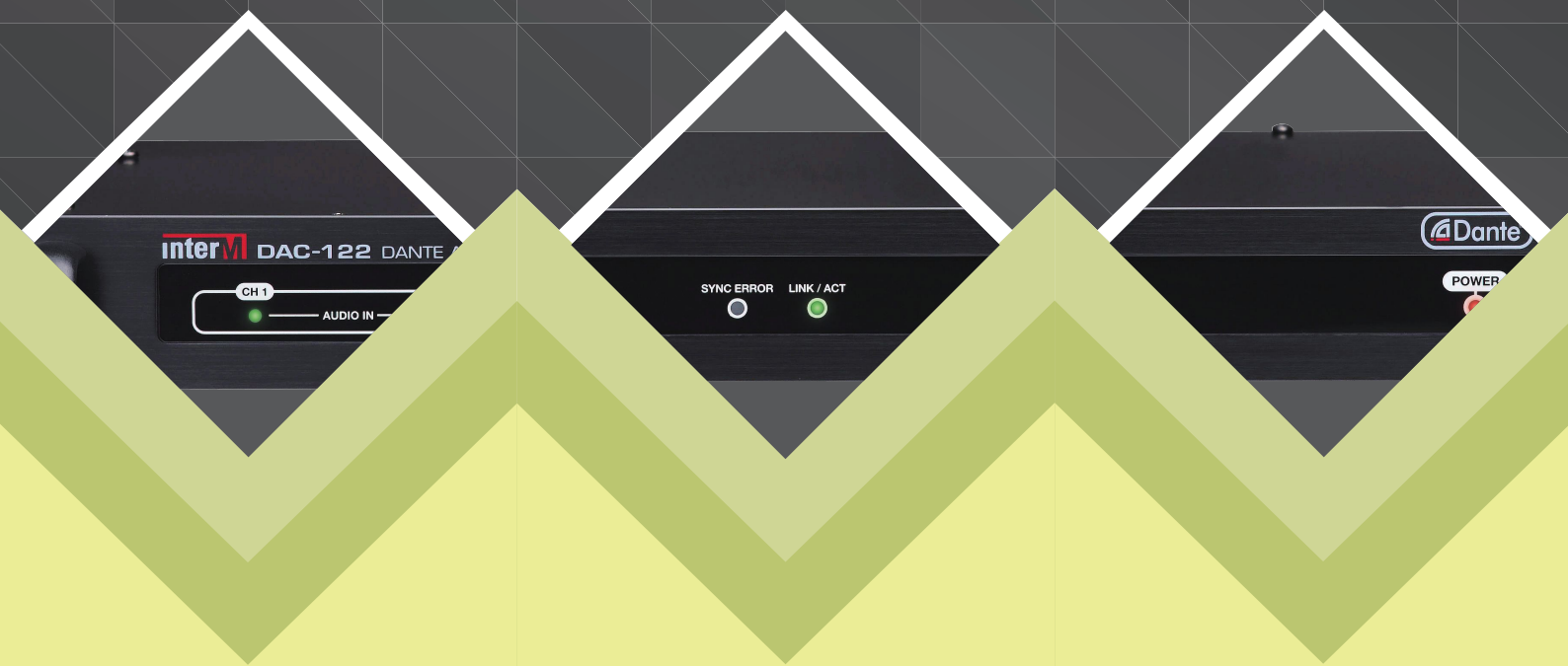
Dante

interM

SUMMARY

The DAC-122 is a digital audio transport system utilizing Audinate's Dante™ network audio solution.
The DAC-122 connects to your network with a single Ethernet cable. It is a Dante™ Encoder/Decoder/Break Out interface in a 1RU form factor designed for all types of commercial AV installations. It offers two channels of line-level analogue in and 2 line-level analogue outputs. Precision 24-bit A-D and D-A converters are used for superb audio performance.
DAC-122 is the equipment that can construct Dante Network System at a reasonable cost as it has lowered high construction cost estimated on the previous dispersion use of DASR-288.

OVERVIEW

This product is used as the audio matrix, each having two inputs, where you can send uncompressed audio with low latency using standard TCP/ IP Ethernet network. It's remotely controlled via the network and can be placed anywhere in a facility.

Each of the 2 balanced analog inputs and 2 outputs may be assigned to any Dante™ flow in the system, either by means of the Audinate's Dante™ Controller Windows or OSX application.

Brand Interoperability

Based on industry standards, Audinate's Dante™, is an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization. Dante™ is the preferred audio networking solution that has been adopted by more pro-audio AV manufacturers than any other networking technology. Interoperability is a reality today. The Inter-M DAC-122 is compatible with hundreds of other Dante™-enabled products available from the world's leading manufacturers, enabling you to mix devices from multiple manufacturers.
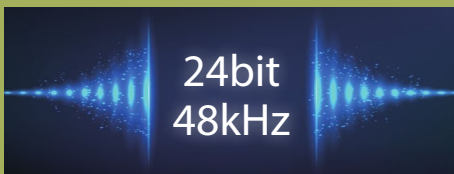
DANTE™ Network Audio Technology

Digital Media Networking Made Easy

Dante™

Audinate's Dante™ is a modern high performance digital media transport system that runs over standard IP networks. Dante™ exceeds all other systems in speed, channel count, ease of use, flexibility and scalability.

Dante™ offers a no hassle, self-configuring, true plug and play digital audio networking experience. It is a total solution for transporting low latency uncompressed audio over standard IP Ethernet networks with sample accurate synchronization, automatic device and channel discovery, and easy to use signal routing.

## DANTE™ Audio Network

24bit 48kHz

Audinate's Dante™, is an uncompressed, multi-channel digital media networking technology, with near-zero latency (Maximum delay time: under 1ms) and synchronization. Dante™ is currently the most advanced and most widely used network audio technology. It transmits 48kHz, 24bit high quality digital audio in real time through standard TCP/IP network protocol.

Outstanding Quality

PC
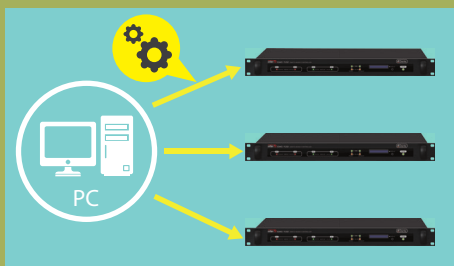
Since audio is transmitted digitally, audio transmitted with the DAC-122 using Dante™ Network audio is not affected from common analogue challenges such as interference from other electrical equipment, crosstalk between cables, or signal degradation over long cable runs.

PC Control
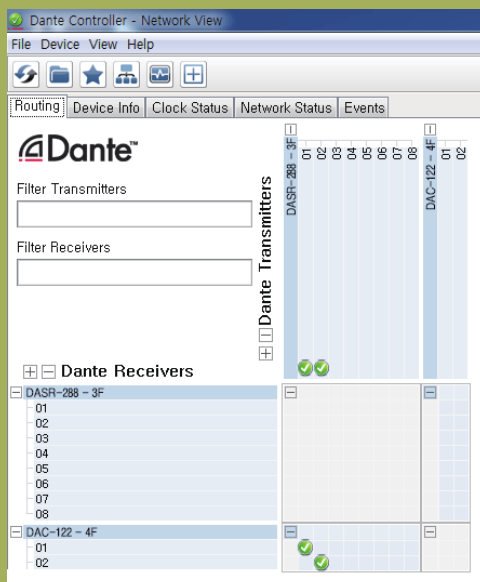
Dante Controller provided by Audinate is a program that can control network device of a PC or MAC. It is applicable to all devices that support Dante™ Network and DAC-122 can also interconvert or control using this program.Implement Dante Controller, connect to the IP/Ethernet Network and automatic search of the device activates. After these steps, users can set such functions as channel and audio routing by themselves.

Economical and Versatile

Distributing Digital Network audio over a Large Local Area Network is simple and economical. One cable does it all. Dante can easily be integrated to existing building network infrastructures illuminating the requirements to run heavy, expensive analog or multicore cabling, replacing them with low-cost, easily-available CAT5e, CAT6, or fiber optic cable for a simple, lightweight, and economical solution. Dante integrates media and control for your entire system over a single, standard IP network.

DAC-122 and Dante™ systems can easily be scaled from a simple pairing of a console to a computer, to large capacity networks running thousands of audio channels. Because Dante™ uses logical routes instead of physical point-to-point connections, the network can be expanded and reconfigured at any time with just a few mouse clicks.
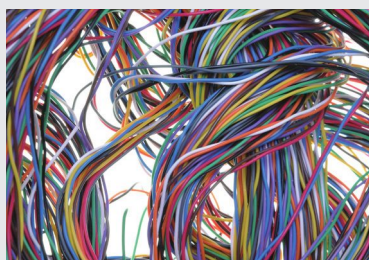
Complex wiring Network UTP 1 core

Network UTP 1core

FRONT / REAR PANEL

1 AUDIO IN / OUT LED

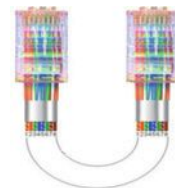**2** NETWORK STATUS LED
(LINK/ACT, SYNC ERROR)

3 POWER LED

1 AC INPUT

2 POWER SWITCH

3 DC INPUT

4 NETWORK TERMINAL

5 NETWORK STATUS LED

6 AUDIO OUTPUT (CH1 ~ CH2)

7 AUDIO INPUT (CH1 ~ CH2)

RECOMMENDED NETWORK TYPE

Type / Product	Area	Single Mode Dedicated Fiber	Fiber Media Networking	UTP	WI–FI	PLC	POE	xDSL	Coaxial Modern
DAC–288	LAN		○	○			○		
DASR–288			○	○			○		
DAC–122			○	○			○		

Used for UTP

Within only 100M

* **Installation within 100M**
  - Use one L2 Switch to Operate
* **Installation over 100M**
  - Use L2 Switch to operate
  - Length Extension using Fiber Media Converter

APPLICATION

Applications include campus wide paging or messaging, background music, audio distribution for airports, railway stations, ground transportation, and anywhere audio required to be transported easily over long distances.

• Theaters applications where multiple I/Os are required in different areas. The DAC-122 makes a great input and output breakout box and can act as a digital snake.
• Stadium applications, where large numbers of separate amplifier channels are required to drive multi-driver speaker clusters distributed over large distances.
• Hotels, Seminar rooms, Convention centers or other facilities with multiple rooms that require separate or combined audio feeds to 70V/100V amplifiers
• House of worship applications to deliver multiple channels of audio from other Dante™ equipped devices such as mixing consoles (e.g. Yamaha, Allen-Heath) to the platform or side fill areas.

Stage Sound System (Dante Transmission + NLA System)

MIC (MH-50)

CD PLAYER (CDR-01)　　WIRELESS MIC SYSTEM(WR-A92L)　　MIC (MH-50)

오디오(Mic/Line)
오디오(Low/High-Z)
네트워크(TCP/IP)

DAC-122　　　　DAC-122

V2-Seri s AMP　　　　V2-Series AMP

AUDIO MIXER (KENSINGTON-416)

Digital Sound Processor CSP-4.8

Digital Audio Signal Router DASR-288

NLA-15S　　　　NLA-15S

8 Port Switching Hub ISH-08

NLA-5　　　　NLA-5

DAC 122

V2-Series AMP

CMM-K Series　　　　CMM-K Series

SPECIFICATIONS

Max. INPUT Level	+20 dBu
Max. OUTPUT Level	+20 dBu
Frequency Response	20 Hz~20 kHz
THD(48 kHz Sampling)	Less than 0.1%
S/N(@ Input 0dBu, 1 kHz, LPF 20 kHz)	Better than 80 dB
Sampling Frequency	48 kHz
Quantization Bit	24 bit
ETHERNET(LAN)	10/100 Base-Tx, (RJ-45)
Operating Temperature	0℃ ~ 40℃
Power Source	AC 100-240 V, 50/60 Hz, DC 24 V
Power Consumption	10 W
Weight(SET)	2.9 kg/6.4 lbs.
Dimensions(W x H x D)(SET)	482 X 44 X 280 mm / 19 x 1.7 x 11 in

※ Design and specification are subject to be changed for the improvement of product quality without pre notice.   2015. 10. V3