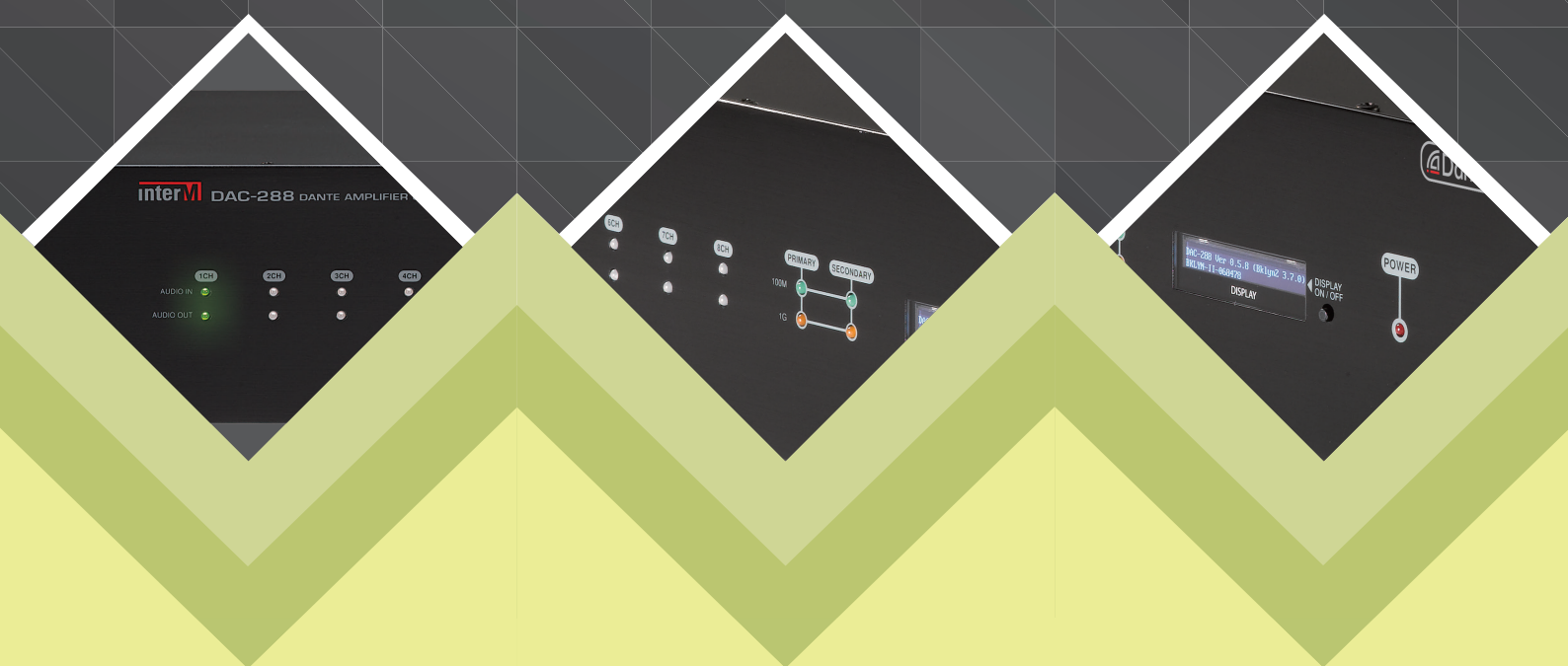


Digital audio transport system utilizing
Audinate's Dante™ network audio

DAC-288





SUMMARY

The DAC-288 is a digital audio transport system utilizing Audinate's Dante™ network audio solution. The DAC-288 connects to your network with a single Ethernet cable. It is a Dante Encoder/Decoder/Break Out interface in a 2RU form factor designed for all types of commercial AV installations. It offers eight channels (2 mic/line selectable) of line-level analogue in and 8 line-level analogue outputs. Precision 24-bit A-D and D-A converters are used for superb audio performance.

OVERVIEW

The DAC-288 is a digital audio transport system utilizing Audinate's Dante™ network audio solution. The DAC-288 connects to your network with a single Ethernet cable. It is a Dante™ Break Out/Encoder interface in a 2RU form factor designed for all types of commercial AV installations. It offers eight channels (2 mic/line selectable) of line-level analogue in and 8 line-level analogue outputs. Precision 24-bit A-D and D-A converters are used for superb audio performance with a 119 dB dynamic range at sample rates up to 192 kHz. This product is used as the audio matrix, each having eight 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. Unique to the DAC-288 is its Data tunneling. No other manufacturer offers this feature, which allows you to transport with the Digital audio, 8 contact closures in and 8 contact closures out together combined with either RS232 or RS485 serial data.

Each of the 8 balanced analog inputs and 8 outputs may be assigned to any Dante flow in the system, either by means of the Audinate's Dante Controller Windows or OSX application or Inter-M's own S-Connect Windows Software. The S-Connect allows for system configuration as well as easy channel switching. The S-Connect Software is designed to operate by simple touch screen.

Dual redundant Gigabit Dante Network connections are available. Both primary and secondary connections support full Gigabyte ports for full redundancy.

Signal Monitoring is available for all 8 inputs and 8 outputs with a front panel mounded dual LEDs, indicating signal presence and clipping. Network status LEDs also monitor network connectivity and transition speed.

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-288 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



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.

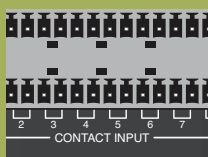
Dante™ offers a no hassle, self-configuring, true plug and play digital audio networking experience. It is a total solution for transporting low latency uncompressed audio over standard IP Ethernet networks with sample accurate synchronization, automatic device and channel discovery, and easy to use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

DANTE Audio Network



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 48 kHz, 24 bit high quality digital audio in real time through standard TCP/IP network protocol.

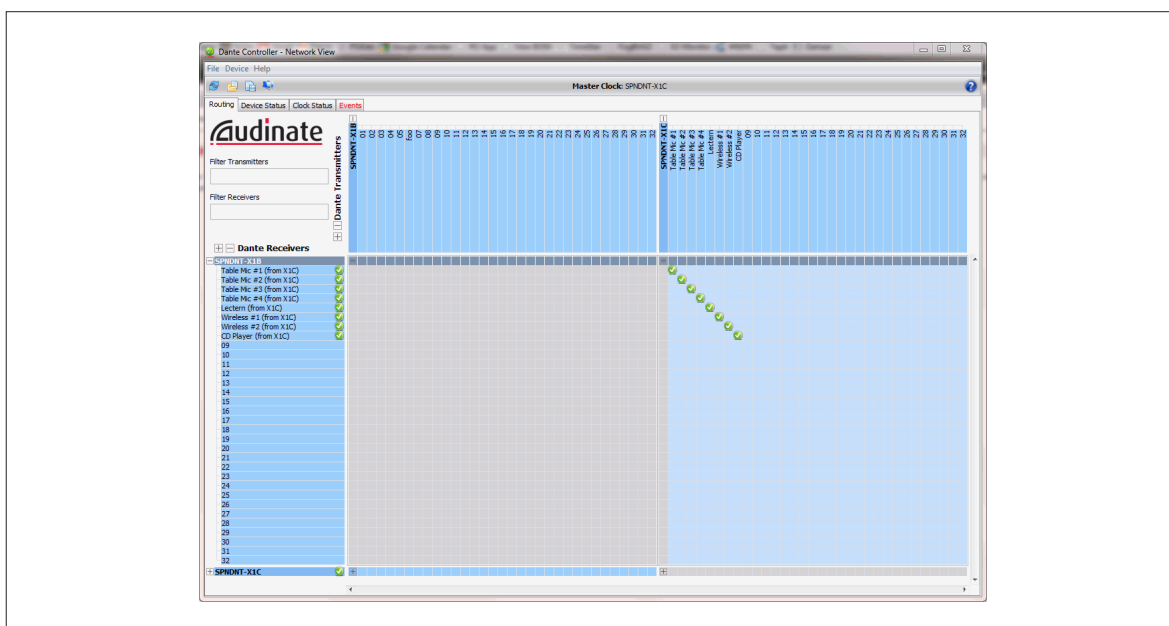
DATA Tunneling (8 In/Out Dry Contact & RS-232C)



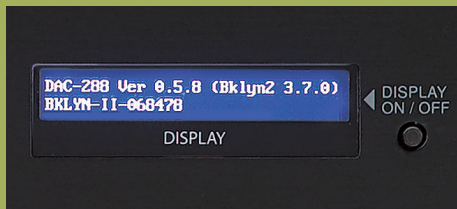
Unique to the DAC-288 is its Data tunneling. No other manufacturer offers this feature, which allows you to transport with the Digital audio, 8 contact closures in and 8 contact closures out together combined with either RS232 or RS485 serial data. These features can be used to remotely turn on/off other local equipment remotely. Verify equipment status or control other devices via one network.

PC Control

Each of the 8 balanced analog inputs and 8 outputs may be assigned to any Dante flow in the system, either by means of the Audinate's Dante Controller Windows or OSX application or Inter-M's own S-Connect Windows Software. The S-Connect allows for system configuration as well as easy channel switching. The S-Connect Software is designed to operate by simple touch screen. The S-Connect software comes included with the DAC-288



Web-Browser Configuration

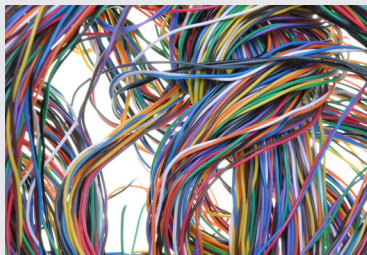


The DAC-288 can easily be configured using the built-in Web-browser interface. Once connected to the network, the front mounted OLED screen will display the device's IP address. Use this IP address to login to the Web-Browser interface to setup the DAC-288's operation parameters.

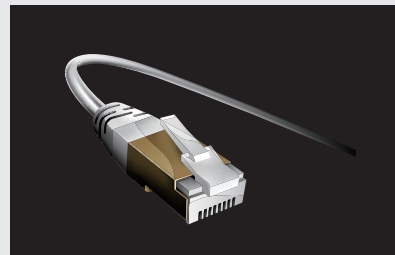
Economical and Versatile

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-288 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.

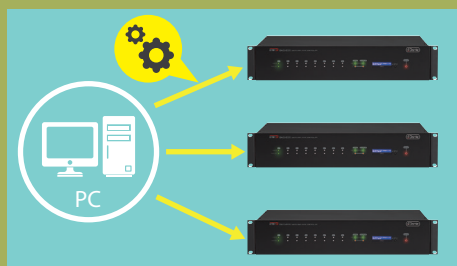


Complex wiring Network UTP 1 core

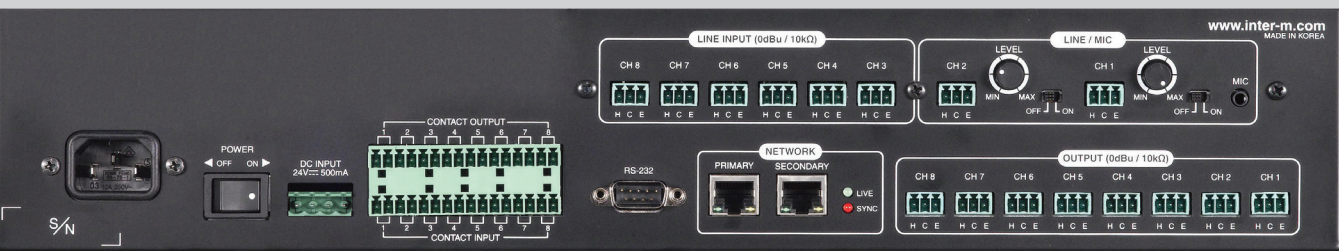


Network UTP 1 core

Outstanding Quality



Since audio is transmitted digitally, audio transmitted with the DAC-288 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.



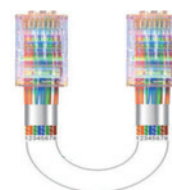
FEATURE

- 2U size
- 8 audio inputs
(LINE/MIC INPUT 1~2, LINE INPUT 3~8)
- 8 audio outputs(LINE OUTPUT 1~8)
- 2 phantom switches and 2 volume controls
(LINE/MIC INPUT 1~2)
- 1 source input
(LINE/MIC INPUT 1, volume control possible from PC)
- 8 separate input signal LED(AUDIO IN 1~8)
- 8 separate output signal LED (AUDIO OUT 1~8)
- 4 network status LED
- PRIMARY, SECONDARY 10/100 LED, 1000M LED
- Data tunneling
- 8 Contacts input / output dry contact
- Transfer data(422/232)VCA remote master volume level control.
- 2 network input port and status LED

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



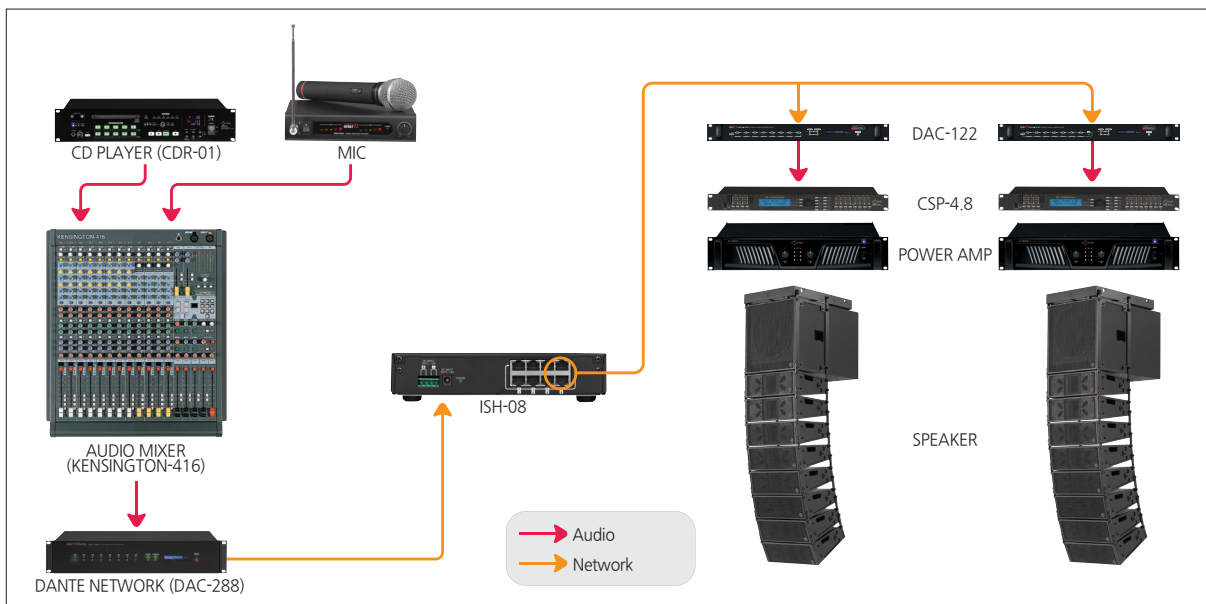
Within only 100M

- * 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-288 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.



ACCESSORIES

- AC power supply cord×1
- 3P terminal block×16
- 4P terminal block×1
- 16P terminal block×2
- RS-232C cable×1
- Aux cable×1
- Lack mounting screw×4
- LAN cable×2

SPECIFICATIONS

AUDIO	Max. INPUT Level	line : + 20 dBu, MIC : -30 dBu
	Max. OUTPUT Level	+ 20 dBu
	Frequency Response	20 Hz~20 kHz
	T,H,D	0.1 %(Less than)
	Sampling Frequency	48 kHz
	Quantization bit	24 bit
Data communication	Type of communication	contact closure(8CH), RS-232C
	Input , output contact closure	Input 8 Channel, Output 8 Channel
	Speed of serial transmission	9600 bps~115200 bps
	Ethernet(LAN)	10/100/1000 Base - tx (RJ-45)
General characteristic	Operating Temperature	0 °C~40 °C
	Operating Power	AC 120 V - 240 V or DC 24 V
	Power consumption	25 W
	Weight	6 kg/13.2 lbs
	Dimensions (W×H×D)	482×88×280 mm/19×3.5×11 in