Amphenol
Australia

Amphe-Dante
Adapters.

Innovate.

MadisonAV is an Australian owned and operated business that innovates, distributes and supports a range of high-quality AV product solutions from globally recognised brands.

We bring together detailed knowledge of local network practices and innovative products from global technology partners.

Our experience supporting AV and broadcast solutions across key market sectors is underpinned by over 27 years of insights and customer understanding.

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Connecting you to world-leading brands.

We efficiently connect customers with leading, state of the art solutions through our sales, warehouse and distribution networks across Australia and New Zealand.

Our heavy investment in stock and flexible credit terms, ensures we have what you need, when you need it.

Contents

Support.

Our team is dedicated to finding the best possible solution for every project.

Our dedicated team provide a successful formula for delivering innovation, agility and practicality for any complex AV project challenges.

From specification assistance, design support, or post sale technical support, our team is right behind you.
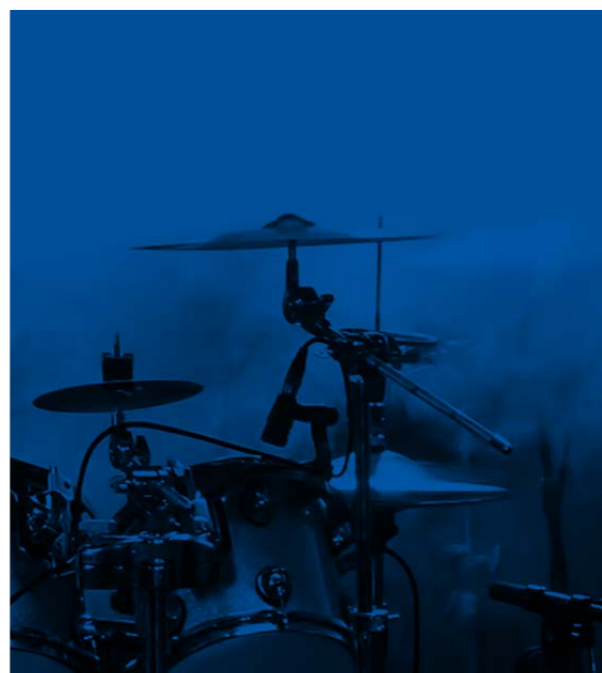
Contact Us.

For more information on connectivity solutions for your next project visit us at www.madisonav.com.au or call on 1800 00 77 80

madisonAV
Specialised AV Solutions

About Amphe-Dante.

Dante™

Amphe-Dante are Dante™ audio to analogue audio adapters integrated into a robust molded housing.

The perfect solution allowing the integration of analogue devices to a Dante enabled network. They can send and receive audio channels from a Dante network and provide studio-quality, low-latency audio to and from analogue audio equipment.

The unique cable dongle design is available in 0x1 (Single Channel) or 0x2 (Two Channel) configuration. The compact design permits installation directly behind speakers or other equipment ensuring a seamless interface to your networked audio system.

Available Options:

- Analogue Output
- Analogue Input (Line-level Source)
- AES3 (AES3/EBU)
- USB

Features:

- Dante™ to analogue XLR output adapters
- Line level analogue input to Dante™ audio output adapters
- Dante™ AES3 2 channel input/output adapters
- Dante™ USB input/output adapters
- One channel or Two channel analogue input or output
- Durable overmolded housing
- Resilient cable strain relief
- Shielded RJ45 metal connectors with integrated LED's
- Premium AX Series XLR connectors
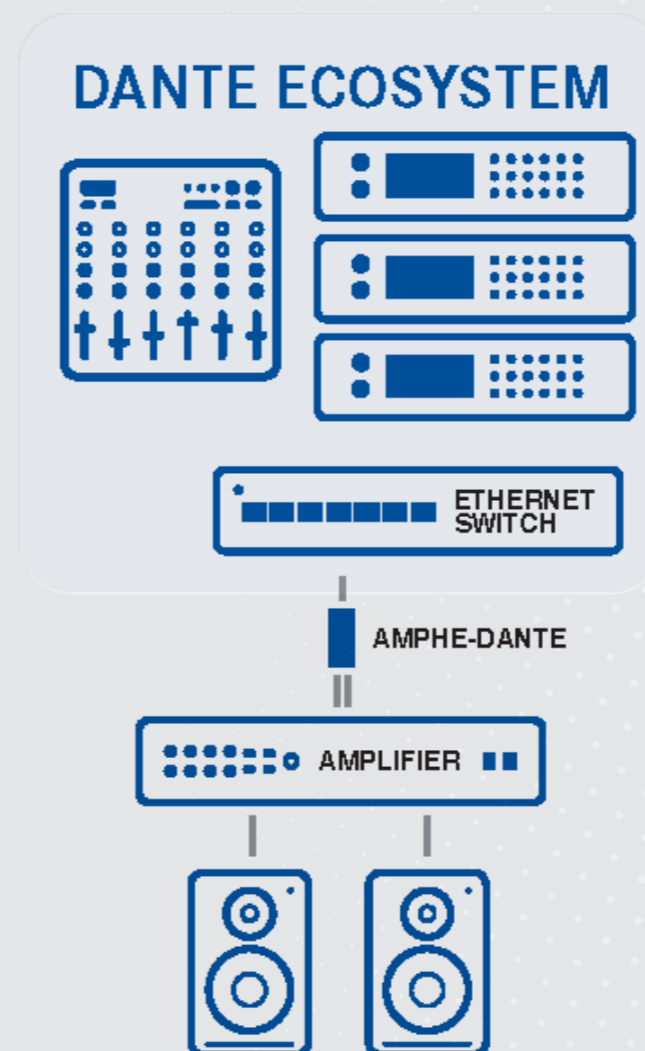
0x1 (Single Channel)

0x2 (Two Channel)

Example Use Cases.

Example 1

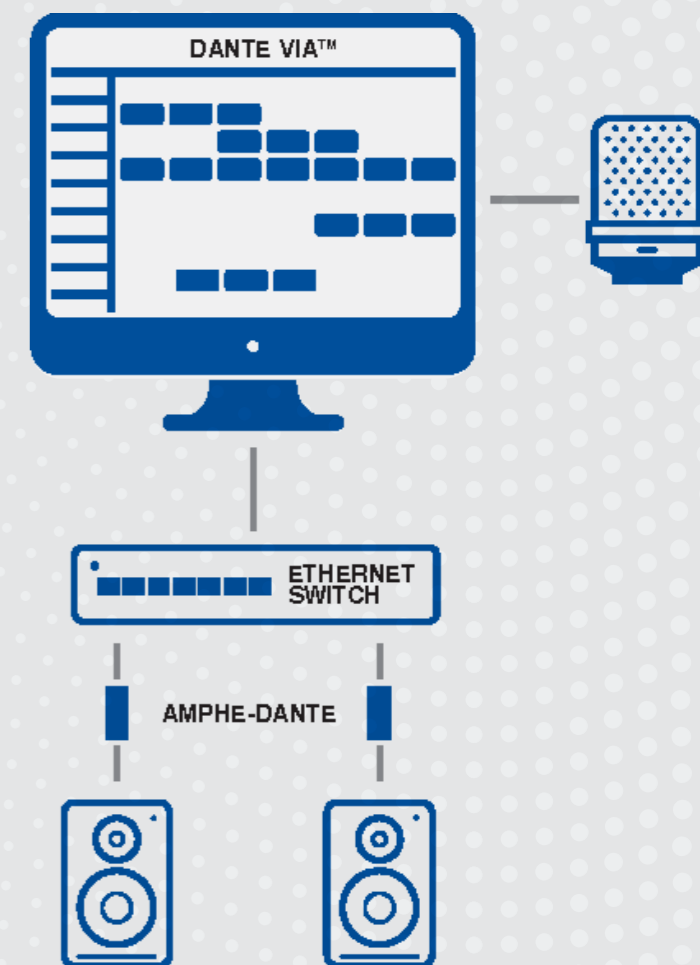### Connecting analog audio equipment to a Dante system

Amphe-Dante can be used to easily integrate traditional analog audio equipment into a networked Dante system.
A large ecosystem of Dante devices is available, including Dante-enabled mixing consoles, DSP units and wall plates. In the diagram, a zoned audio system is shown with traditional analog amplifiers and speakers connected to the Dante network using Amphe-Dante devices.

DANTE ECOSYSTEM

ETHERNET SWITCH

AMPHE-DANTE

AMPLIFIER

Example 2

Routing local computer audio to traditional devices over a Dante network

In combination with Dante Via software, Amphe-Dante can create simple audio systems using computer software (e.g. iTunes, Spotify, etc) and USB audio devices (e.g. a microphone). In the diagram below, a simple background music system with a microphone input for announcements is shown, where Amphe-Dante is used to connect networked audio channels to a pair of traditional analog powered loudspeakers.
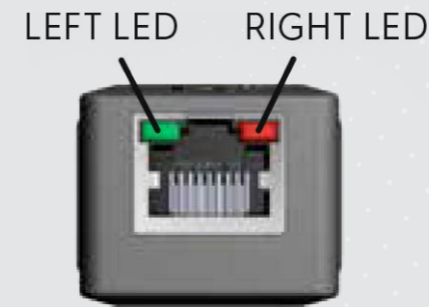
DANTE VIA™

ETHERNET SWITCH

AMPHE-DANTE

*Amphe-Dante requires power, which can be provided by a PoE (Power over Ethernet) switch port, or a PoE injector.
CAUTION – If using a PoE injector, it must be IEEE 802.3af compliant. Use of a non-compliant PoE injector can terminally damage the device and may void the warranty.

Specifications.

		ANALOG INPUT 1CH	ANALOG INPUT 2CH	ANALOG OUTPUT 1CH	ANALOG OUTPUT 2CH	AES3 I/O 2 IN 2 OUT	USB I/O 2 IN 2 OUT
Product Code		RJD2103-0050	RJD2203-0050	RJD1112-0050	RJD1212-0050	RJD32A3-0050	RJD32U1-0050
General	Connector (Input)	1 XLR-F	2 XLR-F	RJ45	RJ45	RJ45	RJ45
	Connector (Output)	RJ45	RJ45	1 XLR-M	2 XLR-M	1 XLR-M, 1 XLR-F	USB 2.0 Type A
Electrical	Power Consumption	< 2 Watt					
	Power over Ethernet (Required)	Class 1 IEEE 802.3af POE PD compliant					PoE or USB
Analog / Digital Audio	Max Signal Level (Balanced)	+24dBu / +4dBu / 0dBu 0dBV / -10dBV		+18dBu / +4dBu / 0dBu 0dBV / -10dBV		-	-
	Impedance	20k Ohm balanced 10k Ohm unbalanced		150 Ohm balanced 75 Ohm unbalanced		110 Ohm balanced	-
	Frequency Response	20Hz to 20 kHz (+/-0.5db)		20Hz to 20 kHz (+/-0.5db)		-	-
	Dynamic Range	> 100dB		> 100dB		-	-
	Signal to Noise	> 100dB		> 100dB		> 135dB	-
	Total Harmonic Distortion	< 0.01% at +4dBu		< 0.01% at +4dBu		-	-
	Channel Separation	N/A	> 100dB	N/A	> 100dB	-	-
	Channel Matching	N/A	< 0.25dB	N/A	< 0.25dB	-	-
Dante® Audio	Asynchronous Sample Rate Conversion	-		-		Yes	-
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz					48 kHz
	Bit Depth	24 bits					
	Network Speed	100 Mbps					
	Network Interface	Latency from 1ms					
	Network Transport	Dante Audio over IP, AES67 RTP					
Climatic	Protection Class	IP40					
	Operating Temperature	-5°C to +60°C (23°F to +140°F)					
Mechanical	Insertion and Withdrawal Force	≥10N - ≤35N					
	Weight	136g (0.299lb)	192g (0.423lb)	136g (0.299lb)	192g (0.423lb)	192g (0.423lb)	110g (0.243lb)
Materials	Housing	PVC 60P Black					

LED Status.

LEFT LED   RIGHT LED

FUNCTION	LEFT LED	RIGHT LED	COMMENT
Off	Off	Off	No Power
Device is booting	Solid GREEN	Solid RED	
Slave with sync	Blinking GREEN	Solid GREEN	Normal operation
Clock Master	Blinking GREEN	Blinking GREEN	Normal operation
Any runtime error	Blinking GREEN	Blinking RED	Normal operation
Identify	Alternating RED and GREEN	Alternating RED and GREEN	Blinking for 6 seconds (cycle every 0.5 sec)
Failsafe (bootloader)	Blinking RED	Blinking RED	Failsafe, Corrupt Capability (red in DC)
Upgrade (bootloader)	Blinking ORANGE	Blinking ORANGE	Device is upgrading

Available Software Options.

Dante Controller
Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. As well as automatic device discovery, one-click signal routing and user-editable device and channel labels, Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues.

Dante Via
Dante Via is powerful and easy-to-use software that delivers unprecedented routing of computer-based audio, allowing a wide range of applications and devices to be networked and interconnected, easily and inexpensively. Dante Via network-enables locally-connected USB and Firewire devices, and a huge range of software applications, allowing you to route computer-based audio across an existing Dante network, and create standalone Dante networks without dedicated Dante hardware.

Dante Virtual Soundcard
Dante Virtual Soundcard turns your computer into a Dante-powered workstation, seamlessly integrating your PC or Mac with Dante audio devices on your network. You can instantly connect to a Dante network to record, process and playout using any audio application and any combination of Dante-enabled devices.

*All software can be purchased and downloaded at:
amphenolaudio.com/products/dante

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Call 1800 00 77 80
www.madisonav.com.au

Brisbane Head Office
Level 2, Building 1
61 Metroplex Ave
Murarrie QLD 4172

Melbourne
51 Barclay Road
Derrimut VIC 3026

Sydney
149 Beaconsfield Street
Silverwater NSW 2128

Perth
56 Clavering Road
Bayswater WA 6053

New Zealand
Unit 27
761-779 Great South Road
Penrose, Auckland, 1061
P 0508 78 88 89

beyond connected