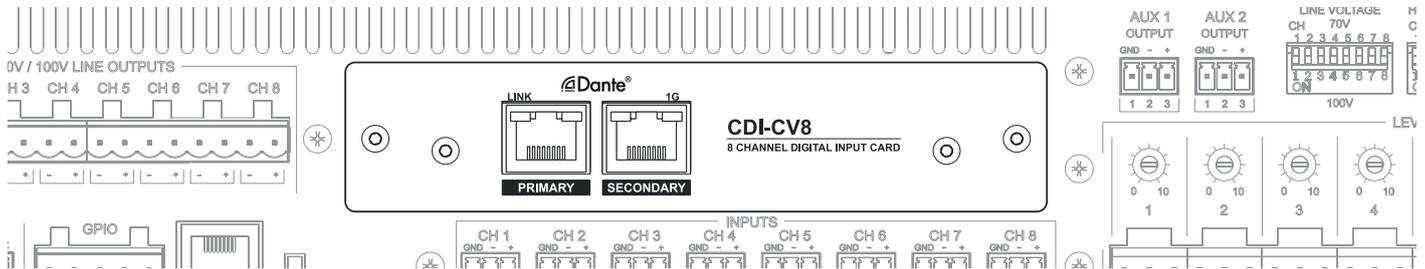


CLOUD CDI-CV Auxiliary Digital Input Cards

Dante™ Network Cards
For CV Series Digital Amplifiers

CDI-CV2 2-channel Dante input card
CDI-CV4 4-channel Dante input card
CDI-CV8 8-channel Dante input card



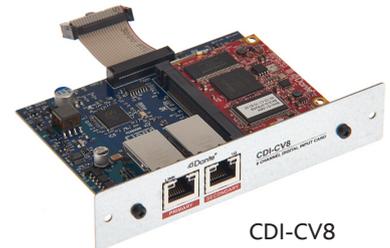
CDI-CV8 card installed in a CV8125 amplifier



CDI-CV2



CDI-CV4



CDI-CV8

Key Features

- Optional Dante interfaces for Cloud CV Series power amplifiers, allows integration with a Dante/AES67 AoIP network
- AES67 compliant for interoperability with alternative (non-Dante) audio networks
- Fits rear panel expansion bay: adds two (CDI-CV2), four (CDI-CV4) or eight (CDI-CV8) digital inputs to amplifier
- All card versions are compatible with all CV Series amplifier models
- Internal channel routing configured by amplifier's existing browser interface
- CDI-CV8: dual RJ45 gigabit Ethernet ports: switched and redundant modes available for secondary port
- CDI-CV2 and CDI-CV4: single RJ45 100Mbit Ethernet port
- Externally powered via PoE
- Compatible with Dante Controller and Dante Domain Manager
- Dante sample rates: 44.1, 48, 88.2 and 96 kHz
- LED indication of network speed and Link activity

General Description

The CDI-CV series of Dante network cards are retrofittable options for Cloud CV Series digital power amplifiers, and allow the amplifier to derive its inputs directly from an Audinate Dante audio network. Dante is a multichannel digital audio system using standard IP Ethernet network technology for AoIP (Audio over Internet Protocol), and provides sample accurate synchronisation and automatic device and channel discovery. The card is compliant with AES67, making it compatible with a broad range of other AoIP networks.

The network cards are compatible with the following amplifier models (power ratings quoted here assume equal power sharing across all channels):

- CV2500 – 2 channels, 500 W/ch
- CV4250 – 4 channels, 250 W/ch
- CV8125 – 8 channels, 125 W/ch

The CDI-CV2, CDI-CV4 and CDI-CV8 cards source up to two, four or eight channels (respectively) of low-latency digital audio from the

Dante network. With Dante, channel assignment in a Dante device is normally made using Audinate's Dante Controller software: when the card option is installed in a Cloud CV Series amplifier, any of the audio channels assigned to the card may be selected as the input to each amplifier channel using the amplifier's browser pages. All CDI-CV cards use the latest version of Dante firmware, making them compatible with all versions of Dante Domain Manager (DDM), for security and domain management.

The card fits into the amplifier's rear panel expansion bay. The CDI-CV2 and CDI-CV4 are fitted with a standard RJ45 100 Mbit Ethernet port on the card faceplate to provide network connectivity, while the CDI-CV8 features dual gigabit ports: these enable operation using primary and secondary (redundant) networks, or alternatively, the second port can operate as an additional network port via the internal switch. The card is powered via PoE (Power Over Ethernet), thus drawing no additional current from the amplifier's internal power supplies. If the Ethernet port to which the card is connected is not PoE-enabled, an Ethernet-compatible power injector module may be inserted in the feed. The power injector(s) should be

General Description (*continued*)

100Mbit-rated for the CDI-CV2 and CDI-CV4, and gigabit-rated in the case of the CDI-CV8.

Once installed and powered, the CDI-CV card adds an additional Dante Configuration page to the amplifier's set of browser pages. The Input Type control on each channel's Audio page is enabled (normally greyed-out), and allows the channel to be fed from the Dante card instead of an analogue input. Mono summing of a pair of Dante channels into a single amplifier channel is allowed, permitting simple stereo compatibility.

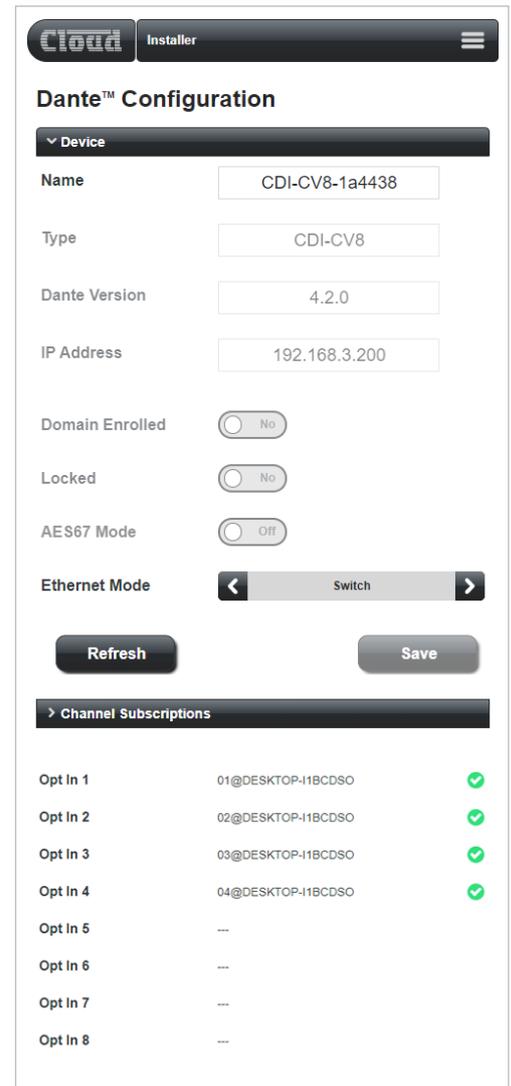
All three card versions are compatible with all models in the CV amplifier range, though some routing restrictions will apply when using a card with a different number of channels from the amplifier. Thus a CDI-CV2 card installed in a CV4250 four-channel amplifier will permit either of the Dante channels assigned to the card to be routed to any of the amplifier's channels. A CDI-CV8 card installed in a CV2500 two-channel amplifier will permit any of the eight Dante channels assigned to the card to be routed to either amplifier channel. In either of these example cases, mono summing of a pair of Dante channels may be selected to a single amplifier channel via the channel's Audio browser page.

	CDI-CV2	CDI-CV4	CDI-CV8
Dante channels	2	4	8
Simultaneous receive flows	1 or 2		Up to 8
Sample rates	Dante: 48/44.1/88.2/96 kHz AES67: 48 kHz		
Encoding	16/24/32-bit PCM (default 24-bit PCM)		
Data rates	100 Mb/s		1 Gb/s
Connectors	1 x RJ45		2 x RJ45
Secondary port modes	(not applicable)		Switched (default); Redundant
LEDs	Network speed, Link status		
Power consumption	0.7 W	1.0 W	2.3 W
Software compatibility	Configuration	CV Series internal web browser	
	Routing	Audinate Dante Controller	
	Security and Domain management	Audinate DDM	

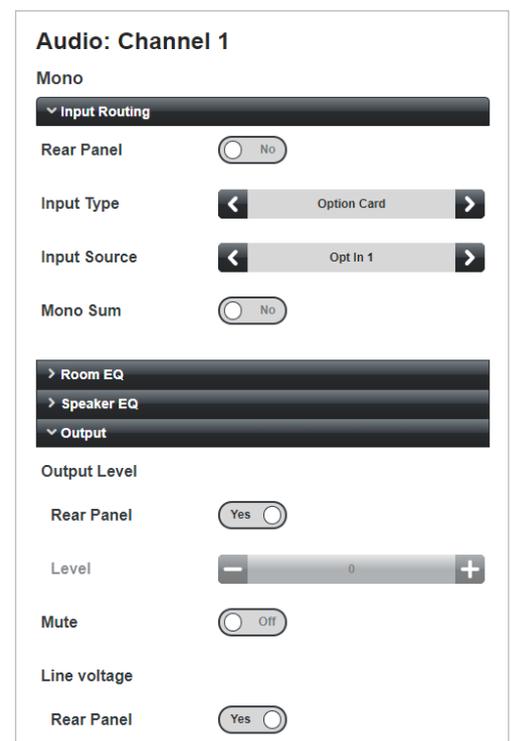


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GUI pages



The screenshot shows the 'Dante™ Configuration' page in a web browser. At the top, there's a 'Cloud Installer' header. The main content area is titled 'Dante™ Configuration' and features a 'Device' dropdown menu. Below this, several fields are visible: 'Name' (CDI-CV8-1a4438), 'Type' (CDI-CV8), 'Dante Version' (4.2.0), and 'IP Address' (192.168.3.200). There are three toggle switches: 'Domain Enrolled' (No), 'Locked' (No), and 'AES67 Mode' (Off). An 'Ethernet Mode' section has a slider set to 'Switch'. At the bottom of this section are 'Refresh' and 'Save' buttons. Below the configuration section is a 'Channel Subscriptions' section with a list of 8 options (Opt In 1 to Opt In 8), each with a status indicator (green checkmark for 1-4, grey for 5-8).



The screenshot shows the 'Audio: Channel 1' page. It starts with a 'Mono' section and an 'Input Routing' dropdown. Below this are several controls: 'Rear Panel' (No), 'Input Type' (Option Card), 'Input Source' (Opt In 1), and 'Mono Sum' (No). There are also expandable sections for 'Room EQ', 'Speaker EQ', and 'Output'. The 'Output Level' section is expanded, showing 'Rear Panel' (Yes), a 'Level' slider set to 0, 'Mute' (Off), 'Line voltage', and 'Rear Panel' (Yes).