

User Guide

CDC MC Dante Set-up



Description

This document provides a guide to setting up a CDC MC Dante for a Dante network

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Introduction

This guide provides an overview on how to set up a Cadac CDC MC Dante.

The following Audinate software is also required in order to use the CDC MC Dante on a Dante network:

- 'Dante Controller', provided free by Audinate, provides remote control and set up of all Dante equipment attached to a given Dante audio network. [Link](#)
- 'Dante Virtual Soundcard', which requires a separate software license, is needed to send / receive audio on a Dante network to / from a local DAW or media player. [Link](#)



CDC MC Dante



The CDC MC Dante supports up to 64 bi-directional connections to map between MegaCOMMS ports and a Dante network.

Two network ports **A** and **B** are available to provide the channel count required. Each has a primary and secondary connection; the secondary connections are for redundant network connections **only**.

Channel Configurations Available *

Fsample	Port A I/O	MegaCOMMS mapping	Port B I/O	MegaCOMMS mapping
44.1 / 48 kHz	64	1-64	Not used	-
88.2 / 96 kHz	32	1-32	32	33-64
176.8 / 192 kHz	16	1-16	16	33-48

MegaCOMMS to Dante audio channel connections are configured on the routing page of the Dante Controller.

Port A must always be connected when using CDC MC Dante.

Front Panel Dip Switch 1 - 2 - 3: Settings for Different Sample Rates

Fsample	DIP 1 / FS 0	DIP 2 / FS 1	DIP 3 / FS 2
44.1 kHz	ON	OFF	OFF
48 kHz	OFF	OFF	OFF
88.2 kHz	ON	ON	OFF
96 kHz	OFF	ON	OFF
176.8 kHz	ON	OFF	ON
192 kHz	OFF	OFF	ON

Sample rate settings are made via the Dante Controller and MUST be mimicked via the dip switches on the CDC MC Dante's front panel.

ALL ports on a given Dante Network must be configured to the same sample rate via the Dante Controller.



Front Panel Dip Switch 4 - 5 : Settings for Different WORD CLOCK Modes

Mode	DIP 4	DIP 5
<p>CDC MC Dante is as SLAVE to the WORD CLOCK derived from another piece of equipment attached to the Dante network</p> <p>Dante Controller MUST be set such that both Brooklyn ports on CDC MC Dante are set as SLAVE</p>	<p>ON</p> <p>Word Clock Led = S</p>	<p>OFF</p> <p>SYNC LED = Dante</p>
<p>CDC MC Dante is as SLAVE to a WORD CLOCK provided at WORD CLOCK BNC input port</p> <p>Dante Controller MUST be set such that either Brooklyn port on CDC MC Dante is set as MASTER</p>	<p>ON</p> <p>Word Clock Led = S</p>	<p>ON</p> <p>SYNC LED = Word Clock</p>
<p>CDC MC Dante is the MASTER WORD CLOCK</p> <p>Dante Controller MUST be set such that either Brooklyn port on CDC MC Dante is set as MASTER</p> <p><i>This is the mode to use when there is one PC (controller + virtual soundcard) is attached to one CDC MC Dante</i></p>	<p>OFF</p> <p>Word Clock Led = M</p>	<p>X – Don't care</p> <p>SYNC LED = Both OFF</p>

Several WORD CLOCK modes may be selected when using the CDC MC Dante. The Dante Controller settings and front panel dip switch settings must align with those shown above.

External WORD CLOCK input BNC signal frequency must mirror the FS settings of the system.

Important Notes

* Dante port connections are identified via MAC addresses on the Dante Controller. Each port on all CDC MC Dante units has a unique MAC address. The User must work out the MAC address of each unit, and port, by connecting one at a time to the network, and observing what device (MAC address) appears on the controller.

- Frequencies 192 kHz and 176.4 kHz are not currently enabled
- DIP switches 6, 7, 8 are not used
- Definitions of Master / Slave operation above DO NOT relate to MegaCOMMS. The CDC MC Dante will always operate as MegaCOMMS slave either connected to the CDC MC Router or Cadac digital console hardware.
- One Dante port Tx connection may not be routed to a Rx connection from the same port

