

User Guide

CDC MC MADI Set-up



Description

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

Contact

Cadac Holdings Limited
One New Street
Luton
Bedfordshire
LU1 5DX
England

Tel: +44 1562 404 202

Email: support@cadac-sound.com

www.cadac-sound.com



Introduction

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

The CDC MC MADI Bridge connects to a MADI network via either a coaxial or optical Interface. Flexible clocking schemes allow 24-bit audio samples to be passed, with either the CDC MC MADI or third party MADI units providing an embedded WORD CLOCK. Alternatively a separate BNC / coaxial input is provided to utilise a separate WORD CLOCK source.

Up to 64 channels of audio at 48 kHz or 96 kHz are supported with the latter requiring two physical MADI ports.



CDC MC MADI



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

Two MADI channels, Port 1 and Port 2, are available. Each has an optical or coaxial connection selected by the front panel DIP switch.

Port 2 is only used when running at 96 kHz, otherwise **NOT USED**.

The CDC MC MADI connects, or routes, between individual channels on the MADI link and system MegaCOMMS channels as shown below.

Channel Configurations Available

Fsample	Port 1 I/O	MegaCOMMS mapping	Port 2 I/O	MegaCOMMS mapping
48 kHz	64	1-64	Not used	-
96 kHz	32	1-32	32	33-64

Front Panel Dip Switch 1 Setting for MADI Coax / Optical Selection

MADI Port 1	DIP 1
Coax	ON
Optical	OFF

Front Panel Dip Switch 2 Setting for MADI Coax / Optical Selection

MADI Port 2	DIP 2
Coax	ON
Optical	OFF



Front Panel Dip Switch 3 Setting for Different Sample Rates

Fsample	DIP 1 / FS 0
96 kHz	ON
48 kHz	OFF

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

Mode	DIP 4	DIP 5
CDC MC MADI is SLAVE to WORD CLOCK derived from the MADI link from third party equipment	ON Word Clock Led = S	OFF SYNC LED = MADI
CDC MC MADI is SLAVE to a WORD CLOCK provided at WORD CLOCK BNC input port	ON Word Clock Led = S	ON SYNC LED = Word Clock
CDC MC MADI is the MASTER WORD CLOCK and provides WORD clock to the MADI link	OFF Word Clock Led = M	X – Don't care SYNC LED = Both OFF

Important Notes

- DIP switches 6, 7 and 8 are **NOT USED**.
- WORD CLOCK Modes adopted by the MADI unit connected should be appropriate to the CDC MC MADI WORD CLOCK source settings selected.
- Sample rate settings on the MADI equipment connected, should **mimic** the CDC MC MADI settings selected.
- Ext WORD CLOCK input BNC/Coaxial signal frequency (if used) must mirror the FS settings of the system.
- Definitions of Master / Slave operation above DO NOT relate to MegaCOMMS. The CDC MC MADI will always operate as MegaCOMMS SLAVE when connected to either a CDC MC Router or a CDC series console.

