

# MADI.9648

BIDIRECTIONAL MADI SAMPLE RATE CONVERTER



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**DirectOut**  
TECHNOLOGIES

**UP AND DOWN!**

**MADI.9648**

is a synchronous MADI sample rate converter with four independent SRC blocks for bidirectional conversion of 128 audio channels.

Equipped with eight MADI ports it features synchronous low latency conversion in a ratio of exactly 1:2 or 2:1 to translate between 2 FS (88.2/96 kHz) and 1 FS (44.1/48 kHz).

A 1 FS MADI stream with 64 audio channels is converted into two 2 FS MADI streams with 32 channels each. Vice versa two 2 FS streams are converted and combined into a single 1 FS stream, that is output via both BNC and SC.

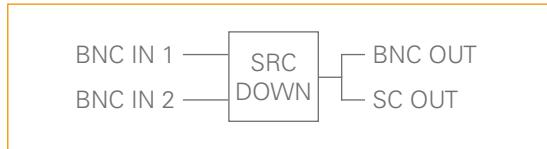
This enables an easy-to-handle integration of external equipment with actual live consoles with 96 kHz processing.

**TECHNICAL DETAILS**

MADI Ports (I/O):	2 x SC-Socket multi/single-mode 6 x coaxial BNC, 75 Ω
Sample Rates:	44.1, 48, 88.2, 96 kHz (+/- 12,5%)
SRC Channels:	2 x 64 channels (1 FS to 2 FS) 2 x 64 channels (2 FS to 1 FS)
MADI Formats (I/O):	48k Frame, 96k Frame, 56/64 channel
USB:	USB 2.0 for firmware updates
Power Supply:	2 x 84 V to 264 V AC / 47 Hz to 63 Hz / safety class 1
Dimensions:	Width 19" (483 mm) Height 1 RU (44.5 mm) Depth 7.8" (200 mm)
Weight:	about 3 kg

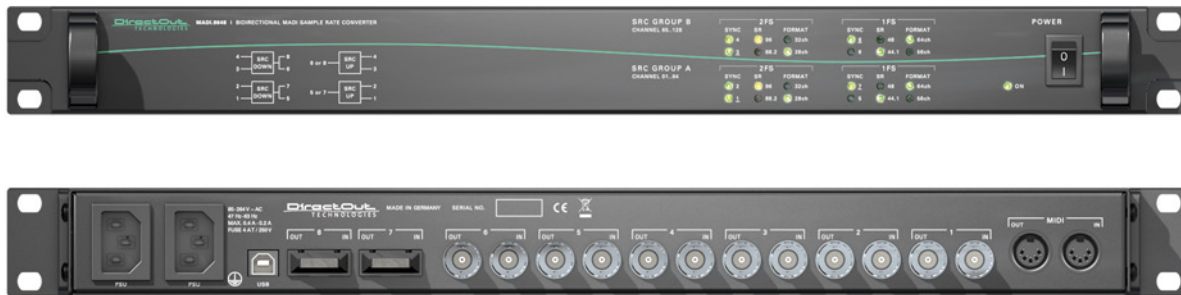
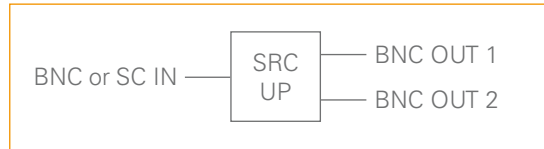
**Scheme\***

**2 FS to 1 FS**



\* each SRC block is provided twice

**1 FS to 2 FS**



**Plug'n Play**

There is nothing to adjust – a fixed signal routing and automatic signal detection of frame format (48k/96k Frame) and channel mode (56/64 ch) facilitate the installation.

The 2 FS inputs accept both 96k Frame and 48k Frame (S/MUX). The 2 FS outputs are set to 96k frame or 48k frame (S/MUX) following the input of the same port.

**Flexibility**

There is no common clock source needed. The output of each SRC block is clocked by it's corresponding MADI input.

**Live**

Low latency processing of eight samples round-trip (1FS-2FS-1FS) meets the demanding requirements of live sound applications.

**Versatility**

MADI.9648 features six BNC ports which are mostly deployed in live consoles. Two optical SC ports extend the connection scenario for 1 FS signals.

An integral USB port enables firmware updates for future enhancements.

**Safe operation**

The device is equipped with two phase-redundant power supplies to ensure maximum reliability.