



I/O Connectivity

- 8 x Analog I/O
- 2 x ADAT I/O
- 2 x TDIF I/O
- 1 x Word Clock I/O

The ADI-8 DS shows an impressive number of connectors of all kinds, which result in an unbeaten flexibility and compatibility. If you have looked for a flexible, fully professional yet affordable multi-channel converter - here it is!

The ADI-8 DS is an 8-channel AD/DA converter with reference approach. The compact 19" 1U rackmount enclosure includes several outstanding features, like Intelligent Clock Control (ICC), SyncCheck®, SyncAlign®, TDIF/ADAT converter and Bit Splitter. Use of the latest 24 bit converters, with 128 times oversampling, results in 117 dBA true dynamic range. The AD- and DA-circuits automatically operate either independently or linked. All digital inputs and outputs operate at full 24-bit resolution.

The ADI-8 DS' astonishing capabilities are easy to explore thanks to a simple and easy to understand user interface. Setting up the ADI-8 DS starts with an input sensitivity and output level that perfectly suits your needs and maintains the excellent dynamic range of the AD converters. The Input and Output Level option lets you choose between Lo Gain/Hi Gain, +4 dBu, -10 dBV. Each analog input and output has its own 'Signal Present' LED which works in an analog fashion (brighter at higher levels). DS stands for Double Speed, meaning double sample rate. The combination HDSP/ADI-8 DS allows DVD-compatible Hi-End recordings (up to 8-channel recording at 96 kHz), at an astonishingly low price.

RME's Intelligent Clock Control (ICC) provides professional features you won't find anywhere else. First set the clock of the AD-Converter, choose between INTERNAL, EXTERNAL (BNC word clock) or INPUT (the digital input signal ADAT or TDIF). The internal clock can be 44.1/48 kHz or - when DS is active - 88.2 or 96 kHz. The DA-Converter section has the same settings available.

The ADI-8 DS Copy Mode routes the currently selected digital input to the digital outputs ADAT and TDIF simultaneously. This way the unit not only turns into a superior ADAT/TDIF converter, but also allows copying between devices of the same format and a distribution to different devices. For example an ADAT signal can be distributed to 2 ADAT plus 2 TDIF outputs simultaneously.

Features

- 8 channel AD-converter, completely symmetrical and DC-coupled audio path, 117 dBA SNR AD
- 8 channel DA-converter, balanced output, 112 dBA DA
- ADAT optical inputs, 24-bit, based on RME's unsurpassed Bitclock PLL for sample accurate lock
- ADAT optical outputs, 24-bit, fully compatible to all ADAT optical inputs
- TDIF-1 interface, 24-bit, Low Jitter PLL, Emphasis support, DA-88 compatible
- Bit Split/Combine, Copy Mode, ADAT and TDIF usable in all combinations
- Copy Mode adds a unique 24-bit ADAT to/from TDIF converter
- Digital Patchbay operation, allows to copy, duplicate and distribute the digital input signals
- Dither available, for full compatibility to 16-bit even at 96 kHz
- SyncCheck, unique technology to check clock synchronisation
- Virtual Sample Buffer, allows to use the internal Low Jitter Clock (quarz crystal) even for DA-conversion
- Automatic storage of all settings

Specifications

- Input AD: 1/4" TRS jack and 25 pin D-type connector, servo balanced, completely symmetrical DC-coupled audio path
- Output DA: 1/4" TRS jack and 25 pin D-type connector, servo balanced, DC-coupled audio path SNR AD: 117 dB(A)
- Input DA/Output AD: ADAT optical, TDIF-1 (both 24-bit), word clock
- THD AD: < -110 dB (< 0.00032 %)
- THD+N AD: < -104 dB (< 0.00063 %)
- Crosstalk AD: > 130 dB
- SNR DA: 112 dB(A) unmuted
- THD DA: < -104 dB (< 0.00063 %)
- THD+N DA: < -102 dB (< 0.0008 %)
- Crosstalk DA: > 110 dB
- Input/Output level at 0 dBFS @ Hi Gain: +19 dBu
- Input/Output level at 0 dBFS @ +4 dBu: +13 dBu
- Input/Output level at 0 dBFS @ -10 dBV: +2 dBV
- Frequency response AD/DA -0.1 dB: 5 Hz - 21.5 kHz (sf 48 kHz)
- Frequency response AD/DA -0.5 dB: < 5 Hz - 44.8 kHz (sf 96 kHz)
- Power supply: internal, 100 V-240 V AC, 100 V-240 V AC



ADI-8 DS