MADI . MADE by RME

HDSPe MADIface

128-Channel MADI ExpressCard for Mobile Computers

24 Bit/192 kHz . Performance without compromises

Lowest latency . Lowest CPU load

RME

Consisting of the HDSPe ExpressCard MADI and a small breakout box, the MADIface offers full MADI power: *64 channels input and 64 channels output*, up to 192 kHz sample rate, in MADI embedded MIDI transmission*, complete TotalMix that is even remote controllable and has all features of the 'bigger' HDSPe MADI, as well as lowest latency and CPU-load. To make the usage as comfortable as possible, the power for the breakout box is provided directly by the ExpressCard, so no external power supply is required.

The MADIface is fully compatible to all devices with MADI interface. Of course it can be used perfectly in combination with RME's own MADI series products (see examples below). For example with the ADI-648 an 8 x ADAT optical PC interface is realized, unbeatable in price and performance. And with the ADI-6432 a bidirectional AES/EBU frontend with 64 channels is set up hassle-free.

The MADIface offers full support for 56 and 64 channel modes and double and single wire technology (96k frame) for 96 kHz. Full 64 channel support can also be found in the hardware mixer TotalMix. All 64 inputs and 64 playback channels can be routed and mixed to 64 physical outputs completely freely, which translates to an 8192 channel mixer.

With that, RME's MADI interfaces offer the most powerful router/mixer ever implemented on a PCIe card, and allow much more than a usage as pure computer I/O unit:

- MADI optical patchbay and router
- MADI coaxial/optical or vice versa converter and splitter
- MADI redistributor, patchbay and router

TotalMix can be completely remote controlled via MIDI. Furthermore, the hardware delivers RMS and peak level meters for full control over 192 audio channels at minimal CPU load.

Up to 3 MADIfaces and HDSPe Multiface/Digiface can be used simultaneously, in every possible combination. With this up to 192 inputs and 192 outputs are available at 48 kHz, 96 inputs and 96 outputs at 96 kHz. Please note that most laptops have only one PCI Express slot.

RMEs HDSPe ExpressCard MADI is a true PCI Express solution, achieving significant performance gains in multi-track audio and lowest latency. The ExpressCard MADI serves as power supply for the breakout box, freeing you from the hassle of additional wall warts.

Thanks to RME's flash update technology, future firmware improvements, adjustments, and bugfixes can be installed easily at any time.

*The MADIface offers a virtual MIDI port within the driver. Mainly intended for remote controlling further RME devices, it can also be used to send and receive usual MIDI data. The MIDI data are invisibly inserted into and transmitted by the MADI signal. Therefore a physical access is given at the RME interface connected to the MADIface.

Specifications

- **ExpressCard/34 format** (standard 34 mm size)
- **1 Lane PCI Express endpoint device** (no PCI Express to PCI bridge), revision 1.1
- **250 MB/s transfer rate** per direction
- **Secure BIOS Technology:** card stays fully functional even when the flash process fails
- **Output:** IEEE 1394 connector, not compatible to FireWire
- **Input** MADI optical, MADI coaxial (BNC)
- **Output** MADI optical, MADI coaxial (BNC)
- **MIDI input and output:** via virtual MIDI port and MADI transmission
- All settings changeable in real-time
- **Clock modes** slave and master
- Automatic and intelligent master/slave clock control
- **Sync sources:** MADI coaxial, MADI optical, internal
- **Varipitch:** by input signal
- **Sample rates:** 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz, variable (Sync/DDS)
- **Jitter:** < 1 ns, internal and all inputs
- **Jitter sensitivity:** PLL operates even at 100 ns Jitter without problems
- **Comes with DIGICheck:** the ultimate measurement, analysis and test tool
- **No external power supply required**

ADI-648
64-Channel 192 kHz
ADAT to MADI format converter
8 x ADAT I/O

Micstasy
8-Channel 192 kHz
Full Range Preamp & AD converter
Analog . AES/EBU . ADAT . MADI

ADI-8 QSM
8-Channel High-End
192 kHz AD/DA converter
Analog . AES/EBU . ADAT . MADI