

HDSPe MADiface

128-Channel 192 kHz MADi ExpressCard for mobile computers

Connectivity

- 64 Input / 64 Output channels
- 1 x MADi I/O (optical and coaxial)
- No external power supply required



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. For example with the ADI-648 an 8 x ADAT optical 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 an ExpressCard, and can do much more than just providing ins and outs:

- 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.

RME's 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.

For Windows
and Mac OS.

Technologies

MADI Multinorm
MADI Quad Wire
MADI Redundancy
MIDI over MADI
Quick Boot
Intelligent Clock Control
SteadyClock™
SyncCheck™
SyncAlign®

The HDSPe MADiface combines ultimate driver technology with the highest number of audio I/O channels ever implemented in a mobile ExpressCard solution – ready to fit into the DAW application of your choice.

Differences to HDSPe MADi

- No direct Word Clock I/O *
- No direct MIDI I/O **
- No analog monitor output
- TCO cannot be used

* The MADiface (like all RME devices) uses SteadyClock™ to extract the reference clock at lowest jitter directly from the MADi signal, making long-distance connections even more convenient. Although not available at the MADiface itself, Word Clock input and output are available when using another RME MADi device.

** 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
- MIDI input and output: via virtual MIDI port and MADi transmission
- Sync sources: MADi coaxial, MADi optical, internal
- Varipitch: by input signal
- Sample rates: 44.1, 48, 88.2, 96, 176.4, 192 kHz, variable (Sync/DDS)
- Jitter: < 1 ns, internal and all inputs
- Jitter sensitivity: PLL operates even at 100 ns Jitter without problems
- Available drivers: Windows 2000/XP, Vista 32/64 (multi-client operation of ASIO 2.0, WDM, GSIF); MAC OS X Intel from 10.4 (Core Audio / Core MIDI)
- Comes with DIGiCheck: the ultimate measurement, analysis and test tool