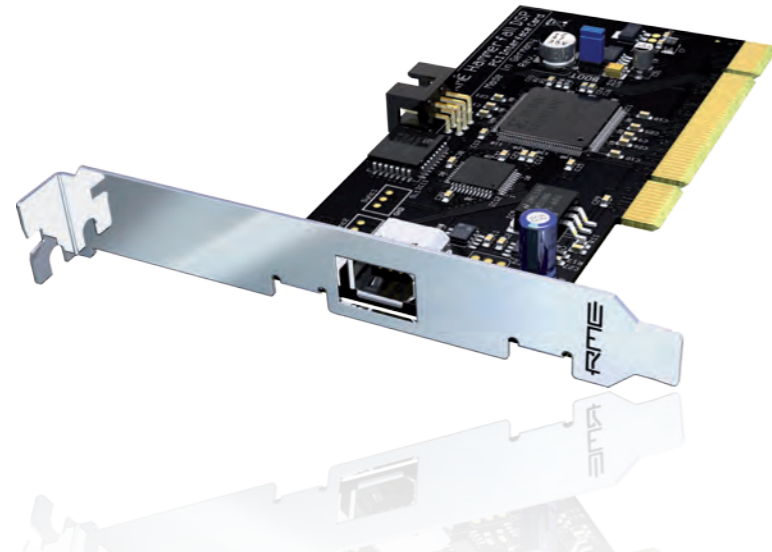


HDSP PCI Card

PCI interface for desktop computers



In the year 2001 RME started a revolution in mobile audio recording: the HDSP System, consisting of a PCI or CardBus card plus an external I/O-box has been the world's first audio system, operating at both desktop and laptop. And the world's first professional multitrack system for notebooks at all. Today we are proud to look back and conclude: the HDSP system has become a true 'industry standard'. Thanks to continuing firmware and driver updates it stayed a cutting-edge product, still offers un-beaten performance, and still enjoys great popularity among the users.

Based on the legendary Hammerfall PCI core with its innovative zero CPU load technology, the RME PCI core developed for Digiface, Multiface and RPM is optimized for even higher performance. Thanks to the latest chip technology, internal hi-speed RAM can be used faster and more efficient than external SRAM.

The PCI engine of the Hammerfall DSP System is built on a Zero wait state PCI Busmaster core. With up to 130 MB/s transfer rate in both directions the maximum performance available on the 32 bit PCI bus is used. Additionally the card offers highest compatibility by being 100% Plug & Play compatible under Windows and Mac OS, and being able to share interrupts. The card itself will only use one interrupt (IRQ) for all functions (audio/MIDI).

The connection between PCI card and I/O box is established using ordinary FireWire cable (IEEE 1394, 6-pin). The data transfer does not use FireWire protocol, but RME's own bus protocol. The supplied cable is 4 m (12 ft.) in length. The PCI card operates as power supply for the attached I/O-box.

Features PCI and CardBus Card

- Hammerfall hardware design: organized in 32 bit ASIO double buffers, data transmission rates up to 130 MByte/sec
- ASIO in hardware! 0 (zero!)% CPU load even with all channels active
- Automatic hardware self test at power up
- Hardware update via software (virtual EPROM update)
- Secure BIOS Technology - prevents the card from becoming unusable should the flash process fail
- Complete interrupt sharing
- State-of-the-art PC and Mac drivers, constantly updated, also for Win and Mac 64 bit operating systems



HDSP PCI Card

HDSP CardBus Card

Cardbus interface for mobile computers



Connection of

- Multiface
- Multiface II
- Digiface
- RPM

HDSP PCI Card and CardBus are still **simply the best interfaces** for professional audio-outperforming other interface techniques that often cannot deliver the required bandwidth nor the desired compatibility.

RME HDSP System: No other manufacturer offers such a **flexible, robust, performing and expandable** solution.

Thanks to ever-increasing CPU power, hard disk capacity and speed, today's high performance laptop computers can meet virtually any challenge presented by even the most demanding audio recording and processing applications. But, the overall performance depends largely on the audio interface used. RME's Hammerfall DSP System has been the world's first PCI-based high performance mobile audio system. Even FireWire 400 or USB 2.0 -based interfaces can neither deliver the same bandwidth nor the desired compatibility.

For the HDSP System RME has developed a worldwide exclusive PCMCIA type II card with Zero Waitstate CardBus Busmaster technology. With up to 130 MB/s transfer rate both ways it can provide the same performance on a notebook as a PCI-card would offer on a desktop computer. This is partly down to perfect Plug & Play compatibility on Windows and MacOS based portable computers, and interrupt sharing capability that uses only one interrupt (IRQ) for all audio and MIDI functions.

As the CardBus card does not provide power to the attached I/O-box, it comes with a compact professional switching power supply. A car battery cable is also included for additional mobile applications.

Specifications HDSP PCI Card / CardBus Card

- PCI Card: Short PCI 2.0 compliant PCI-card (32 bit, PCI-X compatible)
- CardBus Card: PCMCIA type II, 32 bit CardBus card
- Zero Waitstate PCI Busmaster interface (130 MB/s transfer rate both ways)
- Output: IEEE 1394 connector (RME protocol)



HDSP CardBus Card