

Overview

Models

HP IEEE 1394b FireWire PCIe Card

NK653AA

Introduction

This high speed serial interface enables fast data transfer from external peripherals such as external hard disks, digital cameras and video cameras. Twice the transfer rate of IEEE-1394a cards, it features two external ports and one internal header. IEEE-1394b is one of the fastest serial interface standards ever developed which makes it great for use with high-speed or bandwidth-intensive multimedia peripherals such as digital video cameras, audio, streaming and graphics.

The HP IEEE-1394b FireWire 800 PCIe Card is backward compatible to allow your IEEE-1394a devices to operate under the IEEE-1394b port with the use of a 1394a-to-1394b adapter cable.

The PCIe card features two external IEEE-1394b ports located on the PCIe card bracket and one internal port header located on the PCIe card to connect to front panel 1394a port on HP Workstations. All a customer needs is an open PCIe slot, this PCIe card and the driver on the supplied CD for the card to function at 800 Mb/s.

Performance

The HP IEEE 1394b FireWire PCIe Card performs with data rates of up to 800 Mb/s.

NOTE: Actual performance will be lower based on protocol overhead and the peripherals attached.

Key Benefits

Data transfer between digital electronic devices that support the IEEE-1394b standard.

- IEEE-1394b protocol reduces delays in arbitration and signal distortion, and increases throughput
- Extending the cabling distance between devices up to 100 meters
- Hot-swappable: Devices can be added and removed while the bus is active
- Backwards compatible with adapter cables allowing IEEE-1394a devices to operate
- Isochronous data delivery: no dropped frames - IEEE-1394b supports real-time data delivery
- Flexible: up to 63 devices can be connected on a single bus

NOTE: IEEE-1394a devices connected to the HP IEEE-1394b FireWire PCIe card will only run at the lower 1394a data rate. For a list of IEEE-1394 compliant devices visit the IEEE-1394 Web site at: <http://www.1394ta.org>.

Overview

Compatibility

The HP IEEE-1394b FireWire PCIe Card is compatible with the HP Z210 CMT and SFF, Z400, Z420, Z600, Z620, Z800, Z820 and xw9400 workstations.

- The HP Z400 and Z600 Workstation front panels have an integrated 1394a port and cable assembly, ready for connecting to the internal header connector on the HP IEEE 1394b FireWire PCIe Card.
 - The HP Z800 and xw9400 Workstations are configured at the factory with a functional front panel IEEE-1394a port, therefore the 1394 header on the HP IEEE 1394b FireWire PCIe Card is not used.
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Service and Support

The HP IEEE-1394b FireWire PCIe Card has a one-year Limited Warranty or the remainder of the warranty of the HP supported product in which it is installed. Technical support is available seven days a week, 24 hours a day, by phone, as well as online support forums. Certain restrictions and exclusions apply.

Technical Specifications

Data Transfer Rate	Supports up to 800 Mb/s
Devices Supported	IEEE-1394 compliant devices
Bus Type	PCIe card full height PCIe slots
Ports	Two IEEE-1394b external 9-Pin connectors (Rear)
Internal Connectors	One 10-Pin header connector
System Requirements	Windows 7 Professional 32-bit and 64-bit, Microsoft® Windows® XP Professional, Windows XP Home, Windows Vista, SLED 11 and RHEL 6. Intel Pentium® G series or higher processor, 128-MB RAM, 1-GB Hard Drive, CD-ROM drive, built in sound system, Available PCIe slot.
Temperature - Operating	50° to 131° F (10° to 55° C)
Temperature - Storage	-22° to 140° F (-30° to 60° C)
Relative Humidity - Operating	20% to 80%
Compliances	FCC Part 15B, cULus 60950, CE Mark EN55022B(1995)/EN55024-1998 STD, Taiwan BSMI CNS13438, Korea MIC
Operating Systems Supported	Windows 7 Professional 32-bit and 64-bit, Windows Vista® Business 32-bit and 64-bit, Windows® XP Professional, XP Professional 64-bit, RHEL 6 and SLED 11.

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