

FireLink

PCI-to-USB Bridge Enhancing PCI Designs and Add-in Card Applications

Product Highlights

Standards Compliance

- OpenHCI
- USB Specification Revision 1.1
- PCI Specification Revision 2.1

Connectivity Features

- Two USB ports
- Tiered star hub interconnect topology
- Supports up to 127 peripherals
- Independent power control and signal wires for both ports
- 1.5 Mbit/sec and 12 Mbit/sec data transmission
- Peripheral hot swapping
- Automatic system configuration

Power Features

- Selectable operating voltages at 3.3V and 5V
- Power-off capability for the USB I/O cells
- Suspendable or stoppable USB and PCI clocks
- CLKRUN# pin for clock throttling in low power applications

Operating Systems

- Windows 98
- Windows NT 5.0
- Windows CE
- Windows 95 OSR2.1.2 with USB supplement

Chip Packaging

- 100-pin PQFP pin compatible with CMD 0670
- 100-pin LQFP pin compatible with CMD 0673



Building Innovative IC Solutions



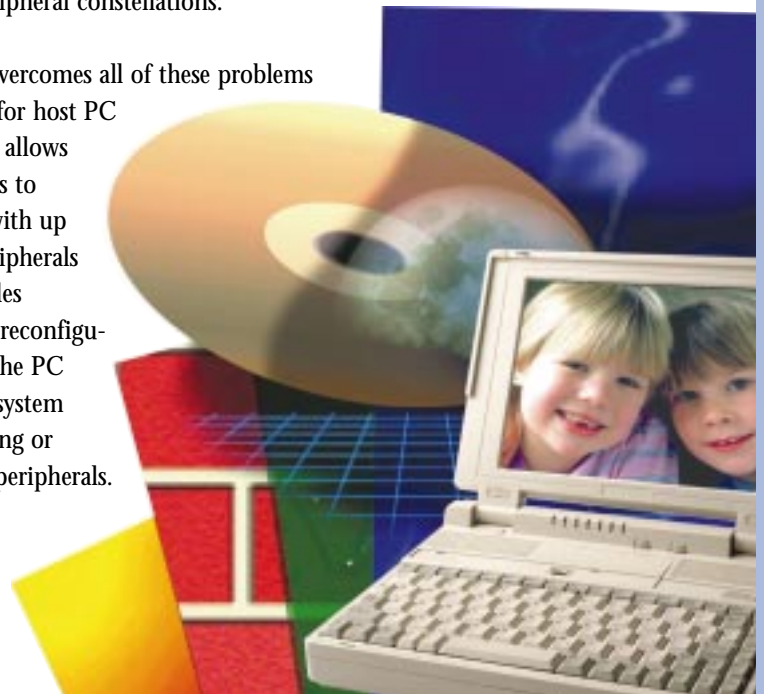
The OPTi FireLink stand-alone USB controller brings new marketing opportunities for existing OEM computer designs. As a

PCI-to-USB bridge, FireLink both enhances the utility of existing PCI computer designs and offers upgrade opportunities for the CardBus and PCI add-in card market. Incorporating FireLink capabilities into PCI and CardBus systems greatly increases the bandwidth of PC to peripheral communications, multiplies the number of available peripheral ports, provides automatic system configuration and supports hot insertion for device connection.

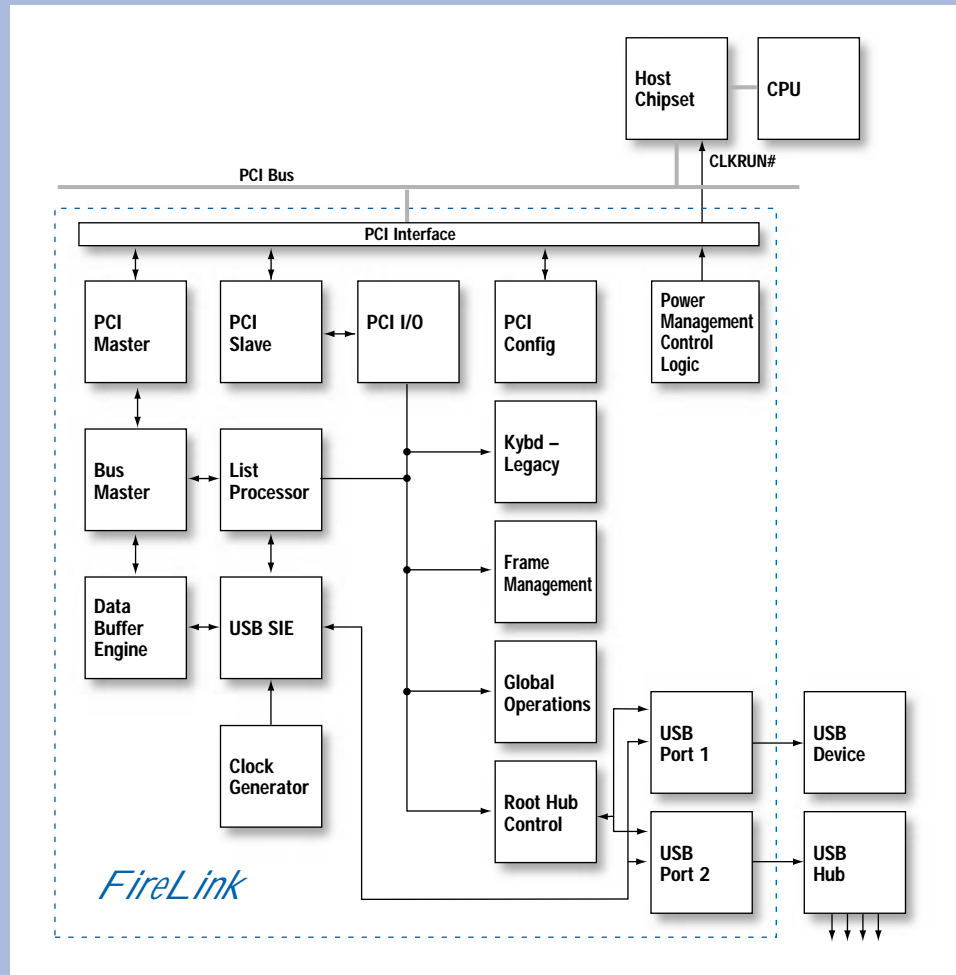
FireLink integrates smoothly into existing PCI computer designs because it complies fully with the PCI 2.1 and OpenHCI standards. PCI motherboards can be updated with USB by adding the small footprint, 100-pin FireLink chip. Desktop computer systems can be revitalized by installing a FireLink PCI card. Portable systems can be rejuvenated by inserting a FireLink CardBus Card into a PC slot. Compliance with OpenHCI insures optimal FireLink operation by relying on the existing USB drivers that are integral parts of Windows 98 and Windows NT 5.0.

Without USB capability, standard PC designs suffer from a number of significant shortcomings: they contain bottlenecks that impose a low limit on data transmission rates through cable modems and ISDN phone lines, they have few peripheral ports and they are difficult to re-configure when modifying system peripheral constellations.

FireLink overcomes all of these problems and more for host PC systems. It allows PC systems to interface with up to 127 peripherals and provides automatic reconfiguration by the PC operating system when adding or removing peripherals.



FireLink



About OPTi

OPTi's focus is on building innovative ASIC solutions for the technology of today and for the future. Our chipset solutions for the PC and consumer electronics markets include mobile, docking, USB, graphics, LCD control, and our embedded chipset program. OPTi's Aviva group provides IC design and implementation services to the semiconductor industry.



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