initio®

INIC™-1430

INITIO ICS

FEATURES

- Provides an ideal interconnect for multimedia applications
- Allows the development of true plug-and-play solutions
- Supports UDMA 100 for high speed data transfers
- Ideal for 1394 RAID configurations
- Integrated microprocessor

"*Applications that benefit from IEEE 1394 include nonlinear (digital) video presentation and editing, desktop and commercial publishing, document imaging, home multimedia, and personal computing. The low overhead, high data rates of 1394, the ability to mix real-time and asynchronous data on a single connection, and the ability to mix low speed and high speed devices on the same network provides a truly universal connection for almost any consumer, computer, or peripheral application.*"

The Initio INIC-1430 is a third generation UDMA 100 ATA-to-1394a bridge controller that provides a solution to connect ATAPI or ATA devices to IEEE-1394a-2000 interfaces. It is designed to accelerate the time-to-market for 1394 capable peripheral devices by integrating an already proven 1394a-2000 core and microprocessor with the necessary IDE interface into a single ASIC. The SBP-2 (Serial Bus Protocol) compliant firmware is stored in an external ROM (Flash). Supporting data transfers of up to 400 Mb/sec., the INIC-1430 IDE interface supports Ultra DMA (100/66/33) modes making it feasible to be used in many 1394 applications.

The INIC-1430, in conjunction with an external PHY provides a cost effective solution to attach ATA/ATAPI devices such as HDD's and CD/DVD devices to the 1394 bus. The firmware extracts ATA, MMC-2/3 and RBC command sets from the SBP-2 transport layer and passes them to the ATA devices. The multiple transmit and receive FIFOs of the DMA channels allow the INIC-1430 to handle transfers of asynchronous data .

Expandable, easy-to-use and cost-effective, the INIC-1430 gives customers the ability to meet the challenges of developing markets in new and exciting ways.

INIC-1430

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ATA/ATAPI IDE TO 1394
BRIDGE CONTROLLER SOLUTION

FEATURES:

- Performs 1394a-2000 Cycle Master
- Supports Asynchronous Transfers at 100, 200 and 400 Mb/sec
- Ultra DMA modes 2, 4, 5 (100/66/33), DMA mode 0-2
- Support SBP-2 and ATA/ATAPI, RBC & MMC-2/3 command sets
- Supports Industry Standard PHY
- Integrated microprocessor with embedded SRAM
- Separate command in, Command out and Page table buffers for optimum performance
- 128-pin LQFP package
- 1394-1995, and 1394a-2000 compliant

FIRMWARE SUPPORT:

The INIC-1430 firmware will support many device protocols including MMC-2/3, RBC, ATA/ATAPI. To expedite time-to-market and facilitate firmware development an eval-kit will be provided to qualified customers. The kit includes an INIC-1430 test board and the appropriate firmware development environment.
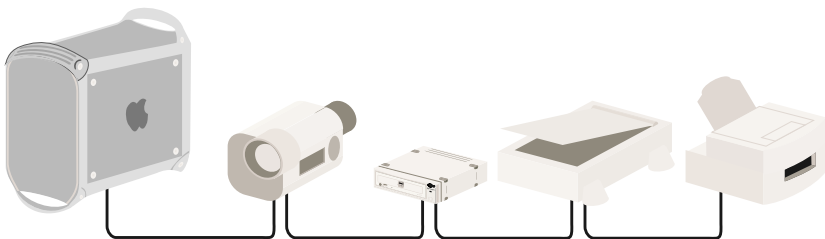
DEVICE SUPPORT:

INIC-1430 supports peak data transfer rates of 400 Mb/sec– which is sufficient for effective integration of a number of peripheral devices targeted for use in a professional desktop computing environment. The current architecture satisfies the bandwidth and Plug 'n' Play requirements for seamless integration of devices such as:

- Hard disk drives
- CD-RW devices
- DVDs
- Removable Media

IEEE 1394, the A/V Digital Interface of Choice
The outstanding growth potential of IEEE1394 is a product of the standard's high performance and seamless compatibility.

Customized to your exact specifications.
By working closely with our customers, we can provide the right design solution for each particular need.

Come Together.
Using 1394 allows up to 63 devices to be linked together without many of the rules and limitations of competing technologies.

i.Link

FireWire

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