



INIC-1530

1394a / USB 2.0

Bridge Controller

The Initio INIC-1530 is a fourth generation UDMA 100 ATA-to-USB 2.0-1394a bridge controller that provides a solution to connect ATAPI or ATA devices to USB 2.0 and IEEE-1394a-2000 interfaces. It is designed to accelerate the time-to market for 1394a / USB 2.0 capable peripheral devices by integrating an already proven 1394a-2000 core with a USB 2.0 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 480Mbits/sec., the INIC-1530 IDE interface supports UltraDMA (100/66/33) modes making it feasible to be used in many USB 2.0/1394 applications.

The INIC-1530 integrates a High Speed USB 2.0 core that will support both USB 1.1 as well as USB 2.0 480Mbit connectivity. This coupled with the 1394a core provides a cost effective high performance connectivity solution.

Features

- Integrated USB 2.0 core
- Integrated 1394a core
- Integrated microprocessor
- Support for 48 bit LBA for large capacity array
- Full support for HID Button control features
- Provides an ideal interconnect for multimedia applications
- Allows the development of true plug-and-play solutions.
- Supports UDMA100/66/33
- Supports Industry Standard 1394a PHY
- Performs 1394a-2000 Cycle Master
- 128-pin LQFP package
- 1394-1995 and 1394a-2000 Compliant

Firmware Support

The INIC-1530 firmware will support many device protocols including MMC-2/3, RBC and 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-1530 test board and the appropriate firmware development environment.



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Device Support

INIC-1530 supports peak data transfer rates of 480Mbits per second in USB 2.0 mode and 400Mbits in 1394a mode 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/DVD Devices
- Tape Drives
- Removable Media

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