



USB2.0 to PATA Bridge

Overview

The INIC-1510 provides an advanced solution to connect ATAPI or EIDE devices to USB interface with integrated CPU and embedded SRAM. To provide high performance and cost effective solution, the INIC-1510 integrates USB-PHY, Mass Storage Class Bulk-Only USB function, ATA control block and microprocessor into a single ASIC. The INIC-1510 provides the data transfer rate of up to 60 MB/sec; its ATA interface supports ultra DMA modes up to 100 MB/sec.

Feature Summary

- USB Mass Storage Class Bulk-Only specification-compliant (version 1.0)
- Two Bulk endpoints(IN and OUT) and one Interrupt endpoint(IN)
- T13 1410D ATA/ATAPI-6 Compliant(3.3 V with 5V tolerance)

- Support DMA mode 0-2, and UDMA mode 2, 3, 4 and 5 (up to 100MB/s)
- Integrated internal CPU with embedded SRAM
- Implement the firmware download mechanism
- Low power CMOS with 3.3Volts
- 64-pin LQFP package

Firmware/Software Support

- USB Mass Storage Class Bulk-Only Transport support
- Provide software utilities for downloading the upgraded firmware code

Devices Support

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

Block Diagram

