

## This part is not recommended for new designs Use CY7C68300B EZ-USB AT2LP™ USB2.0 to ATA/ATAPI Bridge for new designs

## CY7C68300A

### 1.0 Features

- Complies with USB-IF specifications for USB 2.0, the USB Mass Storage Class, and the USB Mass Storage Class Bulk-Only Transport Specification
- Operates at high (480-Mbps) or full (12-Mbps) speed
- Complies with T13's ATA/ATAPI-6 Draft Specification
- Supports 48-bit addressing for large hard drives
- Supports PIO modes 0, 3, 4, and UDMA modes 2, 4
- Uses one external serial EEPROM containing the USB device serial number, vendor and product identification data, and device configuration data
- ATA interface IRQ signal support
- Support for a single ATA/ATAPI device configured either as master or slave

# EZ-USB AT2™ USB 2.0 To ATA/ATAPI Bridge

- "ATA-Enable" input signal, which three-states all signals on the ATA interface in order to allow sharing of the bus with another controller (e.g., an IEEE-1394 to ATA bridge chip)
- Support for board-level manufacturing test via USB interface
- · 3.3V operation for self-powered devices
- 56-pin SSOP and 56-pin QFN packages

### 2.0 Introduction

The CY7C68300A implements a fixed-function bridge between one USB port and one ATA- or ATAPI-based mass storage device port. This bridge adheres to the *Mass Storage Class Bulk-Only Transport Specification* and is intended for self-powered devices.

The USB port of the CY7C68300A is connected to a host computer directly or via the downstream port of a USB hub. Host software issues commands and data to the CY7C68300A



#### Figure 1-1. Block Diagram

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