CY4611B - USB 2.0 USB to ATA Reference Design

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Last Updated 2 Sep, 2005

Application/Market: PC Peripherals

CY4611B   - USB 2.0 USB to ATA Reference Design

Updated to rev 2.5 on 9/1/2005. Now with Cypress's new EZ   - USB FX2LP device enabling bus   - powered operation and improved support for removable devices.

This reference design features the new EZ   - USB FX2LP(TM) which enables bus   - powered mass storage applications that take advantage of the high bandwidth capability of USB 2.0. This design supports ATA (Advanced Technology Attachment) specification modes through UDMA   - 100 for the highest performance USB mass storage solution available. The General Programmable Interface (GPIF) of the FX2LP allows glueless connection to the attached drive.
This design provides all the materials necessary for production with the most flexible, highest   - performance solution available.

Supported Interfaces: USB to ATA

- ?   IDE (Integrated Drive Electronics): 3.5" and 2.5" hard drives, Compact Flash and micro   - drives.
- ?   ATAPI: CD   - ROM/R/RW, DVD   - ROM/RAM/RW, ZIP, LS   - 120, and other ATAPI devices

Key Features

- ?   Single   - chip bus   - powered interface to any mass storage device
- ?   Support for PIO and UDMA modes through UDMA Mode 5 (UDMA   - 100)
- ?   High transfer rate that is limited only by USB 2.0 bandwidth
- ?   Field - upgradable firmware
- ?   Large internal RAM that allows data buffer and quad   - buffer bulk endpoints
- ?   Support for Windows and Mac OS class drivers
- ?   Windows 98 driver
- ?   Shorter development time with complete reference design kit

Looking for drivers? Check here for:

- ?   Windows driver
- ?   Mac OS 9 driver
- ?   Mac OS X driver
- ?   DOS driver: We have EHCI and mass storage support available for DOS. Please contact your sales representative or field applications engineer to get it.

Hardware Description:

The reference design kit includes:

1. EZ - USB FX2LP Mass Storage Reference Design Board
2. USB, UDMA, and Y" power adapter cables
3. CD - ROM   - Software

- a. Firmware source and object code
- b. Manufacturing Tools
- c. License Agreement

4. CD - ROM   - Documentation

- a. Reference design board schematic, BOM
- b. USB to ATA Reference Design Errata
- c. USB to ATA Reference Design Board Operating Instructions
- d. USB to ATA Reference Design Notes

Item ID:	RD1058
Related Products:	USB High - Speed Peripherals
Related Part Numbers:	CY7C68016A , CY7C68015A , CY7C68014A , CY7C68013A
Related Applications:	Mass Storage , Docking Station

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PACKAGING

Overview

In - House Packaging Process Capability

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