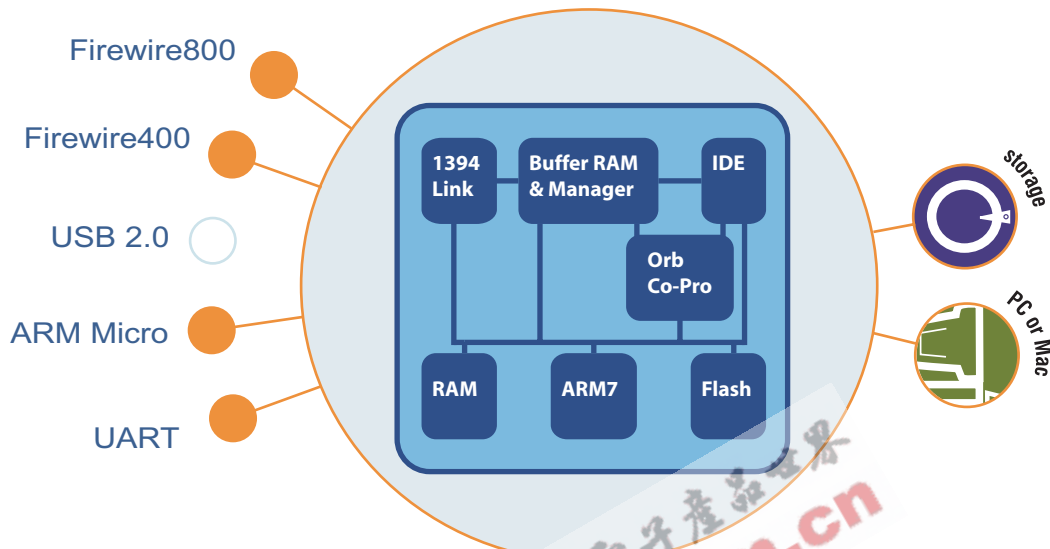


OXFW912

1394B-to-ATA7/ATAPI Bridge



The **Oxford 912** is the latest generation 1394B (Firewire800) to ATA7/ATAPI (IDE) bridge. It supports all PIO, DMA and UDMA modes up to UDMA6, delivering a sustained data transfer performance of over 88MBytes/sec. Hardware features include SBP2.0 acceleration with 'fast start', in addition to dual disk striping and transparent spanning capabilities, all designed to achieve maximum data throughput on Firewire800.

Key features

Sustained transfer rate over 80MB/s with integrated hardware striping

ATA7 supporting modes up to UDMA6

Integrated 32-bit ARM processor

64KByte on-chip flash memory

Handles 2 IDE devices simultaneously

Ideal for Video Editing, DVD players and data Backup

Highest performance, with flexible support for ATAPI and Compact Flash solutions

Industry renowned ARM7TDMI, with plenty of spare MIPS for product specific software

Field upgradable firmware
Simplified production programming over 1394

Enables Combo Drives and Convergent products

Connectivity for consumer electronics

www.oxsemi.com

OXFW912

1394B-to-ATA7/ATAPI Bridge



1394B, FireWire800

Available on MAC and PC platforms, 1394 is now the industry standard digital video connectivity port.

Embedded ARM processor

Managing the data flow through the FW912, the on-chip ARM7TDMI enables whole new series of standalone consumer electronic products to be developed in a simple C/C++ programming environment.

The FW912 uses extensive on-chip hardware accelerators to reduce asynchronous processor interrupts and so dramatically improve data transfer rates.

UDMA6 IDE interface

The FW912 IDE controller complies with ATA7 and has software configurability which, when combined with optimised ARM code based on many years experience, assures compatibility with magnetic, optical and compact flash media.

Hardware support is also provided for dual drives. This, when combined with integrated hardware striping, allows the speed of two drives to be harnessed to create one virtual drive of almost twice the speed. With today's hard drive technology, this is the only sure way of taking full advantage of Firewire800's 800Mbit/sec bandwidth. This feature also allows the two drives to appear as one higher capacity drive.

Development tools and custom solutions

For external MAC and PC storage solutions, Oxford Semiconductor offers a selection of reference designs, development code, drivers, and evaluation kits. Comprehensive application notes shorten learning curves and simplify implementation.

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