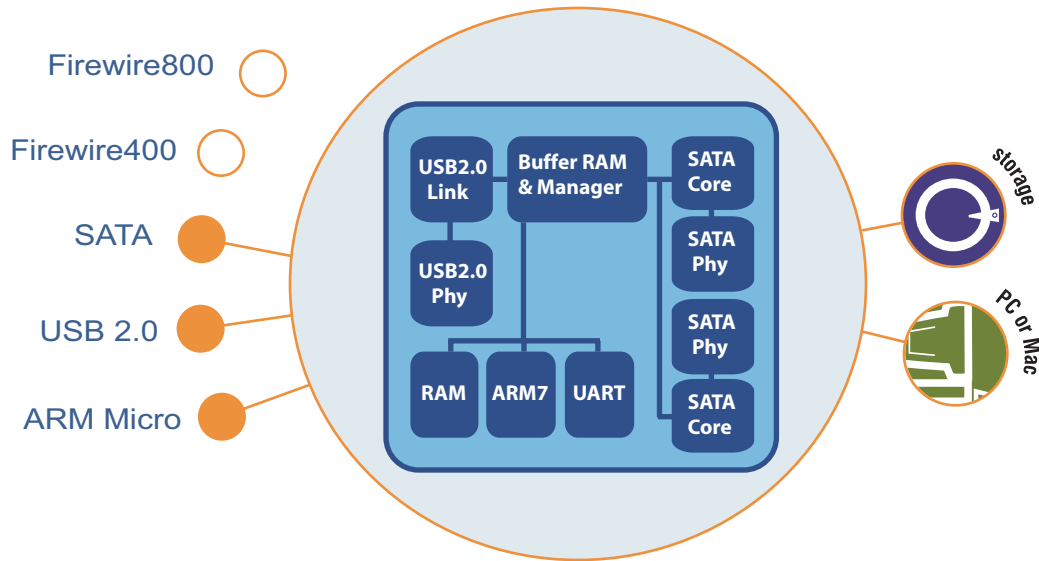


OXU921DS

USB2.0 to Dual SATA Bridge



The **Oxford OXU921DS** is a complete solution for bridging between SATA disks and USB2.0. The chip is used for creating external storage solutions which connect to a PC or Apple Mac via the USB2.0 port. The OXU921DS contains a full USB2.0 link and Phy minimising external components.

Key features

Integrated Dual SATA core & Phys operating at 1.5Ghz with 150Mbytes/s data rates

Dual SATA allows connection of 1 or 2 SATA drives with hardware striping, spanning and mirroring for ultimate performance. Alternatively, one SATA port can be configured as an input enabling eSATA to SATA.

Supports SATA II port multiplier specification

Comes complete with field upgradable firmware that supports USB mass storage protocol (supported as standard by Windows and Apple Mac)

Industry renowned ARM7, with plenty of spare MIPs allowing customers to differentiate in product software

Integrated 480Mbps USB2.0 link & Phy

Integral close coupled 8kbyte uP RAM

18Kbyte RAM USB data cache

12 GPIOs allow easy product customisation

176 pin BGA

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USB2.0

The OXU921DS supports both Full and High-Speed USB modes. It's high performance FIFO manager together with high speed architecture exceed the throughput capability of today's PCs, ensuring it keeps pace as they continue to increase in speed.

SATA Interface

The SATA interface allows external storage products to follow the current transition of hard disk drives from Parallel ATA to Serial ATA.

RAID

The chip supports several RAID functions.

Striping, allows two SATA disks to appear as a single higher speed disk, by sharing the load between the two disks.

Mirroring, writes the same data to both disks, so that data may be recovered in the event of one drive failing

Spanning, allows two drives to appear as one to the host machine

Embedded ARM processor

The on-chip ARM7TDMI enables product differentiation by giving customers the option to develop custom software features using the development kit. The firmware is field upgradable, allowing products to be updated with the latest software. Software development is carried out in a C/C++ programming environment.

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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