

OXU931SF, Hi-Speed USB 2.0 to SATA Controller

Highlights

- **General Features**
 - High performance SATA storage controller with external flash support
- **Key Features**
 - Integrated SATA core and PHY
 - Integrated 480Mbps USB2.0 high speed core and PHY
 - Integrated program ROM
 - I2C interface for optional EEPROM
 - Internal 3.3V to 1.8V regulator
 - Single crystal operation
 - Support for USB Human Interface Device
 - Support for button push apps
 - Support for ATA HDD and ATAPI
 - 8 GPIO for easy product customization

The OXU931SF is a single chip solution for bridging between USB2.0 and hard disks. Optimized for performance and low cost of ownership, the OXU931SF is ideal for creating external storage devices which connect to a PC or Mac via the USB2.0 port.

The integrated ARM7 and external flash enable the development of customized solutions to exactly match the customers' requirements.

Because it requires minimal external components and offers an integrated USB2.0 PHY and SATA PHY, the OXU931SF enables designers to create products with a low bill-of-material.

USB2.0

The embedded USB2.0 PHY supports both full and high speed, using bulk-only transport Mass Storage Class device protocol. Its fast read and write transfers ensure that the maximum possible host performance is maintained.

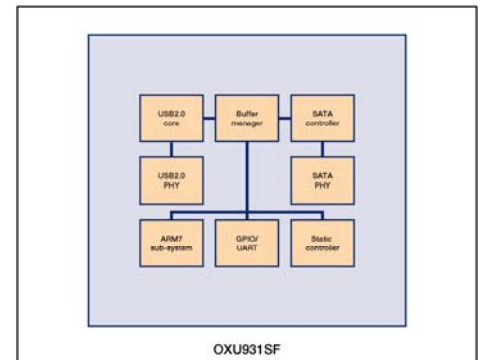
No additional USB host drivers are required, for either Windows® or Mac® operating systems, for standard storage, button notification or GPIO control applications.

SATA Interface

The SATA host port with embedded PHY and controller supports the latest revisions of the SATA II specifications and supports interface speeds of 1.5GHz deliver maximum performance with minimum latency for single disk USB external storage.

Development Support

For external MAC and PC storage solutions, Oxford Semiconductor offers a selection of reference designs, development code, drivers, and evaluation kits.



Product Ordering Information

| Part Number | Description |
|---------------|---|
| OXU931SF-LQBG | Hi-Speed USB 2.0 to SATA controller with external flash support |

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