

OXU931S, Hi-Speed USB 2.0 to SATA Controller

Highlights

■ General Features

- High performance dual SATA storage controller

■ 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 for single chip solution
- Single crystal operation
- Support for USB Human Interface Device (HID)
- 2 LED control pins
- Support for button push apps

The OXU931S is a single chip solution for bridging between USB2.0 and hard disks. Optimized for performance and low cost of ownership, the OXU931S is ideal for creating external storage devices which connect to a PC or Mac via the USB2.0 port.

Because it requires no external memory and offers an integrated USB2.0 PHY and SATA PHY, the OXU931S enables designers to create products with a minimal number of external components.

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
OXU931S-MLCG	Hi-Speed USB 2.0 to SATA controller

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