

## OXUF943SE, FireWire 800 or USB 2.0 to SATA Controller with Encryption

### Encryption

The integrated hardware cipher engine supports real-time, on-the-fly encryption / decryption of the data to the Advanced Encryption Standard (AES), providing a means whereby a users' data can be securely stored, and made unavailable to unauthorized users.

The cipher engine can be configured for the following AES algorithms:

- ECB – Electronic Code Book
  - Simplest implementation of the AES algorithm
  - Fully NIST / FIPS140-2 approved algorithm
- CBC – Cipher Block Chaining
  - Feeds forward encrypted data to produce a stronger cipher-text result than ECB
  - Fully NIST / FIPS140-2 approved algorithm
- XTS – XEX-based Tweaked CodeBook with CipherText Stealing
  - Variant of AES developed for protecting data at rest, also known as IEEE P1619

In addition to a high-performance cipher engine, the OXUF943SE is complemented by robust authentication solutions, including software password. A customizable host application, the PLX Technology Authenticator, is provided for both PCs and Mac hosts to:

- Define and manage up to 10 passwords
- Authenticate and mount the drive
- Safely de-authenticate and un-mount the drive

### Development Support

For external Mac and PC storage solutions, PLX Technology offers a comprehensive support package including:

- Reference designs comprising both hardware and software components
- Evaluation boards with pre-built application firmware
- Software Development Kit (SDK) comprising source code and debug boards
- Extensive range of application notes to shorten learning curves and simplify implementation

### Product Ordering Information

Part Number	Description
OXUF943SE-LQCG	FireWire 800, USB 2.0 to SATA controller with Encryption

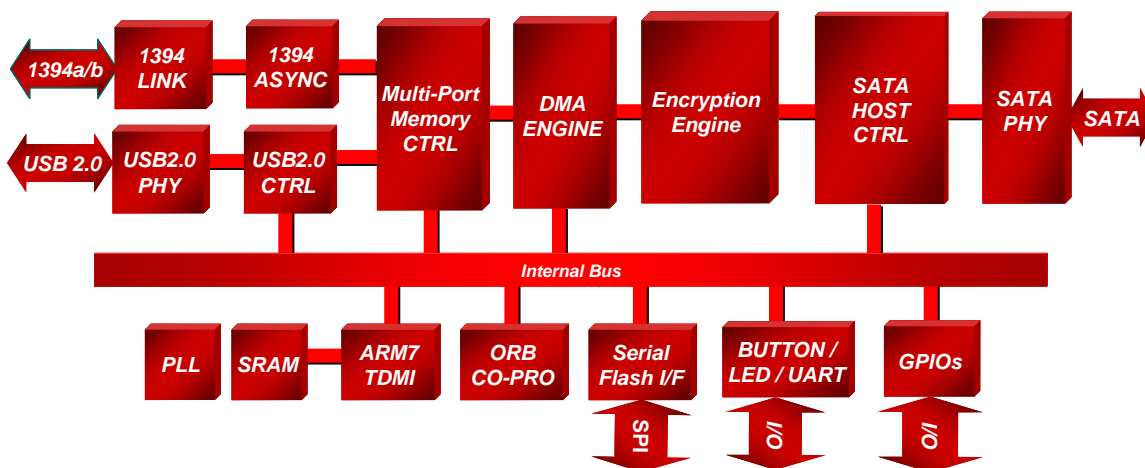
### Product Documentation

<http://www.plxtech.com/OXUF943SE>

PLX Technology, Inc. All rights reserved. PLX and the PLX logo are trademarks of PLX Technology, Inc. All other product names that appear in this material are for identification purposes only and are acknowledged to be trademarks or registered trademarks of their respective companies. Information supplied by PLX is believed to be accurate and reliable, but PLX assumes no responsibility for any errors that may appear in this material. PLX reserves the right, without notice, to make changes in product design or specification.

Visit [www.plxtech.com](http://www.plxtech.com) for more information.

### Block Diagram



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Broadcom Limited:

[OXUF943SE-LQAG](#) [OXUF943SE-LQCG](#)