

PRODUCT SELECTOR GUIDE - STORAGE



Description:

The OXU931 family offers a single chip solution for USB2.0 to SATA bridging, and is optimized for entry-level external storage applications. OXU931 integration ranges from a USB2.0 device and a SATA host controller in the 931S to flash support in the 931SF, to dual SATA host controllers in the 931DS and an 128-AES hardware encryption engine in the 931SF.

The OXUF934 family is optimized for high performance FireWire800, FireWire400, USB2.0, and eSATA to SATA bridging, delivering industry leading performance across all interfaces. The OXUF934 integrates a FireWire link, USB2.0 device and SATA host controller into a single chip solution.

The OXUF936 family offers Universal Interface (eSATA, FireWire800, FireWire400, USB2.0) to dual or quad SATA bridging with integrated hardware RAID engine and integrated hardware encryption engine on DSE and QSE versions, while delivering best-in-class performance across all interfaces.

The OXE810 family is designed for consumer network-attached storage (NAS) applications and is the successor to the OXE800 family. It delivers a wide array of consumer specific applications such as media server and automatic backup combined with easy-to-use software making it ideal for mainstream consumers who need to store and share their digital information.

Key Product Features:

OXU931

- High performance USB2.0 to SATA storage controller
- USB mass-storage class compliant
- Integrated USB2.0 core and PHY
- Integrated SATA core and PHY
- Auto-power management

OXU931S

- Integrated masked ROM
- Support for ATA HDD

OXU931SF

- Support for external flash
- Support for ATA & ATAPI HDD
- Arm processor enables customization

OXU931SE

- High performance AES-128 encryption engine
- Arm processor enables customization

OXU931DS

- Dual SATA (SATA / eSATA)
- RAID 0 support
- SATA II compliant
- Arm processor enables customization

OXU934

- High performance USB2.0 to SATA storage controller
- SATA II compliant
- USB mass-storage class compliant
- Integrated USB2.0 core and PHY
- Integrated SATA core and PHY
- Support for ATA & ATAPI HDD
- Auto-power management
- ARM processor enabling product differentiation

OXU934SSA

- FireWire 400 support
- Single SATA bridge

OXU934DSA

- FireWire 400 support
- Dual SATA (SATA / eSATA)
- RAID 0 support

OXU934DSB

- FireWire 800 support
- Dual SATA (SATA / eSATA)
- RAID 0 support

OXU936

- High performance USB2.0 to SATA storage controller
- SATA II compliant
- USB mass-storage class compliant
- Integrated USB2.0 core and PHY
- Integrated SATA core and PHY
- Support for USB HID
- Integrated PWMS
- ARM processor enabling product differentiation

OXU936DS

- FireWire 400/800 support
- Dual SATA RAID 0 or 1

OXU936DSE

- FireWire 400/800 support
- Dual SATA RAID 0 or 1
- High performance AES-128 encryption engine

OXU936QSE

- Quad SATA RAID 0,3,5,10
- Hot Spare
- FireWire 400/800 support
- High performance AES-128 encryption engine

OXU810

- Expandable via PCI SATA bridge chips
 - Multiple modes of access
 - Integrated 10/100/1000 Ethernet MAC
 - MII and GMII support
 - IEEE 802.11 Wi-Fi (via PCI interface)
 - USB 2.0 high speed & USB 1.1 full-speed host controllers
 - 367 MHz ARM926EJ-S processor
 - TSO (TCP/IP segmentation offload)
 - Supports multiple software architectures
 - Linux OS
 - TCP/IP & CIFS
 - EXT3
 - XFS
 - Integrated fan tachometer/thermostat controller
 - Integrated hardware 128-bit AES encryption
 - 5 channel DMA controller
 - 128 Kbyte on-chip SRAM
 - 35 GPIO for easy customization
- OXU810SE**
- Single SATA
- OXU810DSE**
- Dual SATA
 - RAID 1 hardware accelerator



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DIRECT ATTACHED STORAGE (DAS) SOLUTIONS		USB2.0	FW400	FW800	eSATA	SATA Ports	Spanning	RAID Support	Encryption	GPIOs
OXU931										
S	Entry level USB to SATA bridge					1				
SF	USB to SATA bridge with external Flash support					1				8
SE	USB / eSATA to SATA bridge with Encryption					1				16
DS	USB / eSATA to SATA bridge					1				12
	USB to dual SATA bridge					2		0,1		12
OXUF934										
SSA	USB / FW400 to SATA bridge					1				12
DSA	USB / FW400 / eSATA to SATA bridge					1				12
	USB / FW400 to dual SATA bridge					2		0,1		12
DSB	USB / FW400 / FW800 / eSATA to SATA bridge					1				12
	USB / FW400 / FW800 to dual SATA bridge					2		0,1		12
OXU936										
DS	Universal interface 2-port RAID controller					2		0,1		24
DSE	Universal 2-port RAID controller with Encryption					2		0,1		24
QSE	Universal 4-port RAID controller with Encryption					4		0,3,5,10		24
NETWORK ATTACHED STORAGE (NAS) SOLUTIONS		USB2.0	Ethernet	Bus Interface	SDRAM Controller	Spanning	RAID Support	Encryption	GPIOs	
OXE810										
SE	Highly integrated NAS single disk solution		GigE	PCI Host / Device	DDR1&2					35
DSE	Highly integrated NAS dual disk solution		GigE	PCI Host / Device	DDR1&2		0,1			35