Storage Systems Solutions

High-performance storage solutions are required for todays connected digital lifestyle. Whether for work or play, we live in a world exploding with high monetary and emotional value digital content. As a result, the process of reliable digital storage, access and retrieval has quietly become a critical factor in our day-to-day lives. To the everyday user, it is not important how this process is achieved. It simply needs to work from the moment we plug it in. Oxford's easy to design-in, high-performance solutions-on-a-chip enable storage system vendors to provide high value-added products to their personal and SOHO customers who require digital content to be reliably stored and quickly accessed anytime, anywhere.

Performance

Oxford's high-performance single and multi-disk solution-on-a-chip set the benchmark in personal storage systems enabling the right price/performance for the application.

Differentiation

With rich feature sets and flexible platforms, Oxford's solutions for personal storage applications offer OEMs the ability to fully customize the system to their target market. And, save on BOM costs with high-integration and exactly the right connectivity, functions, and GPIOs for the required task.

Time-to-Market

Reducing time-to-market is critical as competitive new product cycle times continue to decrease. We understand the importance of reducing time-to-revenue and overall cost. That's why we offer complete solutions – silicon, firmware, software, reference designs, evaluation boards, SDKs and dedicated applications support.

Quality

Protecting your brand reputation is serious business. We ensure that the quality of our products is second to none. Our design teams follow a rigorous design for reliability methodology. And, our dedicated team of in-house test engineers verifies that our products meet all compliance, interoperability, performance, and data integrity requirements across multiple platforms and operating systems.

Leadership

Oxford is recognized the world over for a long history of delivering industry firsts and in-depth systems application expertise. With our focus on solution-on-a-chip technology for high-performance storage systems, we play an active role in the creation the applications of tomorrow – solutions set to deliver more performance and greater ease of use.

No matter your storage application, we have an easy to design-in, high-performance solution that works.

OXFORD SEMICONDUCTOR

Personal Storage System Solutions

Oxford Semiconductor's high-performance DAS solutions-on-a-chip represents a continued focus on the growing direct attached storage systems market. Oxford's strengths lie in the ability to specifically address the digital data storage problem, by leveraging a deep experience and understanding of USB, FireWire and eSATA connectivity, enabling storage system vendors to offer high value-added products to their customers.

Direct Attached Storage (DAS) Solutions	Part Number	Ports				Drive		RAID Controllers							GPIO		Flash (External/Internal)	Key Features							Supply Voltage	Package	Eval Kits
		eSATA	FW400	FW800	USB 2.0 High Speed	SATA Ports	ATA7/ATAPI IDE	Spanning	RAID 0	RAID 1	RAID 3	RAID 5	RAID 10	Encryption	Primary	Secondary		USB HID	Auto Power	ATA Pass-through	eSATA comms	SATA Hot Plug	Drive Roaming	Fan Tacho Control			
Universal Interface to SATA RAID Controllers																											
FireWire400/800 / USB2.0 / eSATA to Dual SATA Controller	OXUFS936DS	●	●	●	●	2		●	●	●				●	24	23	E	●	●	●	●	●	●	●	3.3v, 1.2v	220 FBGA	EK-OXUFS936DS
FireWire400/800 / USB2.0 / eSATA to Quad SATA Controller	OXUFS936QSE	●	●	●	●	4		●	●		●	●	●		24	24	E	●	●	●	●	●	●	●	3.3v, 1.2v	272 PBGA	EK-OXUFS936QE
FireWire / USB to SATA Controllers																											
FireWire400 / USB2.0 to SATA Controller	OXUF934SSA		●		●	1									12		E	●	●	●					3.3v, 1.8v	128 LQFP	EK-OXUF934SSA
			●		●										12		E	●	●	●					3.3v, 1.8v	128 LQFP	EK-OXUF934SSA-BP
FireWire400 / USB2.0 / eSATA to Dual SATA Controller††	OXUF934DSA		●		●	2		●	●						12		E	●	●	●		●			3.3v, 1.8v	144 LQFP	EV-OXUF934DSA D-S
		1	●		●	1									12		E	●	●	●		●			3.3v, 1.8v	144 LQFP	EV-OXUF934DSA - StoS
FireWire400/800 / USB2.0 / eSATA to Dual SATA Controller††	OXUF934DSB		●	●	●	2		●	●						12		E	●	●	●		●			3.3v, 1.8v	144 LQFP	EV-OXUF934DSB-D-S
		1	●	●	●	1									12		E	●	●	●		●			3.3v, 1.8v	144 LQFP	EV-OXUF934DSB - StoS
FireWire400/800 / USB2.0 / eSATA to Dual SATA Controller††	OXUF924DSB		●	●	●	2		●	●	●					12		E			●					3.3v, 1.2v	176 FBGA	EV-OXUF924DSB - DS
		1	●	●	●	1									12		E			●					3.3v, 1.2v	176 FBGA	EV-OXUF924DSB - StoS
FireWire400/800 / USB2.0 to Dual SATA Controller	OXUF924DSE		●	●	●	2		●	●	●				●	10		E			●					3.3v, 1.2v	176 FBGA	EV-OXUF924DSE
USB SATA Controllers																											
USB 2.0 to SATA Controller	OXU931S				●	1									†		R	●	●						3.3v	48 QFN	EK-OXU931S-MLCG
USB 2.0 to SATA Controller	OXU931SF				●	1									8		E	●	●	●					3.3v	100 LQFP	EK-OXU931SF
USB 2.0 to Dual SATA Controller††	OXU931DS				●	2		●	●						12		E	●	●	●		●			3.3v, 1.8v	128 LQFP	EV-OXU931DS - DS
		1			●	1									12		E	●	●	●		●			3.3v, 1.8v	128 LQFP	EV-OXU931DS - StoS
USB2.0 to Dual SATA Controller	OXU921DSE				●	2		●	●	●				●	10		E								3.3v, 1.2v	176 FBGA	EV-OXU921DSE
FireWire ATA7/ATAPI IDE Controllers																											
FireWire400 to ATA7/ATAPI IDE Controller	OXFW911plus		●				1								4		I			●					3.3v, 1.8v	100 TQFP	EV-FW911plus-1394A
FireWire800 to ATA7/ATAPI IDE Controller	OXFW912			●			1		●						4		I			●					3.3v, 1.8v	100 TQFP	EV-FW912-1394B-800

† Fixed function IOs = HDD activity, 2 HID controllable LEDs, 1 button ††SATA host port can be reconfigured for eSATA device port

Personal and SOHO Shared Storage System Solutions

Designed with the expanding market for personal home and small office anytime, anywhere shared storage in mind, Oxford Semiconductor's NAS solutions-on-a-chip provide original equipment manufacturers with an ideal balance between performance and system BOM cost.

Network Attached Storage (NAS) Solutions	Part Number	Ports				Drive		RAID Controllers							GPIO		Key Features								Supply Voltage	Package	Eval Kits
		10/100/1Gig Ethernet	FW400	FW800	USB 2.0 High Speed	SATA Ports	ATA7/ATAPI IDE	Spanning	RAID 0	RAID 1	RAID 3	RAID 5	RAID 10	Encryption	Primary	Secondary	DDR1/2 SDRAM	DMA Channels	16bit Static Memory IF	TSO Acceleration	PCI Interface	Independent UARTS	PWM Channels	Fan Control			
Gigabit Ethernet to Single SATA Controller with Encryption	OXE810SE	●			●	1								●	35		●	5	●	●	●	4	16	●	3.3v, 1.8v	272 PBGA	EK-OXE810SE
Gigabit Ethernet to Dual SATA Controller with Encryption	OXE810DSE	●			●	2		●		●				●	35		●	5	●	●	●	4	16	●	3.3v, 1.8v	272 PBGA	EK-OXE810DSE

No matter your storage application, we have an easy to design-in, high-performance solution that works.