

XLS

ENTERPRISE LIBRARY SYSTEM

THE XLS SERIES ADVANTAGE

Size DOES matter when refreshing your enterprise tape system

Qualstar's XLS Enterprise Library System offers impressive storage density and performance in a surprisingly small footprint

The data storage dilemma

Large enterprises everywhere continue to be challenged by a tremendous volume of data storage and archiving. Business and personal transactions, digital music and video, conversion of analog content to digital format and data mining all represent an explosion in storage capacity requirements. Evolving best business practices and government regulations are demanding longer retention periods for data.

Data center floor space is among the priciest real estate around

The cost to build new data center space ranges from \$700 to \$1,200 or more per square foot. And a Gartner report predicts that these costs will increase by 20% every three years. Clearly, optimizing your existing space is preferable to adding new space. But if your automated tape library system is more than a few years old, its tape storage footprint and performance are likely outdated.

XLS delivers dramatic storage density

Instead of adding more floor space, purchasing a new **Qualstar XLS tape library system** is a cost-justified solution. In addition to using higher-density tapes and faster drives, Qualstar's trademark rotary carousel design stacks tape cartridges vertically in a compact space which yields very high cartridge storage density, as high as 125 cartridges per square foot in a MEM1, for example.



XLS Compass Architecture

Qualstar's patented Compass Architecture™ features an advanced and highly reliable robotics design that can access over 3,200 cartridges in an average of just 21 inches



of horizontal travel. The XLS modular design allows your system to seamlessly grow as your



In just 21" of horizontal travel the XLS robot can access over 3,200 tapes insuring fast access times and high reliability

needs grow. Start with the Library Resource Module (LRM), a complete, self-contained library, the base unit for expandable systems. As your needs grow, add Memory Expansion Modules (MEMs) which provide an impressive number of additional cartridge slots in a very compact footprint.

XLS with LTO tape is the best choice for your growing data center

XLS libraries leverage LTO tape technology, the standard in enterprise-class performance,

reliability and capacity. LTO's published roadmap not only offers backward compatibility for two previous generations but it also promises a doubling of tape storage capacity with each new generation. Your investment in older generation archives remains accessible for a longer period of time, while new cartridges can hold increasingly more data. LTO tape is also widely distributed which translates into competitive media costs for your data center.



LRM

MEM1

XLS features hot swap drive bays for easy and inexpensive drive performance upgrades with each new generation of LTO. As LTO



THE QUALSTAR XLS ADVANTAGE: TAPE DENSITY

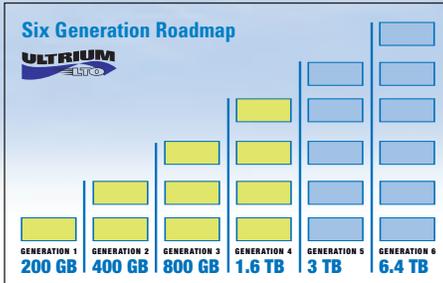
The XLS conserves valuable IT floor space by using Qualstar's trademark rotary carousel design while providing the reliability, performance and scalability required by today's enterprises. Qualstar's patented Compass Architecture™ uses a revolutionary short-travel robotic design to yield fast access to large amounts of data without sacrificing reliability. The modular design, combining and adding Library Resource Modules (LRMs) and Memory Expansion Modules (MEMs), allows the XLS to scale to more than seven Petabytes in a very compact footprint.

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The Qualstar XLS Tape Library System can increase your storage density by more than 800% over the legacy systems found in many data centers



XLS Library Model	Tape Slots	Number of Drives	Capacity*	Tapes per Square Foot†
XLS-812300	295 – 1,365	Up to 12	236 TB – 1.1 PB	71
XLS-820500	355 – 7,235	Up to 80	284 TB – 5.8 PB	94
XLS-832700	455 – 7,995	Up to 128	364 TB – 6.4 PB	94
XLS-8161100	846 – 9,639	Up to 64	677 TB – 7.7 PB	113

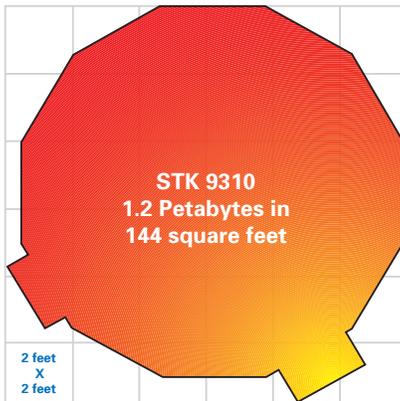
* Native using LTO 4

† At maximum capacity, varies with number of drives specified

and XLS evolve you can continue to increase your storage capacity with no increase in your footprint.

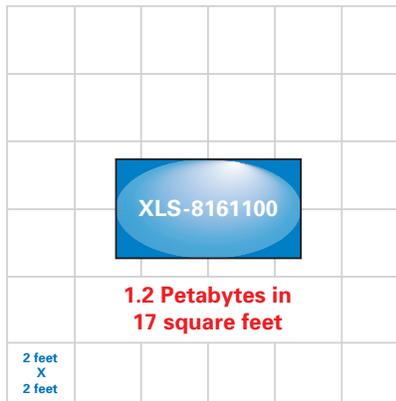
XLS is clearly superior in side by side comparisons

As compared in the diagrams below, an older library design, the Sun STK 9310 requires



Sun STK 9310: 1.2 Petabytes in 144 square feet

144 square feet of floor space to store 1.2 Petabytes of data. In contrast, an XLS-8161100 can store 1.2 Petabytes in just 17 square feet, using roughly 12% of the floor space of the older design. The STK 9310 houses 42 cartridges per square foot compared to 94 cartridges per square foot in the XLS-8161100



Qualstar XLS-8161100: 1.2 Petabytes in 17 square feet

– over twice the cartridge density. Qualstar XLS libraries store more than four times the data in less than half the floor space, delivering immediate ROI while substantially reducing downtime, onsite service and administration costs.

World class features insure reliable performance

XLS includes X-Link, a single view browser-based management interface, up to eight logical library partitions, N+1 power management and hot-swap components for high reliability and impressive value.

Investing in XLS is investing in your future

Qualstar has configurations of the XLS Library available to meet any capacity requirement. An investment in XLS today will allow you to grow your capacity four-fold over the next few years while substantially reducing expensive IT floor space. For more information contact Qualstar or an authorized reseller today.

Qualstar Corporation does not warrant the MEBF to be representative of any particular unit installed for customer use. Failure rates are derived from a large database of test samples. The individual failure rate will vary from unit to unit.

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