

SCALAR 10K

700 TO 5,000 TAPES

GROWTH OPTIONS TO 15,885 TAPES

LTO, AIT, SDLT DRIVE TECHNOLOGY

INSTANT CAPACITY ON DEMAND

INTEGRATED SAN RESOURCE MANAGEMENT

FEATURES AND BENEFITS

- Instant capacity on demand lets IT departments activate additional storage instantly while paying only for the storage they actually use
- Proven storage network interoperability means seamless integration into new or existing SANs
- Integrated storage network resource management provides single-view discovery and device-level SAN security
- High drive count for maximum performance and flexible configurations
- Supports LTO, AIT, SDLT technology, provides easy technology migration and options for mixed media operation
- High availability features, including true 2N power, dual library control paths, hot-swap drives
- Five slots per second inventory speed; auto-discovery and auto-calibration of all components for rapid configuration
- Intelligent storage management tools include remote monitoring, email alert, and library virtualization

The ADIC® Scalar® 10K is the SAN-enabled enterprise library that lets IT departments consolidate storage in a single, easily managed resource. It is the industry's first capacity-on-demand library, delivering built-in room to grow and allowing users to increase storage by activating additional capacity whenever they need it.

The Scalar 10K operates seamlessly in new or existing storage networks. It supports multiple protocols and fabrics at the same time, providing industry-leading scalability, capacity, availability, and technology independence.

The Scalar 10K's management tools offer integrated SAN

resource management, library virtualization, and device-level security that includes the industry's first built-in SAN firewall.

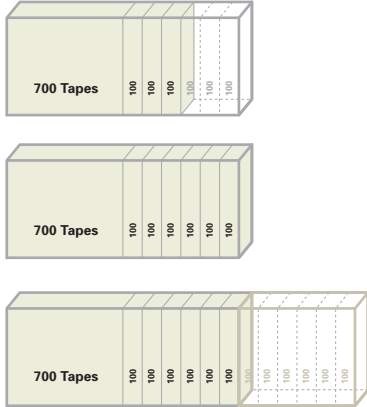


The Scalar 10K provides built-in room to grow and integrated SAN management.

adic



WHEN YOU NEED MORE TAPES SLOTS YOU ACTIVATE THEM WITH A SOFTWARE KEY



With capacity-on-demand scalability, users add capacity as their data grows and only pay for the storage they actually use. Most upgrades are activated via software keys, and all physical capacity enhancements are implemented without any pass through ports.

SCALAR 10K CAPACITY-ON-DEMAND LIBRARIES

The Scalar 10K's capacity-on-demand scalability is designed to make it easy for IT departments to increase their storage as their data grows and to pay only for the storage they actually use.

In capacity-on-demand libraries, extra capacity is delivered which users can activate in increments of 100 tape slots using software authorization keys. When most of the capacity of an installed unit has been activated, ADIC delivers additional capacity upgrades without charge. Scalar 10K capacity-on-demand libraries provide seamless pay-as-you-grow scalability from 700 to nearly 5000 tape cartridges and from 1 to 168 drives. And through all its capacity expansion, the Scalar 10K uses ADIC's barrier-free library architecture, which provides a single, high performance storage system that never uses pass-through ports.

The table below shows the delivered capacity, upgrade points, drive positions available, and overall physical dimensions for Scalar 10K capacity-on-demand libraries.

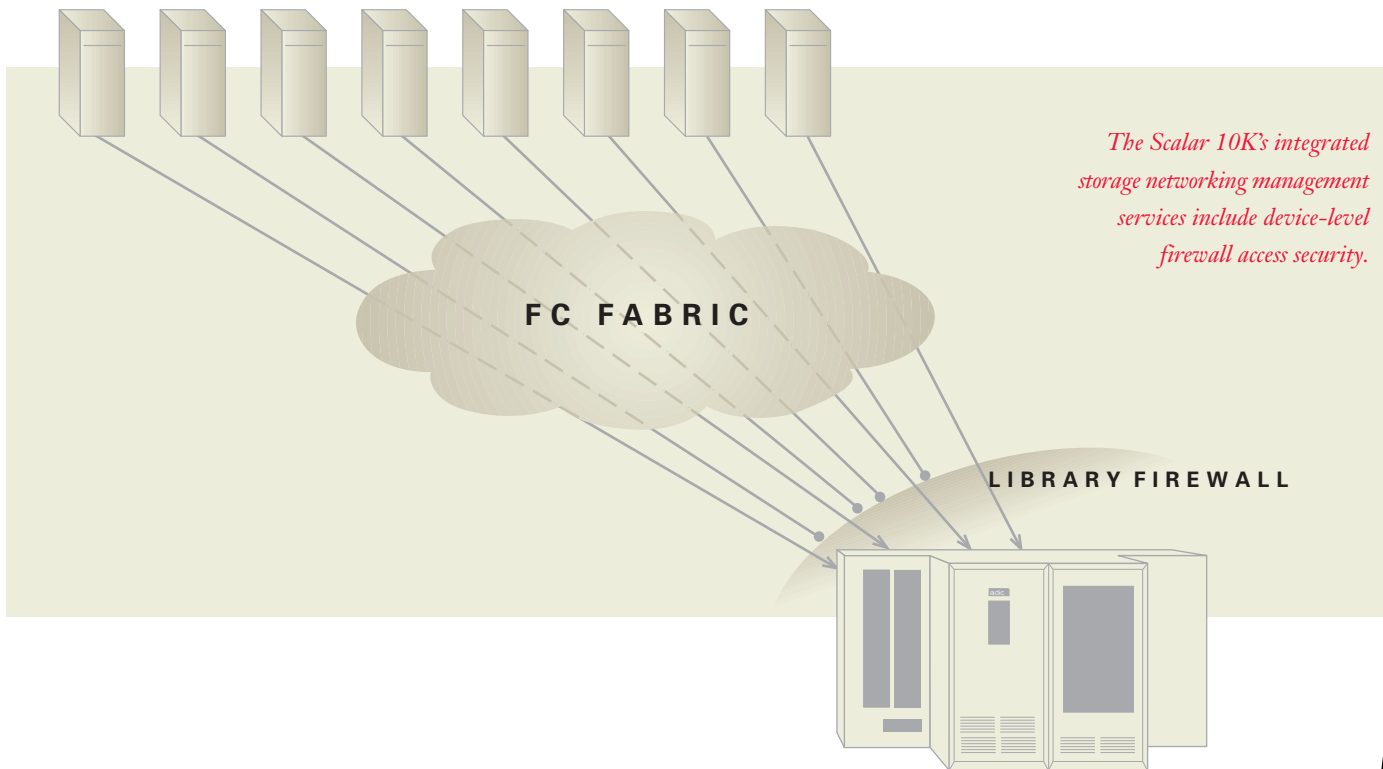
Drive Media	Activated Media	Total Tape Positions	Total Drive Positions	Overall System Measure: D x L x H
LTO	700 to 1300	1785	36	4.3 x 10.5 x 6.4 feet
	1400 to 2000	2865	60	4.3 x 15.5 x 6.4 feet
	2100 and up	3945	84	4.3 x 20.5 x 6.4 feet
AIT	700 to 1700	2241	72	4.3 x 10.5 x 6.4 feet
	1800 to 2600	3597	120	4.3 x 15.5 x 6.4 feet
	2700 and up	4953	168	4.3 x 20.5 x 6.4 feet
SDLT	700 to 1100	1494	36	4.3 x 10.5 x 6.4 feet
	1200 to 1700	2398	60	4.3 x 15.5 x 6.4 feet
	1800 and up	3302	84	4.3 x 20.5 x 6.4 feet

SCALAR 10K MAXIMUM CAPACITY AND MIXED MEDIA LIBRARIES

For users with requirements for mixed media or higher cartridge and drive counts than capacity-on-demand libraries, the Scalar 10K offers maximum capacity models. These libraries provide up to 15,885 tapes, 648 drives, the ability to support multiple kinds of media at the same Atime, and a high degree of configuration flexibility. Contact your ADIC representative for complete options.

STORAGE NETWORK LIBRARY WITH INTELLIGENT MANAGEMENT

With advanced storage network management services integrated directly into the library, the Scalar 10K provides industry-leading tools for more efficient data management, easier installation and diagnostics, and enhanced security and data availability. The Scalar 10K supports heterogeneous storage networks with single-view connectivity reporting, integrated firewall-level access security, and built-in support for operations that include serverless backup and enhanced error recovery. The architecture can extend to include Gigabit Ethernet protocols, and all views are passed automatically to network management frameworks. Scalar 10K management tools also offer full remote operation, library partitioning or “virtualization,” and health check status reporting that includes user-defined SNMP event thresholds and email and pager alerts.



NEW LEVELS OF DATA AVAILABILITY

The Scalar 10K is the first enterprise library designed for the higher levels of reliability and availability that data consolidation demands. Its power grid features internal buses that provide full 2N power throughout, both for the library controller and for all its drives. Dual external AC power and hot swap drives are standard, as are dual library control paths and dual data paths within storage networks. The library architecture is even designed to support a redundant robotic system for users who want to eliminate all single mechanical failure points. Maximum system uptime is provided by auto-calibration, self-configuration, and magazine-based bulk loading of up to 7.9 TB (native) at a time.

LIBRARY CONFIGURATIONS

CAPACITY ON DEMAND LIBRARIES					MAXIMUM CAPACITY CONFIGURATIONS		
Technology	Drives	Cartridges	Increments	Capacity*	Drives	Cartridges	Capacity*
LTO	Up to 84	700 to 3945	100 tapes	394.5TB	Up to 324	Up to 9,582	Up to 958.2TB
AIT	Up to 168	700 to 4953	100 tapes	247.7TB	Up to 648	Up to 15,885	Up to 794.3TB
SDLT	Up to 84	700 to 3302	100 tapes	363.2TB	Up to 324	Up to 8,014	Up to 881.5TB

At any point users can add tape positions in increments of 100 and drives up to the limits shown.

The Scalar 10K also supports traditional component pricing for systems needing higher cartridge and drive counts or mixed media operation.

*Capacities provided are native.

DRIVE AND PERFORMANCE

	LTO	AIT	SDLT
Drive Type:	IBM Ultrium 1	AIT-2	SDLT
Data Cartridge Capacity			
Native:	100GB	50GB	110GB
With 2:1 Compression:	200GB	100GB	220GB
Transfer Rate			
Native:	15MB/sec	6MB/sec	11MB/sec
With 2:1 Compression:	30MB/sec	12MB/sec	22MB/sec
Data Buffer:	32MB	8MB	32MB
Media:	LTO Type A	SDX2-50C	SDLTtape1
Tape Length:	609m	230m	1834ft
Recording Density:	768 tracks/in	167kb/in	133kb/in

RELIABILITY

Drive Hard Error Rate:	Up to 1 in 10 ¹⁷ bits read
Tape Shelf Life:	30 yrs minimum (at 20° C, 40% RH)
Drive MTBF:	Greater than 200,000 power-on hours
Library MCBF:	Greater than 2,000,000
Power:	2N power for all systems and drives
Library Control Ports:	Dual, redundant ports are standard
Diagnostics:	SNMP traps reported through RMU or Scalar DLC. Built-in self-test, store/recall past events, fault isolation assistance, self-initiating configuration and calibration; email alert
MTTR:	30 minutes
Module Upgrade:	Any storage module may be added in two hours; customer installable drive and slot upgrade

OPERATION

Cartridge Exchanges:	Up to 450 per hour
Drive Interface:	LTO: SCSI-2 LVD; AIT: SCSI-2 LVD or HVD; SDLT: SCSI-2 LVD or HVD; integrated FC interface optional for all
Library Interface:	SCSI-2 HVD or LVD Integrated FC interface optional
Inventory Speed:	100 slots in 20 seconds
Configuration:	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc)
Import/Export:	Up to 72 (LTO/SDLT) or 108 (AIT) positions in removable magazines

ENVIRONMENTAL

Electrical:	
Library Controller	220 VAC, 4.4k VA
Drive Cabinets	110-220 VAC, 2.2k VA
Temperature:	16 to 32° C Operating
Humidity:	15 to 75% Non-condensing operating

COMPLIANCE AND CERTIFICATION

Safety:	UL-1950 ITE, CSA950, EN 60950
Emissions:	FCC #47 CFR, Part 15, Class A, CSA C108.8M, EN 55022, Class A
Immunity:	IEC (1000-4-2, 3, 4)
International:	CE

SOFTWARE AND PLATFORMS

Consult the most recent ADIC Software Compatibility Guide for a complete list of software and platforms compatible with the Scalar 10K.

For your Scalar 10K Product Reference Guide, please contact your local ADIC dealer or visit www.adic.com.

ADIC CORPORATE HEADQUARTERS

11431 Willows Road NE, PO Box 97057
 Redmond, WA 98073-9757 USA
 Phone: 425.881.8004
 Phone: 800.336.1233
 Fax: 425.881.2296