



## SCALAR 10K

The First SAN-Enabled Library for Consolidated Enterprise Backup

700 TO 22,938 TAPES

INDUSTRY-LEADING DRIVE RANGE: 1 TO 648 DRIVES

LTO, AIT, SDLT/DLT, 3590 DRIVE SUPPORT

INSTANT CAPACITY ON DEMAND

INTEGRATED STORAGE NETWORKING ARCHITECTURE

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 and NAS support, library virtualization, and device-level security that includes the industry's first built-in SAN firewall. A fully redundant library architecture option supports dual robotics, controllers, power, and library control paths to provide continual access to data through virtually all service operations.

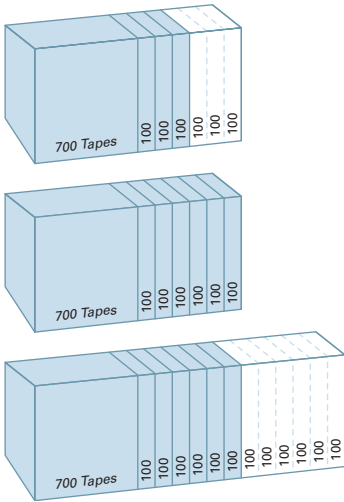


*The Scalar 10K provides built-in room to grow, integrated SAN management, and dual redundant robotics.*

### FEATURES AND BENEFITS

- ▶ Capacity on demand lets IT departments activate additional storage instantly while paying only for the storage they actually use
- ▶ Qualified storage network interoperability means seamless integration into new or existing SANs
- ▶ Integrated storage network support improves SAN backup performance and reliability
- ▶ Up to 648 drives
- ▶ Supports LTO, AIT, SDLT/DLT, and 3590 technology; provides easy technology migration and options for mixed-media operation
- ▶ Fully redundant architecture option: dual robotics, controllers, power, and library control paths for continuous operation
- ▶ Five slots per second inventory speed; auto-discovery and auto-calibration of all components for rapid configuration
- ▶ Intelligent storage management tools include remote monitoring, e-mail alert, and library virtualization
- ▶ Designed to support ADIC's iPlatform™ Intelligent Architecture
- ▶ One-year on-site service included for highest levels of protection

## 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 that 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 5,000 tape cartridges and from 1 to 96 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.

### When You Need More Tape Slots You Activate Them With A Software Key

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

Drive Technology	Activated Media	Cartridge Positions	Total Drive Positions	Overall System Size: D x L x H
LTO-2/LTO-1/LTO SCSI and Native Fibre	700 to 1,300	1,785	36	4.3 x 10.5 x 6.4 feet
	1,400 to 2,000	2,865	60	4.3 x 15.5 x 6.4 feet
	2,100 and up	3,945	84	4.3 x 20.5 x 6.4 feet
AIT-3/AIT-2	700 to 1,700	2,391	48	4.3 x 10.5 x 6.4 feet
	1,800 to 2,600	3,897	72	4.3 x 15.5 x 6.4 feet
	2,700 and up	5,403	96	4.3 x 20.5 x 6.4 feet
SDLT/DLT	700 to 1,100	1,494	36	4.3 x 10.5 x 6.4 feet
	1,200 to 1,700	2,398	60	4.3 x 15.5 x 6.4 feet
	1,800 and up	3,302	84	4.3 x 20.5 x 6.4 feet
3590	700 to 1,100	1,594	8	5.0 x 10.5 x 6.4 feet
	1,200 to 1,700	2,498	16	5.0 x 15.5 x 6.4 feet
	1,800 and up	3,402	24	5.0 x 20.5 x 6.4 feet

## FLEXIBLE CONFIGURATIONS FOR MAXIMUM CAPACITY AND MIXED MEDIA

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 22,938 cartridges, 648 drives, dual active robotics, the ability to support multiple kinds of media in a single library, and a high degree of configuration flexibility.

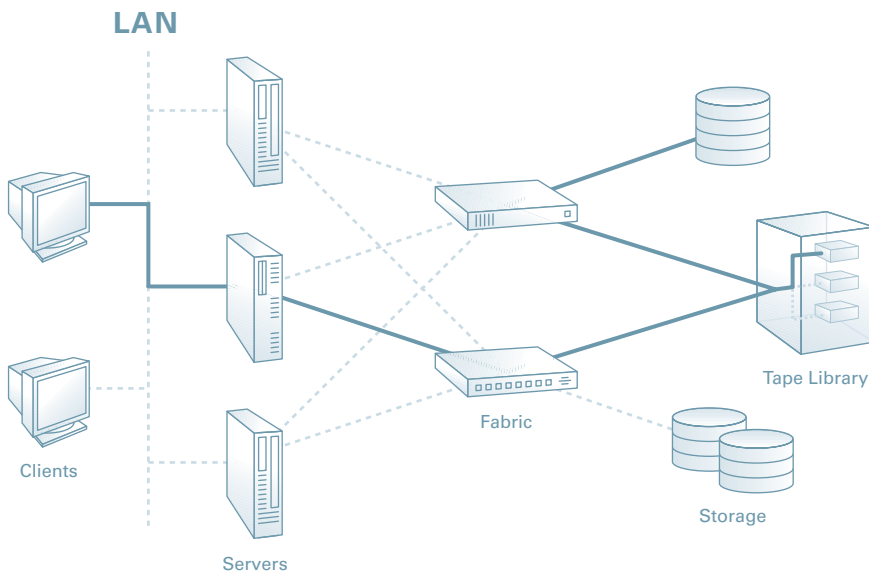
# SCALAR 10K

## STORAGE NETWORKING LIBRARY WITH INTELLIGENT MANAGEMENT

The Scalar 10K is the first library to integrate storage networking support into its architecture for better performance, higher reliability, and easier management. Its direct SAN connection makes it easy to set up and operate. Its data path conditioning builds in error recovery and proactively verifies that paths are ready to carry data. And the Scalar 10K's integrated SAN firewall protects your data from unauthorized access. The Scalar storage networking architecture can extend to include Gigabit Ethernet protocols like iSCSI, and the technology is certified for compatibility with leading SAN disk and NAS appliance providers.



*The Scalar 10K offers dual-aisle configuration options which provide full dual-redundant robotics, controllers, and main library control paths. The dual robotics access a common set of media storage positions to allow continuous access to user data through virtually all service operations.*



*The Scalar 10K's integrated storage networking support improves backup reliability through end-to-end path verification.*

## FULL REDUNDANCY FOR CONTINUOUS BACKUP OPERATIONS

The Scalar 10K leads the industry in high availability features. Its dual robotics and controller option ensures uninterrupted data access during service operations such as changing drives, upgrading power sources, or even servicing the main library controllers. Its fully redundant, cross-coupled AC and DC power system ensures that all library components, including drives, operate normally regardless of power faults. True hot-swap drives, auto-calibration, and SAN drive address persistence mean tape drives may be changed without requiring system restart.

## LIBRARY CONFIGURATIONS

CAPACITY-ON-DEMAND CONFIGURATIONS					CUSTOMER SPECIFIC CONFIGURATIONS		
Technology	Drives	Cartridges	Increments	Capacity (TB) <sup>1</sup>	Drives	Cartridges	Capacity (TB) <sup>1</sup>
LTO-2	Up to 84	700 to 3,945	100 tapes	1,578	Up to 324	Up to 13,884	Up to 5,554
LTO-1	Up to 84	700 to 3,945	100 tapes	789	Up to 324	Up to 13,884	Up to 2,777
SDLT 320	Up to 84	700 to 3,302	100 tapes	1,057	Up to 324	Up to 11,612	Up to 3,716
SDLT 220	Up to 84	700 to 3,302	100 tapes	726	Up to 324	Up to 11,612	Up to 2,555
AIT-3	Up to 96	700 to 5,403	100 tapes	1,405	Up to 648	Up to 22,938	Up to 5,964
AIT-2	Up to 96	700 to 5,403	100 tapes	702	Up to 648	Up to 22,938	Up to 2,982
3590 H1A	Up to 24	700 to 3,402	100 tapes	612	Up to 104	Up to 11,386	Up to 1,366

Capacity-on-Demand configurations provide a cost effective scalability model: pay only for capacity in use.

Customer specific configurations provide maximum capacity, dual robotics, controllers, and mixed-media operation.

## RELIABILITY

<b>Library MCBF:</b>	Greater than 2,000,000
<b>Library MTTR:</b>	30 minutes
<b>Diagnostics:</b>	SNMP traps reported through RMU or Scalar DLC. Built-in self-test, store/recall past events, fault isolation assistance, self-initiating configuration and calibration; e-mail alert
<b>Module Upgrade:</b>	Any storage module may be added in two hours; customer-installable drive and slot upgrades
<b>Redundancy:</b>	2N AC and DC power standard; dual-redundant library control ports standard; optional dual robotics and main library controllers

## ENVIRONMENTAL

<b>Power:</b>	208-240 VAC; 20 amp per cabinet
<b>Temperature:</b>	16 to 32°C operating
<b>Humidity:</b>	15 to 75% non-condensing operating

## OPERATION

<b>Cartridge Exchanges:</b>	Up to 450 per hour <sup>2</sup>
<b>Drive Interface:</b>	LTO and native fibre: SCSI-2 LVD; AIT: SCSI-2 LVD; SDLT/DLT: SCSI-2 LVD; integrated FC interface optional for all; 3590: SCSI-2, SNC or Native FC LVD or HVD
<b>Library Interface:</b>	SCSI-2 LVD; integrated FC interface optional
<b>Inventory Speed:</b>	100 slots in 20 seconds <sup>2</sup>
<b>Configuration:</b>	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)
<b>Import/Export:</b>	Up to 72 (LTO/SDLT/DLT/3590) or 108 (AIT) positions in removable magazines <sup>2</sup>

## STORAGE NETWORKING SUPPORT

<b>Connectivity:</b>	Direct 2 Gbps Fibre Channel connectivity through integrated Storage Network Controller or direct attached drive(s)
<b>Management Services:</b>	End-to-end path verification, error recovery, drive performance optimization, SAN security (Scalar Firewall Manager), serverless backup (Data Mover Module), connectivity failover, switch-port aggregation

## ABOUT ADIC

Advanced Digital Information Corporation (ADIC®) is a leading provider of Intelligent Storage Solutions™ to the open systems marketplace. ADIC is the world's largest supplier of automated tape systems using the drive technologies most often employed for backing up open system, client-server networks. The company's data management software, storage networking appliances, and disk-to-tape data protection solutions provide IT managers innovative tools for storing, managing and protecting their most valuable digital assets in a variety of disk and tape environments. ADIC storage products are available through a worldwide sales force and a global network of resellers and OEMs, including Cray, Dell, Fujitsu-Siemens, HP, IBM and Sun.

## ADIC GLOBAL HEADQUARTERS

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## Intelligent Storage is Economical Scalability

ADIC's capacity-on-demand technology lets you scale with pay-as-you-grow simplicity. It's a convenient, cost-effective solution for keeping expenditures in check as your storage needs grow.



\* Market share from IDC 2001 worldwide revenue and unit market share data for all automated systems using DLT, SDLT, LTO, 8 mm or AIT drives; and Gartner Dataquest, Tape Automation Systems Market Shares, 2002, F.Yale, April 2003.

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