



Now with iSCSI Connectivity

## SCALAR 100

Easy Expandability and Enterprise-Class Performance

LTO, SDLT, AIT DRIVE SUPPORT

1 TO 8 DRIVES

15 TO 96 CARTRIDGES

UP TO 28.8TB CAPACITY

iSCSI OR FC CONNECTIVITY OPTIONS

The ADIC® Scalar® 100 is a midrange library that offers the industry's leading combination of storage density, trouble-free scalability, and advanced storage networking support. The Scalar 100 supports from 15 to 96 tapes and from one to eight drives, depending on technology choice and configuration. Supported drive technologies include LTO, SDLT, and AIT. Adding capacity is easy.

Upgrades take less than 10 minutes—no changing your rack system or adding elevators or pass-through ports. The Scalar 100's storage networking options enable iSCSI or Fibre Channel (FC) connectivity for today's backup consolidation needs. A FC option provides intelligent features to improve SAN backup performance and reliability. An iSCSI option provides an easy-to-implement connectivity choice that lets servers share a single library over standard Ethernet.



*The compact Scalar 100 scales to data center levels of performance and capacity.*

### FEATURES AND BENEFITS

- ▶ Industry-leading value—enterprise-class data protection at entry-level pricing
- ▶ Industry-leading density with over 28TB in only 14 rack units
- ▶ Scales from 1 to 8 drives and 15 to 96 cartridges to meet growing storage needs
- ▶ Choice of easy-to-implement iSCSI or full FC connectivity upgrade option
- ▶ Space-efficient design maximizes limited server room real estate
- ▶ Seamless growth path—scalable design allows cost-effective and easy expansion without using pass-through ports
- ▶ Qualified storage network interoperability means seamless integration into new or existing SANs
- ▶ High availability features such as built-in diagnostics, redundant power supplies, and a 1,000,000 cartridge-change rating provide industry-leading reliability
- ▶ One-year on-site service included for highest levels of protection

## DATA CENTER PERFORMANCE IN A SCALABLE MID-RANGE LIBRARY

With the Scalar 100, you can start with one storage column and add the second, third, and fourth storage columns within minutes for maximum flexibility and investment protection.

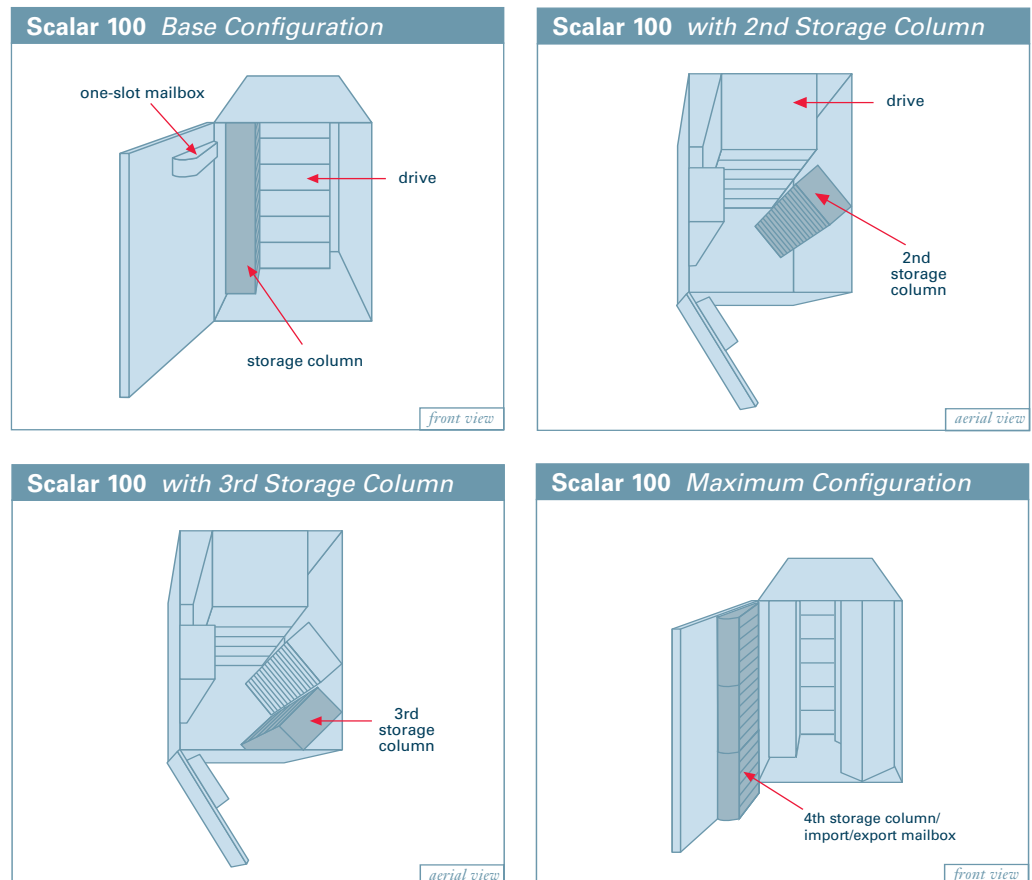
STORAGE CAPACITY PER COLUMN*		
Drive Type	Cartridges	Capacity (TB)
LTO-2	18	7.2
LTO-1	18	3.6
SDLT 320	15	4.8
SDLT 220	15	3.3
AIT-3	24	6.2
AIT-2	24	3.1

\* Capacity assumes 2:1 compression for LTO and SDLT, and 2.6:1 for AIT

The Scalar 100 gives you the industry's most trouble-free scalability. It lets you start small and grow easily, without tearing down your rack system and adding pass-through ports or external elevators. Depending on model and technology choice, the Scalar 100 provides as few as 15 cartridge positions and as many as 96, and it holds from 1 to 8 drives, all in a rack-optimized chassis that takes up only 14 rack units (less than 25 inches).

Users increase performance and capacity simply by sliding in additional drives and tape positions—upgrades take less than 10 minutes and never change the physical size of the library. After upgrade, the Scalar 100 self-discovers any changes and automatically reconfigures all system settings.

Everyone understands that it takes more than extra capacity to handle higher data volumes efficiently. The Scalar 100 also gives you enterprise-class features, including SAN connectivity and management services, redundant power, remote management, and a bulk-load mailbox that can handle up to 4.8TB<sup>1</sup> at a time.

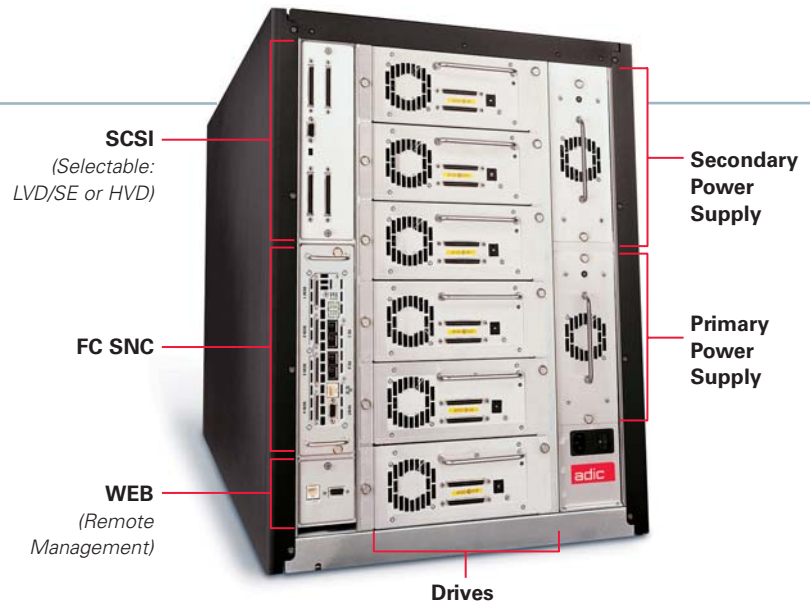


<sup>1</sup> Using AIT-3; assumes 2.6:1 compression (capacity and cartridge count vary depending on technology).

# SCALAR 100

## EASY CONFIGURATION

The integrated modular approach to the Scalar 100 makes it easy to add and change configurations. The integrated Storage Networking Controller (SNC<sup>®</sup>), drives, primary and secondary power supplies, and the remote management unit are all supplied as simple slide-in modules that users can add or change themselves in minutes. The result is better performance, more uptime, and a lower total cost of ownership.

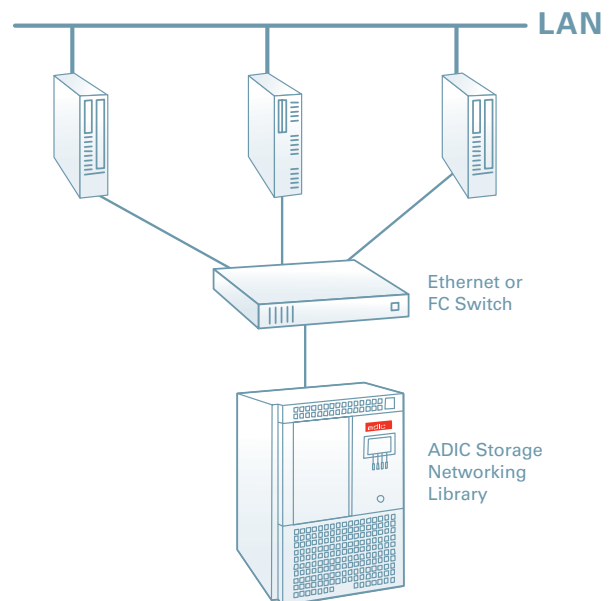


## STORAGE NETWORKING OPTIONS

ADIC storage networking libraries deliver backup consolidation for improved performance, enhanced reliability, and better storage resource utilization. With the Scalar 100, users have a choice between Fibre Channel and iSCSI storage networking connectivity.

The Scalar 100's FC connectivity option is ideal for high performance data protection environments. Its intelligent features provide drive performance optimization, error recovery, and data path conditioning to proactively verify that paths are ready to carry data.

The Scalar 100 iSCSI option is the easy-to-implement solution that enhances data protection for workgroups and smaller enterprises by letting several servers share a single library over Ethernet. Simple to install and easy to maintain, the Scalar 100 iSCSI option delivers centralized control, streamlined configuration, and low total cost of ownership.



*The Scalar 100 offers a choice of iSCSI or FC storage networking options for better backup consolidation.*

## LIBRARY CONFIGURATIONS

	LTO				SDLT				AIT			
	Drives	Cartridges	Capacity (TB) <sup>1</sup>		Drives	Cartridges	Capacity (TB) <sup>1</sup>		Drives	Cartridges	Capacity (TB) <sup>1</sup>	
			LTO-2	LTO-1			SDLT 320	SDLT 220			AIT-3	AIT-2
Base Configuration	1 to 6	Up to 18	7.2	3.6	1 to 6	Up to 15	4.8	3.3	2 to 8	Up to 24	6.2	3.1
w/ 2nd Storage Col.	1 to 6	Up to 36	14.4	7.2	1 to 6	Up to 30	9.6	6.6	2 to 8	Up to 48	12.4	6.2
w/ 3rd Storage Col.	1 to 6	Up to 54	21.6	10.8	1 to 6	Up to 45	14.4	9.9	2 to 8	Up to 72	18.8	9.4
Maximum Config.	1 to 6	Up to 72	28.8	14.4	1 to 6	Up to 60	19.2	13.2	2 to 8	Up to 96	25.0	12.5
Mailbox	1 or 12 slots				1 or 10 slots				2 or 16 slots			
Magazines	Up to 12 6-slot magazines				Up to 12 5-slot magazines				Up to 12 8-slot magazines			
Barcode Reader	Standard				Standard				Standard			

## RELIABILITY

<b>Library MTBF:</b>	Greater than 250,000 power-on hours
<b>Library MSBF:</b>	Greater than 1,000,000
<b>Library MTTR:</b>	Less than 30 minutes
<b>Power:</b>	Redundant power supplies available
<b>Diagnostics:</b>	Auto-calibration, auto-inventory, built-in test (BIT), SNMP alerts via RMU

## OPERATION

<b>Cartridge Swaps:</b>	10 seconds
<b>Inventory Time:</b>	Less than 60 seconds
<b>Library Management Interface:</b>	Integrated web server (Remote Management Unit)
<b>Library Interface:</b>	Switch-selectable for HVD or LVD SCSI or Fibre Channel
<b>Drive Interface:</b>	LTO 2, SDLT 320: LVD SCSI; LTO1, AIT, SDLT 220: HVD or LVD SCSI
<b>SCSI Connections:</b>	68-pin micro-D

## ENVIRONMENTAL

<b>Power Consumption Typical<sup>2</sup></b>	
Library:	93W, 317 BTU/hr
Drive Sled (max):	LTO-2: 31W, 106 BTU/hr; LTO-1, AIT: 40W, 136 BTU/hr; DLT 8000: 44W, 150 BTU/hr; SDLT: 29W, 99BTU/hr
SNC 6101 (FC):	30W, 102 BTU/hr
SNC 4500 (iSCSI):	15W, 51 BTU/hr
<b>Electrical:</b>	115/230 VAC
<b>Temperature</b>	50 to 104° F (10 to 40° C) operating
<b>Humidity:</b>	20 to 80% non-condensing operating

## PHYSICAL

<b>Dimensions, Standalone:</b>	18.9"W x 28.8"D x 25"H (48.0cm x 73.2cm x 63.5cm)
<b>Dimensions, Rack-mounted:</b>	17.4"W x 28.8"D x 24.5"H (44.2cm x 73.2cm x 62.2cm)
<b>Rack Height:</b>	14 rack units
<b>SNC 4500, Rack-mounted:</b>	16.9"W x 10"D x 1.72"H (42.9cm x 25.4cm x 4.3cm)

<sup>1</sup> Assumes 2:1 compression for LTO and SDLT, 2.6:1 compression for AIT.

<sup>2</sup> Power consumption is obtained using RMS values for voltage and current. Drive sled power consumption is taken while writing to a tape.

## 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.

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\* 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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## COMPLIANCE AND CERTIFICATION

<b>Safety:</b>	C-TUV-US, TUV/GS, IEC 60950 with worldwide country deviations
<b>Emissions:</b>	FCC, ICES, VCCI, BSMI, CISPR 22 and EN 55022 Class A, EN 61000-3-2, EN 61000-3-3
<b>Immunity:</b>	CISPR, EN 55024
<b>International:</b>	CE

## STORAGE NETWORKING SUPPORT

<b>Platform/Connectivity:</b>	SNC 6101 (2 FC type LC x 4 LVD SCSI) SNC 4500 (2 GbE x 2 LVD SCSI)
<b>FC Features:</b>	End-to-end data path readiness checks, error recovery, and SAN security for improved reliability. Drive performance optimization and serverless backup for higher performance.
<b>iSCSI Features:</b>	Redundant Ethernet connections, error recovery, web-based management, and a step-by-step deployment path to backup consolidation.

Consult the most recent ADIC Software Compatibility Guide at [www.adic.com](http://www.adic.com) for a complete list of software and platforms compatible with the Scalar 100.

## DRIVES AND PERFORMANCE<sup>1</sup>

Drive Type	Cartridge Capacity Native / Compressed (GB)	Drive Throughput Native / Compressed (MB/sec)	Data Buffer (MB)	File Access Time (sec)
LTO-2	200 / 400	35 / 70	64	49
LTO-1	100 / 200	15 / 30	32	54
SDLT 320	160 / 320	16 / 32	64	70
SDLT 220	110 / 220	11 / 22	32	70
AIT-3	100 / 260	12 / 31	18	27
AIT-2	50 / 130	6 / 15.6	10	27

Please see [www.adic.com/drives](http://www.adic.com/drives) for more drive specifications.

**Intelligent Storage is Having a Connectivity Choice**

ADIC storage networking libraries offer a choice of FC or iSCSI connectivity options for easier backup consolidation.

