



## SCALAR 100

Easy Expandability and Enterprise-Class Performance

LTO, SDLT/DLT, AIT DRIVE SUPPORT

1 TO 8 DRIVES

15 TO 96 CARTRIDGES

UP TO 25TB CAPACITY

INTEGRATED STORAGE NETWORKING ARCHITECTURE

The ADIC® Scalar® 100 is a mid-range library that offers the industry's leading combination of storage density, trouble-free scalability, and advanced storage networking technology. With a storage density of up to 1.8TB per rack unit, the Scalar 100 can grow from 15 to 96 tapes and from 1 to 8 drives. Adding capacity is easy. Upgrades take less than 10 minutes—no changing your rack system or adding elevators or pass-through ports. And its built-in storage networking support makes backup faster and more reliable in all storage networking environments. The Scalar 100 is available in your choice of LTO, SDLT/DLT, or AIT technology.



A standard rack cabinet holds up to three Scalar 100s, providing nearly 75TB of storage capacity.

### FEATURES AND BENEFITS

- ▶ Industry-leading density—up to 25TB in only 14 rack units
- ▶ Scales from 1 to 8 drives and 15 to 96 cartridges to meet growing storage needs
- ▶ Space-efficient design maximizes limited server room real estate
- ▶ Seamless growth path—scalable design allows cost-effective expansion without using pass-through ports
- ▶ Qualified storage network interoperability means seamless integration into new or existing SANs
- ▶ Integrated storage network support improves SAN backup performance and reliability
- ▶ 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



IDC 2001 revenue and unit market share data for all automated systems using DLT, SDLT, LTO, 8mm or AIT drives.

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



### Industry-Leading Space-Efficient Design

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

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).

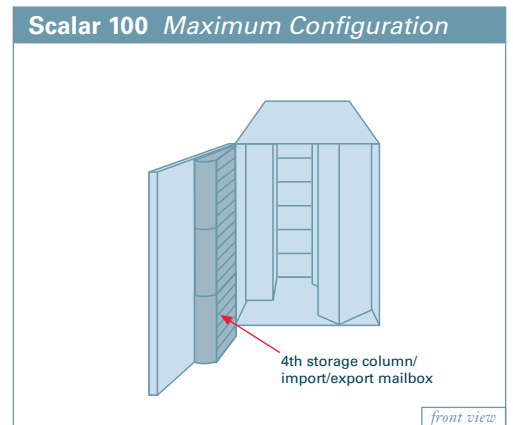
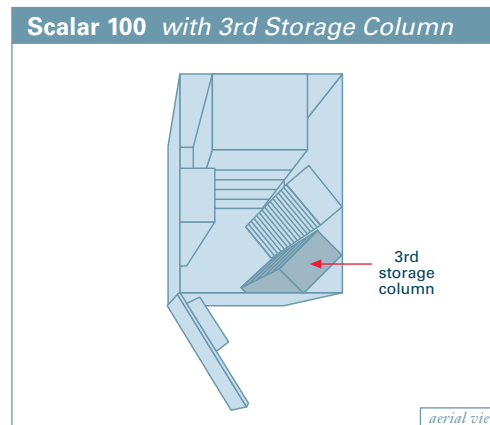
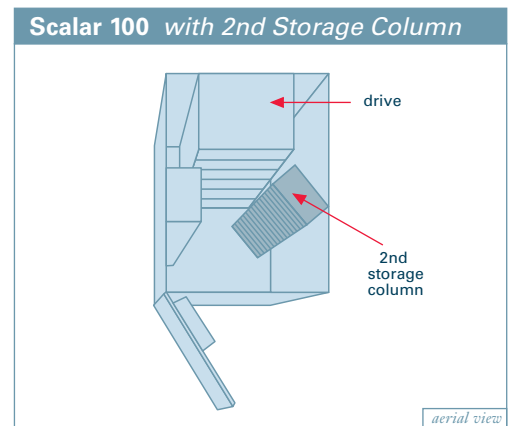
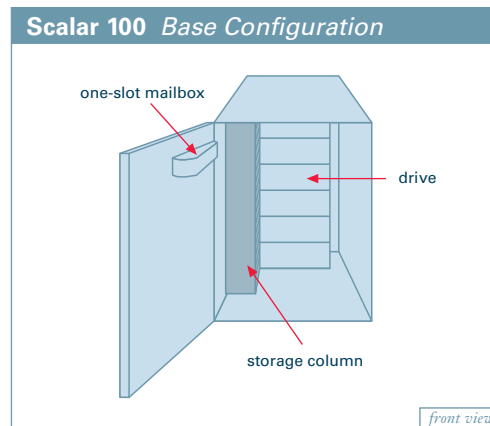
Users increase performance and capacity simply by sliding in additional drives and tape positions—upgrades take less than 10 minutes and never change the physical size of the library. After upgrade, the Scalar 100 self-discovers any changes and automatically reconfigures all system settings.

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 4.7TB<sup>1</sup> at a time.

STORAGE CAPACITY PER COLUMN*		
Drive Type	Cartridges	Capacity (TB)
LTO	18	3.6
SDLT220	15	3.3
SDLT320	15	4.8
DLT8000	15	1.2
AIT-2	24	3.1
AIT-3	24	6.2

\*Capacity and transfer rates assume 2:1 compression for LTO and SDLT/DLT and 2.6:1 for AIT

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.

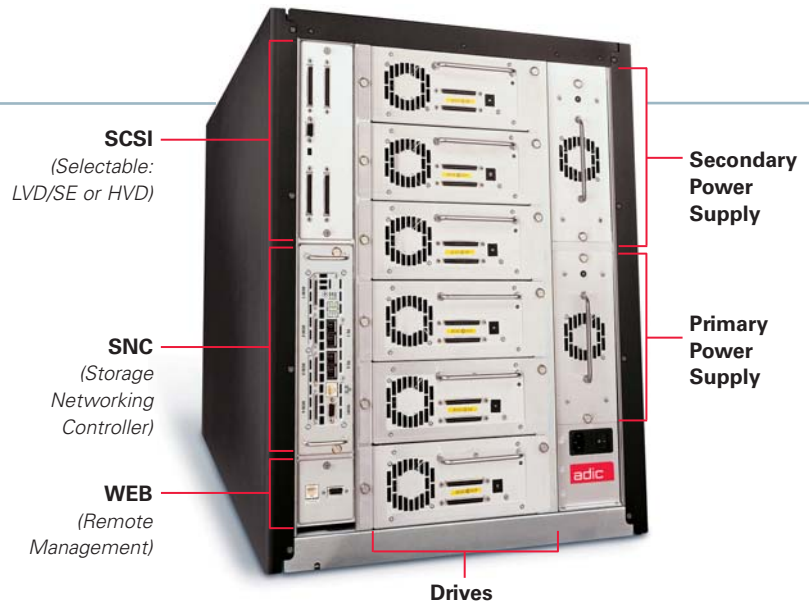


<sup>1</sup> Using AIT-3; assumes 2.6:1 compression (capacity and cartridge count vary depending on technology)

# SCALAR 100

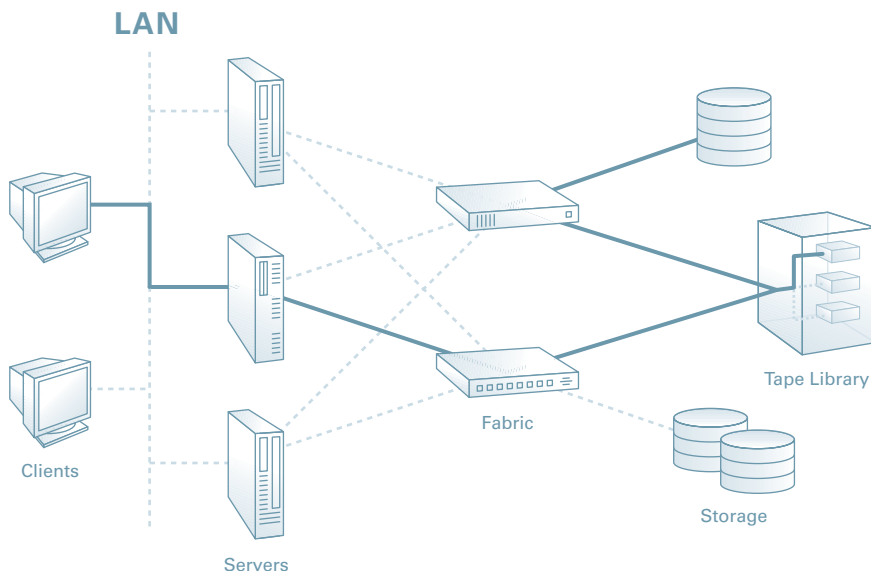
## EASY CONFIGURATION

The integrated modular approach to the Scalar 100 makes it easy to add and change configurations. The built-in storage networking controller, 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 LIBRARY WITH INTELLIGENT MANAGEMENT

The Scalar 100 is the first mid-range 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, proactively verifies that paths are ready to carry data, and even makes drives perform better. And the Scalar 100'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.



### Qualified Compatibility

The Scalar storage networking architecture is qualified with all leading SAN and NAS providers.

- IBM
- Veritas
- EMC
- Brocade
- Legato
- Hewlett-Packard
- Network Appliance
- HDS
- Dell

Please see [adic.com](http://adic.com) for additional details.

The Scalar 100's integrated storage networking support improves backup reliability through end-to-end path verification.

## LIBRARY CONFIGURATIONS

	LTO			SDLT/DLT					AIT			
	Drives	Cartridges	Capacity (TB) <sup>1</sup>	Drives	Cartridges	Capacity (TB) <sup>1</sup>			Drives	Cartridges	Capacity (TB) <sup>1</sup>	
						DLT	SDLT220	SDLT320			AIT-2	AIT-3
Base Configuration	1 to 6	Up to 18	3.6	1 to 6	Up to 15	1.2	3.3	4.8	2 to 8	Up to 24	3.1	6.2
w/ 2nd Storage Col.	1 to 6	Up to 36	7.2	1 to 6	Up to 30	2.4	6.6	9.6	2 to 8	Up to 48	6.2	12.4
w/ 3rd Storage Col.	1 to 6	Up to 54	10.8	1 to 6	Up to 45	3.6	9.9	14.4	2 to 8	Up to 72	9.4	18.8
Maximum Config.	1 to 6	Up to 72	14.4	1 to 6	Up to 60	4.8	13.2	19.2	2 to 8	Up to 96	12.5	25.0
Mailbox	1 or 12 slot			1 or 10 slot					2 or 16 slot			
Magazines	Up to 12 6-slot magazines			Up to 12 5-slot magazines					Up to 12 8-slot magazines			
Barcode Reader	Standard			Standard					Standard			

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

Drive Type:	LTO	DLT8000	SDLT220	SDLT320	AIT-2	AIT-3
<b>Cartridge Capacity</b>						
Native (GB):	100	40	110	160	50	100
Compressed (GB):	200	80	220	320	130	260
<b>Transfer Rate Per Drive</b>						
Native (MB/sec):	15	6	11	16	6	12
Compressed (MB/sec):	30	12	22	32	15.6	31.2
<b>Data Buffer (MB):</b>	32	8	32	64	10	18
<b>Media:</b>	LTO: LTO Ultrium 100GB Data Cartridge (metal particle); DLT: DLTape IV; SDLT: Super DLTape 1; AIT-2: SDX2-50C; AIT-3: SDX3-100C					
<b>Backward Compatibility:</b>	DLT: reads DLT 4000, 7000; SDLT220: reads DLT 4000, 7000, 8000 and DLT1; SDLT320: reads and writes SDLT220, reads DLT 4000, 7000, 8000, DLT1 and V580; AIT-3: reads AIT-2					

## RELIABILITY

<b>Drive Hard Error Rate:</b>	Up to 1 in 10 <sup>17</sup> bits read
<b>Tape Shelf Life:</b>	30 years minimum (at 20°C, 40% RH)
<b>MSBF:</b>	Greater than 1,000,000
<b>MTBF:</b>	Greater than 250,000 power-on hours
<b>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: LVD SCSI; AIT, DLT, SDLT: HVD or LVD SCSI
<b>SCSI Connections:</b>	68-pin micro-D

## 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

## ENVIRONMENTAL

<b>Power Consumption Typical<sup>2</sup></b>	
Library:	93W, 317 BTU/hr
Drive Sled (max):	LTO/AIT: 40W, 136 BTU/hr; DLT8000: 44W, 150 BTU/hr; SDLT: 29W, 99 BTU/hr
<b>SNC 5101:</b>	30W, 102 BTU/hr
<b>Electrical:</b>	115/230 VAC
<b>Temperature:</b>	10°C to 40°C operating
<b>Humidity:</b>	20 to 80% non-condensing operating

## COMPLIANCE AND CERTIFICATION

<b>Safety:</b>	C-TUVUS, TUV/GS, IEC 60950 with worldwide country deviations
<b>Emissions:</b>	FCC, VCCI, CISPR 22 & EN 55022 Class A, EN 61000-4-2, 3, 4, 5, 6, 8, and 11
<b>Immunity:</b>	EN 55024, CISPR 24
<b>International:</b>	CE, BSMI

## STORAGE NETWORKING SUPPORT

<b>Platform/Connectivity:</b>	SNC 5101 (2GB Fibre Channel) or SNC 3000 (1GB Fibre Channel)
<b>Management Services:</b>	End-to-end path verification, error recovery, drive performance optimization, SAN security (Scalar Firewall Manager), serverless backup (Data Mover Module)

Consult the most recent ADIC Software Compatibility Guide for a complete list of software and platforms compatible with the Scalar 100.

<sup>1</sup> Assumes 2:1 average compression for SDLT/DLT and LTO; 2.6:1 average 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 and storage networking appliances provide IT managers innovative tools for storing, managing, and protecting their valuable digital assets. ADIC storage products are available through a worldwide sales force and a global network of resellers and OEMs, including Dell, Fujitsu-Siemens, HP and IBM.

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## Intelligent Storage is Data Integrity

ADIC's storage networking libraries are the first to integrate firewall-based SAN security. Native library security ensures better data protection in complex SAN environments.

