SCALAR 100
Easy Expandability and Enterprise-Class Performance

LTO, SDLT/DLT, AIT DRIVE SUPPORT

1 TO 8 DRIVES

15 TO 96 CARTRIDGES

UP TO 28.8TB CAPACITY

INTEGRATED STORAGE NETWORKING SUPPORT

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. With a storage density of up to 2TB 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. Its integrated storage networking support improves the performance and reliability of SAN backup and delivers a complete capacity, connectivity and management solution for new SAN technologies such as iSCSI. The Scalar 100 is available in your choice of LTO, SDLT/DLT, or AIT technology.

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

FEATURES AND BENEFITS

▸ 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

▸ 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 networking 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

ULTRIUM LTO 2   SUPER DLT TAPE   DLT TAPE   Advanced Intelligent Tape
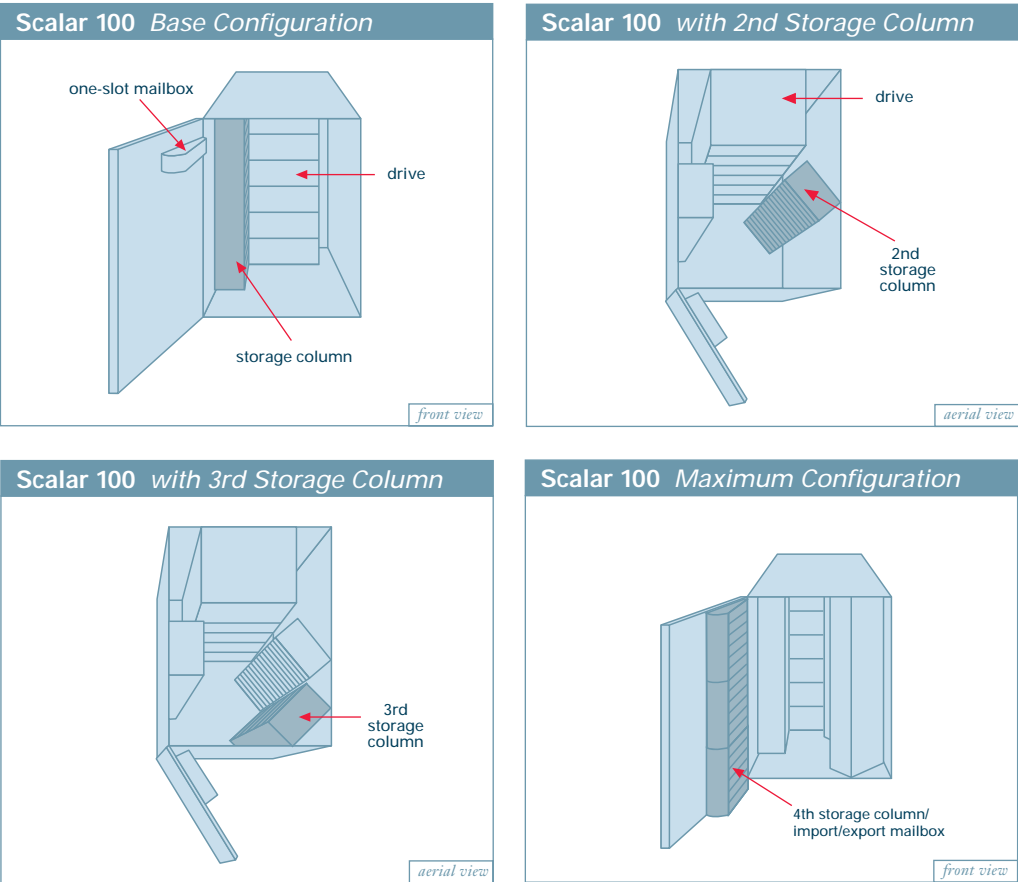
Capacity and transfer rates assume 2:1 compression for LTO and SDLT/DLT and 2.6:1 for AIT.

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
DLT 8000	15	1.2
AIT-3	24	6.2
AIT-2	24	3.1

*Capacity and transfer rates assume 2:1 compression for LTO and SDLT/DLT 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.
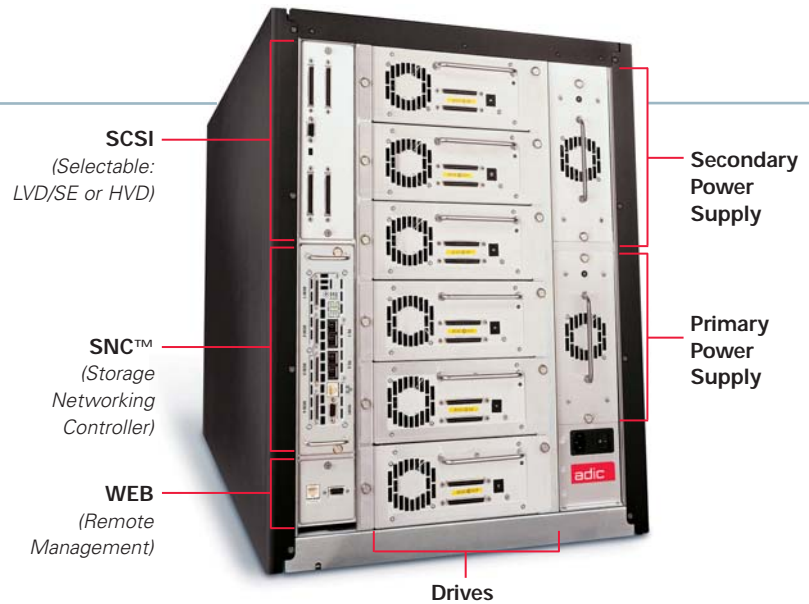
Everyone understands that it takes more than extra capacity to handle higher data volumes efficiently. The Scalar 100 also gives you enterprise-class features, including SAN connectivity and management services, redundant power, remote management, and a bulk-load mailbox that can handle up to 4.8TB[1] at a time.

Scalar 100 *Base Configuration*

one-slot mailbox

drive

storage column

front view

Scalar 100 *with 2nd Storage Column*

drive

2nd storage column

aerial view

Scalar 100 *with 3rd Storage Column*

3rd storage column

aerial view

Scalar 100 *Maximum Configuration*

4th storage column/ import/export mailbox

front view

[1] Using AIT-3; assumes 2.6:1 compression (capacity and cartridge count vary depending on technology).
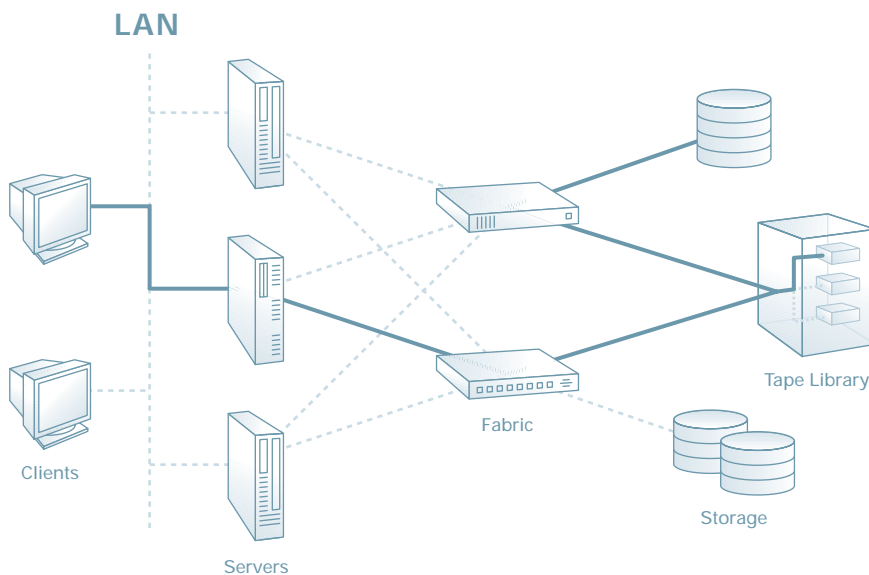
EASY CONFIGURATION

The integrated modular approach to the Scalar 100 makes it easy to add and change configurations. The integrated SNC™, 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.

SCSI
(Selectable: LVD/SE or HVD)

SNC™
(Storage Networking Controller)

WEB
(Remote Management)

Secondary Power Supply

Primary Power Supply

Drives

STORAGE NETWORKING LIBRARY WITH INTELLIGENT MANAGEMENT

The Scalar 100 integrates 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 failover capabilities with proactive verification that paths are ready to carry data. The Scalar 100's integrated SAN firewall protects your data from unauthorized access and enables heterogeneous host access to tape devices. The Scalar storage networking architecture can extend to include new SAN connectivity technologies such as iSCSI, and the technology is certified for compatibility with leading SAN and NAS providers.

LAN

Clients

Servers

Fabric

Tape Library

Storage

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

Qualified Compatibility
The Scalar storage networking architecture is qualified for compatibility with leading storage devices and backup software, including:

• Brocade	• HP
• CA	• IBM
• CommVault	• Legato
• Dell	• McData
• EMC	• NetApp
• HDS	• Veritas

Please see www.adic.com for the most up-to-date compatibility information.

LIBRARY CONFIGURATIONS

	LTO				SDLT/DLT			*O and SDL*		AIT			
	Drives	Cartridges	Capacity (TB)[1]		Drives	Cartridges	Capacity (TB)[1]	*T*		Drives	Cartridges	Capacity (TB)[1]	
			LTO-2	LTO-1			SDLT 320	SDLT 220	DLT 8000			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	1.2	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	2.4	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	3.6	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	4.8	2 to 8	Up to 96	25.0	12.5
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			

RELIABILITY

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

OPERATION

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

ENVIRONMENTAL

Power Consumption Typical[2]
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 5101:	30W, 102 BTU/hr
Electrical:	115/230 VAC
Temperature:	50 to 104° F (10 to 40° C) operating
Humidity:	20 to 80% non-condensing operating

PHYSICAL

Dimensions, Standalone:	18.9"W x 28.8"D x 25"H (48.0cm x 73.2cm x 63.5cm)
Dimensions, Rack-mounted:	17.4"W x 28.8"D x 24.5"H (44.2cm x 73.2cm x 62.2cm)
Rack Height:	14 rack units

COMPLIANCE AND CERTIFICATION

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

STORAGE NETWORKING SUPPORT

Platform/Connectivity:	SNC™6101 (2 FC x 4 LVD SCSI)
Management Services:	End-to-end path verification, access controls, error recovery, drive performance optimization, Scalar Firewall Manager, serverless backup (Data Mover Module), connectivity failover, drive aggregation

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

DRIVES AND PERFORMANCE[1]

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
DLT 8000	40 / 80	6 / 12	8	60
AIT-3	100 / 260	12 / 31	18	27
AIT-2	50 / 130	6 / 15.6	10	27

Please see www.adic.com/drives for more drive specifications.

ower consumption is obtained using RMS values for V

[1] Assumes 2:1 compression for L

[2] P

INFO

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Intelligent Storage is Data Integrity

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

IS — INTELLIGENT STORAGE™