



SCALAR 234

SCALAR 458

2 TO 4 DLT DRIVES

24 TO 48 DLT CARTRIDGES

UP TO 4.6TB CAPACITY

UP TO 172GB/HOUR TRANSFER RATE

## FEATURES AND BENEFITS

- Scalable design protects investment by allowing addition of drive and tape capacity
- Integrated barcode reader provides instant media verification and inventory
- Fifth-generation media handling technology offers high reliability handling and fast media exchange time (avg. only 10 seconds)
- Built-in diagnostics perform self-calibration for system reliability and simplified service
- Field upgradable drives provide scalability and high level of investment protection
- Tower or rackmount configuration—all models available as freestanding units or can be installed in standard 19-inch racks
- 10-slot import/export mailbox makes it easy to add and remove media
- One year on-site service included for the highest levels of protection

The Scalar® 234/458 Series provides two models of scalable, multi-drive DLT™ libraries designed to protect rapidly growing data.

The Scalar series includes a broad range of flexible configurations and an upgrade path designed to protect IT departments' storage investment.

Models support up to four DLT drives, up to 48 tape cartridges, and includes a 10-position import/export mailbox. On-site upgrades make

it easy to increase drive or tape count and to incorporate new drive technologies. The Scalar Series multiple DLTape™ drives provide

sustained transfer ratings of up to 172GB

per hour and allow simultaneous

read/write operations. Reliability is

inherent to the Scalar design.

Both models perform self-calibration

routines to assure continued system reliability and simplify service.



*10-slot media mailbox for high security cartridge exchange.*



**LIBRARY CONFIGURATIONS**

	Scalar 234	Scalar 458
<b>Tape Capacity:</b>	24 <sup>1</sup>	48 <sup>2</sup>
<b>Barcode Reader:</b>	Standard	Standard
<b>10-Position Mailbox:</b>	Standard	Standard
<b>Drives:</b>	2 <sup>3</sup>	2 or 4

**DRIVES AND PERFORMANCE**

Drive Type:	DLT4000	DLT7000	DLT8000
<b>Library Capacity<sup>4</sup></b>			
458 with 48 tapes:	1.92TB	3.36TB	3.84TB
234 with 24 tapes:	960GB	1.68TB	1.92TB
<b>Transfer Rate per drive</b>			
Native:	90MB/min	300MB/min	360MB/min
With 2:1 compression:	180MB/min	600MB/min	720MB/min
<b>SCSI Interface:</b>	SCSI-2, Fast SE or HVD	SCSI-2, Fast/Wide SE or HVD	SCSI-2, Fast/Wide HVD
<b>File Access Time (Avg):</b>	68 seconds	60 seconds	60 seconds
<b>Data Compression:</b>	On-board DCLZ with variable block size		
<b>Recording Format:</b>	Multiple-Track, Linear Serpentine		
<b>Data Buffer:</b>	2MB	8MB	8MB
	Cache buffer adjusts to host rates		
<b>Media:</b>	DLTtape IV	DLTtape IV	DLTtape IV
<b>Tape Length:</b>	1800 feet	1800 feet	1800 feet
<b>Recording Density:</b>	82,000 bits/in	86,000 bits/in	89,000 bits/in
<b>Tracks Per Tape:</b>	128	208	208

**OPERATION**

<b>Cartridge Change:</b>	10 seconds maximum
<b>Indicators:</b>	Keypad with LCD menu display, power LED, and lock LED
<b>Drive:</b>	Write protected, tape in use, use cleaning tape, and tape density LEDs; density select, tape unload controls
<b>Interface</b>	
DLT4000:	Low density, 50-pin
DLT7000 and DLT8000:	High density, 68-pin

**RELIABILITY**

<b>Hard Error Rate:</b>	Less than 1 in 10 <sup>17</sup> bits read
<b>Tape Shelf Life:</b>	30 years minimum (at 20°C, 40% RH)
<b>Maintenance:</b>	Periodic drive head cleaning with DLT cleaning cartridge
<b>MSBF:</b>	Greater than 1,000,000 cartridge changes
<b>MTBF:</b>	Greater than 80,000 power on hours
<b>MTTR:</b>	Less than 30 minutes

<b>Error Correction Code:</b>	Reed Solomon ECC; 64-bit CRC on each 4KB of data; 16-bit CRC on each record; internal parity checking on cache buffer
<b>Field Replaceable:</b>	Drives, power supplies, gripper assembly, SCSI cables, fans, barcode reader, control electronics module
<b>Diagnostics:</b>	Built-In-Test (BIT), store/recall last 100 events, "fault isolation" assistance

**PHYSICAL**

<b>Dimensions:</b>	19.5" W x 23.5" D x 43.0" H (49.5cm x 59.7cm x 109.2cm)
<b>Rack Height:</b>	24u (42"/106.7cm)
<b>Weight:</b>	185 lbs (84kg) with 4 drives

**ENVIRONMENTAL**

<b>Electrical:</b>	100-240 VAC, 50-60 Hz, 4.0-2.0A Auto Voltage Select
<b>Altitude:</b>	30,000 ft. (9,144m)
<b>Temperature:</b>	10 to 40°C operating
<b>Humidity:</b>	20 to 80% non-condensing operating
<b>Noise Level:</b>	<45 dBA
<b>Vibration:</b>	0.3g (5-500-5 Hz) operating Tested per ISTA for storage/shipping
<b>Shock:</b>	3g Operating Impact tested per ISTA for storage/shipping
<b>BTU/Hour:</b>	600

**COMPLIANCE AND CERTIFICATION**

<b>Safety:</b>	UL-1950/CUL C22.2 No. 950, TUV EN 60950
<b>Emissions:</b>	FCC #47, Part 15, Class B, EN 55022
<b>Susceptibility:</b>	EN 50082-1
<b>International:</b>	CE

**SOFTWARE AND PLATFORMS**

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

<sup>1</sup> Scalar 234 models have 24 online cartridges and 10 media mailbox positions  
<sup>2</sup> Scalar 458 models have 48 online cartridges and 10 media mailbox positions  
<sup>3</sup> Can be upgraded to 4 drives  
<sup>4</sup> With 2:1 compression



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