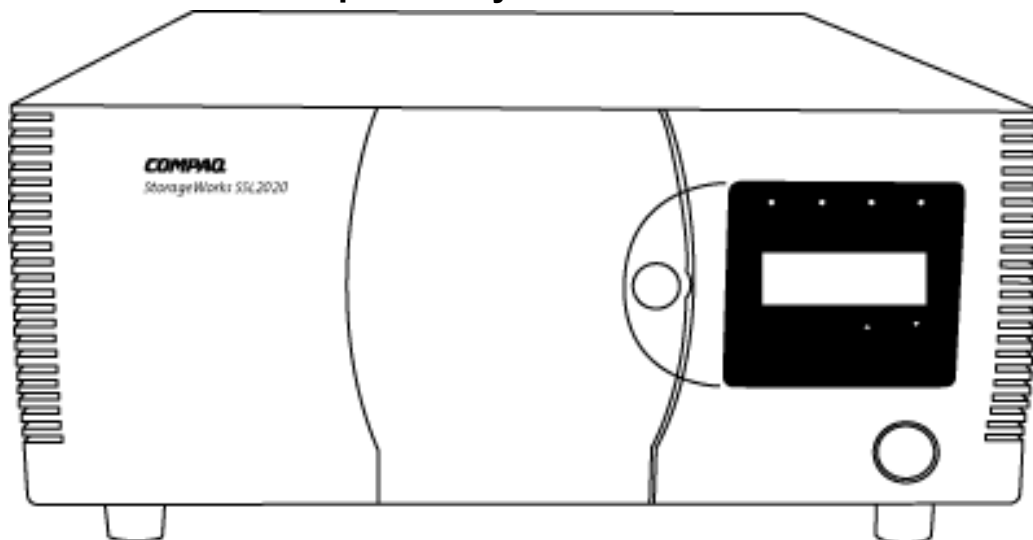


Overview

HP SSL2020 Automated AIT Tape Library Solution



HP SSL2020 AIT Mini-Library Models

The SSL2020 AIT Mini-Library offers up to two terabytes of Automated AIT backup and restoration solution in a single module Tabletop or Rackmount configuration including one and two drive models. It is scalable and flexible to grow with your company's storage needs.

(1) drive 20-slot TableTop	175195-B21
(2) drive 20-slot TableTop	175195-B22
(1) drive 20-slot Rackmount	175196-B21
(2) drive 20-slot Rackmount	175196-B22

Introduction

The SSL2020 AIT Mini-Library offers one terabyte (native) of storage in a 4U Table Top or Rack configuration.

The SSL2020 single or dual drive module is the first step to building a 10 drive, 100-slot library, for a total of 10 terabytes in a 20U space.

The HP SSL2020 is qualified with Microsoft® Windows® NT® & Windows 2000, NetWare, Tru64 Unix® and OpenVMS, as well as HP's ProLiant and AlphaServer product lines.

Customer Benefits

SSL2020 AIT Mini-Library Customer benefits include:

- Can backup large amounts of data in a small backup window
- Compatible with a wide variety of operating systems, software applications, and server platforms
- Compressed form factor only taking 4U of rack space with a single module
- Highly reliable which equates to lower cost of ownership
- Does not require special training to operate
- Removable magazine for off-site backup storage

Key Features

- Reliable, low-cost backup, restoration and archival solution that fits a growing companies storage needs
- HP is able to offer their customers larger capacity and higher performance at a lower cost
- Supports one or two AIT 50-GB tape drives for native transfer rates up to 40 GB/hr (maximum) in a single module
- Stores up to two terabytes of data (using 2-to-1 compression) in a single module
- Scalable modular design can be configured up to five modules for a total storage capacity of up to 10 terabytes

Product Highlights

High-Capacity Small Form Factor Backup and Restore

The SSL2020 is positioned to those customers needing a scalable device that will grow with their storage needs. The AIT Mini-Library is capable of automated operation for backup, restoration, and hierarchical storage management of data when coupled with a wide array of qualified industry-standard backup applications.

The SSL2020 is offered as a standalone tabletop unit or as a scalable/stackable rack mount unit, with a removable 19-cassette magazine, and integral bar code reader and either one or two Compaq AIT 50 GB drives. Add a cassette to the mailslot for a complete 20-cassette solution.

Capacity, Performance and Scalability

The SSL2020 is built on a modular concept, offering scalability and flexibility for custom configurations. Combine modules for a rackmount solution to meet specific performance and capacity requirements. The SSL2020 can be configured as a single device or a multi-module device, supporting up to five modules in a single rack configuration.

SSL2020 Mini-Library

The SSL2020 can support up to two AIT 50 GB drives, offering up to 12 MB/s of native performance. With 20 data cassettes (19-slot magazine, one mailslot), the SSL2020 offers up to two terabytes of compressed data storage capacity in a small 4U height.

Advanced Intelligent Tape (AIT) Technology

AIT drive employs a helical scan recording style in which data tracks are written at an angle relative to the edge of the tape. This provides higher density recording, enabling Compaq customers to lower costs and increase efficiency by storing more data on a single tape.

Qualified with HP's Data Protection Suite for Tape Utilities

Complete set of Data Protection Tools focused on simplifying the process of configuring, implementing, and maintaining a data protection strategy. Includes software applications such as Tape Storage Management Console and Insight Manager, as well as product information tools including technology White Papers, Service Advisories, and the Storage Products CD. For information on the Data Protection Software Suite, please check the "Related Options" section of this QuickSpec or visit the Web site at: <http://h18000.www1.hp.com/storage/software.html>.

Memory-In-Cassette (MIC)

AIT technology features Memory-In-Cassette (MIC), a 16-Kb memory chip built into the data cassette which speeds access to your data. The MIC chip provides sophisticated data access capability that allows users to load and unload the tape at the mid-point, which helps in locating files in seconds.

Compatibility and Integration Testing

HP's SSL2020 ensures the customer of full compatibility with HP's ProLiant servers, AlphaServers and controllers. HP thoroughly tests products with leading software and operating systems, including VERITAS Backup Exec, CA ARCserve and Dantz Retrospect.

Manageability

The SSL2020 AIT library configurations are fully supported through Compaq Insight Manager, providing information to administrators for both robotic and tape status changes. Other data and automation manageability features are provided via specific third party applications software packages.

Product Highlights

O/S Support	Windows NT v4.0 SP5
	Windows 2000
	Novell NetWare v4.12
	Novell NetWare v5.0
	Open VMS v7.1-2 and 7.2-1

Server Support	High-End ProLiant Servers	ProLiant 8500	ProLiant 6400R
		ProLiant 8000	ProLiant DL580
		ProLiant 7000	ProLiant 6000 (Xeon)
	Departmental ProLiant Servers	ProLiant 5500/5500R (Xeon)	ProLiant ML530
		ProLiant ML570	ProLiant 3000
	Workgroup ProLiant Servers	ProLiant 1850R	ProLiant 800
		ProLiant DL380	ProLiant ML350
		ProLiant 1600	
	AlphaServer Systems	AlphaServer GS360	AlphaServer 1200/DS20(E)
		AlphaServer 4100/ES40	AlphaServer 800/DS10
	SCSI Controllers	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
		64-bit Dual Channel for AlphaServers (SE/LVD)	SN-KZPCA-AA

Application Support	Backup/Restoration Applications Software Packages	VERITAS Software Backup Exec v8.0 for Windows NT and Windows 2000 Computer Associates ARCserveIT v6.61 Windows NT VERITAS Software Backup Exec v8.5 for NetWare Computer Associates ARCserveIT v6.61 for NetWare Dantz Retrospect Backup v5.6 (Server and Workgroup versions) for Windows NT/2000 Archive Backup System for OpenVMS v2.2 Storage Library System v2.9b for OpenVMS
	Automation and Network Utilities	Media Robot Utility (MRU) v1.4 Insight Manager

Warranty	1 year, on-site next-day response NOTE: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.
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Software Components

SmartStart	The server configuration and software integration tool from HP.
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Product Highlights

CS Support

HP Services provides a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers and toll-free 7 x 24 hardware technical phone support during the warranty period. In addition, available service offerings include a full range of HP Care Pack packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Additional Warranty protection and/or HP Installation packages can be purchased for the SSL2020 AIT Library products.

Service and Support, HP Care Pack and Warranty Information

Software Product Services

- Stand-alone telephone support
 - Rights to a new license
 - Media and documentation updates
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Hardware Product Services

- Installation services
- On-site Maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage
- RAID setup and performance consulting via statement of work

For additional hardware installation and maintenance information please refer to the URLs listed below:

http://h18005.www1.hp.com/services/carepaq/us/install/cp_storage.html

http://h18005.www1.hp.com/services/carepaq/us/hardware/cp_storage.html

Warranty Upgrade Options

- Response – Upgrade on-site response from next business day to same day 4-hours
 - Coverage – Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
 - Duration – Select duration of coverage for a minimum period of 1 year or multiple years
-

HP Care Pack Information

HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.

HP Care Pack is not available for less than the product's warranty duration.

HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.

HP Care Pack services are prepaid.

For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL

<http://h18005.www1.hp.com/services/carepaq/index.html>

Configuration Information

Step 1 – SDLT 220 Tape Drive - Base Configuration

Select one:

	Model Description	Part Number
SSL2020,TT	AIT Library device, one or two drives, bar code reader, removable 19-slot magazine, one AIT 50-GB data cassette one AIT cleaning cassette, one 8.5 x 11 sheet bar code labels, English hardcopy documentation (Installation and User's Guide), translated documentation CD, installation and configuration CD, HP Storage Management Solutions kit, MRU and diagnostic software, and US power cord.	175195-B21
		175195-B22
SSL2020,RM	Rackmount versions contain all of the above and mounting rails for HP racks.	175196-B21
		175196-B22

Step 2 – Required Options

Select each required option with quantities specified:

Description with parts shipped	Quantity	Part Number
SCSI Cable	1	See SCSI Cable Kits for Part number

Step 3 – Additional Options

Select each required option with quantities specified:

Description with parts shipped	Quantity	Part Number
Pass Thru with Transport – used with two or more modules to exchange media between modules	1	175312-B21
Pass Thru Extender – extends the transport when more than two modules are connected	1	175312-B22

Related Options

The SSL2020 solution includes:

AIT Library device, one or two drives, bar code reader, removable 19-slot magazine, one AIT 50-GB data cassette, one AIT cleaning cassette, one 8.5 x 11 sheet bar code labels, English hardcopy documentation (Installation and User's Guide), translated documentation CD, installation and configuration CD, HP Storage Management Solutions kit, MRU and diagnostic software, and US power cord.

Rackmount versions contain all of the above and mounting rails for Compaq racks.

		UPC Code	Part Number
AIT Library System	SSL2020 AIT Library, 1 Drive, Table Top, LVD	720591337728	175195-B21
	SSL2020 AIT Library, 2 Drives, Table Top, LVD	720591337735	175195-B22
	SSL2020 AIT Library, 1 Drive, Rack Mount, LVD	720591337742	175196-B21
	SSL2020 AIT Library, 2 Drives, Rack Mount, LVD	720591337759	175196-B22
Mini-Library Pass Thru Kits (needed for multiple modules configuration)	Pass Thru Transport	720591338688	175312-B21
	Pass Thru Extender	720591338695	175312-B22

Configuration Information

Drive Upgrade Kits	Add-on AIT 50-GB Drive For SSL2020	720591337766	175197-B21
Cassettes and Accessories	19-slot magazine	720591337773	175198-B21
	AIT 100-GB Data Cassette, 1 pack		Q1998A
	AIT Cleaning Cassette		Q1996A
	AIT Bar Code Labels (qty 54 data + 6 cleaning labels)		Q2005A
SCSI Controllers	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	743172876379	129803-B21
	64-bit Dual Channel for AlphaServers (SE/LVD)		SN-KZPCA-AA
SCSI Cable Kits	Wide Differential SCSI cable, 5m	743172633910	328215-001
	Wide Differential SCSI cable, 10m	743172633927	328215-002
	Wide Differential SCSI cable, 15m	743172633934	328215-003
	Wide Differential SCSI cable, 20m	743172633941	328215-004
	SCSI Cable, VHDCI/W, 6 ft	743172660831	341177-B21
	SCSI Cable, VHDCI/W, 12 ft	743172660848	341177-B21
Rack Mounting Kits	Mini-Library Table Top to Rack Mount Conversion Kit, Compaq and StorageWorks racks by Compaq	720591337988	175199-B21

Technical Specifications

Control Panel	Library and Drive Status Move tape cassettes Load/Unload tape drives Maintenance (drive cleaning, diagnostics) Library Configuration Statistics
SCSI Interface	SCSI LVD
UPC Codes	175195-B21 720591337728 175195-B22 720591337735 175196-B21 720591337742 175196-B22 720591337759 175197-B21 720591337766 175198-B21 720591337773 175199-B21 720591337988 175312-B21 720591338688 175312-B22 720591338695 179992-001 720591363512
Form Factor	Rack Mount (RETMA, Metric) Table Top
Shipping Dimensions (HxWxD)	13.6 x 23 x 32 in (34.5 x 58.4 x 81.3 cm)
Dimensions (HxWxD)	TableTop 7.9 x 17.3 x 24 in (20 x 44 x 61 cm) Rack Mount 6.7 x 17.3 x 24 in (17 x 44 x 61 cm)
Unit Weight	Single Drive 75 lb/34 kg Dual Drive 78 lb (35.4 kg)
Capacity (native)	SSL2020 module 1 terabyte
Performance (native)	6 MB/s per drive SSL2020 single module Supports 1 or 2 AIT 50-GB drives for native transfer rates up to 43 GB/hr Maximum Configuration (5 modules) Supports 10 x AIT 50-GB drives for native transfer rates up to 216 GB/hr
Storage Capacity (compressed @ 2:1)	100 GB per cassette SSL2020 single module Supports 20 AIT 50-GB cassettes for compressed capacity up to 2 terabytes Maximum Configuration (5 modules) Supports up to 100 cassettes for compressed capacity up to 10 terabytes
Power Consumption	SSL2020 single module 115 VAC @ 1.8 A 240 VAC @1.2 A Power Requirement 200W, maximum
Acoustic Noise	Noise Power Emission Level 7 bels, maximum Avg. Sound Pressure Level 52 dBA
Reliability	MTBF 250,000 hours (30% duty cycle)
Product Safety Requirements and Approvals	EN60950 (IEC 950), UL1950, CSA C22.2 950, VDE 0805/11.92 (TUV), EMKO-TSE 207/94 (NEMKO, FIMKO, DEMKO, SEMKO), NOM-019-SCFI-1993, KONKAR, MEEI, GOST, EVPU, SIQ, VCCI Class 1, C-Tick (Class A) SMA AZ/NZS 3548 Class A, BCIQ, CE Marking Directive (93/68/EEC) (Class A), EMC Directive (89/336/EEC), Low Voltage Directive (73/23/EEC)

Technical Specifications

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