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Product Datasheet

HP StorageWorks SSL2020 Automated AIT Tape Library

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MODELS

HP SSL2020 AIT Mini-Library

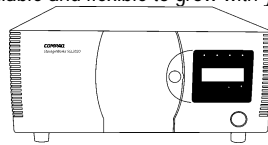
175195-B21 (1) drive 20-slot TableTop

175195-B22 (2) drive 20-slot TableTop

175196-B21 (1) drive 20-slot Rackmount

175196-B22 (2) drive 20-slot Rackmount

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.



OVERVIEW

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.

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.

PRODUCT HIGHLIGHTS *(continued)*

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 website at: <http://www.compaq.com/products/sanworks/dataprotectsoft/index.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.

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 8000
ProLiant 7000
ProLiant 6400R
ProLiant DL580
ProLiant 6000 (*Xeon*[™])

Departmental ProLiant Servers

ProLiant 5500/5500R (*Xeon*)
ProLiant ML570
ProLiant ML530
ProLiant 3000

Workgroup ProLiant Servers

ProLiant 1850R
ProLiant DL380
ProLiant 1600
ProLiant 800
ProLiant ML350

PRODUCT HIGHLIGHTS *(continued)*

Server Support *(continued)*

AlphaServers

AlphaServer GS60
AlphaServer 4100/ES40
AlphaServer1200/DS20(E)
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

HP supports the following 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.

SOFTWARE COMPONENTS

SmartStart™

The server configuration and software integration tool from HP.

CS Support

HP Services provides a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers and lifetime toll-free 7 x 24 hardware technical phone support. In addition, available service offerings include a full range of CarePaq 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

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)

HP SERVICE & WARRANTY SUPPORT

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

Software Product Services

- Standalone telephone support
- Rights to a new license
- Media and documentation updates

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 URL's listed below:

<http://www.compaq.com/services/carepag/us/install/>

<http://www.compaq.com/services/carepag/us/hardware/>

NOTE: These Web sites are available in English only.

Warranty Upgrade Options

- Response - Upgrade on-site response from next business day to same day 4-hours
- Coverage - Extend hours of coverage from 9 hours x 5 days to 24 hours x 7 days
- Duration - Select duration of coverage for a period of 1, 3, or 5 years

CarePaq Information

- CarePaq is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- CarePaq is not available for less than the products warranty duration.
- CarePaq 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.
- CarePaq services are prepaid.

For additional CarePaq (hardware & software) information, as well as, orderable part numbers please refer to the URL listed below:

<http://www.compaq.com/services/carepag/index.html>

NOTE: This Web site is available in English only.

CONFIGURATION INFORMATION

STEP 1 – SSL2020 – BASE CONFIGURATION

Select one:

Model Number	Part Number	Model Description:
SSL2020,TT	175195-B21	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 HP racks.
	175195-B22	
SSL2020,RM	175196-B21	
	175196-B22	

STEP 2 – REQUIRED OPTIONS

Select each required option with quantities specified

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

STEP 3 – ADDITIONAL OPTIONS

Select each option with quantities specified

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

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.

AIT Library System	SSL2020 AIT Library, 1 Drive, Table Top, LVD	175195-B21	UPC: 720591337728
	SSL2020 AIT Library, 2 Drives, Table Top, LVD	175195-B22	UPC: 720591337735
	SSL2020 AIT Library, 1 Drive, Rack Mount, LVD	175196-B21	UPC: 720591337742
	SSL2020 AIT Library, 2 Drives, Rack Mount, LVD	175196-B22	UPC: 720591337759
Mini-Library Pass Thru Kits (needed for multiple modules configuration)	Pass Thru Transport	175312-B21	UPC: 720591338688
	Pass Thru Extender	175312-B22	UPC: 720591338695
Drive Upgrade Kits	Add-on AIT 50-GB Drive For SSL2020	175197-B21	UPC: 720591337766
Cassettes and Accessories	19-slot magazine	175198-B21	UPC: 720591337773
	AIT 50-GB Data Cassette, 5 pack	152841-001	UPC: 743172966902
	AIT Cleaning Cassette	402374-B21	UPC: 743172761996
	AIT Bar Code Labels (qty 54 data + 6 cleaning labels)	230430-B21	UPC: 720591702205
SCSI Controllers	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21	UPC: 743172876379
	64-bit Dual Channel for AlphaServers (SE/LVD)	SN-KZPCA-AA	
SCSI Cable Kits	Wide Differential SCSI cable, 5m	328215-001	UPC: 743172633910
	Wide Differential SCSI cable, 10m	328215-002	UPC: 743172633927
	Wide Differential SCSI cable, 15m	328215-003	UPC: 743172633934
	Wide Differential SCSI cable, 20m	328215-004	UPC: 743172633941
	SCSI Cable, VHDCI/W, 6 ft	341176-B21	UPC: 743172660831
	SCSI Cable, VHDCI/W, 12 ft	341177-B21	UPC: 743172660848
Rack Mounting Kits	Mini-Library Table Top to Rack Mount Conversion Kit, Compaq and <i>StorageWorks</i> ™ racks by Compaq	175199-B21	UPC: 720591337988
Tape Storage Software	Data Protection Software Suite	259596-B21	UPC: 613326269466

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