

# QUICKSPECS

Compaq 20/40-GB DAT  
DDS-4 8 Cassette Autoloader

**20/40-GB DAT  
DDS-4  
8 Cassette Autoloader**  
*166504-B21*  
(Internal)  
*166505-001*  
(External)

The Compaq 20/40-GB DAT 8 Cassette Autoloader includes an integrated DDS-4 DAT Drive and changer mechanism with convenient access to an eight cassette magazine, allowing you to develop a media management tape rotation scheme for scheduled backups of servers 40 GB or less.

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## Industry Standard DDS-4

The DDS-4 technology has a drum rotation speed of 8,503 rpm while the tape moves at 11.6 mm/s. Features of the format allow a linear bit density greater than DDS-3, which increases transfer rate and capacity.

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## Investment Protection

The 20/40-GB DAT autoloader uses a compatibility mode to read and write DDS-1, DDS-2, DDS-3 and DDS-4 tapes. This offers investment protection for users who have standardized with the DAT technology. Users will also have the ability to restore archived media from previous backups and interchange with previously shipping Compaq DDS-3 6 and 8 cassette Autoloader drives.

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## Lowers TCO with Automation

Automated DAT backup systems offer lower total cost of ownership with a higher storage capacity and performance than a stand alone tape backup drive and is targeted at the price sensitive environments.

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## Operating Environment Support

Microsoft Windows NT

Supported on NT v4.0 with VERITAS Backup Exec v7.3 for NT and CA ARCserveIT v6.61 for NT. Both software packages require optional autoloader modules.

Novell Netware v4.x & 5.x

Supported on Netware v4.x and 5.x with VERITAS Backup Exec v8.5 for Netware and CA ARCserveIT v6.61 for Netware. Both software packages require optional autoloader modules.

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## Option Kit Contents

20/40-GB DAT DDS-4 8 Cassette Autoloader Internal

20/40-GB DAT drive w/loader mechanism  
Documentation  
8 Cassette Magazine  
1 Data Cassette and 1 Cleaning Cassette  
Live Trial Software

20/40-GB DAT DDS-4 8 Cassette Autoloader External

20/40-GB DAT drive w/loader mechanism in an enclosure  
Documentation  
8 Cassette Magazine  
1 Data Cassette and 1 Cleaning Cassette  
Power Cord  
External LVD SCSI Cable  
Live Trial Software

## SPECIFICATIONS

### Warranty

Maximum	The remaining warranty of the Compaq Server product in or onto which it is installed (to a maximum three-year limited warranty) (Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. In Canada, consult the Product Information Center at 1-800-567-1616 for details.)
Minimum	Three year parts, one year next-business day exchange

### Liquid Crystal Display (LCD)

The dot matrix front panel information display provides user-friendly information on the autoloader's operating status, potential error conditions, current cassette and magazine status.

### Recommended Maximum Server Size

40 GB

### Performance Specification

Native (maximum)	8.4 GB/hour
Native (typical)	6.0 GB/hour
2:1 Compression (maximum)	16.8 GB/hour
2:1 Compression (typical)	15 GB/hour

**Note:** Typically, users will be able to compress their data at a 2 to 1 ratio; however, compression ratios will vary based on the type of data being compressed.

Cartridge Swap Time	50 seconds/average
Load Time	58 seconds/average
Unload Time (depending on tape type and position)	32 seconds to 160 seconds
Search Speed	45 seconds average file access for any part of a 150 meter tape

### Maximum Formatted Capacity (unattended)

8-Cassette Magazine	
Without compression	160 GB
Based on typical 2:1 compression ratio	320 GB

**Note:** Typically, users will be able to compress their data at a 2 to 1 ratio; however, compression ratios will vary based on the type of data being compressed.

### Mechanical Measurements

Tape Width	0.15 in/3.81 mm
Tape Length	492 ft/150 m
Dimensions (HxWxD)	3.25 x 5.75 x 9.51 in/82.5 x 146 x 241.6 mm
Weight	5.258 lbs/2.4 kg

### Tape Speed

Read/Write	0.46 ips/11.6 mm/s
Head to Tape Speed	262 ips/6,670 mm/s
Rewind/Fast Forward	130 x Read/Write Speed

## SPECIFICATIONS *(continued)*

### Tape Format

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Recording Method	Helical Scan
Bytes/Group	38,4296
Data Frame/Group	22
Density/Inch	122,000
Flux Reversal/Inch	1,524,000
Track Density/Inch	2,793
Data Encoding Method	PRML
Data Transfer Rate	2.3 MB/s
Error Detection/Correction	Reed-Solomon-3 levels
Reliability Cartridge Swaps	> 100,000
MTBF	250,000 hours at 30% duty cycle

## RELATED OPTIONS

20-GB DAT Cassette (10 pack)	152842-001
DAT Cleaning Cassette	242781-001
8-Cassette Magazine W/7 Data Cassette and 1 Cleaning Cassette	171532-B21

## COMPATIBILITY

### Enterprise Servers

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Compaq ProLiant 8000 Family  
Compaq ProLiant 7000 Family  
Compaq ProLiant 6000 Family  
Compaq ProLiant 5000 Family  
Compaq ProLiant 4000 Family

### Corporate Servers

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Compaq ProLiant 3000 Family  
Compaq ProLiant 2000 Family  
Compaq ProLiant 1000 Family

### SMB Servers

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Compaq ProLiant 800  
Compaq ProLiant 400

### Alpha Servers

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Alpha Server GS Family  
Alpha Server ES Family  
Alpha Server DS Family  
Alpha Server 800  
Alpha Server 1200/AS4100

### Controllers

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#### *Alpha based servers*

KZPBA-CA (UWSE)  
KZPBA-CB (UWD)  
KZPCM-DA (UWSE)  
KZPCA-AA (UWLVD/SE)

#### *Intel based servers*

32-bit Fast Wide SCSI-2/E	142290-001
Dual Channel Wide-Ultra SCSI-3	295554-B21
Wide-Ultra SCSI-3	272514-001
64-bit Dual Channel (LVD)	348757-B21