

IBM System Storage Product Guide



The future of your business is already here

IBM System Storage™ solutions are built with the success of your business in mind. End-to-end storage ingenuity and unmatched expertise from IBM help you reduce costs, risks and complexity while improving efficiencies and the responsiveness of your infrastructure and people.

Go green for the planet—and your bottom line

Saving energy means saving money. Get a green “thumbs up” when you implement IBM System Storage solutions to drive down runaway costs in power, cooling and space. Regardless of the size of your business, IBM offers energy-efficient strategies and savings for a sustainable enterprise.

Power up your savings by powering down storage inefficiencies

- Prepackaged storage kits and advanced systems virtualization from IBM facilitate easier ways for you to reduce costs, lower energy consumption and dramatically improve storage utilization—without affecting performance.
- Automated tiered storage management and exceptional data mobility let you better match applications and investments to the value of stored data—saving both time and money.

Easy come, easy grow with a nimble, responsive IT infrastructure

Being responsive to changing business needs is often easier said than done. IBM System Storage helps you unlock business resiliency and stay ahead of everyday challenges, with easy-to-use, affordable storage offerings that flexibly manage growth, complexity and risk.

Effectively manage your data with the strength and simplicity of IBM System Storage

- Simplified storage platforms from IBM use graphical interfaces and integrated systems to effortlessly manage both physical and virtual resources across a heterogeneous environment—for easier management of your growing business.
- IBM System Storage platforms allow you to dynamically and reliably scale storage with pervasive infrastructure flexibility to keep you in control of data growth and costs.
- Protecting data is vital to operating efficiently under normal business conditions—and rapidly recovering during emergencies. System Storage helps you reduce risk with rock-solid data protection tools and high availability across the enterprise, especially when you need it most.

Broaden your business horizons with innovation that matters

Imagine breakthrough innovations that allow you to run your organization not only faster, but better, helping to attract new customers and gain competitive advantages. System Storage solutions help you stay consistently out front so that you can make strategic decisions on how to use advancements in technology to broaden your business and gain a better return on investment.

Transform your business through innovation that matters

- Delineated along a clear technical roadmap to help ensure smooth upgrades and transitions, IBM storage platforms are designed to meet even the most stringent data storage requirements, regardless of changes in future technology.
- The long-term binary compatibilities of System Storage platforms foster longevity of the equipment, applications and skills that support your organization, even as new systems are introduced.

Entry-level/Midrange Tape Products



	Entry-level Tape Drives				Entry-level Tape Libraries				Midrange Tape Drives		Midrange Tape Libraries	
	TS2230	TS2240	3580	TS2340	TS3100	TS3100	TS3200	TS3200	TS1030	TS1040	TS3310	TS3500
Product	3580	3580	3580	3580	3573 L2U	3573 L2 3 featuring Ultrium Half-High drives	3573 L4U	3573 L4U featuring Ultrium Half-High drives	3588	3588	3576	3584
Machine Type model	3580 H3L, H3S, PNs 3580L3E, 3580S3E	3580 H4S, PNs 3580S4E, 3580E4S	3580 L33, PN 3580L3H	3580 L43, S43, PNs, 3580L4X, 3580S4X	3573 L2U and PNs 3573L3S, 3573F3S, 3573L4S, 3573F4S, 3573S4S	3573 PNs 3573L32, 3573S32, 3573 S42, 3573 E42	3573 L4U and PNs 3573L3H, 3573F3H, 3573L4H, 3573F4H, 3573S4H	3573 PNs 3573L34, 3573S34, 3573 S44, 3573 E44	3588 F3B	3588 F4A	3576 L5U E9U	3584 L53 D53
Product strengths	Multiplatform support Half-high form factor Lower entry price	3 Gbps SAS attachment Encryption capable Multiplatform support High capacity Half-high form factor	Multiplatform support Backward read capable to LTO1 Max performance for LTO3	3 Gbps SAS attachment Encryption Multiplatform support High performance High capacity	Multiplatform support High performance High capacity	Multiplatform support, Same capacity as full high at a lower price Supports both LTO3 and LTO4 Half-high drives	Multiplatform support High performance High capacity	Multiplatform support, Same capacity as full high at a lower price Supports both LTO3 and LTO4 Half-high drives	Multiplatform support High performance High capacity	Multiplatform support High performance High capacity Data protection	Multiplatform support High performance High capacity Modular design	Multiplatform support High performance High capacity
Number of drives	1	1	1	1	1	1–2 LTO half-high	1–2	1–4 LTO half-high	1	1	1–18	1–192
Max number of cartridges	1	1	1	1	24	24	48	48	NA	NA	396	6,887 ¹
WORM/Encryption	yes/no	yes/yes	yes/no	yes/yes	yes/yes	yes/yes	yes/yes	yes/yes	yes/no	yes/yes	yes/yes	yes/yes
Native capacity	Gen 3: 400 GB	Gen 4: 800 GB	Gen 3: 400 GB	Gen 4: 800 GB	Gen 3: 9.6 TB Gen 4: 19.2 TB	Gen 3: 9.6 TB Gen 4: 19.2 TB	Gen 3: 19.2 TB Gen 4: 38.4 TB	Gen 3: 19.2 TB Gen 4: 38.4 TB	400 GB	800 GB	Gen 3: 158.4 TB Gen 4: 316.8 TB	Up to 5.5 PB
Typical capacity²	Gen 3: 800 GB	Gen 4: 1600 GB	Gen 3: 800 GB	Gen 4: 1600 GB	Up to 38.4 TB	Up to 38.4 TB	Up to 76.8 TB	Up to 76.8 TB	800 GB	1600 GB	Up to 633.6 TB	Up to 11 PB
Native performance	Gen 3: 60 MBps	Gen 4: 120 MBps	Gen 3: 80 MBps	Gen 4: 120 MBps	120 MBps	Up to 240 MBps	Up to 240 MBps	Up to 480 MBps	80 MBps	120 MBps	2.16 GBps	Up to 23 GBps
Interface	LVD SCSI, 3 Gbps SAS	3 Gbps SAS	LVD SCSI	LVD SCSI, 3 Gbps SAS	4 Gbps FC 3 Gbps SAS LVD SCSI	3 Gbps SAS LVD SCSI	4 Gbps FC 3 Gbps SAS LVD SCS	3 Gbps SAS LVD SCSI	4 Gbps FC	4 Gbps FC	4 Gbps FC 3 Gbps SAS LVD SCSI	4 Gbps FC
Supported tape libraries	NA	NA	NA	NA	N/A	NA	NA	NA	TS3500	TS3500	NA	NA
Platform support⁴	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System x and others supporting 3 Gbps attach	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux	System p, System i, System x, Microsoft Windows, HP-UX, Sun Solaris, Linux
Application support⁵	A, B, C, D, E, F, G, H, J, L, M	A (others in plan)	A, B, C, D, E, F, G, H, J, L, M, N'	A (others in plan)	A, B, C, D, E, F, G, H, J, L, M, N'	A, B (others in plan)	A, B, C, D, E, F, G, H, J, L, N'	A, B (others in plan)	A, B, C, D, E, F, G, H, J, L ⁷	A (others in plan)	A, B, C, D, E, F, G, H, J, L ⁷	A, B, C, D, E, F, G, H, J, L ⁷
Media	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8
Warranty period	3 years ⁶	3 years	3 years ⁶	3 years ⁶	3 years ⁶	3 years ⁶	3 years ⁶	3 years ⁶	1 year	1 year	1 year	1 year
Warranty type	CRU	CRU	CRU	CRU	CRU	CRU	CRU	CRU	Onsite Repair (24x7)	Onsite Repair (24x7)	Next Business Day (9x5)	Onsite Repair (24x7)

F/W = Fast/Wide, Diff = Differential, N/A = Not Applicable, FC = Fibre Channel, X = Extended length cartridge, IOE = IBM Onsite Exchange, CRU = Customer Replaceable Unit

NOTES 1: Max number of cartridges decreases as tape drives are added. 2: Typical compression for open system environments is 2:1 (user results may vary) 4: Also includes selected IBM xSeries®, IBM Netfinity®, IBM System i, IBM AS/400® and IBM System p servers. System z support for Linux only

5: Refer to <http://www-03.ibm.com/systems/storage/tape/library.html#interoperability> for current application support 6: In most countries 7: The following vendors provide application support to the platforms defined above: A = IBM Tivoli® Storage Manager, B = Symantec VERITAS NetBackup, C = Symantec VERITAS Backup Exec, D = EMC Legato NetWorker, E = CA BrightStor ARCserve Backup, F = HP OpenView Storage Data Protector, G = CommVault Galaxy, H = BakBone NetVault, I = LSC, J = IBM BRMS, K = IBM OnDemand, L = Help/Systems Robot/Save, M = LXI Media Management, N = Dantz.

Enterprise Tape Products



	Tape Drive	Tape Controller	Tape Library		Tape Virtualization	
	3592	3592	3577	3584	Virtualization Engine	
Product	TS1120	TS1120	TS3400	TS3500	TS7530	TS7740
Machine Type model	3592 E05	3592 C06	3577 L5U	3584 L23 D23	3954 CV7 (requires additional machine types and models)	3957 V06 (requires additional machine types and models)
Product strengths	Multiplatform support High performance High capacity Data protection	System z attachment of TS1120 drives High performance	Compact format Operates in library or autoloader mode	Multiplatform support Advanced management Scalable	Reduces backup window Reduces recovery time High capacity	Increases performance Scalable Helps reduce cost
Number of drives	1	1–12	1–2	1–192	Up to 1024 (1 node)* Up to 4096 (4 node)*	Up to 128* Up to 768* (3 site GRID)
WORM/Encryption	yes/yes	yes/yes	yes/yes	yes/yes	no/yes	no/no
Number of cartridges	NA	NA	18	6260 ²	Up to 64,000 (1 node)* Up to 256,000 (4 node)*	Up to 1,000,000*
Native capacity	60/100 GB (JJ/JR media) 300/500 GB (JA/JW media) 700 GB (JB/JX media)	NA	Up to 1.8 TB Up to 9 TB Up to 12.6 TB	Up to 626 TB Up to 3.1 PB Up to 4.3 PB	Up to 1.7 PB	Up to 6 TB Up to 18 TB (3 site GRID)
Typical capacity¹	180/300 GB with JJ/JR 900/1500 GB with JA/JW 2.1 TB with JB/JX	NA	Up to 5.4 TB Up to 27 TB Up to 37.8 TB	Up to 1.87 PB Up to 9.3 PB Up to 13.1 PB	Up to 1.7 PB Up to 2.6 PB	Up to 18 TB Up to 54 TB (3 site GRID)
Native performance	Up to 104 MBps	Varies ⁸	Up to 208 MBps	Up to 19.2 TBps	Up to 4.8 GBps	Up to 600 MBps
Interface	4 Gbps FC	4 Gbps FC	4 Gbps FC	4 Gbps FC	4 Gbps FC	4 Gbps FC
Supported tape library	TS3400, TS3500, 3494***	TS3400, TS3500, 3494***	NA	NA	TS3500, TS3310, TS3200, TS3100, 3494***	TS3500, 3494***
Platform support⁶	System p, System i, System x, System z; Microsoft Windows; HP-UX; Sun Solaris; Linux	System p, System i, System x, System z; Microsoft Windows; HP-UX; Sun Solaris; Linux	System p, System i, System x, System z; Microsoft Windows; HP-UX; Sun Solaris; Linux	System p, System i, System x, System z; Microsoft Windows; HP-UX; Sun Solaris; Linux	System p, System x, System z ¹⁰ , System i ¹¹ ; Microsoft Windows; HP-UX; Sun Solaris; Linux	System z
Application support⁶	A B C D E F G H J L ⁷	A B C D E F G H J L ⁷	A B C D E J	See drive	A, B	E
Media	Refer to Tape Media, page 8	NA	Refer to Tape Media, page 8	Refer to Tape Media, page 8	NA	NA
Warranty period	1 year	1 year	1 year	1 year	1 year	1 year
Warranty type	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)

* Virtual resource specification
 ** for data replication only
 *** Product withdrawn from marketing

F/W = Fast/Wide, Diff = Differential, N/A = Not Applicable, FC = Fibre Channel, X = Extended length cartridge, IOE = IBM Onsite Exchange, CRU = Customer Replaceable Unit

NOTES 1: Typical compression for mainframe environments is 3:1; 2:1 for open systems (user results may vary) **2:** Max number of 3592 cartridges decreases as tape drives are added **3:** IBM AIX® 4.1.5 or later. **4:** Load and search only **5:** Server platforms with SAN-ready attachability, model- and feature-dependent.

6: The latest ISV support can be found in the connectivity section at <http://www-03.ibm.com/systems/storage/tape/library.html#compatibility>. **7:** The following vendors provide application support to the platforms defined above: **A** = IBM Tivoli Storage Manager, **B** = Symantec VERITAS NetBackup, **C** = Symantec VERITAS Backup Exec, **D** = EMC Legato NetWorker, **E** = CA BrightStor ARCserve Backup, **F** = HP OpenView Storage Data Protector, **G** = CommVault Galaxy, **H** = BakBone NetVault, **I** = LSC, **J** = IBM BRMS, **K** = IBM OnDemand, **L** = Help/Systems Robot/Save, **M** = LSI Media Management. **8:** Performance varies by environment **10:** Applies to Linux on System z using FCP **11:** Requires RPO **12:** EE=Enterprise Edition LE=Limited Edition

Other Backup Tape Products



	Tape Drives					Optical	
	7206-336	7206-VXA	7207	7212	7214	7210	3996
Product	DAT72 Tape Drive	VXA-2 Tape Drive	SLR60 Tape Drive	Device Enclosure*	Device Enclosure*	DVD option	Library
Machine Type	7206	7206	7207	7212	7214	7210	3996
model	336-DDS Gen 5	VX2, VX3	330	103	1U2	030	32, 80, 174
Product strengths	Cost-effective streaming tape drive	Low-cost, high-capacity VXA-2 technology	Backward read/write compatible with System i internal	Rack-mountable 2-drive enclosure utilizes only 1U (1.75") of space	Rack-mountable 2-drive enclosure utilizes only 1U (1.75") of space	External deskside	Large scale optical
Number of drives	1	1	1	1–2	1–2	1	Up to 4
Max number of cartridges	1	1	1	2	2	1	Up to 174
Cartridge capacity native/compressed	36/72 GB	VX2: 80/160 GB VX3: 160/320 GB	330: 30/60 GB	DVD: Variable (FC1103) VXA2: 80/160GB (FC1104) DAT72: 36/72GB (FC1105) SLR60: Variable (FC1107) SLR100: Variable (FC1108) HHLT02: 200/400GB (FC1109) XVA320 (FC1114)	DVDRAM: Variable (FC1420) DVDROM: Variable (FC1421) DAT72: 36/72 GB (FC1400)	4.9/9.4 GB	60 GB
Max drive data rate ¹ native/compressed	336: 3/6 MBps	VX2: 6/12 MBps VX3: 12/24 MBps	330: 4/8 MBps	DDS/DAT72: 3/6 MBps VXA: 12/24 MBps	DAT72 3/6 MBps	NA	12 MBps
Interface	SCSI-2 F/W SE, LVD/SE	SCSI-3 ULTRA, LVD/SE, 160/320	SCSI-2 SE, ULTRA, LVD/SE, 160/320	SCSI-3 ULTRA, LVS/SE, 160/320	3 Gbps SAS	SCSI-3 ULTRA, LVD-SE, 160/320	LVD SCSI, 160/320
Platform support ³	System p	System p, System i	System p, System i	System p, System i	System p, System i	System p, System i	System p, System i, System x
Media	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8	Refer to Tape Media, page 8
Warranty period	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Warranty type	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	Onsite Repair (24x7)	CRU, Onsite Repair	Onsite Repair (9x5)

* 7212-102 and 7214-1U2 also offer DVD-ROM and DVD-RAM optical drives
For most current information, visit: ibm.com/servers/storage/tape/compatibility/index.html

F/W = Fast/Wide, Diff = Differential, N/A = Not Applicable, FC = Fibre Channel, X = Extended length cartridge, IOE = IBM Onsite Exchange, CRU = Customer Replaceable Unit

NOTES 1: Compressed data rates are estimates and are data-, application- and processor-dependent. User results may vary. **3:** Server platforms with SAN-ready attachability, model- and feature-dependent. **6:** The following vendors provide application support to the platforms defined above:

A = IBM Tivoli Storage Manager, **B** = Symantec VERITAS NetBackup, **C** = Symantec VERITAS Backup Exec, **D** = EMC Legato NetWorker, **E** = CA BrightStor ARCserve Backup, **F** = HP OpenView Storage Data Protector, **G** = CommVault Galaxy, **H** = BakBone NetVault, **I** = LSC, **J** = IBM BRMS, **K** = IBM OnDemand, **L** = Help/Systems Robot/Save, **M** = LXI Media Management, **N** = Dantz.

Selecting a Solution

	Solution	Native Performance	Capacity*	System z	System p	System i**	System x	Open Systems***
Entry tape products	3580 tape drive	120 MBps	1600 GB					
	TS3100 tape library	120 MBps	Up to 38.4 TB					
	TS3100 tape library with HH drives	240 MBps	Up to 38.4 TB					
	TS3200 tape library	240 MBps	Up to 76.8 TB					
	TS3200 tape library with HH drives	480 MBps	Up to 76.8 TB					
Midrange tape products	TS1040 tape drive	120 MBps	1600 GB					
	TS3310 tape library	Up to 2.16 GBps	Up to 633.6 TB					
	TS3500 tape library	Up to 23 GBps	Up to 11 PB					
Enterprise tape products	TS1120 tape drive	Up to 104 MBps	2100 GB					
	TS1120 tape controller	Up to 230 MBps	NA					
	TS3400 tape library	Up to 208 MBps	Up to 37.8 TB					
	TS3500 tape library	Up to 19.97 GBps	Up to 13.1 PB					
Tape Virtualization	TS7520**	Up to 4.8 GBps	Up to 2.6 PB					
	TS7740	Up to 600 MBps	Up to 54 TB					
Other backup products	3996	Up to 12 MBps	10.4 TB					
	7206-336	Up to 3 MBps	72 GB					
	7206-VX2	Up to 6 MBps	60 GB					
	7206-VX3	Up to 24 MBps	160 GB					
	7207-330	Up to 4 MBps	60 GB					
	7212-103	Up to 12 MBps	320 GB					

* Compressed; see ibm.com/storage for specific capacities.

** Available on System i through AIX/Linux partitioning.

*** See ibm.com/storage for specific open systems connectivity.

Yes



No



Partial

IBM Systems

Demand for lightning-fast communication and transactions has driven the need for a high-performance, responsive infrastructure that embraces open standards—exactly what you will find in the IBM Systems product portfolio. Investments in servers often result in demands on disk and tape storage systems. IBM has a family of storage offerings that complements the IBM Systems product portfolio. There is no better storage offering for IBM Systems than an IBM System Storage product. These offerings are tested and supported by IBM and are backed by outstanding IBM service and support.

IBM System Storage Proven Program Helps Simplify Interoperability

Overview

The IBM System Storage Proven™ program has been designed on a simple premise: give customers the ability to select the best combination of interoperable storage technologies to help minimize their investment risk, increase business efficiency and expedite their infrastructure implementation.

The IBM System Storage Proven program is all about leveraging IBM storage with business applications, ISV and Business Partner software, and market-leading hardware components which together deliver solutions that address today's client needs.

Customer Benefits

- Prequalified configurations
- Customers will be better able to identify a variety of prequalified, interoperable storage elements. By taking prequalified applications and hardware and combining them with IBM storage technology clients can more easily identify solutions that address their storage needs.

IBM Business Partner Benefits

- Potential for reduced sales cycle and integration issues
- For IBM Business Partners, the IBM System Storage Proven program is intended to help shorten the sales cycle and ease integration issues, allowing more time for higher margin customization. Another added value for IBM Business Partners is the interoperability qualification program where companies work together with IBM, which can help support their ability to develop and deliver products or solutions that interoperate with the broad portfolio of IBM System Storage products.

Please visit the System Storage Proven Web site at ibm.com/storage/proven to view more than 500 available products and solutions from over 300 participating companies to meet your storage needs.

IBM Business Partner Innovation Centers (BPIC)

More than 140 worldwide IBM TotalStorage Solution Centers can deliver one-stop shopping for storage hardware, software and consulting services. The Solution Centers offer you both a local venue for hands-on testing of IBM storage solutions and a platform for proof-of-concept and benchmarking activities. These centers also work with the leading storage software providers to support a wide variety of choices for interoperability. IBM Business Partners will help you select and implement a solution to help your business succeed in today's dynamic marketplace. Visit: ibm.com/storage/tssc

Media tape	Highlights	Technology	Length (m/feet)	Capacity		Part number	Related products	Part number
				native	Compressed (typical)			
Enterprise tape	- Custom labeling and initialization services are available - Server tracks help improve data integrity - Cartridge intermix within libraries supports smooth migration, legacy systems - Write Once Read Many (WORM) functionality	3592 Tape Cartridge	825/2706 825/2706 610/2001 610/2001 246/810 246/810	700 GB 700 GB WORM 300/500 GB 300/500 GB WORM 60/100 GB 60/100 GB WORM	2.1 TB 2.1 TB 900 GB/1.5 TB 900 GB/1.5 TB 180/300 GB 180/300 GB	23R9830 23R9831 18P7534 18P7538 24R0316 24R0317	3592 Cleaning Cartridge	18P7535
		3590 Tape Cartridge	320/1050	10/20/30 GB	30/60/90 GB	05H4434 05H3302-J-less	3590 Cleaning Cartridge	05H4435
		3590E Tape Cartridge	634/2070	20/40/60 GB	60/120/ 180 GB	05H3188 08L6091-K-less		
.31" MP tape	- Unique midpoint load mechanism enables the system to locate data fast - Durable cartridge case helps protect the tape - Self-contained tape path helps improve reliability and extend tape life - Almost instantaneous head/tape contact at load time speeds processing	IBM Magstar® MP Fast Access Linear Tape Cartridge	167/54	5 GB	15 GB	05H2462—B 08L6187—C	Cleaning Cartridge	05H2463
		Magstar MP Fast Access Linear Tape Cartridge—XL	227/745	7 GB	21 GB	08L6663- C-XL		
LTO® tape	- Media uses industry-leading, interchangeable LTO format - Cartridge is highest-capacity open standard tape cartridge available - Custom labeling is available - IBM-exclusive Statistical Analysis and Reporting System (SARS) statistics are stored in cartridge memory - High durability helps support automation environments	Ultrium 4	820/2690	800 GB	1600 GB	95P4436	Ultrium Cleaning Cartridge (all)	35L2086
		Ultrium 4 WORM	820/2690	800 GB	1600 GB	95P4450	Leader Pin Attachment Kit	23R7008
		Ultrium 3	680/2231	400 GB	800 GB	24R1922	5-pack LTO Ultrium 4 tapes	08L9129
		Ultrium 3 WORM	680/2231	400 GB	800 GB	96P1203	5-pack LTO Ultrium 3 tapes	95P4278
		Ultrium 2	609/1998	200 GB	400 GB	08L9870		95P2020
		Ultrium 1	609/1998	100 GB	200 GB	08L9120		
Optical cartridge	- Suitable for storing data that can be overwritten and has a finite life span - WORM media helps safeguard against data being erased or changed	3996 Ultra Density Optical (UDO)	NA	30 GB 30 GB WORM 60 GB 60 GB WORM		23R2568 23R2567 59H5629 59H5628		
DLTtape	- Cartridge labelling area and labels are included - VS1 Data Cartridge	VS1	563/1850	80 GB	160 GB	18P8923	Cleaning Cartridge - VS160	18P8924
VXA-2/3	- Durable coating can resist oxidation and moisture - Advanced archival and capacity properties are included - Wide selection of compatible cartridge capacities support daily or full backups - Media enclosure shutter locks out dirt and debris	VXA 8 mm—X6 VXA 8 mm—X10 VXA 8 mm—X23	62/203 124/406 230/754	40 GB 80 GB 160 GB	80 GB 160 GB 320 GB	24R2134 24R2136 24R2137	Cleaning Cartridge—X-MEDIA	24R2138
4 mm Tape	- Precision-matched tape reels and reel heights help support reliable operation - Proprietary hub lock helps reduce positioning errors to improve data integrity - Improved media coating helps reduce head friction and provide cleaner operation	DDS-3	125/410	12 GB	24 GB	59H3465	Cleaning Cartridge—4 mm	21F8763
		DDS-4	150/492	20 GB	40 GB	59H4456		
		DAT72	170/557	36 GB	72 GB	18P7912		
8 mm Tape	- Special media formulation can help reduce drop-out to improve reliability - Rigid magnetic stability specification helps increase coercivity to prolong shelf life and improve read reliability 100 percent media enclosure can help lock out dirt and debris to protect the cartridge - Built-in electrostatic discharge shield helps reduce risks to data and hardware	AME	22/73 170/557	2.5 GB 20 GB	5 GB 40 GB	59H2671 59H2678	Cleaning Cartridge—AME	35L1409
SLR (QIC) cartridges	- Sophisticated mirror optics support BOT and EOT recognition - Advanced media-binder process provides ultra-clean operation - Stringent wheel-pin perpendicularity specification enables smoother operation and fewer re-reads - Proprietary belt design provides steady tension - Special stippled base-plate design helps provide rigidity and a stable tape path - Cartridge cover shields against static discharge and airborne debris - Durastat on drive rollers dissipates static	5.25" SLR5/QIC-4GB-DC	458/1500	4 GB	8 GB	59H3660	QIC 5.25" MLR/SLR Cleaning Cartridge (50 uses)	35L0844
		5.25" MLR1/QIC-5010-DC	458/1500	16 GB	32 GB	59H4175		
		5.25" MLR3/QIC-5120-DC	462/1515	25 GB	50 GB	59H4128		
		5.25" SLR60	274/900	30 GB	60 GB	19P4209		
		5.25" SLR60	366/1200	37.5 GB	75 GB	24R0146		
		5.25" SLR100	47/156	5 GB	10 GB	35L0661		
		5.25" SLR100	457/1500	50 GB	100 GB	35L0968		



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