

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 capable 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 ⁷ | A (others in plan) | A, B, C, D, E, F, G, H, J, L, M, N ⁷ | A, B (others in plan) | A, B, C, D, E, F, G, H, J, L, N ⁷ | 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 ³ | 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 support² | 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** = LXI 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

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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 | Yes | Yes | Yes | Yes | Yes |
| | TS3100 tape library | 120 MBps | Up to 38.4 TB | Yes | Yes | Yes | Yes | Yes |
| | TS3100 tape library with HH drives | 240 MBps | Up to 38.4 TB | Yes | Yes | Yes | Yes | Yes |
| | TS3200 tape library | 240 MBps | Up to 76.8 TB | Yes | Yes | Yes | Yes | Yes |
| | TS3200 tape library with HH drives | 480 MBps | Up to 76.8 TB | Yes | Yes | Yes | Yes | Yes |
| Midrange tape products | TS1040 tape drive | 120 MBps | 1600 GB | Yes | Yes | Yes | Yes | Yes |
| | TS3310 tape library | Up to 2.16 GBps | Up to 633.6 TB | Yes | Yes | Yes | Yes | Yes |
| | TS3500 tape library | Up to 23 GBps | Up to 11 PB | Yes | Yes | Yes | Yes | Yes |
| Enterprise tape products | TS1120 tape drive | Up to 104 MBps | 2100 GB | Yes | Yes | Yes | Yes | Yes |
| | TS1120 tape controller | Up to 230 MBps | NA | Yes | No | No | No | No |
| | TS3400 tape library | Up to 208 MBps | Up to 37.8 TB | Yes | Yes | Yes | Yes | Yes |
| | TS3500 tape library | Up to 19.97 GBps | Up to 13.1 PB | Yes | Yes | Yes | Yes | Yes |
| Tape Virtualization | TS7520** | Up to 4.8 GBps | Up to 2.6 PB | Yes | Yes | Yes | Yes | Yes |
| | TS7740 | Up to 600 MBps | Up to 54 TB | Yes | No | No | No | No |
| Other backup products | 3996 | Up to 12 MBps | 10.4 TB | Yes | Yes | Yes | Yes | Yes |
| | 7206-336 | Up to 3 MBps | 72 GB | Yes | Yes | Yes | Yes | Yes |
| | 7206-VX2 | Up to 6 MBps | 60 GB | Yes | Yes | Yes | Yes | Yes |
| | 7206-VX3 | Up to 24 MBps | 160 GB | Yes | Yes | Yes | Yes | Yes |
| | 7207-330 | Up to 4 MBps | 60 GB | Yes | Yes | Yes | Yes | Yes |
| | 7212-103 | Up to 12 MBps | 320 GB | Yes | Yes | Yes | Yes | Yes |

* 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.



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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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) Leader Pin Attachment Kit 5-pack LTO Ultrium 4 tapes 5-pack LTO Ultrium 3 tapes | 35L2086 23R7008 08L9129 95P4278 95P2020 |
| | | Ultrium 4 WORM | 820/2690 | 800 GB | 1600 GB | 95P4450 | | |
| | | Ultrium 3 | 680/2231 | 400 GB | 800 GB | 24R1922 | | |
| | | Ultrium 3 WORM | 680/2231 | 400 GB | 800 GB | 96P1203 | | |
| | | Ultrium 2 | 609/1998 | 200 GB | 400 GB | 08L9870 | | |
| | | Ultrium 1 | 609/1998 | 100 GB | 200 GB | 08L9120 | | |
| Optical cartridge | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | 62/203 | 40 GB | 80 GB | 24R2134 | Cleaning Cartridge—X-MEDIA | 24R2138 |
| | | VXA 8 mm—X10 | 124/406 | 80 GB | 160 GB | 24R2136 | | |
| | | VXA 8 mm—X23 | 230/754 | 160 GB | 320 GB | 24R2137 | | |
| 4 mm Tape | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 <p>1-888-IBM-MEDIA ibm.com/storage/media</p> | 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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June 2008
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