

**LENOVO® THINKSERVER SA120**
**INNOVATIVE DESIGN.  
 IMPRESSIVE VALUE.**


The ThinkServer SA120 direct attach storage array provides high-density expansion and enterprise-grade reliability and is an ideal tiered storage solution for datacenter deployments, distributed enterprises or small businesses.

**MODULAR AND  
 SCALABLE**

The ThinkServer SA120 offers enormous expansion, with twelve 3.5" SAS high-capacity front-panel drive bays, up to two I/O controllers and four optional rear-panel 2.5" SSD drive bays to improve throughput. Coupled with ThinkServer host servers configured with LSI® CacheCade technology, these SSD drives enable the ThinkServer SA120 to provide additional cache, low latency and deliver amazing IOPS improvements. This clever, scalable design provides an optimal tiered storage layout for single- or dual-path configurations.

**CUSTOMER-FOCUSED  
 DESIGN**

With legendary Think design, and enterprise-grade reliability, the ThinkServer SA120 provides peace of mind. Its innovative storage design combines large capacity near-line 3.5" drives and lightning-fast 2.5" drives to provide a perfect solution for customers who require high performance and maximum capacity — at a fraction of the cost and complexity of typical storage area network choices. And, as your storage demands expand, you can daisy chain up to eight\* ThinkServer SA120 enclosures. Servicing the SA120 is easy with tool-less components, hot-swap fans and power supplies. It shares common parts with ThinkServer rack and tower servers for simplified management.

**IMPRESSIVE FEATURES,  
 GREAT VALUE**

Featuring the latest high performance SSD choices from Intel®, ThinkServer SA120 delivers the fast response and low latency you demand. ThinkServer SA120 offers high efficiency 80 PLUS Gold redundant power supplies to keep your business running smoothly and to reduce power consumption. Plus, if you need fast, professional service help, Lenovo provides an impressive array of warranty upgrades and rapid-response services. Combining these rich features with competitive prices and a standard 3-year warranty, the ThinkServer SA120 offers an impressive value.

\* Up to eight SA120 enclosures per dual port server adapter (four SA120 enclosures per port)

# SPECIFICATIONS

<b>I/O MODULE</b> Up to 2 x ThinkServer Storage Array 6Gbps I/O Modules	<b>STORAGE CAPACITY</b> Front panel: 48TB (12 x 3.5" 6Gbps SAS) Rear panel*: 3.2TB (4 x 2.5" 6Gbps SATA SSD) Daisy chain up to 8 enclosures on one dual port server adapter (4 per port)	<b>STORAGE DRIVES</b> Up to 4TB 3.5" 7.2K 6Gbps Hot-Swap SAS Up to 800GB Intel S3500 2.5" SATA 6Gbps Hot-Swap SSD Up to 800GB Intel S3700 2.5" SATA 6Gbps Hot-Swap SSD
<b>EXPANDABILITY</b> Maximum 128 drives on one server adapter (64 per port)	<b>COMPATIBLE ADAPTERS</b> ThinkServer LSI9280-8e 6Gbps SAS RAID HBA by LSI (0,1,5,6,10,50,60) ThinkServer LSI9286CV-8e 6Gbps SAS RAID HBA by LSI (0,1,5,6,10,50,60) ThinkServer LSI9207-8e 6Gbps SAS HBA by LSI** (JBOD only)	<b>POWER AND COOLING</b> Up to 2 x 550W 80PLUS Gold, hot-swap, redundant, power supplies, Energy Star 2.0 certified 2 hot-swap redundant system fan modules Additional fan in each power supply
<b>MANAGEMENT</b> LSI® MegaRAID™ Storage Manager	<b>FORM FACTOR / DIMENSIONS</b> 2U rack mount chassis with static rails H: (mm/inch): 86.6mm / 3.409" inch W: with handles: 482.6mm / 19" inch D: with handles: 394.05mm / 15.513" inch Weight: 16 kg (35.27lb) to 22 kg (48.5lb)	<b>BACK PANEL CONNECTORS</b> Each controller includes: 1 SAS (SFF 8088) IN connector 1 SAS (SFF 8088) Out connector 1 RJ11 serial port

\* Configuring 2.5" drives on rear panel requires optional ThinkServer 2.5" SATA SSD Cage with SATA Interposer (part number 4XB0F28642).  
 \*\* Available Spring 2014

# OPTIONS



ThinkServer 3.5" 2TB 7.2K SAS 6Gbps Hot Swap Hard Drive

0C19531

High-capacity 3.5" SAS drives are compatible with ThinkServer rack and tower servers.



ThinkServer 550W Hot Swap Redundant Power Supply

4X20E54689

Features the same high efficiency, Energy Star 2.0 certified power supply as ThinkServer RD340.



ThinkServer 2.5" 480GB S3500 SATA 6Gbps Hot Swap SSD

4XB0F28617

World-class performance and reliability from Intel SSD choices.

For a complete list of options, visit [lenovoquickpick.com](http://lenovoquickpick.com)



NEED STORAGE?

Learn more about Lenovo storage: [lenovo.com/storage](http://lenovo.com/storage)



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# LENOVO SERVICES

Choose among a comprehensive portfolio of services optimized to support and protect your ThinkServer investment. Specify response time, duration, and optional features to meet your business needs and your budget.

**PRIORITY TECHNICAL SUPPORT**  
 Provides 24x7 direct access to advanced-level technicians.

**EXTENDED WARRANTIES**  
 Offer fixed-term, fixed-cost protection to help you budget for server expenses for up to five years, to help lower TCO.

**UPGRADED WARRANTIES**  
 Maximize uptime and productivity with convenient, same-day repair service at your place of business.

**KEEP YOUR DRIVE MULTIDRIVE**  
 If a drive fails, ensure the data is protected by keeping your old drive after the repair. Our offering covers all the drives in the SA120 for complete data protection.

**WHY THINKSERVER SA120**

- 1** Optimal tiered storage design, with cost-effective SAS and high-performance, low latency SSD choices.
- 2** Superior quality, with standard 3-year warranty and extensive Lenovo services and warranty upgrade choices
- 3** Outstanding value, with easy serviceability, tool-less features, high reliability and affordable prices.

**1 866 426 6398**  
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