

ThinkServer SA120 70F10007UX

Region
US

Machine Type
70F1

TopSeller
TopSeller

I/O Module (1 or 2)
2

Front 12 x 3.5" Disk Bays for SAS disk drives
12 x 3.5"

Rear 4 x 2.5" Disk Bays for SATA SSD
No

Front 3.5" SAS Hot-Swap Drives (up to 12)
12 x 4TB 3.5" SAS

Rear 2.5" SATA SSD Hot-Swap Drives (up to 4)
No

External minSAS Cable (SFF8088 to SFF8088)
2 x 1m

Power Supply (1 or 2)
2 x 550W

Rail Kit
Rail kit

Warranty
3

Ann Date (mm/yy)
02/14

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.



<http://psref.lenovo.com>

Visit psref website for the latest version of Product Specifications Reference.

© Lenovo, 2018. All rights reserved.

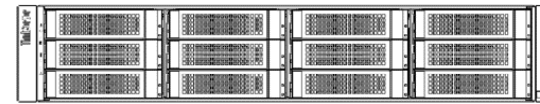


ThinkServer SA120 Platform Specification

Product Specifications Reference (PSREF)

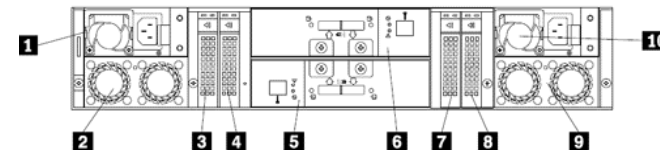
Connection mode	Connects directly to host server, up to 4 enclosures per port (cascading mode)			
Compatible host server and RAID controllers/Host Bus adapters	Supports the following RAID controller or Host Bus adapters on compatible host servers, RAID levels are supported by RAID controller on host server:			
	RAID/HBA adapters	PN	TD340 RD340 RD440 RD540 RD640	RD330 RD430 RD530 RD630
	LSI 9280-8e 6Gb SAS RAID HBA by LSI (0/1/10/5/50/6/60)	4XB0F28645	Yes	Yes
	LSI 9286CV-8e 6Gb SAS RAID HBA by LSI (0/1/10/5/50/6/60)	4XB0F28646	Yes	
I/O Module	Supports 1 or 2 ThinkServer Storage Array 6Gbps I/O Modules, redundant with two I/O modules			
Front 3.5" Disk Bays	12 x 3.5" SAS hard drive bays, hot-swap, supports 1TB/2TB/3TB/4TB 3.5" SAS 6.0Gb/s 7200 rpm hard drives			
Rear 2.5" Disk Bays (optional)	Optional 4 x 2.5" SATA SSD hot-swap disk drive bays. Requires optional ThinkServer 2.5" SATA SSD Cage with SATA Interposers (4XF0F28766, includes two SSD cages for 4 bays)			
Maximum storage per enclosure	Front 3.5" Disk Bays: up to 48TB (using 12 x 4TB 3.5" SAS hard drives) Optional rear 2.5" Disk Bays: up to 3.2TB (using 4 x 800GB 2.5" SSD drives)			
External minSAS Cable (option)	Optional 0.5m/1.0m/2.0m/4.0m/6.0m SFF8088 to SFF8088 26-pin Mini-SAS cables			
Fan module	Two fan modules standard, hot-swap, redundant, two fans per fan module			
Power supply	One or two 550 watts standard, two maximum, rear access, hot-swap, 80 PLUS Gold qualified, redundant with two power supplies			
Rail kit	Includes static rail kit for rack mount			
Systems Management	• SCSI Enclosure Services (SES) command set • Enclosure management via IOCC controller • Includes one RS232 to RJ11 cable for remote debug and firmware upgrade			
Mechanical	• 2U rack, static rail kit included • 19"W x 15.51"D x 3.4"H (with rack handles) • 482.6mm W x 394.05mm D x 86.6mm H (with rack handles) • 22 kg (48.5 lb) when fully configured			
Environment	• Air temperature: - Operating: 10°C to 35°C (50°F to 95°F) - Storage: -40°C to 70°C (-40°F to 158°F) in original package • Altitude: 0-10000ft (0-3048m), unpressurized • Humidity: - Operating: 8% to 80% (non-condensing) - Storage without package: 8% to 80% (non-condensing) - Storage with package: 8% to 90% (non-condensing)			

Front



12 x 3.5" hot-swap SAS disk drive bays

Rear



- | | | | |
|---------|--|----|---------------------------|
| 1 | Power Supply 1 | 5 | I/O module 1 |
| 2/9 | Fan modules | 6 | I/O module 2 (optional) |
| 3/4/7/8 | Rear 4 x 2.5" SATA SSD drive bays (optional) | 10 | Power Supply 2 (optional) |

Rear Ports (per I/O module)

- 1 SAS (SFF8088) IN connector for connection to host server
- 1 SAS (SFF8088) OUT connector for connection to another enclosure
- 1 RJ-11 port for remote debug and firmware upgrade

Core Options

3.5" 1TB 7.2K SAS 6Gbps Hot Swap Hard Drive	0C19530
3.5" 2TB 7.2K SAS 6Gbps Hot Swap Hard Drive	0C19531
3.5" 3TB 7.2K SAS 6Gbps Hot Swap Hard Drive	0C19532
3.5" 4TB 7.2K SAS 6Gbps Hot Swap Hard Drive	4XB0F28635
3.5" 6TB 7.2K SAS 12Gbps Hot Swap Hard Drive	4XB0F28683
2.5" 100GB Mainstream Multipurpose SATA 6Gbps Hot Swap SSD	4XB0F28636
2.5" 200GB Mainstream Multipurpose SATA 6Gbps Hot Swap SSD	4XB0F28637
2.5" 400GB Mainstream Multipurpose SATA 6Gbps Hot Swap SSD	4XB0F28638
2.5" 800GB Mainstream Multipurpose SATA 6Gbps Hot Swap SSD	4XB0F28639
2.5" 120GB Value Read-Optimized SATA 6Gbps Hot Swap SSD	4XB0F28615
2.5" 240GB Value Read-Optimized SATA 6Gbps Hot Swap SSD	4XB0F28616
2.5" 300GB Value Read-Optimized SATA 6Gbps Hot Swap SSD	4XB0F28640
2.5" 480GB Value Read-Optimized SATA 6Gbps Hot Swap SSD	4XB0F28617
2.5" 800GB Value Read-Optimized SATA 6Gbps Hot Swap SSD	4XB0F28641
550W Gold Hot Swap Redundant Power Supply	4X20E54689
ThinkServer Storage Array 6Gbps IO Module	4XF0F28765
ThinkServer 2.5" SATA SSD Cage with SATA Interposers (includes two SSD cages for 4 bays)	4XF0F28766
0.5 meters 26 Pin (SFF-8088 to SFF-8088) External mini-SAS cable	4X90F31494
1 meter 26 Pin (SFF-8088 to SFF-8088) External mini-SAS cable	4X90F31495
2 meters 26 Pin (SFF-8088 to SFF-8088) External mini-SAS cable	4X90F31496
4 meters 26 Pin (SFF-8088 to SFF-8088) External mini-SAS cable	4X90F31497
6 meters 26 Pin (SFF-8088 to SFF-8088) External mini-SAS cable	4X90F31498

ThinkServer SA120

