ThinkSystem SD530 7X21A039EA

Region
EET, MEA, RUCIS, WE

Machine Type
7X21

TopSeller
TopSeller

Processor
1x Xeon Gold 5120
14C/2.2GHz/19.25MB/105W/DDR4-2400

Memory
1x 16GB RDIMM DDR4-2666

Storage Controller
1x 530-8i

DiskBays
4x 2.5" SATA/SAS HS

Disks
None

KVM Breakout Module
None

M.2 Drives
None

System Management
XClarity Enterprise

Warranty
3-year, Onsite

Ann Date (mm/yy)
09/17

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

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ThinkSystem SD530 Platform Specifications

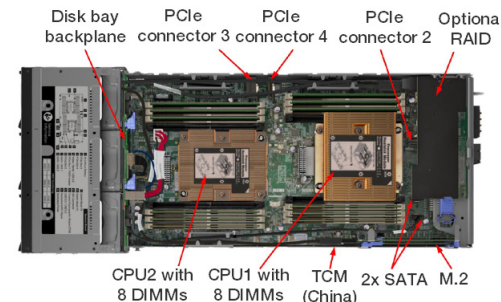| Components	Specification
Form factor	Half-wide, 1U compute node
Dimensions	Height: 41 mm (1.7 in). Width: 222 mm (8.8 in). Depth: 562 mm (22.2 in)
Chassis support	ThinkSystem D2 Enclosure. 2U. Up to 4 ThinkSystem SD530 servers per enclosure
Weight	Maximum configuration: 16.6 lb (7.5 kg)
Processor	Up to two 165W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 28 cores at 2.1GHz, up to 3.6GHz with 4 cores. Up to two UPI (Ultra Path Interconnect) links at maximum 10.4GT/s each
Chipset	Intel C624 Platform Controller Hub
Memory	Up to 12 or 16 DIMM sockets depending on the processor selected. Each processor supports up to 6 or 8 DIMM sockets. DDR4-2666. RDIMMs and LRDIMMs are supported, but memory types cannot be intermixed.
Memory capacity	16 DIMMs models: RDIMMs: Up to 512GB with 16x 32GB RDIMMs and two processors LRDIMMs: Up to 1TB with 16x 64GB LRDIMMs and two processors 12 DIMMs models: RDIMMs: Up to 384GB with 12x 32GB RDIMMs and two processors LRDIMMs: Up to 768GB with 12x 64GB LRDIMMs and two processors
Memory protection	ECC, Chipkill protection (for x4-based memory DIMMs), memory mirroring, and memory sparing

Storage controllers Supports the following RAID adapters:

Adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath
Onboard Intel RSTe	6Gbps SATA	SATA	0/1/10/5	Yes	None	None	No
530-8i	12Gbps SAS	SATA/SAS	0/1/10/5	Yes	None	None	Yes

Components	Specification
Disk drive bays	Up to four 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays with two AnyBay. SAS support requires 530-8i. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring

Internal storage

2.5" NVMe SSD	800GB/960GB/1.6TB/1.92TB
2.5" HDD, SATA6Gbps, 7,2K	1TB/2TB
2.5" HDD, SAS12Gbps, 7,2K	2TB
2.5" HDD, SAS12Gbps, 7,2K, SED	1TB/2TB
2.5" HDD, SAS12Gbps, 15K	300GB/600GB/900GB
2.5" HDD, SAS12Gbps, 10K	300GB/600GB/900GB/1.2TB/1.8TB/2.4TB
2.5" HDD, SAS12Gbps, 10K, SED	2.4TB
2.5" SSD, SATA6Gbps	240GB/480GB/960GB/1.92TB/3.84TB
2.5" SSD, SAS12Gbps	400GB/800GB/1.6TB/3.84TB/7.68TB/15.36TB
M.2 SATA SSD	32GB/128GB

Components	Specification
Network interfaces	Two 10 GbE ports, SFP+ or RJ-45, routed through the Ethernet I/O Module at the rear of the D2 Enclosure. Networking ports are based on Intel Ethernet Connection X722 in chipset
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only
Operating systems supported	Microsoft Windows Server 2016, 2012 R2, Red Hat Enterprise Linux 6 and 7 x64, SUSE Linux Enterprise Server 11 and 12 x64, VMware ESXi 6.0 and 6.5
Systems management	Operator panel with system error LED and ID and power controls. XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management. Optional XClarity Controller Advanced to enable remote control functions. System Management Module (SMM) in the D2 Enclosure provides additional systemsmanagement functions
GPU support	None
Base warranty	MT 7X21: 3-year limited onsite service with 9x5/NBD
Power supply	Supplied by D2 Enclosure
Video	Integrated Matrox G200 in XClarity Controller
Front ports	Optional KVM breakout module for one USB 3.0 and one console breakout cable port for local KVM and serial ports. KVM breakout module will ocuppy one disk bay on 6x 2.5" disk bay model

Components	Specification
Environmental specification	Supports ASHRAE A4 with limitations.

Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)
Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)
Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)
Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)
Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%
Humidity - storage (with package), non-condensing	8%~90%

Models should meet the following requirements to support A3 and A4:
• NVMe drives not installed
• M.2 drives not installed

Expansion slots
Supports one PCIe 3.0 x16 low-profile slot, or two PCIe 3.0 x8 low-profile slots.
Slots are housed in I/O shuttle in rear of the D2 Enclosure

Disk bay backplane / PCIe connector 3 / PCIe connector 4 / PCIe connector 2 / Optional RAID / CPU2 with 8 DIMMs / CPU1 with 8 DIMMs / TCM (China) / 2x SATA / M.2

Backplane and memory DIMM sockets supports by processor

Maxium DIMM Sockets	12 DIMMs		16 DIMMs	
Backplane	2x2	2x3	2x2	2x3
Xeon Bronze 3104	Yes	Yes	Yes	No
Xeon Bronze 3106	Yes	Yes	Yes	No
Xeon Silver 4108	Yes	Yes	Yes	No
Xeon Silver 4109T	Yes	No	No	No
Xeon Silver 4110	Yes	Yes	Yes	No
Xeon Silver 4112	Yes	Yes	Yes	No
Xeon Silver 4114	Yes	Yes	Yes	No
Xeon Silver 4116	Yes	Yes	Yes	No
Xeon Gold 5115	Yes	Yes	Yes	No
Xeon Gold 5118	Yes	Yes	Yes	No
Xeon Gold 5120	Yes	Yes	Yes	No
Xeon Gold 5120T	Yes	No	No	No
Xeon Gold 5122	Yes	No	No	No
Xeon Gold 6126	Yes	Yes	No	No
Xeon Gold 6130	Yes	Yes	Yes	No
Xeon Gold 6130T	Yes	No	No	No
Xeon Gold 6134	Yes	No	No	No
Xeon Gold 6136	Yes	No	No	No
Xeon Gold 6138	Yes	Yes	No	No
Xeon Gold 6138T	Yes	No	No	No
Xeon Gold 6140	Yes	Yes	No	No
Xeon Gold 6142	Yes	No	No	No
Xeon Gold 6148	Yes	No	No	No
Xeon Gold 6150	Yes	No	No	No
Xeon Gold 6152	Yes	Yes	No	No
Xeon Platinum 8153	Yes	Yes	Yes	No
Xeon Platinum 8156	Yes	No	No	No
Xeon Platinum 8158	Yes	No	No	No
Xeon Platinum 8160	Yes	No	No	No
Xeon Platinum 8164	Yes	No	No	No
Xeon Platinum 8170	Yes	No	No	No
Xeon Platinum 8176	Yes	No	No	No

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