

## STORANDER Mesh System Model 0 DATASHEET

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STORANDER Mesh System Model 0 is a Software-Defined Storage Hardware Platform. It enables centrally automating and managing capacity provisioning and data placement across diverse storage environments (SAN, DAS, HCI, or JBOD).

**STORANDER Mesh System Model 0 is certified with the following Software Defined Storage solutions and Operating Systems:**

- ⊙ OSNEXUS QuantaStor
- ⊙ Open-E JovianDSS
- ⊙ RHEL 8.2 64bit
- ⊙ RHEL 8.3 64bit
- ⊙ Fedora 32 64bit
- ⊙ Fedora 33 64bit
- ⊙ openSUSE Leap 15.2 64bit
- ⊙ SLES 15 SP2 64bit
- ⊙ Ubuntu 20.04.1 LTS 64bit SVR
- ⊙ Ubuntu 20.10 64bit SVR
- ⊙ Oracle Linux 8.3
- ⊙ FreeBSD 11.4 64bit
- ⊙ FreeBSD 12.1 64bit
- ⊙ CentOS 8.2 64bit
- ⊙ CentOS 8.3 64bit



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### STORANDER Mesh System Model 0 key features:

- Form factor 2U
- 2 x 1200W Redundant Titanium Level (96%) Hot-plug power supply
- ACPI Power Management
- Trusted Platform Module (TPM) 2.0
- Silicon Root of Trust (RoT) – NIST 800-193 Compliant
- Cryptographically Signed Firmware
- Secure Boot
- Secure Firmware Updates
- Automatic Firmware Recovery
- System Lockdown
- 4x 8cm heavy duty fans with optimal fan speed control
- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)
- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable

CPU	Total cores	Max turbo frequency	Processor base frequency	Cache	TDP
Intel® Xeon® Gold 5315Y	8	3.60 GHz	3.20 GHz	12 MB	140 W
Intel® Xeon® Gold 6334	8	3.70 GHz	3.60 GHz	18 MB	165 W
Intel® Xeon® Silver 4309Y	8	3.60 GHz	2.80 GHz	12 MB	105 W
Intel® Xeon® Platinum 8356H	8	4.40 GHz	3.90 GHz	35.75 MB	190 W
Intel® Xeon® Silver 4310T	10	3.40 GHz	2.30 GHz	15 MB	105 W
Intel® Xeon® Gold 5317	12	3.60 GHz	3.00 GHz	18 MB	150 W

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CPU	Total cores	Max turbo frequency	Processor base frequency	Cache	TDP
Intel® Xeon® Silver 4310	12	3.30 GHz	2.10 GHz	18 MB	120 W
Intel® Xeon® Gold 6326	16	3.50 GHz	2.90 GHz	24 MB	185 W
Intel® Xeon® Gold 6346	16	3.60 GHz	3.10 GHz	36 MB	205 W
Intel® Xeon® Silver 4314	16	3.40 GHz	2.40 GHz	24 MB	135 W
Intel® Xeon® Gold 6328H	16	4.30 GHz	2.80 GHz	22 MB	165 W
Intel® Xeon® Gold 6328HL	16	4.30 GHz	2.80 GHz	22 MB	165 W
Intel® Xeon® Gold 6354	18	3.60 GHz	3.00 GHz	39 MB	205 W
Intel® Xeon® Gold 5318H	18	3.80 GHz	2.50 GHz	24.75 MB	150 W
Intel® Xeon® Platinum 8353H	18	3.80 GHz	2.50 GHz	24.75 MB	150 W
Intel® Xeon® Platinum 8354H	18	4.30 GHz	3.10 GHz	24.75 MB	205 W
Intel® Xeon® Gold 5320T	20	3.50 GHz	2.30 GHz	30 MB	150 W
Intel® Xeon® Silver 4316	20	3.40 GHz	2.30 GHz	30 MB	150 W
Intel® Xeon® Gold 5320H	20	4.20 GHz	2.40 GHz	27.5 MB	150 W
Intel® Xeon® Gold 5318N	24	3.40 GHz	2.10 GHz	36 MB	150 W
Intel® Xeon® Gold 5318S	24	3.40 GHz	2.10 GHz	36 MB	165 W
Intel® Xeon® Gold 5318Y	24	3.40 GHz	2.10 GHz	36 MB	165 W
Intel® Xeon® Gold 6312U	24	3.60 GHz	2.40 GHz	36 MB	185 W
Intel® Xeon® Gold 6336Y	24	3.60 GHz	2.40 GHz	36 MB	185 W

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CPU	Total cores	Max turbo frequency	Processor base frequency	Cache	TDP
Intel® Xeon® Gold 6338T	24	3.40 GHz	2.10 GHz	36 MB	165 W
Intel® Xeon® Gold 6342	24	3.50 GHz	2.80 GHz	36 MB	230 W
Intel® Xeon® Gold 6330H	24	3.70 GHz	2.00 GHz	33 MB	150 W
Intel® Xeon® Platinum 8360H	24	4.20 GHz	3.00 GHz	33 MB	225 W
Intel® Xeon® Platinum 8360HL	24	4.20 GHz	3.00 GHz	33 MB	225 W
Intel® Xeon® Gold 6348H	24	4.20 GHz	2.30 GHz	33 MB	165 W
Intel® Xeon® Gold 5320	26	3.40 GHz	2.20 GHz	39 MB	185 W
Intel® Xeon® Gold 6330	28	3.10 GHz	2.00 GHz	42 MB	205 W
Intel® Xeon® Gold 6330N	28	3.40 GHz	2.20 GHz	42 MB	165 W
Intel® Xeon® Gold 6348	28	3.50 GHz	2.60 GHz	42 MB	235 W
Intel® Xeon® Platinum 8376H	28	4.30 GHz	2.60 GHz	38.5 MB	205 W
Intel® Xeon® Platinum 8376HL	28	4.30 GHz	2.60 GHz	38.5 MB	205 W
Intel® Xeon® Platinum 8380H	28	4.30 GHz	2.90 GHz	38.5 MB	250 W
Intel® Xeon® Platinum 8380HL	28	4.30 GHz	2.90 GHz	38.5 MB	250 W
Intel® Xeon® Gold 6314U	32	3.40 GHz	2.30 GHz	48 MB	205 W
Intel® Xeon® Gold 6338	32	3.20 GHz	2.00 GHz	48 MB	205 W
Intel® Xeon® Gold 6338N	32	3.50 GHz	2.20 GHz	48 MB	185 W
Intel® Xeon® Platinum 8352M	32	3.50 GHz	2.30 GHz	48 MB	185 W

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CPU	Total cores	Max turbo frequency	Processor base frequency	Cache	TDP
Intel® Xeon® Platinum 8352S	32	3.40 GHz	2.20 GHz	48 MB	205 W
Intel® Xeon® Platinum 8352Y	32	3.40 GHz	2.20 GHz	48 MB	205 W
Intel® Xeon® Platinum 8358	32	3.40 GHz	2.60 GHz	48 MB	250 W
Intel® Xeon® Platinum 8358P	32	3.40 GHz	2.60 GHz	48 MB	240 W
Intel® Xeon® Platinum 8362	32	3.60 GHz	2.80 GHz	48 MB	265 W
Intel® Xeon® Platinum 8351N	36	3.50 GHz	2.40 GHz	54 MB	225 W
Intel® Xeon® Platinum 8352V	36	3.50 GHz	2.10 GHz	54 MB	195 W
Intel® Xeon® Platinum 8360Y	36	3.50 GHz	2.40 GHz	54 MB	250 W
Intel® Xeon® Platinum 8368	38	3.40 GHz	2.40 GHz	57 MB	270 W
Intel® Xeon® Platinum 8368Q	38	3.70 GHz	2.60 GHz	57 MB	270 W
Intel® Xeon® Platinum 8380	40	3.40 GHz	2.30 GHz	60 MB	270 W

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- ⦿ Intel® C621A Chipset
- ⦿ VGA 15-pin port (resolution 1280x1024)
- ⦿ 32 DIMM Slots
  - Up to 8TB DRAM, 3200/2933/2666 ECC DDR4 LRDIMM, RDIMM
  - Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM)  
Intel® Optane™ Persistent Memory 200 series
- ⦿ Memory protection: Double Device Data Correction, Single Device Data Correction, Error Checking and Correction, Single Bit Error Counter, Memory Rank Sparing, Memory Mirroring, Hot-spare memory support, Address Parity Errors Correction, Thermal Throttling Protection
- ⦿ 12 x 3.5"/2.5" hot-swap hybrid NVMe/SATA/SAS drive bays
- ⦿ 2 x USB 3.0
- ⦿ 2 x M.2 SATA/NVMe
- ⦿ 2 x 10 Gbit Ethernet RJ45/SFP
- ⦿ LAN options: 100Gbit/40 Gbit/25 Gbit/10 Gbit/1 Gbit Ethernet
- ⦿ Infiniband options: HDR IB (200Gb/s), EDR IB (100Gb/s), FDR (56Gb/s)
- ⦿ Broadcom RAID HW options:
  - S3908L-H8iR-16DD (8 internal ports (12Gb/s) RAID 0, 1, 5, 6, 10, 50, 60)
  - S3916L-H16iR-32DD (16 internal ports (12Gb/s) RAID 0, 1, 5, 6, 10, 50, 60)