

SV1020i

Ultimate 1U Server Unlocks Business Agility



3rd Gen Intel® Xeon® Scalable Processor

The Intel's first 10nm 3rd generation Intel® Xeon® scalable processors empower the system to support dynamic computational workloads, and accelerate business outcomes through significant breakthrough in core architecture, performance and security.

OCP 3.0 Add-on Card Support

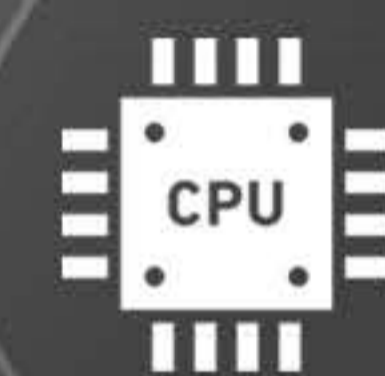
The standard-compliant OCP 3.0 slot enables the installation of a high-speed NIC, which delivers high bandwidth and ultra-low latency in a cluster environment.

Flexible I/O Configurations

The server supports either 2 PCIe FHHL cards or 3 PCIe LP cards in a slim 1U form factor, providing great flexibility as well as maximum I/O density.

Application

- Head Node Server
- High Performance Computing
- Hyperscale Data Center
- Software-defined Storage
- Enterprise Application Server
- Virtualization



One/Two 3rd Gen.
Intel® Xeon®
Scalable Processor(s)



32 x DDR4 RDIMM/
LRDIMM



12 x 2.5"
NVMe/SATA Drives



1+1 Redundancy,
Platinum Level



1U Rackmount

SV1020i

Specifications



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Processor

One/Two 3rd Gen. Intel® Xeon® Scalable Processor(s)



Memory

Up to 32 x DDR4 3200MHz RDIMM/LRDIMM Support Intel Optane Persistent Memory 200 Series Module



Storage

• Front

12 x 2.5" Hot-swap NVMe/SATA Drives Support Intel VROC

• Internal

2 x Gen3 NVMe M.2 (22110)
1 x USB3.0 (Type A)
1 x USB2.0 Header
1 x 7-P SATA Port



Front Panel

1 x Power Button with LED
1 x UID Button with LED
1 x Reset Button
1 x System Health LED



Rear Panel

2 x FHHL Cards or 3 x LP Cards
1 x RJ45 for BMC Dedicated Management
1 x VGA
2 x USB 3.0
1 x Power Status LED
1 x UID LED
1 x System Health LED



Security

1 x TPM 2.0 Module
Lattice MachXO3D Root-of-Trust Engine



Expansion Slots

4 x PCIe Gen4 x16 Slots
1 x OCP 3.0 NIC PCIe Gen4 x16 Slot
2 x Internal LP-SlimSAS Connectors (Gen4 x8)



Management

1 x ASPEED AST2500 BMC Support Intelligent Platform Management Interface v.2.0



PSUs

1+1 Redundant 1600W Platinum Power Supplies



Fans

8 x 40*56mm Dual Rotor System Fans



Certification

UL/CB/CE/FCC/IC/BSMI



Chassis Dimensions (H x W x D)

1.71" x 17.32" x 29.88" /
43.5mm x 440.0mm x 777.8mm



Form Factor

1U Rackmount



• Operating Temperature

0°C to 35°C (32°F to 95°F)

• Non-operating Temperature

-40°C to 70°C (-40°F to 158°F)

• Operating Relative Humidity

8% to 85%RH

• Non-operating Relative Humidity

5% to 95%RH



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