SV1020i

Ultimate 1U Server Unlocks Business Agility

Intel Whitley Platform Solution

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.
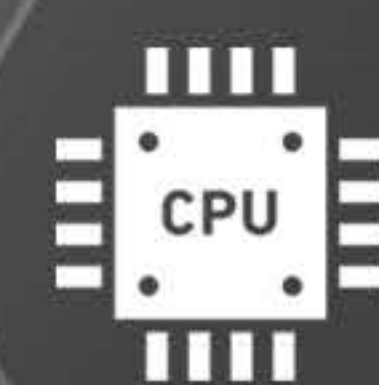
OCP 3.0 Add-On Card Support

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

Flexible I/O Configurations

Up to 4 PCIe Gen4 x16 slots are accessible through the rear of the system for users to install 2 FHHL PCIe cards or 3 HHHL cards in a slim 1U form factor, providing great flexibility as well as versatile I/O capability.

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
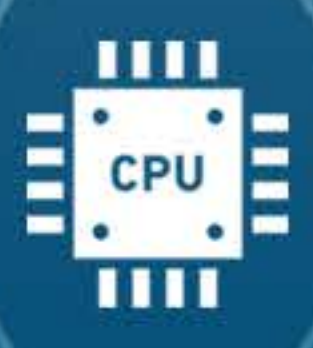- 1+1 Redundancy, Platinum Level
- 1U Rackmount

ingrasys®

SV1020i

Specifications

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

RAID Controller
1 x Intel® VROC RAID Upgrade Key
(VROC 7.5, RAID 0/1/5/10)

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
3 HHHL Card SKU or 2 FHHL Card SKU
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
Up to 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 per Node
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