

Server S51A-1U

OVERVIEW

Siselectron S51A-1U is a general purpose rackmount server designed for optimal performance and power efficiency. It is based on the dual Intel® Xeon® processor E5-2600 w3, w4 product family and features up to 1.5 TB memory capacity in a 1U chassis.

BENEFITS

Greener and More Powerful

Powered by the Intel® Xeon® processor E5-2600 w3, w4 product family and DDR4 memory technology, the S51A-1U allows owners to upgrade computing performance without overextending power consumption. With an enhanced thermal design, the server can operate under ambient temperatures as high as 40°C. This allows owners to save unnecessary costs associated with datacenter cooling needs and to achieve higher data center infrastructure efficiency (DCIE) value.

Full-Featured Design for Demanding Virtualization Workload

With 24 dual in-line memory module (DIMM) slots, the S51A-1U offers non-latency support to virtualization environments that require the maximum memory capacity. The S51A-1U also has two 2.5" PCIe Non-Volatile Memory Express (NVMe) SSDs on certain configuration options (with a 2.5" PtP backplane) to accelerate for today's demanding cloud storage and computing workload.

Flexible and Scalable I/O Options

The Siselectron S51A-1U provides flexible I/O scalability for today's diverse data center application requirements. It features OCP LAN mezzanine card solutions in addition to dual GbE or 10GbE (LAN on motherboards (LoM)). With various controller vendors and different speed and technology options, customers can choose from 1GbE to 56GbE bandwidth, copper or fiber-optic cabling, basic Ethernet function or FCoE and ISCSI SAN connectivity. The on-board SAS controller offers multiple SAS mezzanine card options, with different RAID levels, and data transfer bandwidth, so customers can tailor the SAS controller for specific application needs.



CHARACTERISTICS

- Dual processor Intel Xeon E5-2600 v3,v4.
- L3 Cache: Up to 45MB
- Two GbE or 10G BASE-T RJ 45 port
- Option for 10G fiber-optic ports.
- Redundant Power Supply.
- 24 memory slots Up to 768GB RDIMM or 1536GB LRDIMM.
- Greener and More Powerful.
- Chipset Intel C610
- Storage hot-plug 2.5"
- Expansion slots
- Operating temperature: 5°C to 40°C (41°F to 104°F)



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FEATURING

Processor

- Processor Type: Intel® Xeon® processor E5-2600 v3, v4 product family
- Max. TDP Support: 135W (145W with limited conditions)
- Number of Processors: 2
- Internal Interconnect: 6.4 / 8.0/ 9.6 GT/s
- L3 Cache: Up to 45MB

Chipset Intel® C610

Memory

- Total Slots: 24
- Capacity: Up to 768GB RDIMM
Up to 1536GB LRDIMM
- Memory Type: 2133/2400 MHz DDR4 RDIMM/ LRDIMM
- Memory Size: 32GB, 16GB, 8GB RDIMM
64GB, 32GB LRDIMM

Network Controller

- LOM:
- Option 1: Intel® I350 dual-port 1 GbE
Dedicated 1 GbE management port
 - Option 2: Intel® X540 dual-port 10GbE BASE-T
Dedicated 1 GbE management port

Storage Controller

- Onboard: Support (2) SATADOM

Onboard Storage

- Intel® 610: (10) SATA 6Gb/s ports
SATA RAID 0, 1, 10

Video

- Integrated AST2400 with 8MB DDR3 video memory

Rear I/O

- (2) USB 3.0 ports
- (1) VGA port
- (1) RS232 serial Port
- (2) 1 GbE or 10G BASE-T RJ45 port
- (1) GbE RJ45 management port
- (1) ID LED
- (1) System LED

TPM

- Yes (With TPM 1.2/ 2.0 option)

Form Factor

- 1U Rack Mount

Dimensions

- W x H x D (inch): 17.244 x 1.7 x 29.21
- W x H x D (mm): 438 x 43.2 x 742

Storage

- Option 1: (10) 2.5" hot-plug (including (2) optional 2.5" NVMe PCIe SSD)
- Option 2: (10) 2.5" hot-plug (require additional LSI SAS/ MegaRAID card to connect to the expander backplane)
- Option 3: (4) 3.5" hot-plug, (2) 2.5" fixed SSD

Expansion Slot

- Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot
(1) PCIe Gen3 x16 FHHL
(1) PCIe Gen3 x8 OCP LAN mezzanine slot
- Option 2: (1) PCIe Gen3 x16 LP MD-2
(1) PCIe Gen3 x16 FHHL
(1) PCIe Gen3 x8 OCP LAN mezzanine slot

Front I/O

- 2.5" SKU: None
- 3.5" SKU: (2) USB 2.0 ports

Power Supply

- 1200W AC, Redundant, 86 mm (Platinum)
- 800W AC, Redundant, 86 mm (Platinum)
- 750W AC, Redundant, 86 mm (Gold)
- 500W AC, Redundant, 86 mm (Platinum)
- 470W AC, Redundant, 86 mm (Gold)

Fan

- (6) dual rotor fans (11+1 redundant)

System Management

- IPMI v2.0 Compliant, onboard "KVM over IP"
- DataCenter Manager(QDCM) (optional) support

Operating Environment

- Operating temperature: 5°C to 40°C (41°F to 104°F)
- Non-operating temperature: -40°C to 65°C (-40°F to 149°F)
- Operating relative humidity: 20% to 85%RH.
- Non-operating relative humidity: 10% to 90%RH

Weight (Max.Configuration)

- 19.97 (kg)
- 44.03 (lbs)



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