

S-1500

1U Rack Mount SAS/SATA System



UNICOM Engineering's S-1500 is a rack mount appliance platform that brings entry-level server-class performance in an appliance solution. Applications requiring up to 4 hot swap enterprise class SAS / SATA drives benefit from the latest in Intel Goldmont Microarchitecture Atom low power system on chip (SoC). The S-1500 supports motherboards with a single Denverton-NS 16-Core or 8-Core SoC and up to 128 GB DDR4 DRAMs, targeting network and communication infrastructure. This combination of affordable performance allows UNICOM Engineering customers to build optimum solutions and target price sensitive applications. Moreover, the S-1500 supports integrated bypass LAN ports and a single PCIe expansion card, enabling a more complete appliance solution.

Features and Benefits

Server Performance at an Attractive Price

- Low cost for 1U rack mount server solutions
- Latest in Intel CPU Microarchitecture & DDR4 memory technologies to ensure maximum price/performance effectiveness
- Supports M.2 PCIe SSDs for increased storage performance
- Quad 10 GbE LAN ports for greater I/O performance

The Right Platform for Your Application

- Enterprise class SAS/SATA/PCIe drives support to ensure quality and reliability
- Redundant Power Supply for greater system reliability
- Integrated bypass LAN ports Ideal for security and network applications
- UNICOM Engineering branding options allow for strong product/corporate branding, including bezel branding, shipping container branding and documentation kits

AT A GLANCE

- 1U rack mount server
- Single 16-core / 8-core Intel Atom Denverton-NS System-on Chip C3000 Series
- Up to 128 GB DDR4 DRAM
- Up to 4x3.5" SAS/SATA drives
- Up to 2xM.2 SATA / PCIe drives
- 4x10 GbE LAN ports with bypass
- Shared IPMI 1 GbE LAN port
- Single PCIe x8 slot (x8)
- Redundant AC PSU

S-1500

technical specifications



S-1500 Rear View

Form Factor

1U rack mount

Dimensions (HxWxD)

1.70" (43.2mm) x 17.2" (437mm) x 19.85" (503mm)

Processor(s)

- Supports Intel Atom Denverton-NS SoC C3000 Series
- C3958, 16-core, 2.0 GHz, 31W
- C3708, 8-core, 1.7 GHz, 17W

Memory

- Up to 4 DIMMs slots, DDR4 up to 2400 MT/s, ECC, RDIMM, UDIMM
- Up to 128 GB (max)
- DIMM sizes: 8 GB, 16 GB, 32GB

Storage

- Up to 4x 3.5" SAS/SATA, hot swap drive bays
- Up to 2xM.2 SATA3 or PCIe, x2

Expansion

- 1x PCIe 2.0 x8 slot (x8), riser card required
- 1x full-height / half-length PCI expansion slot (optional)

Optional Add-in PCIe Cards

- Single-port 10 GbE Fiber LAN port
- Dual-port 10 GbE Fiber LAN ports
- Dual-port 10 GbE Copper LAN ports
- Dual-port 10 GbE Copper LAN ports with bypass
- Dual-port 1 GbE Fiber LAN ports with bypass
- Dual-port 10 GbE Fiber LAN ports with bypass
- Entry-level RAID controller, RAID 0,1
- Enterprise-level RAID controller, RAID 0,1,5,6,10, cache, with optional super cap back up

Integrated External I/O

- DB-15 video port (rear)
- 2 COM ports (1 by rear)
- 4 USB 3.0 ports (4 by rear)
- 4 RJ-45 10 GbE Copper LAN ports with bypass (rear)
- 1 shared IPMI 1 GbE LAN port (rear)

Server Management

- Support for Intelligent Platform Management Interface v.2.0
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Aspeed AST 2400 BMC
- IPMI with shared LAN

Front Control Panel

- Power on/off button
- System reset button
- Power LED
- Hard drive activity LED
- 2x network activity LEDs
- System overheat LED

System Cooling

4x 40x28mm cooling fan

Power Supply

- 400W redundant power supply with input 100 - 240Vac, 50-60Hz
- 92% power efficiency

Regulatory Approval

- FCC Class A, VCCI, CE, NRTL, RoHS, RCM
- Other certifications per specific requirements

Environment

- Operating temperature: 5 to 35°C (41 to 95°F)
- Non-operating temperature: -40 to +70°C (-40 to 158°F)
- Operating relative humidity: 8% to 90% (non-condensing)
- Non-operating relative humidity: 5% to 99% (non-condensing)

Warranty

- Standard two-year limited warranty, return to factory
- Optional extended warranty and advance replacement service.

NOTE: These specifications should be viewed as preliminary and final specifications may vary.

Support and Maintenance Services

UNICOM Engineering offers a variety of support and maintenance service programs to ensure high availability, rapid response, effective troubleshooting, fast parts replacement and 24-hour support.

Please visit www.unicomengineering.com/supportservices for more information.

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