

# S-1300

## 1U Rack Mount SATA System



UNICOM Engineering's S-1300 is a rack mount appliance platform that brings entry-level server-class performance in an appliance solution. Applications requiring up to 4 internal enterprise class SATA drives benefit from the latest in Intel Goldmont Microarchitecture Atom low power system on chip (SoC). The S-1300 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-1300 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 SATA /PCIe drives support to ensure quality and 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 4x2.5" SATA drive (fixed)
- Up to 2xM.2 SATA / PCIe drives
- 4x10 GbE LAN ports with bypass
- Shared IPMI 1 GbE LAN port
- Single PCIe x8 slot (x8)
- Single AC PSU

# S-1300

## technical specifications



S-1300 Rear View

### Form Factor

1U rack mount

### Dimensions (HxWxD)

1.70" (43.2mm) x 17.2" (437mm) x 11.3" (287mm)

### 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
- Up to 128 GB (Max)
- DIMM sizes: 8 GB, 16 GB, 32 GB

### Storage

- Up to 4x 2.5" or 1x3.5" SATA3, 6 Gb/s internal drive bays
- Up to 2xM.2 drive bays; 1xB-Key, SATA3 & 1xM-Key, SATA3, PCIe x2
- 1xSATADOM, SATA3, 6 Gb/s

### Expansion

- 1x PCIe 2.0 x8 slot (x8), optional 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
- RAID Controller, RAID 0, 1

### 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

- 2x 8500 RPM cooling fan
- Optional 3rd cooling fan for add-in card support

### Power Supply

- 200W high-efficiency power supply gold level certified
- 100 - 240V, 50-60 Hz, 2.6 Amp max

### Regulatory Approval

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

### Environment

- Operating temperature: 5°C to 35°C (41 to 95°F)
- Non-operating temperature: -40°C to 60°C (-40 to 140°F)
- Operating humidity: 8%-90% (non-condensing)
- Non-operating humidity: 5%-95% (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](http://www.unicomengineering.com/supportservices) for more information.

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