

S-1550 R5

High-Reliability, Medium-Density Enterprise Computing Systems



UNICOM Engineering's S-1550 R5 enterprise computing system offers high-reliability, medium density in a single Central Processing Unit (CPU) package. Combining the performance of a single Intel Xeon E-2200/2100 series Coffee Lake Microarchitecture processor, high speed Error-Correcting Code (ECC) Dual In-Line Memory Modules (DIMM), up to ten hot swap drives with integrated Redundant Array of Independent Disks (RAID) controller, up to three available expansion slots, and redundant power supply units, the S-1550 R5 is designed to meet various expansion demands while maintaining a 1U form factor. This platform offers the maximum reliability and uptime required for business critical applications.

Features and Benefits

Built for Performance

- Supports a single multi-core Intel Xeon E-2200/2100 Series Coffee Lake Microarchitecture processor series for maximum performance and density
- Supports up to 4 DDR4-2666 MT/s ECC DIMMs for faster application execution and greater overall stability
- Supports up to 10 Hot-Swap Hard Disk Drives (HDD) / Solid State Drives (SSD) allow ideal customization to meet the storage needs of various applications

Built for High Reliability Applications

- Enterprise class SAS / SATA / Non-Volatile Memory Express (NVMe) drives for greater reliability
- Integrated RAID controller to ensure maximum data protection
- Hot swap drives and power supplies ensure low Mean-Time-To-Repair (MTTR)
- Redundant power supplies ensure high reliability in case of a failure

AT A GLANCE

- Single 4-to-8 Core Intel Xeon E-2200/2100 series Coffee Lake Processor
- Up to four DIMMs Double Data Rate 4 (DDR4) – 2666 MT/s
- Up to ten 2.5" or up to four 3.5" SATA/SAS/NVMe HDD/SSD
- Embedded RAID technology for SATA RAID levels 0/1/5/10
- Three PCIe Gen3 slots
- Dual 10 GbE LAN ports
- Dedicated IPMI 2.0 LAN Port
- Four USB 3.0 ports
- Redundant 650W AC power supply units

S-1550 R5

technical specifications



S-1550 R5 Rear Views

Form Factor

1U rack mount

Rack Dimensions (HxWxD)

- 1U (25.4" in depth)

Processor

- Support for one Intel Xeon E-2200/2100 Series Coffee Lake Processor
- LGA1151 Socket
- Maximum supported Thermal Design Power (TDP) of up to 95W

Chipset

- Intel C242

Memory

- 4x DIMMs slots
- Up to 64 GB DDR4-2666MT/s ECC Registered
- DIMM Sizes: 8 GB, 16 GB

Storage Support

- 3.5" Drive Chassis: 4x 3.5" SAS3/SATA3 hot swap drive bays
- 2.5" Drive Chassis: 8x 2.5" SAS3/SATA3 + 2 x 2.5" SAS3/SATA3/NVMe hot swap drive bays (total 10)
- SATADOM

Storage Device Options

- 2.5"/3.5" SAS/SATA HDD/SSD up to 12 Gb/s
- 2.5" NVMe SSD
- M.2 SATA/NVMe SSD via optional M.2 PCIe carrier card

Riser Cards

- Support for two riser card slots, Max 3 PCIe add-in cards
- 3.5" Chassis: 1x HH/HL PCIe 3.0 x4, 1x FH/FL double-wide PCIe 3.0 x16 or 2x FH/FL PCIe 3.0 x8
- 2.5" Chassis: 1x HH/HL PCIe 3.0 x4 slot, 1x FH/FL PCIe Gen 3.0 x8, 1x FH/FL PCIe Gen 3.0 x4

Add-in PCIe Card Options

- 1 GbE, 10 GbE, Copper, Fiber, Bypass, NICs
- Entry, Enterprise, SAS/SATA, Tri-Mode RAID Controllers, battery backup
- SAS Host Bus Adapter (HBA), Internal, External
- M.2 PCIe carrier card

Integrated RAID

- 6x SATA 6Gb/s Intel Embedded RAID support with RAID levels 0/1/5/10 via C242 chipset

External I/O

- 1x DB-15 VGA port – 1 rear
- 2x RJ45 10 GbE LAN ports – rear
- 1x RJ45 1 GbE Dedicated IPMI LAN port – rear
- 2x USB 3.0 ports – rear
- 2x USB 3.0 ports – front
- 1x RS232 Serial Com 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 AST2500 Baseboard Management Controller (BMC)

System Fans

- 5x 40x56mm counter-rotation pulse width modulation (PWM) cooling fans

Power Supply

- 2x hot swap power supply
- 650W AC

Operating System (OS) Support

- 64 bit Windows OS
- 64 bit Linux OS
- VMware OS
- Citrix OS

Regulatory Approval

- National Recognized Testing Laboratory (NRTL), Conforming European (CE) Mark / Safety, Certification Body (CB)
- Federal Communications Commission (FCC) Parts 15 Class A, Voluntary Control Council for Interference (VCCI), Australia & New Zealand Regulatory Compliance Mark (RCM)
- Restriction of the use of certain Hazardous Substances (RoHS) Compliant

Environment

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

Warranty

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

NOTE: specifications subject to change without notice.

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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