

E-2900 R3

High-Reliability, High-Density Communications Systems



UNICOM Engineering's E-2900 R3 communications appliance delivers the industry's best combination of high-performance and high-reliability for high density applications. Able to support up to two Intel Xeon E5-2600 Series Sandy Bridge Microarchitecture processors, up to six PCIe expansion cards and up to twenty-four disk drives, this system provides a scalable 2U rack mount solution. This allows software vendors to customize the system solution to match high-density storage and I/O requirements. Featuring integrated RAID, hot swap drives and redundant hot swap power supplies to ensure maximum reliability and uptime, customers can build a greater variety of enterprise communications, call center, video server, storage solutions and energy-efficient general purpose data center building blocks.

Features and Benefits

Built for Performance

- Supports up to two 8-core Intel Xeon E5-2600 Series Sandy Bridge Microarchitecture processor series for maximum performance and density
- Supports up to 24 DDR3-1600 MHz ECC DIMMs for faster application execution and greater overall stability
- Supports up to 24 SAS 15K RPM HDD allow ideal customization to meet the storage needs of various applications

Built for High-Reliability Applications

- Enterprise class SAS & SSD drives and RAID ensure maximum reliability
- Hot swap hard drives and power supplies ensure low Mean-Time-To-Repair (MTTR)
- Redundant hot swap power supplies ensure high reliability in case of a failure

AT A GLANCE

- Up to two 8 or 6-Core Intel Xeon E5-2600 Series Sandy Bridge processors
- Intel C600 Series chipset, Intel Ethernet Controller I350, Integrated Baseboard Management Controller (BMC)
- Up to 24 Dual In-Line Memory Modules (DIMMs) Double Data Rate 3 (DDR3) – 1600 MHz
- Up to 24 2.5" SAS/SATA HDDs with embedded RAID technology for SATA RAID levels 0/1/10
- Up to 6 Full-Height / Full-Length (FH/HL) PCIe Gen3 slots
- One I/O expansion module slot
- One SAS RAID module slot
- Four 1 GbE ports
- Up to Five USB 2.0 ports
- Redundant 750W AC power supply units



◀ 2U Eight or Twelve x 3.5" Hot Swap HDD Server Chassis

◀ 2U Eight, Sixteen or Twenty-four x 2.5" Hot Swap HDD Server Chassis

E-2900 R3

technical specifications



E-2900 R3 Rear View

Form Factor

2U rack mount

Dimensions (WxHxD)

3.45" (87.6 mm) x 17.2" (437 mm)
x 27.4" (698 mm)

Processors

- Support for one or two Intel Xeon E5-2600 series Sandy Bridge Processors
- LGA 2011, Socket R

Chipset

Intel C600-A chipset with support of optional Storage Option Select keys

Memory

- 24 DIMMs slots
- DDR3 - 1333/1600 MHz ECC Registered

Storage Bay Options

- 8 x 3.5" SATA/SAS hot swap hard drive bays + optical drive support
- 12 x 3.5" SATA/SAS hot swap hard drive bays
- 8 x 2.5" SATA/SAS hot swap hard drive bays + optical drive support
- 16 x 2.5" SATA/SAS hot swap hard drive bays + optical drive support
- 24 x 2.5" SATA/SAS hot swap hard drive bays

Other Storage Option

Optional eUSB Solid State Device (SSD)

Riser Cards

Support for two riser card slots.

- 3-slot riser card: 2 x PCIe Gen3 x16 (x8), 1 x PCIe Gen3 x8 (x8)

I/O Module Slot

One Intel I/O Expansion Module (x8 PCIe Gen3) slot to support an optional I/O module:

- GbE I/O Module
- 10 GbE I/O Module
- Infiniband I/O Module

SAS Module Slot

One SAS RAID module slot to support an optional H/W RAID SAS Module

Integrated RAID Support

- Intel Embedded Server RAID Technology with host-based SW RAID levels 0/1/10
- Optional upgrade keys to support additional embedded SATA, SAS and S/W RAID options

Integrated LAN

Embedded Intel Ethernet Controller I350

External I/O

- Video (rear)
- Four 1 GbE NIC ports (rear)
- Up to five USB 2.0 ports – three (rear) + two (front on non-max hard drive SKUs)

Server Management

- Integrated Baseboard Management Controller (BMC), IPMI 2.0 Compliant
- Intel Remote Management Module 4 Lite for remote Keyboard, Video, Mouse (KVM) support
- Intel Remote Management Module 4 Management NIC for dedicated network interface

Security

Optional Intel Trusted Platform Module (TPM)

Control Panel

- System ID button with integrated LED
- Non-Maskable Interrupt (NMI) button
- Network activity LEDs
- System cold reset button
- System status LED
- Optional LCD control panel

System Cooling

- Five 60x38 mm managed system fans
- Each Power Supply Unit support a integrated 40 mm fan

Power

750W AC, hot swap, redundant capable

OS Support

- Windows 2008
- Red Hat Linux

Regulatory Approval

FCC Class A, VCCI, CE, UL, RoHS

Environment

- Operating temperature: 10°C to 35°C (50 to 95°F)
- Non-operating temperature: -40°C to 70°C (-40 to 158°F)
- Non-operating humidity: 90%, non-condensing at 28°C (82°F)

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.

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