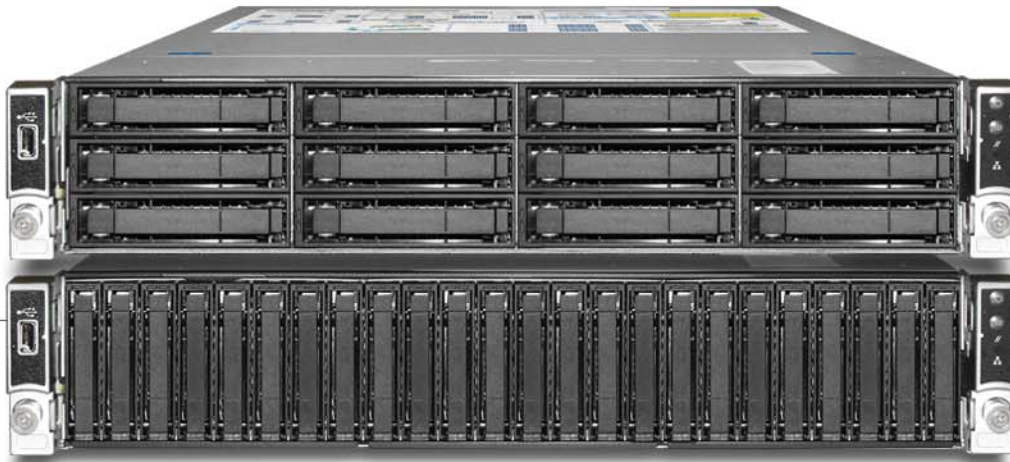


# E-2900 R5

## High-Reliability, High-Density Enterprise Computing Systems



UNICOM Engineering's E-2900 R5 enterprise computing system delivers the industry's best combination of high-performance and high-reliability for high density applications. Able to support up to 2 Intel Xeon Skylake Microarchitecture scalable processors, up to 8 PCIe expansion cards and up to 24 hot swap 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 security, 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 6-to-20-core Intel Xeon Skylake Microarchitecture scalable processors for maximum performance and density
- Supports up to 24 DDR4-2666 MT/s ECC DIMMs for faster application execution and greater overall stability
- Supports up to 24 SAS/SATA/NVMe hot swap drives allow ideal customization to meet the storage needs of various applications

### Built for High-Reliability Applications

- Enterprise class SAS/SSD/NVMe 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-to-20 Core Intel Xeon Skylake scalable processors
- Intel C624 chipset
- Up to 24 DIMM slots, 12 per Processor
- Up to 24 SAS/SATA/NVMe drives with embedded RAID technology
- Eight PCIe Gen3 slots
- One OCP expansion module slot
- One SAS RAID module slot
- Two RJ45 10GbE LAN ports (S2600WFT base system only)
- Three external USB 3.0 ports and one external USB 2.0 port
- One external DB-15 video port
- One external RJ-45 serial port
- Integrated Baseboard Management Controller (BMC) with dedicated RJ45 remote management port
- Redundant 1300W AC / 1100W AC / 750W DC power supply units

# E-2900 R5

## technical specifications



E-2900 R5 Rear View

### Form Factor

2U rack mount

### Dimensions (HxWxD)

3.5" (89mm) x 17.25" (439mm) x 30.25" (768.35mm)

### Processor Support

- Support for one or two Intel Xeon 6100 series Skylake Processors
- LGA3647-0, Socket P
- Maximum supported Thermal Design Power (TDP) of up to 150W

### Chipset

Intel C624 chipset

### Memory

- 24 DIMMs slots, 12 DIMM slots per processor
- 6 memory channels per processor, 2 DIMMs per channel per processor
- DDR4-2666 MT/s ECC Registered
- Non-Volatile DIMM (NVDIMM) support

### Storage Bay Options

- 12 x 3.5" SAS/SATA hot swap drive bays (supports up to 2 NVMe drives)
- 24 x 2.5" SAS/SATA/ NVMe hot swap drive bays
- 2 x 2.5" SATA SSD back of chassis hot swap drive bays
- 2 x M.2 SSD connectors

### Storage Options

- 2.5"/3.5" SAS/SATA HDD up to 12 Gb/s, 7.2K RPM
- 2.5" SATA SSD, 6 Gb/s
- 2.5" NVMe SSD, U2
- M.2 SATA/NVMe SSD

### Integrated RAID Support

- On-Board SATA Software RAID levels 0/1/10;
- Optional SATA Software RAID 5 with activation key
- Optional Intel Virtual RAID on CPU (VROC) for NVMe with activation key

### RAID Module Slot

- 1 Intel RAID module slot to support an optional SAS RAID module
- Entry / Enterprise, Tri-Mode, 16/8-ports internal, 12G SAS, 6G SATA, NMVE, battery backup

### Integrated LAN

Two RJ45 10GbE LAN ports (S2600WFT base system only)

### OCP Module Slot

- 1 Intel OCP Expansion Module slot to support an optional module
- 1 GbE, 10 GbE, 40 GbE NICs, Copper, Fiber

### Riser Cards

Support for three riser card slots, max 8 PCIe cards:

- Riser #1: 2 x PCIe Gen3 x8 (x16) + 1 x PCIe Gen3 x8 (x8)
- Riser #2: 2 x PCIe Gen3 x8 (x16) + 1 x PCIe Gen3 x8 (x8)
- Riser #3: 1 x PCIe Gen3 x4 (x8) + 1 x PCIe Gen3 x8 (x8)

### PCIe Cards and Add-in Options

- 1 GbE, 10 GbE, 40 GbE NICs, Copper, Fiber
- NVMe SSD
- Entry / Enterprise RAID Controllers
- 16 Gb Fibre Channel
- PCIe Retimer / Switch
- SAS Expander, SAS3.0, 12Gb/s, internal / external ports

### External I/O

- 1 DB-15 video ports (DB-15) – rear
- 2 10 GbE NIC ports (RJ45) – rear (S2600WFT base system only)
- 3 USB 3.0 ports – rear
- 1 USB 2.0 port – front
- 1 RJ-45 serial port – rear
- 1 Dedicated RJ-45 server management NIC port – rear

### Server Management

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

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

### Security

Optional Intel Trusted Platform Module (TPM) 2.0

### Front Control Panel

- System ID button with integrated LED
- Non-Maskable Interrupt (NMI) button
- Network activity LEDs
- System cold reset button
- System status LED
- Power / sleep button with integrated LED

### System Fans

- 6 hot swap system fans
- 1 power supply fan for each power supply module

### Power Supply Options

- Up to 2 hot swap, redundant capable power supply
- 1300W AC Titanium or 1100W AC Platinum or 750W DC Gold

### OS Support

- Microsoft Windows Server 2016 / 2012 R2
- Red Hat Enterprise Linux 7.3 / 7.2 / 7.1
- SuSE Enterprise Linux 12

### 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 and New Zealand Regulatory Compliance Mark (RCM)
- Restriction of the use of certain Hazardous Substances (RoHS) Compliant

### 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.

## 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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