E-1800 R3

High-Reliability, High-Density Communications Systems

UNICOM Engineering's E-1800 R3 communications appliance delivers the industry's best combination of high-performance and high-reliability for medium density applications. Able to support up to 2 Intel Xeon E5-2600 Series Sandy Bridge Microarchitecture processors, up to 2 PCIe expansion cards and up to eight disk drives, this system provides a scalable 1U rack mount solution. This allows software vendors to customize the system solution to match medium-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 eight 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 eight 2.5" SAS/SATA HDDs with embedded RAID technology for SATA RAID levels 0/1/10
- Up to two Full-Height / Half-Length (FH/HL) PCIe Gen3 slots
- One I/O expansion module slot
- One SAS RAID module slot
- Four 1 GbE ports
- Five USB 2.0 ports
- Redundant 750W AC power supply units

E-1800 R3
technical specifications

E-1800 R3 Rear View

Form Factor
1U rack mount

Dimensions (WxHxD)
1.70" (43.2 mm) x 17.2" (437 mm)
x 27.48" (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
- 4 x 3.5" SATA/SAS hot swap hard drive bays + optical drive support
- 8 x 2.5" SATA/SAS hot swap hard drive bays + optical drive support

Other Storage Option
Optional eUSB Solid State Device (SSD)

Riser Cards
Support for two riser card slots.
- 1-slot Riser Card: 1 x PCIe Gen3 x16 (x16)

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)
- Five USB 2.0 ports – three (rear) + two (front)

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.

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

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