

E-4000 R4

High Performance Enterprise Communications System

The E-4000 R4 is designed for next-generation converged communications and telephony applications. It employs Intel's new Xeon 5500 Series microprocessors and wire-speed 5520 I/O chipset for high-performance application requirements. The E-4000 R4 offers the industry's best combination of dual processors, quad-core processing, high availability, scalability and telephony card integration. This system integrates telephony specific capabilities and validation testing to enable more rapid time-to-market for high-density applications in a rack-mountable system.



Features and Benefits

- Purpose-built for high-density enterprise telecom deployments
- Provides sufficient power and cooling to integrate multiple high-end telephony cards
- Supports up to five telephony boards providing capabilities for up to 20 T1/E1 digital network interfaces, 60 analog loop-start ports, 300 station tapped lines or an endless combination of interfaces, loop-start ports and tapped lines

Suitable Telephony Applications

- Voice Mail / Messaging
- Interactive Voice Response (IVR)
- Contact Center
- Call Logging
- Operator Services
- Dictation
- Auto Dialers
- Unified Messaging
- Online Data Entry / Query
- Speech-Enable Auto-Attendant

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Reliability

- Enterprise class SAS drives and RAID ensure maximum reliability
- Supports ECC (Error Correction Codes) registered memory, corrects single-bit errors and detect double-bit errors
- Hot swap components ensure low Mean-Time-To-Repair (MTTR)
- Supports up to eight 3.5" hot-swappable SAS HDDs with RAID levels 0, 1, 5, 6, 10, 50, 60 storage strategies
- Redundant hot swap 800W AC power supplies units (PSU)
- Redundant hot swap cooling fans

Performance

- Supports up to two Intel Xeon 5500 series (Nehalem) quad-core processors with the Intel 5520 I/O Hub
- Supports up to 96GB (Double Data Rate 3) DDR3-1333MHz ECC Registered memory
- Up to 6 PCIe gen 2 slots
- High efficient power supplies

NEI combines expertise in storage, security and carrier-grade communications and enterprise communications with the broadest range of hardware platforms and services to meet the exact needs of your application. Lower your total cost of ownership, accelerate your time to market, manage investments in the field and focus on your core competencies by partnering with NEI.

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| P R O D U C T S P E C I F I C A T I O N S | Form Factor | <ul style="list-style-type: none"> 4U rack height H x W x D: 7.0" (17.8cm) x 17.4" (43.7cm) x 25.5" (64.8cm) Gross weight (maximum configuration): 58 lbs (26.3kg) Chassis for up to eight 3.5" hot swappable drive bays Locking bezel with filter | Graphics / Video | Matrox G200eW with 16MB of cache DDR |
| | Processor Sockets | Two | Expansion Slots | <p>Up to 6 PCIe Slots:</p> <ul style="list-style-type: none"> 4 PCIe Gen2 x8; 1 non-telephony card, 3 telephony or non-telephony cards 1 PCIe Gen2 x4; for telephony or non-telephony card 1 PCIe x4; for telephony or non-telephony card |
| | Processors | Quad-core Intel Xeon 5500 Processor Series (Nehalem) | Optional PCIe Telephony Cards | <p>Dialogic Cards:</p> <ul style="list-style-type: none"> D4PCIUFEW 4-port analog combined media board D41JCTLSEW 4-port analog loop start combined media board D120JCTLSEW 12- port analog loop start combined media board D480JCT2T1EW 2T1 (48-port) combined media board <p>AudioCodes:</p> <ul style="list-style-type: none"> DP6409E 2TI/E1 (48/60 Channels) passive tap card NGX2400-EH 24-channel station recorder card <p><i>Additional card can be integrated by request</i></p> |
| | Cache | 5500 series 4MB to 8MB Level 2 cache depending on processor | IPMI | <ul style="list-style-type: none"> Support for intelligent platform management Interface v.2.0 Integrated Winbond WPCM450 baseboard management controller (BMC) with virtual media and KVM over LAN Dedicated network interface via Realtek RTL8201N PHYceiver |
| | Chipset | <ul style="list-style-type: none"> Intel 5520 (Tylersburg) I/O Hub Intel ICH10R + IOH-36D | Power Supply Units (PSU) | <ul style="list-style-type: none"> 800W AC high-efficiency redundant hot swap N+1 ATX PSU AC Voltage: 100-240V, 50-60Hz, 10-4 Amp |
| | Memory | <ul style="list-style-type: none"> 12 DIMM slots: Up to 48GB DDR3-1333 MHz ECC registered memory DIMM Sizes 1Gb, 2GB, 4GB | Fans | Three 5000 RPM hot swap cooling fans + two 5000 RPM hot swap rear exhaust fans + individual CPU heat sink fans |
| | Drive / RAID Controllers | <p>SATA</p> <ul style="list-style-type: none"> Integrated Intel 6-Port ICH10R SATA 3Gb/s controller RAID 0, 1, 5, 10 support <p>SAS / SATA Drives – requires optional RAID controller</p> <ul style="list-style-type: none"> LSI 8-port 9260-8i SAS/SATA 6Gb/s controller RAID 0, 1, 5, 6, 10, 50, 60 support | Environment | <p>Temperature:</p> <ul style="list-style-type: none"> Operating temperature range: 10 to 35°C (50 to 95°F) Non-operating temperature range: -40 to 70°C (-40 to 158°F) <p>Humidity:</p> <ul style="list-style-type: none"> Operating humidity range: 8 to 90% non-condensing Non-operating humidity range: 5 to 95% non-condensing |
| | Drive Bays | 8 x 3.5" hot swap SAS/SATA drive bays | Regulatory / Compliance | UL/cUL, CE, FCC Class A, RoHS |
| | Maximum Internal Storage | 8TB SATA | Warranty | Covered by our standard two-year warranty with optional support and maintenance warranty services |
| | 3.5" Hard Drives | <ul style="list-style-type: none"> SATA HDDs: 1TB, 750GB, 500GB SAS HDDs: 600GB, 450GB, 300GB | | |
| | Optical Drives | Optional Optical Drive | | |
| | Network Interface Controller (NIC) | <p>Integrated controller:</p> <ul style="list-style-type: none"> 2x Intel 82574L gigabit Ethernet controllers 10/100/1000BASE-T support <p>Optional add in PCIe NICs:</p> <ul style="list-style-type: none"> Quad GbE server adapter Dual GbE server adapter | | |

Support and Maintenance Services

NEI 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.nei.com/supportservices for more information.



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