



N-2710

Power-Optimized Carrier-Class Application Platform

NEI's N-2710 carrier-grade rack mount server offers customers a NEBS Level 3 certified solution. It provides dual socket support for the Intel® Xeon® 5600 Series Processor, coupling high performance with power efficiency to provide improved performance-per-watt over previous-generation rack-mount servers. This high-performing, long-life 2U platform is custom designed with enhanced cooling, rails, bezel and mechanical provisioning for demanding carrier-grade telecommunications environments and data centers.

With the ability to pre-configure up to four PCIe I/O cards, telecommunications and network equipment providers can create purpose-built solutions. The N-2710 delivers more affordable performance, increases power efficiency, accelerates time-to-market and maximizes ROI.

Features and Benefits

- Redundant hot swap power and cooling to reduce Mean-Time-To-Repair (MTTR) and increase Mean-Time-Between-Failures (MTBF)
- NEBS Level 3 compliance testing demonstrates 5-nines (99.999%) availability
- Purpose-built for converging telecom application deployments
- Power optimized for next-generation deployments
- Carrier-class hardware, SAS drives and RAID for maximum reliability
- Available with up to two 6-core Intel Xeon 5600 processors
- Hot swap hard drives and redundant power supplies for high availability
- Scalable, up to eight SAS or SSD drives, for best-fit solution
- Customizable platform for a variety of deployment needs and applications

N-2710 at a glance

Reliability

- Supporting up to eight 2.5" SAS HDDs with RAID levels 0/1/5/6/10/50/60 storage strategies
- Dual 2-port embedded Gigabit Ethernet NIC with failover
- Redundant, hot swap 870W DC power supplies
- Redundant cooling fans

Performance

- Up to two Intel Xeon 5600 Series 6-core / quad-core processors with the Intel 5520 I/O Hub
- Up to 144GB DDR3-1333MHz ECC Registered memory
- Dual 2-port embedded Gigabit Ethernet NIC with load balancing
- High efficiency power supplies

Expansion

- Up to four PCIe slots
- Four full-length, full-height (FL/FH) PCIe slots:
2 x8 + 2 x4 **OR**
- Three full-length, full-height (FL/FH) PCIe slots:
1 x16 + 2 x4

Our legacy of streamlining application deployment models to create physical, virtual and cloud-ready solutions has made NEI one of the industry's most trusted partners. We are a leading provider of solution design, system integration, application management, global logistics, support and maintenance services for software and telecommunications developers and OEMs worldwide.

Solution Design

- Platform customization & testing
- Windows OS hardening
- Regulatory compliance engineering
- Bezel & packaging branding with OEM name

System Integration

- H/W platform components acquisition and build
- S/W image loading
- Complete solution testing and final packing

Application Management

- Alarm Manager S/W agent
- Health Monitor S/W agent
- Update Manager S/W agent and Update Service

Global Logistics

- Global shipping
- Evaluation / assess pool management

Support & Maintenance

- Basic warranty
- Advance parts replacement
- Advance server replacement
- Anytime on-site with advance troubleshooting
- Technical support

N-2710 technical specifications

Chassis

- 2U rack height
- H x W x D: 8.64cm (3.40") x 44.31cm (17.44") x 68.07cm (26.80")
- Weight (maximum configuration): 26.1kg (57.54lb)
- Chassis for up to eight 2.5" hard drives

CPU

- 2 Sockets
- 6-core or quad-core Intel Xeon 5600 series processor

Chipset

Intel 5520 I/O Hub

Memory

Up to 144GB (18 DIMM slots): 1GB/2GB/4GB/8GB DDR3, 800MHz, 1066MHz or 1333MHz

Storage

- Up to 8 x 2.5" hard drive option
- SAS: 72GB, 146GB, 300GB
- SSD: 25Gb, 50GB

SAS Controller option

- SAS6/iR integrated SAS controller - two internal x4 SAS connectors, RAID levels 0/1, 1 x PCIe x8 **OR**
- PowerEdge RAID Controller (PERC) 6/1 SAS RAID Controller - two internal x4 SAS connectors, 256 MB of integrated DDR2 cache, RAID levels 0/1/5/6/10/50/60 storage strategies, 1 x PCIe x8

Power Supply Units (PSU)

- Two redundant hot swap 870W DC power supplies
- Efficiency (20% to 100%) Load 87% - 90% @ -48VDC
- Voltage range: 36-72 VDC

Optical Drives

DVD+/-RW SATA

PCIe Expansion Options

- 4-slot PCIe riser:
2 FH/FL PCIe x8 + 2 FH/FL PCIe x4 slots **OR**
- 3-slot PCIe riser:
1 FH/FL PCIe x16 + 2 FH/FL PCIe x4 slots

Management Controller

- Integrated Dell Remote Access Controller6 (iDRAC6) Express
- iDRAC6 Enterprise (Optional)
- iDRAC6 Enterprise with vflash 1GB SD (Optional)

Network Interface Cards (NIC)

- Dual 2-port embedded Broadcom NetXtreme II 5709c Gigabit Ethernet NIC with failover and load balancing
- Embedded NICs are TCP/IP Offload Engine (TOE) ready with iSCSI Offload enabled

Network I/O Options

- Intel ET 1Gbe dual port NIC copper PCIe
- GE WANic 5654 4-port GbE packet processor card with XAUI Board-Board Interconnect
- GE WANic 56512 2-port 10 GbE packet processor card

Regulatory/Compliance

- Safety: Underwriters Laboratories (UL / cUL), Conforming European (CE) Mark / Safety, CB
- Emission: FCC 47 CFR Parts 15, Class A, CE, IC ICES-003 Class A

External Storage I/O Options

Qlogic QLE2462 in front of Dual channel 4Gb optical fiber channel PCIe, dual channel 4Gb optical fiber channel, PCIe

Video

Embedded G200 with 8MB of cache

Environment

Temperature:

- Operating temperature range:
5°C to 40°C (41°F to 104°F);
- Short term:
-5°C to 50°C (23°F to 122°F);
- Non-operating temperature range:
-40° to 65°C (-40° to 149°F);

Humidity:

- Operating relative humidity range:
5% to 85% non-condensing;
- Short term:
5% to 90% non-condensing;
- Non-operating relative humidity range:
5% to 95% non-condensing

Operating Systems

- Windows Server 2008 with Hyper-V,
- Red Hat Linux Enterprise v5.3
- Sun Solaris 10

Warranty

- Covered by our standard two-year warranty with optional support and maintenance warranty services

Note: specifications subject to change without notice.

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.

Solution Design

System Integration

Application Management

Global Logistics

Support & Maintenance



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