

# Netra™ 210 Server

Driving next-generation networks



## Highlights

- Built to last — Network Equipment Building Standard (NEBS) Level 3-certified (DC version), future NEBS-compliant (AC version), and ETSI-compliant for reliable operation under the most severe environments, providing protection from temperature, humidity, pollutants, and electrical hazards
- Compact — The Netra™ 210 Server's 1-U-high design with 19.4-inch depth offers a space efficient design with ample space for cable management
- Expandable — Up to two 1.3-GHz UltraSPARC® IIIi processors, 8 GB of memory, one full-length PCI slot (64-bit/66-MHz), and up to two 73-GB, 10K-RPM SAS disk drives help enable future expandability
- Adaptable — Fits in industry-standard racks, including 19-inch and 24-inch, two- and four-post racks.
- High availability — Hot-swappable and redundant disk drives front and back system LEDs, four integrated Gigabit Ethernet ports, System Configuration Card, and Advanced Lights Out Manager can offer easier maintenance and more uptime



## Reliable and rugged to meet the toughest requirements

The Netra 210 Server is the latest generation of Sun's carrier-grade servers designed to meet the needs of demanding applications, under the most strenuous environmental conditions. This ruggedized dual-processor server offers high availability and expandability features in a rack-optimized, affordable, 1-U package.

The Netra 210 Server integrates four auto-negotiating Gigabit Ethernet ports to provide connectivity for high-speed, high-bandwidth networking. System uptime is enhanced by hot-swappable, front-accessible disk drives. Additionally, the Netra 210 Server comes standard with serviceability features like the System Configuration Card to help enable quick system repairs, while the Advanced Lights Out Manager (ALOM) provides simple remote monitoring and management from anywhere on the network.

With 64-bit UltraSPARC IIIi processors and the Solaris™ Operating System, the Netra 210 Server enables an architecture that is robust and reliable, scales readily, provides binary compatibility with existing applications and maintains consistency across all tiers of the network.

The Netra 210 Server enables binary and application compatibility through an end-to-end SPARC®/Solaris™ OS architecture, increasing operation efficiency while eliminating costs for application porting. The system comes preinstalled with the Solaris Operating System, providing one of the most scalable, secure, and available operating systems in its class. The Netra 210 Server is OEM-ready, offering a guaranteed product lifecycle, product change notification, and extended end-of-life (EOL) periods. Offering seamless migration for next-generation network services, the innovative Netra 210 Server delivers a compelling solution for deployments in challenging computing environments.

## Netra 210 Server

### Architecture

- Processor: One or two 1.3 UltraSPARC III processors
- Architecture: 64-bit, four-way Superscaler SPARC V9
- Cache: 64-KB data, 32-KB instruction, and 1-MB integrated L2
- Main memory: Four DIMM slots per processor, DDR PC2100 or faster registered ECC. System configuration from 1 GB to 8 GB

### Standard integrated interfaces

- Network: Four 10/100/1000 Base-T Ethernet
- Network management: One 10 Base-T Ethernet
- Serial: One TIA/EIA-232-F (RJ45) port  
One TIA/EIA-232-F asynchronous (DB9) port
- SCSI/USB: One Ultra160 SCSI multimode (SE/LVD). Two OHCI 1.0-compliant interfaces, supporting dual speeds of 1.2- and 1.5-Mbits/sec. each
- Expansion bus: One internal PCI 2.2-compliant expansion slot; One 64-bit, 33/66-MHz 3.3 V full-length
- Alarms: Four, dry-contact alarms (critical, major, minor, and user)
- System configuration reader and card (removable): Front-accessible for transfer of system configuration information, including host ID, MAC address, NVRAM

### Mass storage and media

- Internal disk: Up to two hot-swap, SAS, 73-GB/10K RPM disk drives
- Internal DVD: Optional slim-line DVD+/- RW
- External disk: Sun StorEdge™ 3000 Series, Sun StorEdge 6000 Series and 9900 Series (optional)
- External tape (LTO 2 and SDLT 320 versions): Sun StorEdge L25 and Sun StorEdge L100 and L180 (optional)

### Software

- Operating system: Solaris 9™ (9/05) OS and later, or Solaris 10™ (3/05) OS and later. Sun Java Enterprise System Software (version 4)
- Languages: C/C++, FORTRAN, Java™ programming languages; all other standard Sun-supported languages
- Networking: ONC™, NFS, TCP/IP, SunLink™, OSI, MHS, IPX/SPX
- Management: SunVTS™, SRS Net Connect, SRM, ALOM
- High availability: Sun™ Cluster 3.X, Netra™ HA Suite

### Power supply

Dual DC power inputs, with typical system input power at 200-300 W, depending on configuration—maximum power input is 400 W, maximum power output is 320 W. Typical power consumption is 1,365 BTU/hr., maximum power consumption is 1,025 BTU/hr.

### Environment

- DC power: -40 V to -75 V DC (range), single or dual power sources -48 V or -60 V DC (nominal)
- Operating temperature: Long-term: 5-40° C (41-104° F). Short-term: -5 to 55° C (23-131° F), 5-90 percent relative humidity noncondensing, but not exceeding 0.24 kg./water/kg. Dry air (0.053 lbs. water/2.205 lbs. dry air)
- Nonoperating temperature: -40° C to 70° C (-40° F to 158° F), up to 93 percent relative humidity, noncondensing, 38° C (100.4° F) max. wet bulb
- Altitude: Operating: -400m to 3,000m [-1,300 ft. to 9,850 ft.] Nonoperating: -400m to 12,000m [-1,300 ft. to 39,000 ft.]
- Acoustic noise and other environmental factors: Declared noise emissions in accordance with ISO 9296—operating, 7.0 B; idling, 7.0 B. Meets ETSI EN 300-019-2-1, 2, 3, Table 3.1 and 3.1E. Except -5° C cold start, condensing humidity, and rain.

### Learn More

Find out more about the Netra 210 Server—Sun's latest, UltraSPARC® III processor-based, dual-processor, ETSI-compliant, 1-U server for driving next-generation networks—by visiting [sun.com/netra](http://sun.com/netra).

Meets Seismic GR-63-CORE requirements for earthquake Zone 4.

### Regulatory agency certifications

Product categories are information technology and telecommunications network equipment. Safety certifications include BSMI, eULus, TUV GS, CB scheme with all national differences CE, CCC, GOST R, S-MARK. EMC certifications include Class A FCC, CE, VCCI, BSMI, C-Tick, MIC, CCC, GOST. Telecommunications (DC only) Telecordia SR 3580 NEBS Level 3.

### Dimensions and weight

- Height: 43.6mm (1.72 in.), 1 RU
- Width: 425mm (16.3 in.), not including bezel, 442mm (17.4 in.), including bezel
- Depth: 493mm (19.4 in.) to rear connectors
- Weight: 9.8 kg. (21.6 lb.) fully configured with DVD and rackmount kit, not including PCI card

Enclosure fits into a standard 19-inch-wide rack. Rack kit includes: 19-inch four-post slide and two-post hard mount. Additional rack kits available: 24-inch four-post slide, and 24-inch two-post hard mount.

- Upgrades for the Netra 210 Server are available through the Sun™ Upgrade Advantage Program—contact your local Sun sales representative for details