

Netra™ 240 Server

Driving next-generation networks



Key highlights

- **Built to Last**—Network Equipment Building Standard (NEBS) Level 3-certified (DC version), 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 240 server's 2-U-high design with 20-inch depth offers high compute density with ample space for cable management
- **Expandable**—Up to two 1.5-GHz UltraSPARC® IIIi processors, 8 GB of memory, three PCI slots, and two 146-GB, 15K-RPM SCSI disk drives help enable future expandability
- **Adaptable**—Fits a wide range of industry-standard racks including 19-inch, 23-inch, and 600mm two- and four-post racks
- **High Availability**—Hot-swappable and redundant disk drives and AC or DC power supplies, 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
- **Security and Investment Protection**—The Netra 240 server, with 64-bit UltraSPARC IIIi microprocessors and the Solaris Operating System, 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

Reliable and Rugged to Meet the Toughest Requirements

The Netra™ 240 server is the latest generation of Sun's carrier-grade, dual-processor servers designed to meet the needs of demanding applications, under the most strenuous environmental conditions. This ruggedized server offers high availability and expandability features in a rack-optimized, affordable, 2-U package. The Netra 240 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 and redundant hot-swappable AC or DC power supplies. Additionally, the Netra 240 server comes standard with serviceability features like the System Configuration Card to help enable quick system upgrades and repairs, while the Advanced Lights Out Manager (ALOM) provides simple remote monitoring and management from anywhere on the network.

The Netra 240 server enables binary and application compatibility through an end-to-end SPARC®/Solaris™ 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 240 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 240 server delivers a compelling solution for deployments in challenging computing environments.



Netra 240 Server Specifications

Architecture Processor Options

Processor	One to two 1.28/1.5-GHz UltraSPARC IIIi
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 512 MB to 8 GB

Standard Integrated Interfaces

Network	Four 10/100/1000Base-T Ethernet
Network management	One 10Base-T Ethernet
Serial management	One TIA/EIA-232-F (RJ45) port
Serial	One TIA/EIA-232-F asynchronous (DB9) port
SCSI	One Ultra160 SCSI multimode (SE/LVD)
USB	Two OHCI 1.0-compliant interfaces, supporting dual speeds of 1.2- and 1.5-Mbits/sec. each
Expansion bus	Three internal PCI 2.2-compliant expansion slots: <ul style="list-style-type: none"> • One 64-bit, 33/66-MHz 3.3 V full-length • Two 64-bit, 33-MHz 5 V half-length
Alarms	Four fail-safe, 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
Security	Optional Sun™ Crypto Accelerator 500 card, offering security protocol acceleration via daughtercard

Mass Storage and Media

Internal disk	Up to two hot-swap, Ultra160 SCSI, 73/146-GB, 15K-RPM disks
Internal DVD	Optional slim-line DVD-ROM Optional slim-line DVD RW
External disk (optional)	Sun StorEdge™ 3000 Series Sun StorEdge 6000 Series Sun StorEdge 9900 Series
External tape (optional)	(LTO 2 and SDLT 320 versions) Sun StorEdge L25 Sun StorEdge L100 Sun StorEdge L180

See sun.com/netra for the most current list.

Software

Operating system	Solaris 8 (07/03) and later, Solaris 9 (04/04) and later, or Solaris 10 (03/05) and later
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
Applications	Sun Java™ Enterprise System

Power Supplies

One required, two for redundancy (hot-swappable)		
	DC	AC
Max. input power	571 W	556 W
Max. output power	400 W	400 W
Max. power consumption (typ.)	394 W	407 W
Max. Input current	15A (at 40V)	6.5A (at 100 VAC)
Redundancy	1+1 hot-swap with independent power cords	

Environment

AC power	90-264V AC (47-63 Hz)
DC power	-40 V to -75 V DC (range), single or dual power sources -48 V or -60 V DC (nominal)
Operating temperature	5° C to 40° C (41° F to 104° F) 5% to 85% relative humidity, noncondensing. Short term: -5° C to 55° C (25° F to 113° F), 5% to 90% relative humidity, noncondensing, but not to exceed 0.024 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% relative humidity, noncondensing, 38° C (100.4° F) max. wet bulb
Altitude (operating)	Up to 3000m
Altitude (nonoperating)	Up to 12,000m
Acoustic noise	Declared noise emissions in accordance with ISO 9296: Operating: 7.0 B [LWAd(1B=10dB)] Idling: 7.0 B [LWAd(1B=10dB)]
ETSI	EN 300-019-2-1,2,3, Table 3.1 and 3.1E • Except -5° C cold start • Except condensing humidity • Except rain
Seismic	GR-63-CORE requirements for earthquake Zone 4

Regulatory Agency Certifications

Product Categories	Information Technology Equipment Telecommunications Network Equipment
Safety	CULUS, TUV GS, CB scheme with all national differences CE, CCC, GOST R, S-MARK
EMC	Class A FCC, CE, VCCI, BSMI, C-Tick, MIC, CCC, GOST
Telecommunications (DC only)	Telecordia SR 3580 NEBS Level 3

Dimensions and Weight

Height	87.4mm (3.44 in.), 2 RU
Width	425mm (16.73 in.), not including bezel 442mm (17.4 in.), including bezel
Depth	483mm (19 in.) to rear connectors 508 mm (20 in.) overall maximum depth
Weight	16.3 kg (36 lb.); 18.6 kg (41 lb.) fully configured with rackmount kit
Enclosure	Fits into a standard 19-inch-wide rack. Rack kit includes: 19-inch four-post. Additional rack kits available: 19-inch two-post, 23-inch two-post, 600mm x 600mm, and 19-inch four-post slide adjustable up to 863.6mm

Upgrades

	Upgrades for the Netra 240 server are available through the Sun™ Upgrade Advantage Program. Contact your local Sun sales representative for details
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Warranty

Hardware support	One year return to Sun, parts repair and replacement
Software installation	90 days
Call response	Eight hours
Delivery	Return to Sun

Find out more about the Netra 240 — Sun's latest, UltraSPARC® IIIi, dual-processor, ETSI-compliant server for driving next-generation networks — by visiting sun.com/netra.

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