

Sun Fire™ V445 Server

Setting the standard in network computing



Highlights

- Up to four 1.6 GHz UltraSPARC® IIIi CPUs, each with 1 MB L2 cache
- 32 GB memory capacity
- Eight internal disk bays with integrated SAS disk controller
- Four 10/100/1000 Mb/s Ethernet ports
- Solaris™ 10, Solaris 9 Operating System
- Enhanced availability features, including hot-swap disks, cooling fan trays, and power supplies
- Eight I/O expansion slots, four PCI-X and four PCIe
- Rack-optimized 4U form factor
- Front and rear power and fault LED indicators
- Advanced Lights Out Manager
- Socketed System Configuration Card (SSCC) allows system identity to be transferred to standby systems
- An ideal solution for e-mail, hosting, e-commerce, OLTP, online banking, supply chain, database management, inventory management, CRM, ERP, EDA, MCAD, and simulations
- Available as a Sun™ System Pack, which combines the server with the right services as one offering, enabling customers to maximize their IT value while lowering total cost of acquisition and ownership

Value, performance, and manageability, powered by up to four 1.6 GHz UltraSPARC® IIIi processors, the Sun Fire™ V445 server is a datacenter-class, entry-level server for Solaris™ OS applications that provides value, performance and manageability. Hot-plug, front-accessible disk drives, redundant power supplies, cooling fan trays, and a Socketed System Configuration Card that permits easy and quick identity transfer enhance the Sun Fire V445 server's reliability.

Easily visible system and component LEDs provide service features that help enable quick diagnosis and repairs, while the system's Advanced Lights Out Manager (ALOM) provides remote management and diagnostic capabilities. Features such as eight PCI slots (four PCI-X and four PCIe), four 10/100/1000 Mb/s Ethernet ports, up to eight disk drives, and 32 GB of memory provide scalability for the Sun Fire V445 server—all in a rack-optimized compact, 4U form factor.

In addition, the Sun Fire V445 server comes pre-installed with the most highly available, secure, reliable UNIX® operating system on the planet—the Solaris 10 OS. With the Solaris Application Guarantee, we ensure Solaris binary compatibility from release to release. Plus, Solaris Containers enable you to safely consolidate multiple applications onto a single system to virtualize your environment, increase utilization rates, and cut system and licensing costs.

The Sun Fire V445 server is available as a Sun System Pack. This offering combines the server with the right services, enabling customers to yield the most value from their assets. The Sun System Packs provide significant advantages over traditional warranty plans by delivering higher value services such as better service coverage, automatic OS updates, and training credits.

Better yet, the Sun Fire V445 server is part of the Sun Customer Ready Program, which delivers factory-integrated, end-to-end, easy-to-deploy solutions that are built to meet specific customer requirements. This Program can be leveraged to help with design validation, integration and testing of Sun and third-party components. Additionally, the Sun Customer Ready Program offers a broad range of services to deliver complete life cycle management of the IT infrastructure. Sourcing the solutions through the Program simplifies and reduces risk, eliminates the guesswork in customers' IT projects, and accelerates time to productivity for Sun's customers.

Sun Fire V445 Server Specifications

Processor options

Processor	Two to four UltraSPARC® IIIi 1.6 GHz
Architecture	64-bit, four-way superscalar SPARC® V9
Cache	64 KB data, 32 KB instruction, and 1 MB integrated L2

Main memory

- Four DIMM slots per processor, DDR-1 SDRAM
- System configurations from 4 GB to 32 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
USB	Four USB 2.0 compliant ports supporting speeds up to 480 Mb/s
Expansion bus	Four full-height PCIe and four full-height PCI-X
Socketed system configuration card	Allows transfer of system configuration information, including host ID

Mass storage and media

Internal disk	Eight hot-plug 10,000 rpm 73 GB SAS disks, 146 GB disks are optional
Internal DVD	One Slimline ATAPI combination CD/DVD-RW
External disk	<ul style="list-style-type: none"> • Sun StorageTek™ A5100, A5200 Arrays • Sun StorageTek S1 Array • Sun StorageTek 3120, 3310, 3320, 3910, 3960 SCSI Arrays • Sun StorageTek 3510, and 3511 FC Arrays • Sun StorageTek 6120, 6130, 6140, 6320, 6540, 6960 Arrays • Sun StorageTek 6920 System • Sun StorageTek 5210, 5310 NAS Arrays • Sun StorageTek 9900 Series • Sun StorageTek 9940 System • Sun StorageTek T3A/T3B Arrays
External tape	<ul style="list-style-type: none"> • Sun StorageTek DAT 72 Tape • Sun StorageTek LTO 2, 3 Tapes • Sun StorageTek SDLT 600 • Sun StorageTek C2 Autoloader • Sun StorageTek C4 • Sun StorageTek L8 Autoloader • Sun StorageTek L25/L100 Libraries • Sun StorageTek L180/L700 • Sun StorageTek L500

Software

Operating system	<ul style="list-style-type: none"> • Solaris 10 OS (beginning with 11/06) • Solaris 9 OS (beginning with 09/05 HW) • Solaris 10 OS preinstalled
Enterprise infrastructure software ¹	Sun Java Enterprise System 2005Q4 available on select configurations only
Languages	<ul style="list-style-type: none"> • C/C++, FORTRAN • Java™ programming language • All other standard Sun-supported languages
Networking	ONC™, NFS, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX
Management	Sun™ Management Center, Sun SNMP Management Agent, Advanced Lights Out Management (ALOM), Sun Net Connect, Sun Update Connection

Regulations (meets or exceeds the following requirements)

Safety	UL/CSA-60950-1, EN60950-1, IEC60950-1 CB Scheme with all country deviations, IEC825-1, 2, CFR21 part 1040, CNS14336
RFI/EMI	EN55022 Class A, 47 CFR 15B Class A, ICES Class A, VCCI Class A, AS/NZ 3548 Class A, CNS 13438 Class A, KSC 5858 Class A, GB 9254 Class A, EN61000-3-2, GB 17625.1, EN61000-3-3
EMI	47 CFR 15B (Code of Federal Regulations, Part 15, Subpart B) Class A; EN55022 Class A per EMC Directive 89/336/EEC (CE Mark); VCCI Class B; Industry Canada ICES-003; AS/NZ 3548 (Australia/New Zealand); CNS 13438 (Taiwan); KSC 5858 (MIC Mark/Korea)
Immunity	EN55024/CISPR24
Telecommunications	EN300-386
Regulatory marking	CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, MIC, UL/cUL, UL/S-mark
RoHS	Restriction of Hazardous Substances (RoHS) directive 2002/95/EC Labeled per Waste Electrical and Electronic Equipment (WEEE) Directive

Immunity certifications

IEC 1000	<ul style="list-style-type: none"> • EN55024 per EMC Directive 89/336/EEC, including IEC 61000-4-2 Electrostatic discharge immunity test IEC 61000-4-3 Radiated, radiofrequency, electromagnetic field immunity test IEC 61000-4-4 electrical fast transient/burst immunity test • IEC 61000-4-5 surge immunity test IEC 61000-4-6 immunity to conducted disturbances, induced by radio-frequency fields IEC 61000-4-8 power frequency magnetic field immunity test • IEC 61000-4-11 voltage dips, short interruptions and voltage variations immunity tests
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Learn More.

For more information on the Sun Fire V445 server visit sun.com/v445

Dimensions and weight

Chassis	<ul style="list-style-type: none"> • H: 174.5 mm (6.87 in.) • W: 445 mm (17.5 in.) • D: 644 mm (25.4 in.) including bezel
Weight	37 kg (82 lb.) fully configured
Enclosure	Fits into a standard 19-inch wide rackmount kit that complies with EIA-310-D1992 standard

Power supplies

Four hot-swappable for redundancy, two required

Environment

AC power	100-240 V AC (50-60 Hz)
Maximum AC power	<ul style="list-style-type: none"> • 788 watts maximum • 2,689 BTU/hour maximum • 9.3 A @ 100 VAC, 8.4 A @ 110 VAC, 4.2 A @ 220 VAC, 3.7 A @ 240 VAC
Typical AC power	<ul style="list-style-type: none"> • 557 watts • 1,901 BTU/hour
Operating temperature	5°C to 35°C (41°F to 95°F), 20-80 percent relative humidity, non-condensing, 27°C max. wet bulb
Operating altitude	Up to 3000 m, maximum ambient temperature is derated by 1°C per 500 m above 500 m
Nonoperating temperature	-40°C to 60°C (-40°F to 140°F), up to 93 percent relative humidity, noncondensing, 38°C max. wet bulb
Nonoperating altitude	Up to 12000 m
Acoustic noise	6.7 Bels operating and 6.7 Bels idle

Upgrades

Upgrades are available for SPARC server and Sun Enterprise™ systems. Contact your local Sun sales representative for details.

Warranty

Hardware support	One year
Software install	90 days
Call response	Eight hours
Delivery	Second business day, on-site

¹ 90-day evaluation version.

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