Low cost network computing:
UltraSPARC® IIIi processors and support for the Solaris™ Operating System, Sun™ Open Network Environment (Sun ONE), and Sun™ Cluster 3.0 make the Sun Fire V440 the ideal server for web infrastructure computing, corporate compute farms, hosting and custom-application deployment.

Reducing Complexity:
Advanced Lights Out Manager (ALOM) provides remote management functionality lowering the requirement for onsight staff. The System Configuration Card increases availability by allowing quick and easy system ID transfer. Support for the Sun Install Check tool enables customers to confirm proper initial system configuration and installation.

Improve TCO:
Low acquisition and support costs, low power and cooling requirements, and binary compatibility provide greater flexibility in high-density, horizontal scaling environments.

On the Web | www.sun.com/v440

Sun Fire™ V440 Server

A data center class, rack optimized server that sets the new standard for low cost network computing

Sun microsystems

Value, Availability, and Manageability.

The Sun Fire™ V440 server is a data center class, entry server that is powered by up to four 1.062/1.28 GHz UltraSPARC® IIIi processors. Features such as six PCI slots, two 10/100/1000 Mb/s Ethernet ports, up to 4 disk drives, and 16GB of memory prove the rack-optimized Sun Fire V440 server has the capacity to meet the needs of compute intensive applications. The Sun Fire V440 server also contains high availability and manageability features in a compact, 4U package. Hot-plug, front-accessible disk drives, redundant hot-plug power supplies (with independent cords), a system configuration card that permits easy and quick identity transfer enhance the Sun Fire V440 server's uptime. Easily visible system and component LEDs provide serviceability features that help enable quick diagnosis and repairs, while the systems Advanced Lights Out Manager (ALOM) provides remote management and diagnostic capability.

Sun Fire V440 Server

Specifications

Get the details.

Find out more about the Sun Fire V440 server—an ideal solution for email, web hosting, e-commerce, OLTP and online banking, supply chain and database management, inventory management, CRM, ERP, EDA, MCAD, and simulations—by visiting: **www.sun.com/v440.**

Architecture

Processor	Two to four UltraSPARC® IIIi (1.062 GHz or 1.28 Ghz)
Architecture	64 bit, 4-way Superscalar SPARC® V9
Cache	64 KB data, 32 KB instruction and 1 MB integrated L2
Main Memory	4 DIMM slots per processor, registered DDR-1 SDRAM System configurations from 4 GB to 16 GB

STANDARD INTEGRATED INTERFACES

Network	Two 10/100/1000 BaseT Ethernet
Network Management	One 10 BaseT Ethernet
Serial Management	One TIA/EIA-232-F (RJ45) Port
Serial	One TIA/EIA-232-F asynchronous (DB9) Port
SCSI	One Ultra320 SCSI (LVD)
USB	Four OHCI-1.0 Compliant Interfaces, supporting dual speeds of 12 and 1.5 Mbits/sec each
Expansion Bus	Six internal PCI 2.2 compliant expansion slots: Three 64 bit 33/66 MHz 3.3V full-length Three 64 bit 33 MHz 5V full-length
System Configuration Card	Front accessible for transfer of system configuration information, including host ID

Mass Storage and Media

Internal Disk	Up to four hot plug Ultra320SCSI 36GB or 73GB Disks
Internal DVD	One Slim-line ATAPI DVD-ROM
External Disk	Sun StorEdge™ 3310 SCSI Sun StorEdge 3310 NAS Sun StorEdge 3510 Sun StorEdge A1000/D1000 Sun StorEdge D240 Sun StorEdge T3 enterprise array Sun StorEdge T3 workgroup array Sun StorEdge D2 Sun StorEdge S1
External Tape	Sun StorEdge 4mm DDS-4 Tape Sun StorEdge DLT8000 Flexipack Sun StorEdge SDLT 220 Sun StorEdge SDLT 320 Sun StorEdge L7 Sun StorEdge L8 Sun StorEdge L25 Sun StorEdge L100

Software

Operating	Solaris™ 8 (Hardware Release 07/03 or later)
Environment	Operating Environment Supported
Languages	C/C++, FORTRAN, Java™ programming language; all other standard Sun-supported languages
Networking	ONC™, NFS, TCP/IP, SunLink™,OSI, MHS, IPX(tm)/SPX
Management	Sun™ Management Center, SunVTS, SRS Ready, SRM, ALOM, Sun Install Check Tool

Power Supplies

One required, two for redundancy (hot plug) with separate power cords

Maximum AC Power	650 W
Typical AC Power	570 W

Environment

AC power	90 Œ 264 V AC (47 Œ 63 Hz)
Operating Temperature	5°C to 40°C (41°F to 104°), 20% to 80% relative humidity, noncondensing, 27°C max wet bulb
Nonoperating Temp.	-40°C to 60°C (-40°F to 140°), up to 93% relative humidity, noncondensing, 38°C max wet bulb
Altitude (operating)	Up to 3000m, maximum ambient temperature is derated by 1°C per 500m above 500m
Altitude (non-operating)	Up to 12000m
Acoustic Noise	6.7 Bels operating and 6.7 Bels Idle

Regulations

Meets or exceeds the following regulations:

Product Safety

UL approval to UL 60950, EN60950, C22.2 No.60950, and CB Report for IEC 950; all including Amendments 1, 2, 3, 4 and 11 and full worldwide deviations. TUV approval to EN60950/IEC 950. GOST Certification for Eastern Block countries. Korean MIC Certification. China CCC mark using UL as agent. CE Declaration of Conformance (SMI self-declaration) to The Electromagnetic Compatibility Directive and Low Voltage Directive with accompanying "Technical Data File". Approval to Argentinian standards using UL as agent.

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 A; Industry Canada ICES-003; AS/NZ 3548 (Australia/New Zealand); CNS 13438 (Taiwan); KSC 5858 (MIC Mark/Korea)

Immunity Certifications

IEC 1000

EN55024 per EMC Directive 89/336/EEC, including
IEC 61000-4-2 Electrostatic discharge immunity test
IEC 61000-4-3 Radiated, radio-frequency, 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

Line Distortion	EN 61000-3-2 per EMC Directive 89/336/EEC
Voltage Fluctuations and Flicker	EN 61000-3-3 per EMC Directive 89/336/EEC

Dimensions and Weight

Chassis

Height	174 mm (6.85 in.)
Width	440 mm (17.3 in.)
Depth (including bezel)	635 mm (25 in.)
Weight	37 kg (82 lb.) fully configured
Enclosure	Fits into a standard 19-inch-wide rack mount kit that complies with EIA-310-D-1992 standard

Upgrades

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

Warranty

Hardware support 3 years
Software install 90 days
Call response 8 hours
Delivery Second business day,on-site

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA 1-650-960-1300 or 1-800-555-9sun www.sun.com

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