

The high-performance, scalable application and database server with enhanced reliability and manageability.

Sun Fire™ V880 Server

HIGHLIGHTS

- Performance, scalability, and RAS features for Internet and database servers, e-commerce and ERP applications, message servers and compute-intensive applications
- Two to eight UltraSPARC™ III processors and a maximum of 32 GB of main memory
- Binary compatibility for applications with previous UltraSPARC systems
- Integrated, high-performance, fibre-channel disk subsystem supporting twelve 36.4-GB drives (total capacity of 437 GB)
- Hot-swap PCI slots, disks, power supplies and cooling fan trays
- Multipathing capability to storage subsystems and network interfaces
- Solaris™ 8 Operating Environment Software:
 - Data-center class reliability, availability and serviceability
 - Extensive security features
 - The cross-industry choice of Fortune™ 500 companies

The Sun Fire™ V880 server excels in an extensive range of applications including Internet and database, e-commerce, ERP and messaging. The balanced system architecture helps ensure responsiveness to the most demanding applications. This server combines high performance and exceptional scalability with an enhanced set of reliability, availability and serviceability (RAS) features.

The Sun Fire V880 server accommodates two to eight UltraSPARC™ III processors with up to 32 GB of main memory. An integrated, fibre-channel disk subsystem supports twelve disks. The 9.6 GB/sec. system bus, integrated I/O adapters and

nine PCI slots ensure a highly scalable, well-balanced system whether the workload is I/O intensive, compute intensive, or both.

In addition to the hot swap PCI slots, disks, power supplies and cooling fan trays, the Sun Fire V880 server offers other enhanced RAS features. These include Automatic System Recovery (ASR) and Remote System Control (RSC). ASR configures around many failed components, thereby allowing the restoration of service. RSC facilitates remote and/or centralized management. All of these features help provide a higher level of availability for critical applications.

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from the Sun™ Store,
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SUN FIRE V880 SERVER

For workgroup, departmental and data center applications, the Sun Fire V880 server provides an outstanding combination of performance, scalability and RAS features required for critical business applications.

SUN FIRE V880 SERVER SPECIFICATIONS

PROCESSOR OPTIONS

Processor	UltraSPARC™ III
Architecture	Superscalar SPARC™ 9
Processor modules	1-4 dual-processor/memory modules
Memory management	128 (16KB pages, two-way associative) plus 16 fully associative entries 512 (16KB pages, two-way associative) plus 16 fully associative entries
Cache (on chip)	64-KB data and 32-KB instruction
Secondary (L2)	8 MB external

MAIN MEMORY

A system maximum of 32 GB when configured with eight processors

STANDARD/INTEGRATED INTERFACES

Network	1-Gb Ethernet and 10/100BaseT Ethernet
I/O	FC-AL disk controller
Serial	Two EIA-232D or EIA-423 serial ports (DB25) via splitter cable
Expansion capability	Nine full-sized, hot-swap, PCI slots compliant with PCI specification Revision 2.1: two at 66 MHz, 64 bits wide, 3.3 volts; seven at 33 MHz, 64 bits wide, 5 volts

MASS STORAGE AND MEDIA

Host adapters	Internal SCSI to support the internal DVD and two optional, removable media device(s)
Internal tape	Optional 12 GB DDS-3 or 20 GB DDS-4 single drive(s)
Internal disk	Up to 12 3.5" x 1.0" 10,000 RPM FC-AL disks, 36.4 GB (72.8-GB drives are also supported)
External disk	Sun StorEdge™ MultiPack Systems Sun StorEdge A1000 Sun StorEdge D1000 Sun StorEdge A3500 Sun StorEdge A5100/A5200 Sun StorEdge T3
External tape	SCSI tape devices via a SCSI host bus adapter: Sun StorEdge 12GB DDS-3 Unipack Sun StorEdge DDS-3 Flexipack Sun StorEdge DDS-3 Autoloader Flexipack Sun StorEdge 20GB DDS-4 Unipack Sun StorEdge DLT8000 Flexipack Sun StorEdge L9 tape autoloader Sun StorEdge L20 tape library family Sun StorEdge L180 tape library Sun StorEdge L700 tape library (Utilization of the Sun StorEdge L180 and L700 tape libraries may be limited by the number of SCSI host bus adapters and buses available for connection to the server.)
Host adapters	Up to nine PCI-to-dual FC-AL adapters or PCI-to-Ultra™ SCSI adapters

SOFTWARE

Operating environment	Solaris™ 8/7/01 or later
Languages	C, C++, FORTRAN, Java™
Networking	ONC™/NFS, TCP/IP, SunLink™ OSI, MHS, IPX/SPX,
System and network management	Sun™ Management Center, Sun Remote System Control, Sun™ Cluster, Solaris PC NetLink, Solstice JumpStart™, Solaris WebStart, Solstice AdminSuite™, Solstice DiskSuite™, Solstice Backup™, and other Solstice™ products

CONSOLE OPTIONS

Monitor	Optional, Sun monitors from 1995 onward (17, 18FP, 19, 20, 21 and 24")
Frame buffer	Sun PGX64 8/24-bit
Keyboard and mouse	USB keyboard and mouse
PCI I/O options	1-Gb Ethernet, 10/100-MB/sec. Ethernet, FC-AL, Sun Quad FastEthernet™, Token Ring, ATM-155, ATM-622, high-speed serial, Ultra SCSI with 10/100-MB/sec. Ethernet, dual-channel single-ended Ultra SCSI, dual-channel differential Ultra SCSI

POWER SUPPLIES

Two required, three for redundancy, each with independent power cord

Maximum AC input	1500 W per power supply
Maximum DC output	1100 W per power supply

ENVIRONMENT

AC power	100-240 VAC, 47-63 Hz, 1.48 KVA
Operating temperature	5° C to 35° C (41° F to 95° F), 20% to 80% relative humidity, noncondensing, 27° C max. wet bulb
Nonoperating temperature	-20° C to 60° C (-4° F to 140° F), 5% to 93% relative humidity, noncondensing

REGULATIONS

Meets or exceeds the following requirements:

Safety	UL 60950, CSA C22.2 EN 60950 (from UL), TUV 60950, UL CB scheme IEC 950 (CE mark), GOST
RFI/EMI	Class A: Australia/New Zealand AS/NZ 3548, Industry Canada ICES-003, European Community EN55022/CISPR22, Japan VCCI, Taiwan CNS 13438, and US FCC 47CFR15.B
Immunity	EN55024, i.e. EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, and EN61000-4-11
X-ray	US DHHS 21 CFR Subchapter J, PTB German X-ray Decree

DIMENSIONS AND WEIGHT

Height	714 mm (28.1 in.) with casters. Rack-mounting does not require the removal of casters
Width	480 mm (18.9 in.)
Depth	836 mm (32.9 in.)
Weight	88.1 kg (194.0 lb.) (minimum, approximate) 130.9 kg (288.0 lb.) (maximum, approximate)
Rack	Fits into a standard 19-inch-wide rack that complies with EIA-310-D-1992 Standard, 34-inch depth rail-to-rail, or third-party commercial racks with depths of 39-inches or greater. To facilitate rack mounting, heavier components such as power supplies may be removed.

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



Right, processor/memory modules



Left, PCI adapters



Front, internal disk array



Back, I/O connectors and power supplies

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