



SUN ENTERPRISE™ 6500 SERVER

Expandable, mission-critical availability and performance.

The Sun Enterprise™ 6500 system is designed to run mission-critical, data center and Internet applications, such as ERP systems, data warehousing, e-commerce, and supply chain management. Modular components make it easy to increase performance and I/O capacity in this highly expandable server. Sun's unmatched availability features, Dynamic Reconfiguration

and Alternate Pathing, enable you to add, remove, upgrade, and service system components while the server remains online. The Solaris™ Operating Environment enables the Sun Enterprise 6500 server to effectively scale to its maximum capacity. And Sun's advanced system management software provides effective, easy-to-use tools to manage the server's powerful resources.

HIGHLIGHTS

- Up to 30 high-performance processors and tremendous I/O throughput deliver leading application performance.
- Sun™ Management Center software simplifies system management, lowering your total cost of ownership with an easy-to-use interface and proactive hardware failure prediction.
- Flexible, dependable service offerings from Sun provide mission-critical support that fits your budget.
- The robust Solaris Operating Environment supports more than 12,000 off-the-shelf applications.

SUN ENTERPRISE™ 6500 SERVER SPECIFICATIONS

PROCESSOR

Number of processors	1 to 30
Architecture	Superscalar SPARC™ Version 9, UltraSPARC™
Cache per processor	Primary: 16-KB instruction, and 16-KB data on chip Secondary: 4-MB or 8-MB external cache
CPU interface	1 to 30 128-bit Ultra™ Port Architecture (UPA) slots
System Interconnect	Gigaplane™, 2.68-GB/sec (at 84 MHz)

SYSTEM BOARDS

Number of boards	Maximum of sixteen boards per system; minimum configuration requires one CPU/Memory board and one I/O board
CPU/Memory board	Holds up to two processors and 16 memory DIMMs
SBus I/O board	Offers two SBus channels, three SBus slots, SunFastEthernet™, Fast/Wide SCSI-2, two FC-AL sockets
Graphics I/O board	Offers one SBus channel, two SBus slots, one UPA slot for Creator3D graphics, SunFastEthernet, Fast/Wide SCSI-2, two FC-AL sockets
PCI I/O board	Offers four PCI channels, two (short) PCI slots, SunFastEthernet, Fast/Wide SCSI-2
Main Memory	Up to 60-GB memory capacity per system

STANDARD INTERFACES

Serial	Two RS-232/423 ports on clock board
SBus	64-bit data bus width, 25 MHz
PCI	64-bit data bus width, 66 MHz
Keyboard and mouse port	One each per system
Ethernet	10/100-MB/sec twisted pair standard (10-BaseT and 100-BaseT) and/or MII transceiver per I/O board
SCSI	On-board 20-MB/sec Fast/Wide SCSI-2 (synchronous) per I/O board
Fibre channel	Two on-board sockets (100-MB/sec full duplex) per SBus and Graphics I/O boards

MASS STORAGE AND MEDIA

Internal disk	Up to four disk boards, each with two SCSI disk drives More than 2-TB of storage can be rack mounted in the system cabinet
Internal tape	DLT, 8-mm, and 4-mm tape options available
CD-ROM	SunCD™ 32 drive standard
External storage	Supports over 30-TB of storage

CONSOLE OPTIONS

Monitor	17- to 24-inch color monitors
Frame buffer	PGX32, Creator3D, and Elite3D frame buffer
SBus options	SunFastEthernet, SunATM™ 155 and 622, Sun Quad FastEthernet, Differential Fast/Wide Intelligent SCSI-2 (DWIS/S), Single-Ended Fast/Wide Intelligent SCSI-2 (SWIS/S), High-Speed Serial Interface (HSI/S), Token Ring Interface (TRI/S), Single- and Dual-Attach FDDI, Serial Parallel Controller (SPC/S), 100-BaseT Fast/Wide SCSI, ISDN, Fast Differential SCSI-2 Buffered Ethernet (DSBE/S), Fast SCSI-2 Buffered Ethernet (FSBE/S), Sun Gigabit Ethernet, FC-AL
PCI options	10/100-BaseT Fast/Wide UltraSCSI, 10/100-BaseT FastEthernet, Quad FastEthernet, Single- and Dual-Attach FDDI, Token Ring, High Speed Serial Interface, Serial Asynchronous Interface, Gigabit Ethernet Network, SunATM 155 and 622, HIPPI

Power supplies

One 184-watt Peripheral Power Supply standard. Up to eight hot-swappable 300-watt Power Cooling Modules (PCM) with redundant, dual-speed fans. One PCM required per two systems boards. Fully-redundant power and cooling available on this system.

Availability features

Automatic System Recovery
Dynamic Reconfiguration
Alternate Pathing
CPU Power Control
Redundant Power and Cooling
Hot-swap Power/Cooling Modules
Hot-swap disk drives
Hardware Failure Prediction
Remote Power Control
Modular components and more

SOFTWARE

Operating system	Solaris Operating Environment 2.5.1 or later
Languages	C, C++, Pascal, FORTRAN, Java™
Networking	ONC, NFS, TCP/IP, SunNet™ OSI, MHS, X.25, DCE, Netware
Windowing system	CDE, OpenWindows™ Version 3 optional
System monitoring	Sun Management Center
System and network management	Solaris Web Start, Solstice AdminSuite™, Solstice Domain Manager, Solstice Enterprise Manager™, Solstice DiskSuite™, Solstice Backup, VERITAS File System and more

ENVIRONMENT

AC power	200-240 VAC, 47-63 Hz, 24 A
Operating	5° C to 35° C (41° F to 95° F) 20% to 80% relative humidity, noncondensing
Nonoperating	-20° C to 60° C (-4° F to 140° F) 5% to 93% relative humidity, noncondensing

REGULATIONS

Safety	Meets or exceeds the following requirements: UL 1950, CSA 950, TUV EN60950, CB Scheme (Nordic Deviation)
RFI/EMI	FCC Class A, DOC Class A, EN55022 Class A, VCCI Class 1
Immunity	EN50082-1
Harmonics	EN61000-3-2

DIMENSIONS AND WEIGHT

Height	173 cm (68.3 in.)
Width	77 cm (30 in.)
Depth	99 cm (39 in.)
Weight, main cabinet	450 kg (1000 lb.) approximate
Power cord	4.6 m (15 ft.)

UPGRADES

Full system upgrades are available for SPARCcenter™ 2000/2000E systems. Chassis upgrades are available for Sun Enterprise 4000, Sun Enterprise 4500, Sun Enterprise 5000, and Sun Enterprise 5500 servers. Competitive server trade-ins are also available.

SUN ENTERPRISE SERVER FAMILY OF PRODUCTS

Sun Enterprise 3500	Sun Enterprise 4500	Sun Enterprise 5500	Sun Enterprise 6500
			

HEADQUARTERS SUN MICROSYSTEMS, INC., 901 SAN ANTONIO ROAD, PALO ALTO, CA 94303-4900 USA
PHONE: 650 960-1300 OR 800-555-9SUN INTERNET: www.sun.com



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