

Sun Fire™ V1280 Server



Enterprise-class features at Wintel-server prices.

Key feature highlights

Offers CPU/memory board Dynamic Reconfiguration, hot swap power supplies and disks, and Lights Out Management (LOM) for reduced downtime and easier maintenance.

Scales up to twelve award-winning UltraSPARC® III processors in a symmetric multiprocessing architecture for investment protection.

Supports up to 96GB memory to provide the headroom needed for constrained Windows applications.

Fully redundant Sun Fireplane interconnect delivers outstanding real-world performance.

Fits into the widest range of racks in its class helping to provide the compute density today's data centers require.

A complementary addition to the Sun Fire™ server line, the Sun Fire V1280 server delivers Sun's proven reliability, availability, and serviceability (RAS) features at Wintel-server prices. Leveraging Sun's SPARC® and Solaris™ Operating Environment binary compatibility and proven SMP architecture, the rack-optimized Sun Fire V1280 server provides the best investment protection and scalability in its class. Its enterprise-class features include Dynamic Reconfiguration of CPU/memory boards for hot upgrades and easier maintenance, and linear scalability up to twelve processors. Additionally, the Sun Fire V1280 server offers up to 96GB of memory and 9.6GB/sec system bandwidth, which make it an ideal solution for your Windows consolidation needs and a great alternative for high performance technical computing (HPTC).



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Specifications

Processor

Number	4, 8, or 12
Architecture	UltraSPARC IIIcu, Superscalar SPARC V9, ECC Protected
Cache per processor	Level 1: Parity protected 32 KB instruction and 64 KB data on chip (single-bit errors are corrected) Level 2: 8 MB external cache

System

CPU/memory boards	Up to 3 CPU/memory boards* with 4 processors each and up to 32 GB memory per board; maximum 12 processors per server
Main memory	Up to 96 GB of memory capacity per system
I/O	2 integrated gigabit Ethernet ports (66MHz) 1 integrated Ultra3 SCSI port (66MHz) 6 open 7" PCI slots (64 bit, one 66 MHz and five 33 MHz)
System interconnect	9.6GB/s Sun Fireplane interconnect. System bus with redundant data, address and response crossbar interconnect

Storage

Internal	Two 366GB Ultra3 SCSI internal disks DVD-ROM internal drive DDS-4 tape drive (optional)
External	Direct attach to Sun StorEdge™ tape libraries and disk arrays, including: Sun StorEdge T3, S1, D2, A1000, D1000, 3300, 3900, 6900, 9900

Availability

Dynamic Reconfiguration of CPU/Memory boards, hot CPU upgrades, redundant Sun Fireplane Interconnect, redundant network connections, hot swap disks, smart fans, 2N redundant hot swap power supplies, hardened Operating System Kernel, hardened I/O drivers, systems configuration card, proactive self diagnostics, end-to-end data integrity, including ECC, and cluster support.

Resource Management

Solaris Resource Manager, Solaris Bandwidth Manager

Software

Operating System	Solaris 8 Operating Environment (version 02/02 or later)
Languages	C, C++, Pascal, FORTRAN, Java™
Networking	ONC™/NFS,™ TCP/IP, SunLink,™ OSI, X.25, DCE, Netware
System monitoring	Solaris Management Console, Sun Management Center 3.0
System and network management	Sun Cluster, Sun OpenBoot™ firmware, Solaris Web Start, Solstice DiskSuite,™ SunScreen™ Secure Net, VERITAS File System, VERITAS Volume Manager, Solaris Resource Manager, Solaris Bandwidth Manager

Environment

AC power	200–240V single phase AC, 47–63Hz, with two 11/13 Amp circuits redundant with another two on a separate grid
Optimum	22° C (72° F) at 45% non-condensing humidity
Range	5° C to 35° C (41° F to 95° F) at 10% to 80% non-condensing humidity
Altitude	Up to 3,048 meters (10,000 ft)

Regulations

Meets or exceeds the following requirements:	
Safety	North America: UL 60950 third edition, CSA C22.2 No 60950-00 third edition (Certified: UL and UL for Canada) European Community: EN 60950:2000, (Certified: UL for Germany/GS-Mark and GOST R for Russia) Worldwide except North America: IEC 60950:1999 and CB Bulletin (Certified: DEMKO and UL for Argentina/IRAM S-Mark)
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

Purchase these products from the Sun™ Store, sun.com/store, or contact your Sun Sales Rep or an authorized Sun reseller near you.

Dimensions and Weight

Height	527mm (20.75 in.) – 12RU
Width	445mm (17.5 in.)
Depth	558mm (22 in.) excluding cable arm
Weight	110–132 kg (240–290 lb.)
Rack-mount enclosure	All Sun racks and most third party 24" (600mm) and deeper racks 2 per 4 post rack, 1 per 2 post rack

Upgrades

Sun Enterprise™/Netra™	Trade-in allowances are available for Sun Enterprise 450, 35x0, 4x00, and Netra t 140x servers
Older Sun systems	Older Sun servers and other vendors' systems are eligible under Sun's Server Consolidation Program
Other vendors' systems	Trade-in programs for other vendors' systems are also available. For more information, contact your local Sun sales representative or authorized Sun reseller.

Services

Sun provides a worldwide services portfolio that helps enable customers to develop a Sun Fire V1280 solution designed for reliability, availability, serviceability, and growth. Sun can assist you to build an architecture plan, assess your current IT infrastructure, improve staff skills and efficiencies, and properly install your Sun Fire V1280 system into your environment. Services highlights include: Enterprise Installation Services, Learning Services, Architecture Services, Migration/Consolidation Services, and the Accredited Installation Provider program. For more information on Sun Services, please visit <http://www.sun.com/service>.

For complementary storage refer to:



Sun StorEdge 3300 Series

* The CPU/memory boards used in the Sun Fire V1280 server are not identical to and thus not replaceable with the Sun Fire Midframe and high-end Uniboards.

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