



2-way powerhouse

Sun Fire™ 280R Server

THE ENTERPRISE-CLASS, RACK-OPTIMIZED, DUAL-PROCESSOR SYSTEM
OFFERING EXCEPTIONAL PERFORMANCE AND SCALABILITY

SUN FIRE™ 280R SERVER

The Sun Fire™ 280R server is an ideal multi-processing solution for application and Web services, financial services, high-performance technical computing, and any other function that requires exceptional power and reliability in a compact, rackable package. Powered by up to two UltraSPARC® III Cu processors, it features a variety of RAS capabilities, including redundant hot-swappable power supplies with independent power cords, front-accessible drives, and status indicator lights. Its Fibre Channel hard disk drive backplane supports hot-plug boot drives. And it provides Remote System Control (RSC) for simple, lights-out management from anywhere on the network. The Sun Fire 280R server fits neatly in standard 19-inch wide racks—ideal for any environment where floor space is at a premium.

SPECIFICATIONS

PROCESSOR OPTIONS

Architecture	UltraSPARC® III Cu 1.2-GHz Superscalar SPARC® V9 processor
Memory management	MMU with 64 I-TLB entries and 64 D-TLB entries, 8192 hardware-supported contexts
Cache	64-KB data and 32-KB instruction on chip 8-MB external level-2

MAIN MEMORY

Total of eight DIMM memory slots available
256-, or 512-MB; or 1-GB expansion (8 GB maximum)
Note: Install DIMMs in groups of four

STANDARD INTERFACES

Network	Ethernet/Fast Ethernet, twisted pair standard (10-BaseT and 100-BaseT)
I/O	40-MB/sec. Ultra SCSI (SCSI-2) (synchronous)
Serial	Two RS-232C/RS-423 serial ports (DB25)
Parallel	Centronics-compatible parallel port (DB25) (ECP mode capable)
Expansion bus	Four full-size 64-bit PCI slots, three at 33 MHz, one at 33 or 66 MHz; USB and HSSDC copper FC-AL connector

MASS STORAGE AND MEDIA

Host adapters	Internal SCSI (Fast/Narrow) to support standard internal DVD
Internal CD	Optional SunCD32, 32X-speed, Photo CD compatible
Internal tape	Optional 12- to 24-GB DDS-3 4-mm, 20- to 40-GB DDS-4 4-mm
Internal disk	Available in 73 GB capacity per drive, for total internal storage of up to 146 GB
External disk	Up to nine SCSI or 18 FC-AL Sun StorEdge™ MultiPacks Supports Sun StorEdge D2, S1, A1000, D1000, T3, and A5200 disk arrays; Sun StorEdge 3900/6900/9900 series storage systems; Sun StorEdge D240 Media Tray
External tape	SCSI tape device from external onboard SCSI host adapter Supports up to four SCSI tape devices (4-mm DDS-3, DDS-4, DLT)

SOFTWARE

Operating system	Solaris™ 8 and Solaris 9 Operating Environment supported; Solaris NEO™ 2.0, OpenStep 1.0
Languages	C, C++, Pascal, FORTRAN, Java™
Networking	ONC™, NFS, TCP/IP, SunLink™ OSI, MHS, IPX™/SPX, DCE
System software	Sun™ Management Center, Sun Remote System Control, Sun Cluster, Solaris PC NetLink
System and network	Solstice JumpStart™, Solaris WebStart, Solstice AdminSuite™ management, Solstice DiskSuite™, Solstice Backup™, and other Solstice™ products

SYSTEM DISPLAY OPTIONS

Monitor	17-, 20-, or 24-in. color
Frame buffer	Sun PGX64 24-bit graphics card Supports up to 24-in. monitor
Keyboard and mouse	USB keyboard and mouse
System status lights	Front Panel System Power and Fault; Power Supply In, Out, and Fault

PCI I/O OPTIONS

10/100-Mb/sec. Ethernet, FC-AL, Sun Quad FastEthernet™, 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, Gigabit Ethernet

POWER SUPPLIES

Type	Redundant, hot-swap with independent power cords (two required for redundancy)
Maximum DC output	560 W
Power bus	Common, load-sharing

ENVIRONMENT

AC power	100–240 V AC, 47–63 Hz, 0.5 K VA
Operating	5°C to 40° C (41° F to 104° F), 20% to 80% relative humidity, noncondensing
Nonoperating	-20° C to 60° C (-4° F to 140° F), 5% to 95% relative humidity

REGULATIONS

Safety	Meets or exceeds the following requirements: UL 1950, CSA C22.2 No. 950, TUV EN 60950, IEC 950 CB Scheme with full deviation, including Nordic deviations EMKO-TSE (74-SEC) 203, ZH1/618
RFI/EMI	FCC Class A, Industry Canada Class A, VCCI Class A, EN 55022 Class A, EN 61000-3-2:1995, EN 61000-3-3:1995
Immunity	EN 55024:1998
X-ray	DHHS 21 Subchapter J; PTB German X-ray Decree

DIMENSIONS AND WEIGHT

Sun Fire 280R chassis	
Height	17.6 cm (6.95 in.)
Width	43.8 cm (17.25 in.)
Depth	69.2 cm (27.25 in.)
Shipping weight	34.0 kg (75.0 lb.) (approximate)
Rack	Fits into a standard commercial 19-in. wide, 36-in. deep rack.



Sun Fire V100



Sun Fire V120



Sun Fire 280R



Sun Enterprise 250



Sun Fire V480



Sun Fire V880

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LFC1.2 Printed in USA 2/03 DE1631-0/10K



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