



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 exceptional multiprocessing 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 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 | 750-MHz or 900-MHz Superscalar SPARC™ 9, UltraSPARC® III and UltraSPARC III Cu processors |
| 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
128-, 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 36-GB or 73-GB models, for a total internal storage capacity 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; 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

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|-----------------------------|---|
| 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

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|---------------------|--|
| 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-inch wide, 36-inch deep rack. |



Sun Fire V100



Sun Fire 280R



Sun Fire V880

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