



# ultimate net worker

## Sun Fire™ V480 Server

THE AFFORDABLE, RACK-OPTIMIZED SERVER THAT OFFERS EXCEPTIONAL  
PROCESSING POWER IN A COMPACT FOOTPRINT.

# SUN FIRE™ V480 SERVER

The Sun Fire™ V480 server is designed to deliver compute density and enterprise-class RAS features at an affordable price. Its space-efficient, rack-optimized 5RU, 24-inch-depth enclosure provides excellent value per rack unit and contains up to four 1.05/1.2-GHz UltraSPARC® III Cu processors, each with 8 MB e-cache (L2), up to 32 GB of memory, integrated dual 10/100/1000-Mb/sec. Ethernet, and the Sun Fireplane Interconnect operating at 9.6 GB/sec. The Sun Fire V480 server features N+1 power supplies with separate power cords, so a fully configured system can run on one power supply; the second power supply is for redundancy purposes. In addition, hot-plug disks and hot-swap power supplies enable online maintenance and repair to further enhance system availability. Outstanding scalability, performance, and enterprise class RAS features make the Sun Fire V480 server an excellent Web, e-commerce, or EDA server. Remote System Control (RSC) reduces overall system management costs by providing monitoring and control from remote locations via Ethernet, serial, and modem connections.

# SPECIFICATIONS

## PROCESSOR OPTIONS

<b>Processor</b>	1.05/1.2-GHz UltraSPARC® III Cu
<b>Architecture</b>	Superscalar SPARC 9
<b>Processor modules</b>	One or two dual-processor/memory modules
<b>Cache (on chip)</b>	64-KB data and 32-KB instruction
<b>Secondary (L2)</b>	8-MB external

## MAIN MEMORY

A system maximum of 32 GB when configured with four processors

## STANDARD/INTEGRATED INTERFACES

<b>Network</b>	Two 10/100/1000-Mb/sec. Ethernet
<b>I/O</b>	FC-AL disk controller, two USB ports
<b>Serial</b>	RJ45 serial port
<b>Expansion capability</b>	Six PCI slots compliant with PCI specification Revision 2.1: two at 66 MHz, 64 bits wide, 3.3 volts; four at 33 MHz, 64 bits wide, 5 volts

## MASS STORAGE AND MEDIA

<b>Host adapters</b>	Internal IDE to support the internal DVD
<b>Internal disk</b>	Two 3.5-in. X 1.0-in. 10,000 RPM FC-AL disks, 73-GB
<b>External disk</b>	Sun StorEdge™ MultiPack systems
	Sun StorEdge A1000
	Sun StorEdge D1000
	Sun StorEdge A3500
	Sun StorEdge A5100/A5200
	Sun StorEdge T3
	Sun StorEdge D2
	Sun StorEdge S1
	Sun StorEdge 3900/6900
	Sun StorEdge 9900
<b>External tape systems</b>	SCSI tape devices via a SCSI host bus adapter:
	Sun StorEdge 12-GB DDS-3 UniPack
	Sun StorEdge DDS-3 FlexiPack
	Sun StorEdge DDS-3 Autoloader FlexiPack
	Sun StorEdge 20-GB 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.)

## SOFTWARE

<b>Operating system</b>	Solaris® 8 or 9
<b>Languages</b>	C, C++, FORTRAN, Java
<b>Networking</b>	ONC, NFS, TCP/IP, SunLink™ OSI, MHS, IPX/SPX
<b>System and network management</b>	Sun™ Management Center, Sun Remote System Control, Sun Cluster, Solaris PC Netlink, Solaris Management Console, Solstice JumpStart™, Solaris WebStart, Solaris Web Start Wizards, Solstice AdminSuite™, Solstice DiskSuite™, Solstice Backup™, and other Solstice® products

## CONSOLE OPTIONS

<b>Monitor</b>	Optional, Sun monitors from 1995 onward (17-, FP18-, 19-, 20-, 21-, and 24-inch)
<b>Frame buffer</b>	Sun PGX64 8/24-bit
<b>Keyboard and mouse</b>	USB keyboard and mouse
<b>PCI I/O options</b>	Gigabit Ethernet, 10/100-Mb/sec. Ethernet, FC-AL, Quad FastEthernet, token ring, FDDI, 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

One required, two for redundancy, each with independent power cord	
<b>Maximum AC input</b>	1440 W per power supply
<b>Maximum DC output</b>	1184 W per power supply

## ENVIRONMENT

<b>AC power</b>	100–240 VAC, 47–63 Hz, 0.895 KVA
<b>Operating</b>	5° C to 35° C (41° F to 95° F) 20% to 80% relative temperature humidity, noncondensing, 27° C maximum wet bulb
<b>Nonoperating</b>	-20° C to 60° C (-4° F to 140° F) 5% to 95% relative temperature humidity, noncondensing

## REGULATIONS

Meets or exceeds the following requirements:

<b>Safety</b>	UL 1950, CB Scheme IEC 950 (CE mark), CSA C22.2 950 (from UL), TUV EN 60950
<b>RFI/EMI</b>	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
<b>Immunity</b>	EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, IEC 61000-3-2, and IEC 61000-3-3
<b>X-ray</b>	U.S. DHHS 21CFR Subchapter J, PTB German X-ray Decree

## DIMENSIONS AND WEIGHT

<b>Height</b>	5U, 222 mm (8.75 in.)
<b>Width</b>	446 mm (17.5 in.)
<b>Depth</b>	610 mm (24.0 in.)
<b>Weight</b>	35.8 kg (79 lb.) (minimum) 44 kg (97 lb.) (fully configured)
<b>Rack</b>	Fits into a standard 19-inch-wide rack mount kit that complies with EIA-310-D-1992 standard, or a 72-inch height Sun StorEdge rack, which will support seven Sun Fire V480 servers.

## UPGRADES

Upgrades are available for SPARC® server and Sun Enterprise™ systems. Contact your local Sun sales representative for details.

## WARRANTY

<b>Hardware support</b>	3 years
<b>Software install</b>	90 days
<b>Call response</b>	8 hours
<b>Delivery</b>	Second business day, on-site



Sun Fire 280R



Sun Fire V480



Sun Fire V880

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