



Sun Fire™ V210 Server

This rack-optimized server sets the standard for all-in-one solutions with comprehensive, industry-leading features packed into a 1RU package at PC pricing.



Key Feature Highlights

- Rack-optimized, 1RU/25-in.-depth design
- Up to 2 x 1.34-GHz processors
- Up to 16 GB memory
- Up to 2 x 73/146-GB, hot-swap, UltraSCSI disks
- One full-length PCI slot (64-bit/66-MHz)
- Single power supply
- Four integrated Gigabit Ethernet ports
- SSL encryption daughtercard that plugs onto the system motherboard
- Comes with Solaris™ Operating System, remote management, Sun Java™ Enterprise System software, and a variety of I/O connectivity—all standard

➤ Superior Performance Combined with Industry-Leading Functionality

Standard with everything a customer could want, the Sun Fire™ V210 is the ultimate high-density, rack-optimized server. Powered by up to two 1.34-GHz UltraSPARC® III processors in a compact, 1U form factor, the Sun Fire V210 server is a true all-in-one solution. Four auto-negotiating Gigabit Ethernet ports provide multiple connectivity for high-speed, high-bandwidth networking.

The first server with a low-cost integrated SSL option on the motherboard, the Sun Fire V210 server provides fast, secure Web transactions without sacrificing CPU cycles or a PCI slot. Hot-swappable, front-accessible SCSI disks make the Sun Fire V210 reliable and easy to maintain, service, and upgrade. The standard System Configuration Card and serviceability features enable quick upgrades and repairs, while the unit's Sun Advanced Lights Out Manager (ALOM) provides remote management to a large number of servers from virtually anywhere on the network.

Sun Fire V210 Server Specifications

Processor Options

Processor	One or two 1.34-GHz UltraSPARC III
Architecture	64 bit, 4-way superscalar SPARC® V9
Cache	64 KB data, 32 KB instruction, and 1 MB integrated L2

Main Memory

4 DIMM slots per processor, registered DDR-1 SDRAM (PC2100) 128 bit + ECC databus system configurations from 512 MB to 16GB

Standard/Integrated Interfaces

Network	Four 10/100/1000Base-T Ethernet
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Network Management	One 10Base-T Ethernet
Serial Management	One TIA/EIA-232-F (RJ45) port
Serial Port	One TIA/EIA-232-F asynchronous (DB9)
SCSI	One Ultra160SCSI multimode (SE/LVD)
USB	Two OHCI-1.0-compliant interfaces, supporting dual speeds of 12 and 1.5 Mbits/sec. each
Expansion Bus	One 64-bit 33/66-MHz, 3.3V, full-length slot (PCI 2.2-compliant)
System Configuration	Front-accessible for transfer of system configuration information, including host ID reader and card (removable)
Security	Optional Hardware Cryptographic Module, offering security protocol acceleration via a daughtercard

Mass Storage and Media

Internal Disk	Up to two hot-swap Ultra160SCSI 73/146-GB disks. Mixing of drives is permitted in the combinations: 1 x 73-GB 1 x 146-GB 1 x 73-GB & 1 x 146-GB
Internal DVD	One Slimline ATAPI DVD-ROM (optional)
External Disk	Sun StorEdge™ S1 array* Sun StorEdge 3310 SCSI array* Sun StorEdge 3120 SCSI array* Sun StorEdge 3510 FCAL array Sun StorEdge 3511 FCAL array Sun StorEdge 3520 FCAL array Sun StorEdge 5310 FCAL array Sun StorEdge 9990, 9985, 9980, 9970, 9960, 9910 series Sun Storage D240 media tray* <i>* Indicates support for direct attachment to server external SCSI port</i>
External Tape	Sun StorEdge DAT 72 Tape Sun StorEdge L8 Tape Autoloader (Solaris 8 & 9, LT02 & SDLT320) Sun StorEdge L25 (Solaris 9 only, LT02) Sun StorEdge L100 (Solaris 9 only, LT02) Sun StorEdge L500

Software

Operating System	Solaris 10 beginning with release 03/05; Solaris 9 beginning with release 12/03; Solaris 8 beginning with release HW 07/03. Requires mandatory patch 109885-15
Languages	C/C++, FORTRAN, Sun Java™ programming language; all other standard Sun-supported languages
Networking	ONC™, NFS, TCP/IP, SunLink™, OSI, MHS, IPX™/SPX
Management	Sun™ Management Center, SunVTS™, SRS Ready, SRM, ALOM
Sun Java Enterprise System	Included with the Sun Fire V210 server. Software is a 90-day evaluation license for: Network Identity Services • Sun Java™ System Directory Server 5 2005Q1 • Sun Java™ System Access manager 6 2005Q1 • Sun Java™ System Directory Proxy Server 5 2005Q1

Web and Application Services

- Sun Java™ System Application Server Enterprise Edition 8.1 2005Q1
- Sun Java™ System Message Queue 3 2005Q1 Enterprise Edition
- Sun Java™ System Web Server 6.1 Service Pack 4 2005Q1

Portal Services

- Sun Java™ System Portal Server 6 2005Q1
- Sun Java™ System Portal Server Mobile Access 6 2005Q1
- Sun Java™ System Portal Server Secure Remote Access 6 2005Q1

Communication and Collaboration Services

- Sun Java™ System Messaging Server 6 2005Q1
- Sun Java™ System Calendar Server 6 2005Q1
- Sun Java™ System Instant Messaging 7 2005Q1

Availability Services

- Sun™ Cluster 3.1 9/04
- Sun Cluster Agents for Sun™ ONE Services (Web, App, Directory, Messaging and Calendar Servers and Message Queue)

** Sun Cluster is not currently supported on Solaris 10, but has been loaded for evaluation on other instances of Solaris Operating Environment versions 8 and 9.*

Power Supplies

	One
Maximum DC output	320 W

Environment

AC power	90 – 264 V AC (47 – 63 Hz)
Operating Temperature	5° C to 40° C (41° F to 104° F), 10% to 90% relative humidity, noncondensing, 27° C max. wet bulb
Nonoperating Temperature	-40° C to 65° C (-40° F to 149° F), up to 93% relative humidity, noncondensing, 38° C max. wet bulb
Altitude (Operating)	Up to 3000m, maximum ambient temperature is derated by 2° C per 500m above 500m
Altitude (Nonoperating)	Up to 12,000m
Acoustic Noise	Less than 7.3B sound power in ambient temperature of up to 24° C

Get the details.

Learn more about the Sun Fire V210 — a feature-rich, ready-to-deploy, 1U server for Web serving, security applications, technical computing, and other network services — by visiting: sun.com/v210.

Regulation (meets or exceeds the following requirements)

Safety	IEC60950, UL/CSA60950, EN60950
RFI/EMI	FCC Class A, Part 15 47 CFR, EN55022, CISPR 22
Immunity	EN55024
Certifications	
Safety	cULus Mark, TUV GS Mark, CE Mark, S-Mark, CCC, GOST
EMC	CE Mark (93/68/EEC), FCC authorized Class A, ICES, VCCI, BSMI, CTICK, MIC, CCC, GOST
RoHS	Restriction of Hazardous Substances — RoHS compliant configurations available

Dimensions and Weight

Chassis	43.2mm (1.7 in.) H x 425mm (16.73 in.) W x 635mm (25 in.) D
Weight	12 kg (26.4 lb.) fully configured; 15.6 kg (34.31 lb.) with rack-mount rails and cable management arm
Enclosure	Fits into a standard 19-in.-wide rack. Four-post rack kit adjustable between 720mm and 925mm

Key Applications

Web Server
Security
Application Development
Portal Gateway
Grid Engine
Technical Computing