

# Sun Fire™ V20z Server

Competitively priced, high performance, easy to manage, general purpose server featuring dual AMD Opteron™ processors



## Key feature highlights

- Extreme native 32-bit, 64-bit performance at competitive 32-bit prices in a 1RU server
- Two AMD Opteron processors embedded with memory controller for up to four times the memory capacity and bandwidth of typical x86 servers
- AMD HyperTransport™ Technology setting the standards for next generation dual processor server architecture
- Up to 16GB of memory, enabling large data set processing
- Lights-Out Management, enabling multiple management frameworks, including in-band, out-of-band, serial or Ethernet access, IPMI, SNMP, CLI
- Up to two Ultra320 SCSI disks with RAID 1 mirroring support
- One full-speed 133MHz/64-bit PCI/X slot and one 66MHz/64-bit PCI-X slot
- 32-bit and 64-bit Linux & Solaris OS support

## Protect your investment while making your business faster.

It's a fast moving world. That means your computing environment has to keep pace with technical innovations as well as your changing business needs. With the Sun Fire V20z server, Sun offers customers the next-generation server architecture running existing 32-bit and 64-bit x86 operating systems and applications. By using the AMD Opteron™ processors and AMD's HyperTransport Technology, the Sun Fire V20z server is built with a system architecture that has two compute engines, up to 16GB of large memory support and ultra fast I/O subsystem— all packaged in a compact 1RU rack-mount server. In addition, the Sun Fire V20z server runs the Linux and Solaris x86 operating systems and existing 32-bit applications natively. It also runs 64-bit versions of these operating systems and the next generation 64-bit x86 applications. With a very flexible in-band and out-of-band Lights-Outs-Management capability and a fast I/O subsystem, the Sun Fire V20z server is ideal as a horizontally scaled cluster, providing an easily expandable, highly available solution for deploying web infrastructure applications, technical compute farms, grid computing implementations, database or development services, or other general purpose Tier 1 and Tier 2 network applications.



# Sun Fire V20z Server Specifications

## Architecture

Processor	-One or two AMD Opteron™ 200 Series processors (models 242, 244, 248)
Cache	1 MB L2 per processor
Memory (min./max.)	1 GB to 16 GB DDR1/333 MHz ECC Registered DIMMs, 8 DIMM slots (4 per CPU)
System Architecture	3 x 3.2 GB/sec HyperTransport Links per processor
Storage	One or two 36 GB or 73 GB Ultra320 SCSI disk drives
Disk Controllers	Onboard UltraSCSI 320 controller with built-in mirroring (RAID 1) support
Networking	Dual onboard Gigabit Ethernet ports
Chipset	AMD
Removable Media	CD/floppy (standard) DVD/floppy (optional)
I/O slots	Two PCI-X expansion slots: • One half-length 64-bit/66 MHz • One full-length 64-bit/133 MHz
I/O ports	• One USB 1.1 port • One RS-232 serial (DB9) • One PS/2 port for keyboard • One PS/2 port for mouse
Video ports	HD15 VGA video connector (rear)
Remote System	• LOM service processor • In-band and out-of-band management • CLI (SSH), IPMI v1.5, SNMP • Dual 10/100 management Ethernet ports • Remote power on/off, FRU status, software load

## Operating Systems

- Solaris 9 4/04 OS, x86 Platform Edition (32-bit)
- Red Hat® Enterprise Linux 3 for AMD Opteron (64-bit)
- SUSE Linux Enterprise Server 8 for AMD Opteron (32-bit/64-bit)
- SUSE Linux 9 Professional\* 64-bit
- Microsoft Windows 2000\* (WHQL certified), (customer provided)
- Microsoft Windows Server 2003\* (WHQL certified) (customer provided)

\*3rd party support only

## Additional Software

In addition to providing Sun Java Enterprise System software, Sun has integrated key enterprise-class and popular open source applications– including the Sun Java System Directory Server, Sun Java System Application Server, Solaris Volume Manager, SunScreen Firewall, UFS, Solaris 9 Resource Manager, IPQoS, SAMBA and Web server software– into the Solaris 9 Operating System. Additionally, 130 open source packages ship with the Solaris OS on the Companion CD.

Third party solutions running on Solaris 9 OS, x86 Platform Edition can be found in the iForce Partner Products Catalog at: <http://solutions.sun.com/catalog.html> under Portfolios.

## Environmental

### Ambient Temperature

Operating temperature +10°C to +35°C at zero meters derate max temperature at altitude

Operating Altitude 3000 meters with maximum temperature of 30°C

Nonoperating temperature -40°C to +65°C

### Vibration

Operating vibration 0.20 G, all axes, 5 to 500 Hz sine

Nonoperating vibration 1 G, all axes, 5 to 500 Hz sine

### Shock

Operating shock 5 G, 11 ms, half-sine

## LEDs

Front-panel LEDs Power, System Status/Fault, Hard Disk Activity, System ID

Rear-panel LEDs Network Connection/Activity, System ID, Power Supply

## Power

100-240 V, 50/60 Hz, 465 W PFC supply

## Regulations

*Meets or exceeds the following regulations:* FCC Class A, CISPR 22A, VCCI-A, UL, CE, Austel, BSMI, GOST R, MIC, Nemko GS, Canada ICES-003 Class A

## Dimensions and Weight

Height	1.69 inches (43 mm)
Width	16.9 inches (430 mm)
Depth	28.5 inches (724 mm)
Weight	Up to 35 pounds (15.88 kg)

## Mounting Options

Tool-less slide rail kit option available and required for racking

## See Also: Sun Fire V60x Compute Grid Rack System



- Provides a ready-to-deploy building block for grid computing
- Sun Fire V60x compute nodes provides the latest x86 processor technology.
- Sun Control Station system management software offers easy-to-use graphical user interface, software management and provisioning features, and performance and health monitoring.

The Sun Fire V60x Compute Grid rack system is an ideal solution for markets such as electronic design automation (EDA), mechanical computer-aided engineering (MCAE), petroleum, life sciences, and others with compute-intensive applications. It is an integrated solution that delivers high performance, excellent price/performance, and high density.

More at: <http://www.sun.com/servers/computegridd>