

# SGI Zx10™ Server for Windows®

The SGI Zx10 server combines fast, cost-effective Intel® Pentium® III processors with a highly tuned system design to deliver unprecedented performance in an industry-standard architecture. Featuring Wahoo Technology™, an innovative approach to architectural integration and tuning, the SGI Zx10 server eliminates the bottlenecks inherent in other architectures and has the widest memory bandwidth available on an industry-standard platform. Its high-availability features include hot-swappable power supplies and disk drives along with RAID subsystems, making it ideal for a production environment. The SGI Zx10 server is the ideal platform for prepress, MCAE media serving, and other technical server applications whose users want faster throughput, fewer delays, and greater productivity.

## Features

SGI™ Wahoo Technology with Streaming Multiport Architecture™

Single or dual Intel Pentium III processor featuring fast on-die 256KB Level 2 Advanced Transfer Cache

High-bandwidth 64-bit PCI slots

High-performance memory subsystem featuring Fast/Wide memory bus and up to 6GB of memory capacity

Flexible disk expansion options designed to maximize internal storage

Preinstalled and certified Windows NT® Server and Windows 2000 Server

Comprehensive one-stop support for both hardware and software

## Benefits

The SGI Zx10 system architecture is engineered to provide the highest possible system performance and memory bandwidth using industry-standard components. It provides up to 5GB-per-second system bandwidth and fully utilizes processors, memory, and I/O subsystems. This results in faster throughput, fewer delays, and greater productivity.

Provides superior computing performance. The scalable design and flexible architecture allow the customer to add exactly the amount of processing power needed.

Provides a flexible expansion platform to accommodate high-bandwidth I/O devices.

The memory bus has a staggering bandwidth of 2.1GB. As a result, the processors can stream data while simultaneously satisfying the demands of hard disks and other I/O devices. It allows users to work with large data sets and the most memory-intensive server applications.

Eight RAID or nine JBOD drive bays allow the ultimate flexibility in internal storage capacity

System is ready to power on with Windows professionally installed and tested for system compliance.

Leverages SGI's enterprise experience in global services: 90-day software and three-year hardware support, including first-year on-site warranty service for Windows NT 4.0 and Windows 2000.



**Sgi Zx10 Server  
Technical Specifications**

<p><b>Operating System</b></p> <ul style="list-style-type: none"> <li>Windows 2000 Server or Windows NT Server</li> </ul>	<p><b>Card Expansion Slots</b></p> <ul style="list-style-type: none"> <li>Seven full-length slots, one AGP Pro 50, six 64-bit PCI [two 66 MHz; four 33 MHz]</li> </ul>	<p><b>Power Consumption [Based on 120 VAC, 60 Hz]</b></p> <ul style="list-style-type: none"> <li>324 W; 2.7 A at 120 VAC maximum configuration</li> </ul>									
<p><b>Chassis Style</b></p> <ul style="list-style-type: none"> <li>Deskside with 6U rack-mount option</li> </ul>	<p><b>CD-ROM</b></p> <ul style="list-style-type: none"> <li>50X ATAPI preinstalled</li> </ul>	<p><b>Physical Specifications</b></p> <ul style="list-style-type: none"> <li>Form factor: deskside with 6U rack-mount option</li> <li>Dimensions [H x W x D]: 26.7 [6U] x 43.2 x 63.5 cm [10.5 x 17 x 25"]</li> <li>Weight: 46 kg [101 lb]</li> </ul>									
<p><b>Processor</b></p> <ul style="list-style-type: none"> <li>Intel Pentium III, dual processors; 1 GHz, 933 MHz, or 866 MHz with 256KB Advanced Transfer Cache</li> </ul>	<p><b>Floppy Disk Drive</b></p> <ul style="list-style-type: none"> <li>3.5" diskette, 1.44MB preinstalled</li> </ul>	<p><b>Environmental Requirements</b></p> <p><b>Temperature</b></p> <ul style="list-style-type: none"> <li>Optimum: 21°C [70°F]</li> <li>Recommended: 10° to 32°C [50° to 90°F]</li> </ul> <p><b>Relative Humidity</b></p> <ul style="list-style-type: none"> <li>Optimum: 50% noncondensing</li> <li>Recommended: 20% to 80% noncondensing</li> </ul>									
<p><b>Memory</b></p> <ul style="list-style-type: none"> <li>256MB–6GB; 133 MHz ECC SDRAM DIMM, three banks, two DIMMs per bank; two-way interleaved; 128 bits wide; industry-standard 168-pin, synchronous</li> </ul>	<p><b>Keyboard and Mouse</b></p> <ul style="list-style-type: none"> <li>Windows OS–ready [104 keys]</li> <li>Three-button mouse</li> </ul>										
<p><b>System I/O</b></p> <ul style="list-style-type: none"> <li>266 MHz high-speed interconnect between chipset and PCI bus; two peer PCI buses, aggregate I/O bandwidth 800MB/sec</li> </ul>	<p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>Redundant 300 W</li> </ul>										
<p><b>Disk Storage Subsystem</b></p> <p><b>Disk Interface Technology</b></p> <ul style="list-style-type: none"> <li>Integrated dual-channel Ultra3 SCSI; second channel supports external standard; two Mode 4–enhanced EIDE channels; Mylex RAID controller [RAID model only]</li> </ul> <p><b>Disk Devices</b></p> <ul style="list-style-type: none"> <li>RAID: SCSI 10,000 RPM UI60/m hot-swappable SCA disks at capacities of 18.2GB, 36.4GB, and 73GB</li> <li>JBOD: SCSI 10,000 RPM UI60/m disks at capacities of 18.2GB, 36.4GB, and 73GB</li> </ul> <p><b>Drive Bays</b></p> <ul style="list-style-type: none"> <li>RAID: eight bays total; two 5.25" by 1.6" full-length externally accessible bays for data-storage devices; one external bay for floppy drive; one bay for CD-ROM; four 5.25" by 1" or 1.6" SCA 80-pin drive bays</li> <li>JBOD: nine bays total; two 1.6" externally accessible bays for disk drives [3.5" by 1.6"] or data storage devices [5.25" by 1.6"]; one internal bay for 3.5" by 1.6" 68-pin disk drive; one external bay for floppy drive; one bay for CD-ROM; four 5.25" by 1.6" 68-pin drive bays</li> </ul> <p><b>Maximum Internal Storage Capacity</b></p> <ul style="list-style-type: none"> <li>RAID: 292GB supports four 1.6"-high disks</li> <li>JBOD: 511GB supports seven 1.6"-high disks</li> </ul>	<p><b>Graphics Adapter</b></p> <ul style="list-style-type: none"> <li>AGP SVGA controller; supports standard SVGA monitors</li> </ul> <p><b>Network Adapter</b></p> <ul style="list-style-type: none"> <li>Intel 82559 Fast Ethernet integrated controller; 10/100Base-TX Ethernet with single, RJ-45 connection; wake-on-LAN</li> </ul>	<p><b>Regulatory Approvals [Meets or Exceeds]</b></p> <ul style="list-style-type: none"> <li>Safety: UL/ULc 1950—3rd Addition, EN60 950—Amendment 4 [harmonized IEC 950], Low-Voltage Directive 73/23/EEC [CE]</li> <li>EMC: EMC Directive [89/336/EEC], EN55022/CISPR 22: 1993 [Class A], CFR47 Part 15 subpart B [FCC Class A], C108.8-M1983 [Class A]</li> <li>RFI/EMI: FCC Class B, CISPR 22 Class B [EN55022], C108.8-M1983 Class B EMC Directive 89/336/EEC [CE]</li> </ul>									
	<p><b>External Ports</b></p> <ul style="list-style-type: none"> <li>Two PS/2-style; two USB ports/serial ports; parallel port</li> </ul> <p><b>System Management Tools</b></p> <p><b>Hardware Monitor</b></p> <ul style="list-style-type: none"> <li>Temperature sensing and reporting; CPU and power plane voltage sensing and reporting; memory error reporting; fan monitoring; intrusion detection and reporting</li> </ul> <p><b>DMI</b></p> <ul style="list-style-type: none"> <li>Compliant with DMI 2.0 specification from DMTF; produces files in PC Systems-Standard MIF 2.2 format suitable for use with DMI-compliant applications</li> </ul> <p><b>SMART Drive</b></p> <ul style="list-style-type: none"> <li>SMART drive health monitoring and impending failure reporting</li> </ul>	<p><b>Acoustics</b></p> <p>Declared per ISO9296, measured according to ISO7779</p> <table border="1"> <thead> <tr> <th>Sound Mode</th> <th>Pressure</th> <th>Power</th> </tr> </thead> <tbody> <tr> <td>Idle</td> <td>~49.0 dBA</td> <td>6.1 Bels</td> </tr> <tr> <td>Operating</td> <td>~49.0 dBA</td> <td>6.1 Bels</td> </tr> </tbody> </table> <p>Meets Environment Category 3, Quiet Office, Desktop/Deskside per Swedish Statskontoret 26:2, 1988</p>	Sound Mode	Pressure	Power	Idle	~49.0 dBA	6.1 Bels	Operating	~49.0 dBA	6.1 Bels
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