## Highly Modular Solution with Industry Leading Flexibility

### KEY FEATURES

Patented 2U half-depth, back-to-back mounted chassis achieves 2x density over competitive full-depth servers

Full range of dual- and quad-core configurations for up to 352 processing cores and 220TB local storage per cabinet

Unparalleled build-to-order flexibility with multiple 2.5" and 3.5" drive options including SATA II, SAS and Solid State Disks

Up to five expansion slots easily accommodate hardware RAID, high speed networking and external storage cards

Energy-efficient AC and DC power technologies reduce heat output and power costs

Front-facing ports and clean cabling reduce service time up to 75%

Open architecture, flexible component choices supportspecific business needs and budget

# SGI® C2005 Half-Depth Server



SGI's C2005 half-depth, rack-mount servers leverage our unique, industry-leading approach to thermal management and power efficiency to enable power savings and higher levels of reliability in any data center environment. Mounted back-to-back to achieve twice the density over competitors' solutions, the C2005 offers industry leading local storage and expansion capabilities unheard of at a 1U effective rack density.

With the processing power of up to 352 cores and local storage capacity of up to 220 TB per cabinet, the C2005 server is ideal for IT environments where space and power are constrained. Our high-efficiency AC and DC power technologies reduce overall power consumption and heat output in any legacy data center, while increasing uptime and reliability.

### Flexible Configurations

The highly modular C2005 server is built to order to address specific data center needs while eliminating unnecessary costs. Based on an open architecture approach using AMD Opteron or Intel Xeon processors, the C2005 server takes configuration flexibility to the next level with two modular zones determining the balance between multiple 2.5" and 3.5" hard drive configurations and expansion slot capabilities.

### Leading Efficiency

SGI's unique approach to thermal management begins with each component inside our servers. Leveraging high-efficiency power supplies,

memory and processors, our patented solutions draw the lowest possible wattage and reduce heat output. Innovative, award-winning AC and DC power solutions at the system, cabinet and data center level enable any legacy data center to immediately achieve reduced power costs.

### High Density

Our unique half-depth form factor enables back-to-back mounting to achieve high density levels of up to 44 dual-processor servers or networking gear per cabinet. Supporting today's fastest AMD and Intel dual- and quad-core processors, one cabinet can deliver—and effectively cool—the compute power of 352 processing cores and 220TB of local storage.

### Simplified Serviceability

Time-saving Roamer™ remote management technology helps reduce administrative resources and overhead. A single, highly intuitive interface provides effortless local or remote control with total lights-out management. Ports, connectors and cables are located in front for rapid service and maintenance.

### Versatile 2.5" and 3.5" Local Storage Support

The C2005 is an ideal match for many different applications. With up to ten 2.5" high performance SAS or SSD drives, the C2005 is well suited for applications such as scale-out database servers. With up to five 3.5" SATA drives, it also meets the need for configurations requiring high capacity local storage. The C2005 can even support a mixture of drive technologies and sizes.

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## Configuration Specifications

| SERVER SERIES | C2005 | |
|---|---|---|
| Model Type | C2005 (Intel) | C2005 (AMD) |
| Chassis Profile | 2U half-depth | 2U half-depth |
| Processors | Up to two dual-core Intel Xeon 5100 or 5200 Series processors; or up to two quad-core Intel Xeon 5300, 5400, or 5500 series processors | Up to two dual-core AMD Opteron 2200 or quad-core 2300 Series processors |
| Max. Cores | Eight | Eight |
| Chipset | Intel 5000p, 5100, 5400, or 5500 | NVIDIA nForce Pro 3600 |
| Front Side Bus Speed | Up to 1600MHz | N/A |
| Memory | Up to 128GB (six, eight or sixteen 1GB, 2GB, 4GB or 8GB DIMMs; up to 800 MHz) | Up to 128GB (sixteen 1GB, 2GB, 4GB or 8GB 667MHz DDR2 DIMMs) |
| Hard Disk Drives | Up to five 3.5", ten 2.5" hot-swap SAS or SATA II drives or a combination of both | Up to five 3.5", ten 2.5" hot-swap SAS or SATA II drives or a combination of both |
| Max. Capacity | SAS: 2.25TB SATA II: 5.0TB | SAS: 2.25TB SATA II: 5.0TB |
| RAID Card Levels (Optional) | RAID 0, 1, 5, 6, 10, 50, 60* | RAID 0, 1, 5, 6, 10, 50, 60* |
| Expansion Cards | Up to five PCI Express low-profile slots or one slot on a riser* | Up to five PCI Express low-profile slots or one slot on a riser* |
| Networking, Onboard | Dual GigE | Dual GigE |
| Roamer™ Remote Mgmt.Card/LCD (Optional) | Serial or IP + Keyboard, Video and Mouse (KVM) | Serial or IP + Keyboard, Video and Mouse (KVM) |
| IPMI Remote System Management (Optional) | IPMI 2.0 | IPMI 2.0 |
| Power Supply | Auto-switching 100-240 VAC or -48 VDC | Auto-switching 100-240 VAC or -48 VDC |
| Chassis Mount | SGI cabinets with back-to-back mounting for double density; standard 19" rack compatible | SGI cabinets with back-to-back mounting for double density; standard 19" rack compatible |
| Dimensions (HxWxD) | 3.5" x 17.6" x 15.5" | 3.5" x 17.6" x 15.5" |

Note: Contact SGI to discuss the full range of build-to-order configurations available
*Dependent on configuration

The configurability of two modular zones provide unparalleled build-to-order flexibility. The upper modular zone determines hard drive and expansion slot features:

| Upper Modular Zone | |
|---|---|
| STORAGE CONFIGURATION | EXPANSION SLOTS |
| Four 3.5" hot-swap drives  | One PCI Express slot on riser |
| Two 3.5" and four 2.5" hot-swap drives  | One PCI Express slot on riser |
| Two 3.5" hot-swap drives  | Up to five low profile slots |
| Eight 2.5" hot-swap drives  | Up to five low profile slots |

The lower modular zone behind the management LCD provides additional local storage capabilities:



| Lower Modular Zone |
|---|
| STORAGE CONFIGURATIONS |
| One 3.5" hot-swap drive |
| Two 2.5" hot-swap drives |
| One internal 3.5" drive and/or CD/DVD-ROM |

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