



## Sun Blade™ 8000 Chassis

More x64 performance in a smaller space



### Highlights

- Up to 50 percent more space-efficient and 43 percent more power-efficient than traditional blades
- Up to double the memory and I/O capacity of competing blades and rackmounts
- Operating system flexibility — runs the Solaris™ 10 Operating System, Linux, Windows, or VMware
- Sun Blade transparent management — direct management of each server module, for seamless integration into existing management infrastructures
- Simple, low-cost integration into existing IT environments
- Shared modular chassis infrastructure designed for superior availability, with no fans or power supplies on the blades



Traditional blade servers lack the power, cooling, and I/O headroom to support cutting-edge processor, connectivity, and memory technology. The Sun Blade™ 8000 chassis bridges that gap with room to spare. The chassis provides open industry-standard I/O designed to support 9.6-Tb/second throughput, high-performance Serial Attached SCSI (SAS) and Serial ATA (SATA) hard drives, and extremely fast memory, making it possible to run high-performance, I/O-intensive applications on a blade server.

The Sun Blade 8000 chassis is built with modular base components. Its design helps datacenters stay ahead of changing business needs — supporting future performance and capacity increases in processor, memory, and I/O technologies. You can simply upgrade modules independently, based on their lifecycle. The chassis accommodates up to 10 server modules with four-socket, multicore AMD Opteron™ processors, and is designed to support the fastest processors for years to come.

With redundant, hot-pluggable, and hot-swappable components, the Sun Blade 8000 chassis is easy to service. Its native PCI Express (PCIe) midplane and innovative, industry-standard PCIe modular I/O design allow individual server modules to be configured with different I/O modules within the same chassis. The chassis'

management model eases integration into existing environments. Each server module contains an Integrated Lights Out Manager (iLOM) service processor, enabling each to be managed directly in the same manner as a rackmount server. In addition, the Sun N1™ System Manager software is available for infrastructure lifecycle management requirements.

In addition to helping reduce system support costs and increase reliability, the Sun Blade 8000 chassis can be faster to deploy than traditional rackmount solutions. The chassis' transparent management architecture requires no custom or proprietary blade-specific systems management licensing, training, or development — helping reduce the time and complexity of integrating into your existing environment.

## Sun Blade 8000 Chassis Specifications

The Sun Blade 8000 chassis is also available as a Sun™ System Pack, combining the server with carefully selected services such as automatic operating system updates, and training credits that help you get the most out of your system.

### I/O modules

PCIe Express Modules — up to 20 per chassis:

- GbE dual-port PCIe ExpressModule — copper (Intel® 82571EB GbE controller-based)
- GbE dual-port PCIe ExpressModule — fiber (Intel® 82571EB GbE controller-based)
- 10 GbE dual-port PCIe (x8) ExpressModule — fiber
- 4 Gb Fibre Channel dual-port PCIe ExpressModule (Qlogic ISP2432 Fibre Channel (FC) controller-based)
- 4 Gb Fibre Channel dual-port PCIe ExpressModule (Emulex Zephyr IOC FC controller-based)
- 4x InfiniBand dual-port PCIe ExpressModules (Mellanox MT25208 InfiniHost III Ex controller-based)
- Sun multithreaded Gigabit Ethernet quad-port PCIe (x8) ExpressModule

PCIe Network Express Modules — up to four per chassis:

- Gigabit Ethernet 20-port passthru PCIe NEM (Intel® 82571EB GbE controller-based)
- 4 Gb Fibre Channel 20-port passthru PCIe NEM (Emulex Zephyr IOC FC controller-based)
- 4x InfiniBand, DDR, 10-port passthru PCIe NEM (Mellanox MT25204 InfiniHost III Lx controller-based)

### Environment

Acoustic noise emissions: Noise levels within two feet of the rear measured at 107 dB; within two feet of the front of the chassis measured at 80 dB

AC power: 200–240 V AC, 50–60 Hz

Operating temperature — single nonrack system: 5° to 35° C (41° to 95° F); 10–90% relative humidity; noncondensing, 27° C max. wet bulb

Nonoperating temperature — single nonrack system: -40° to 65° C (-40° to 149° F); 5–93% relative humidity; noncondensing, 38° C max. wet bulb

Operating altitude — single nonrack system: Up to 2,286m (7,500 ft.), maximum ambient temperature is derated by 1° C per 300m above 900m

Nonoperating altitude — single nonrack system: Up to 3,048m (10,000 ft.)

### Power

Power supplies: N+N (3+3) high-efficiency, hot-swappable, load-sharing, load-balancing

N+N PSU rating: 3,000 W each power supply

### Regulations (meets or exceeds the following requirements)

- Safety: IEC60950, UL/CSA60950, EN60950, CB Scheme with all country differences
- RFI/EMI: FCC Class A, Part 15 47 CFR, EN55022, CISPR 22, EN300-386: v1.31, ICES-003
- Immunity: EN55024, EN300-386: v1.3.

### Learn More

To learn more about the Sun Blade 8000 chassis, go to [sun.com/blades](http://sun.com/blades).

### Certifications

Safety: cULus Mark, TUV GS Mark, CE Mark, GOST-R, S-Mark

EMC: CE Mark (93/68/EEC); Emissions and Immunity Class A Emissions Levels: FCC, VCCI, C-Tick, MIC, GOST-R, BSMI

Other: Labeled per WEEE (Waste Electrical and Electronic Equipment) Directive

### Chassis dimensions and weight

Height: 838.49mm (33.01 in.) 19U

Width: 444.5mm (17.5 in.)

Depth: 722mm (28.43 in.)

Empty chassis with midplane: 42.64 kg (94 lbs.)

Weight (fully configured): 243.13 kg (536 lbs.)

### Mounting option

19-in. rackmount rail kit (included)



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