

# BladeSymphony® 1000 Intel® Xeon® Server Modules

Hitachi BladeSymphony Datasheet

## High Performance with Headroom for Growth

BladeSymphony® 1000 is the first true enterprise-class blade server. It combines a choice of Dual-Core or Quad-Core Intel® Xeon® and/or Dual-Core Intel® Itanium® server modules, integrated management capabilities, and powerful, reliable, scalable system resources—so you can run mission-critical applications with confidence.

By populating the BladeSymphony chassis with server modules running Dual-Core Intel or Quad-Core Intel Xeon processors, you get a powerful blend of industry-leading performance, blazing data throughput, and energy efficiency—to help you tackle virtually any workload—from applications and Web services to multi-threaded, mission-critical processing tasks.

## Packed with Power

BladeSymphony 1000 uses the built-in performance and reliability of Intel Xeon processors to maximum advantage. With its 19" rack-compatible chassis, the eight-slot BladeSymphony 1000 accommodates a total of up to 16 Dual-Core or Quad-Core Xeon processors (up to 64 cores per system).

## More Options, Higher Reliability

Each BladeSymphony Xeon processor-based server module can support up to four PCI slots, accommodates standard PCI-X and PCI Express modules, and gives you the option of adding Fibre Channel HBA, additional Ethernet ports, and even a SCSI interface for more storage. Four on-board 2.5" hot-swappable SAS drives support hardware-based RAID configurations. Two on-board Gigabit Ethernet ports are also provided, along with IP KVM for remote blade access and virtual media support. You can run either the Windows or Linux operating system.

The BladeSymphony 1000 combines the power of Intel Xeon processors with outstanding reliability features. On-board HDDs, power, fan management modules and others are fully redundant and components are hot-swappable. The system leverages Hitachi's main-frame-class memory management; there are redundant switch and management modules; power supply modules are N+1 and fully redundant; and the N+M cold stand-by feature provides fast failure recovery.

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## BladeSymphony 1000 Key Features

- Support for up to eight Dual-Core or Quad-Core Intel Xeon processor-based server modules
- Fully buffered memory support (FBDIMMs)
- Four on-board 2.5" hot-swappable SAS drives supporting up to RAID 5 configurations
- Support for up to four PCI slots per blade for high I/O bandwidth
- IP KVM support for remote operations
- Virtual media for remote media installation
- Two switched on-board Gigabit Ethernet ports
- Multi-OS Support (Windows/Linux)

BladeSymphony



Server modules running Intel Dual-Core or Quad-Core Intel Xeon processors deliver a powerful blend of performance, data throughput, and energy efficiency.

BladeSymphony 1000 supports up to eight Intel Dual-Core or Quad-Core Intel Xeon processor-based server modules per chassis for enterprise-class performance.

## Specifications

BladeSymphony 1000 Server Module (Intel® Xeon® Processor Model)

Processor	Dual Core Intel® Xeon® Processor			Quad Core Intel® Xeon® Processor	
	5110 Series	5140 Series	5260 Series	E5430 Series	X5460 Series
Processor Frequency	1.60GHz	2.33GHz	3.33GHz	2.66GHz	3.16GHz
# of Processors	Max. 2 (Max. 4 cores)			Max. 2 (8 cores)	
Cache Memory	L2:4MB		L2:6MB	L2: 2 x 6MB	
System Bus (FSB) Frequency	1,066MHz	1,333MHz			
Main Memory	ECC DDR2-667 FB-DIMM Chipkill / Memory Mirroring				
Capacity	Max. 32GB				
Memory Slots	8				
Internal HDD	2.5" 73GB / 146GB (10,000min-1) SAS HDD, Max. 4				
Internal Expansion Slot	1 (Dedicated for RAID card of Internal SAS HDD)				
Network Interface	1 Gbit Ethernet (SERDES) x 2 ports				
Power Consumption (Max)	255W	306W	360W	370W	420W
Support OS	Microsoft® Windows Server™ 2003 SP2, Standard Edition Microsoft® Windows Server™ 2003 SP2, Enterprise Edition Microsoft® Windows Server™ 2003 SP2, Standard x64 Edition Microsoft® Windows Server™ 2003 SP2, Enterprise x64 Edition Red Hat Enterprise Linux 4				

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