



Product Brief

Intel® Server
Compute Blade SBXD132

Servers
Blade Servers

Deployment Flexibility, Simplified Management, Operational Efficiencies, and Increased Performance per Watt

High-performance blade servers with I/O and memory expansion options improve ROI and extend IT resources



The Intel® Server Compute Blade SBXD132 is powered by up to two Dual-Core Intel® Xeon® processors 5100 series for high performance, reduced power requirements, and increased thermal efficiency.

Industry-leading performance matched with expanded reliability, manageability, and scalability, increased energy efficiency, and lower operating costs

The Intel® Server Compute Blade SBXD132 is a high-performance blade server with memory and I/O expansion options for small- and medium-sized businesses. Addressing both growing performance demands and the increased need for process efficiencies, the Intel Server Compute Blade SBXD132 can help organizations enjoy improved ROI while extending IT resources through improved performance, performance per watt, operational effectiveness, deployment flexibility, and simplified management. Based on the Dual-Core Intel® Xeon® processor 5100 series, the Intel Server Compute Blade SBXD132 increases resource utilization by collapsing rack systems into single-blade systems, optimizing rack space, significantly reducing cabling, and lowering total cost of ownership.



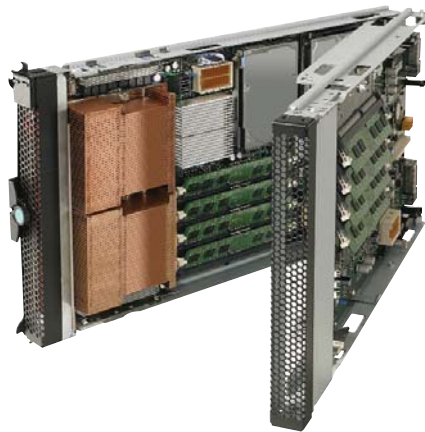
Powered by the Dual-Core Intel® Xeon® processor

The new Dual-Core Intel Xeon processor delivers exceptional performance using less power and generating less heat than other blade server processors—providing optimum price and performance per watt.

A Look Inside

The Intel Server Compute Blade SBXD132 is engineered to offer industry-leading performance per watt—an ideal solution for growing data centers looking to optimize energy efficiency. This dual-core server blade features:

- Dual-Core Intel Xeon processor 5100 series—the highest-performing Dual-Core Intel® processor
- Support for dual processors
- Support for Dual-Core Intel Xeon processor 5100 series from 1.60 GHz to 2.66 GHz
- Four DIMMs, 16 GB memory
- Two redundant network interface cards (NICs)
- Two redundant I/O ports on a single card



The Intel® Server Compute Blade SBXD132 delivers dual-core processor performance, reduced power consumption, and lower heat generation—all in one thin, easily deployed, and simply managed module.

Intel® Server Management for Blades

Reduce the difficulty of server management and administration while reducing your data center size, power consumption, and heat. Intel® System Management Software for blades is a comprehensive program for blade server management that:

- Increases flexibility and convenience by providing a Web-based interface for controlling and monitoring server blades 24x7
- Reduces administrative complexity by simplifying the process of discovering, updating, and tracking servers
- Boosts reliability by allowing installation of operating system updates, applications, service packs, and patches on multiple blade servers from one location

Three service levels are designed to meet the needs of small to large server deployments.

Intel® Server Compute Blade SBXD132

Features

Dual-Core Intel® Xeon® processor 5100 series 1.60 GHz to 2.66 GHz, 4 MB L2 cache with 1066 or 1333 MHz front side bus

Intel® 5000P chipset with support for up to 16 GB memory, and two-way interleaved FB DIMM

Dual 1 Gigabit Ethernet channels

Two small form factor (SFF) Serial Attached SCSI (SAS) hard disk drive bays with redundant array of inexpensive disk RAID 0 and RAID 1 technology

Three-year limited warranty

Benefits

Bandwidth and processing performance to meet the demanding requirements of departmental workloads

Maximizes use of Intel® Core™ microarchitecture to deliver world-class performance for peak server workloads

Ethernet I/O for demanding, data-intensive applications; TCP/IP Offload Engine (TOE) capable

Simplifies cabling requirements and provides greater scalability, performance, and reliability

Peace of mind

Best server performance per watt

Companies are packing smaller, more powerful computing devices into smaller areas, making power density and thermal management key considerations when choosing server platforms and products. Engineered to directly address these challenges, the Intel Server Compute Blade SBXD132 offers industry-leading dual-core processor performance and significant power savings for unmatched performance per watt. Addressing growing performance demands and strict operational requirements, the Intel Server Compute Blade SBXD132 is a versatile blade server ideal for a range of applications—from front-end Web servers to back-end data warehouse solutions. The best platform for the benefits of virtualization, it also helps IT staff improve performance, reduce costs, and boost system utilization with Intel® Virtualization Technology.

More blade storage

The Intel Server Compute Blade SBXD132 supports up to two small form factor (SFF) Serial Attached SCSI (SAS) hard disk drives, providing plenty of high-speed storage for applications requiring fast, local access to hard drive data.

Convenient blade management

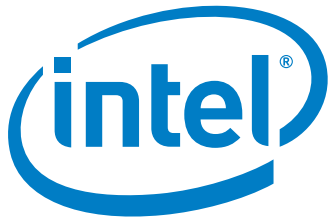
The Intel® Server Management Module SBCECM2, integrated with the Intel® Server Chassis SBCE, streamlines and simplifies management of all 14 server blades in a single Intel® chassis. It allows you to configure multiple Intel® server compute blades in one easy step, using an easy-to-use Web-based interface. It also provides standards-based interfaces for ease of integration into today's enterprise management consoles.

The Intel® Server Compute Blade SBXD132 offers significant power reduction.



Intel® Server Compute Blade SBXD132

- Dual-Core Intel® Xeon® processor 5100 series 1.60 GHz to 2.66 GHz, 4 MB L2 cache with 1066 or 1333 MHz front side bus
- Intel® 500P chipset with support for up to 16 GB memory, two-way interleaved FB DIMM memory
- Up to two integrated 2.5-inch SAS drives



Intel® Server Compute Blade SBXD132 Specifications

Microprocessor

Supports up to two microprocessors	Two Dual-Core Intel® Xeon® processors 1.60 GHz, 1.86 GHz, 2.0 GHz, 2.33 GHz, 2.66 GHz; 4 MB L2 cache with 1066 or 1333 MHz front side bus
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Memory

Four double data rate (DDR2)	
Memory capacity	Support for 1 GB to 16 GB, up to 32 GB with optional I/O and Memory Expansion Module
DIMM sizes	512 MB, 1 GB, 2 GB, 4 GB
Memory type	Two-way interleaved, DDR2 ECC fully buffered DIMM. Four-way interleaved with optional I/O and Memory Expansion Module

Drives

Support for up to two internal 2.5-inch Serial Attached SCSI (SAS) hard disk drives, and three hot swap 2.5-inch SAS hard drives and RAID 5 support with optional Blade Storage Expansion Module

Size

Height	24.5 cm (9.7 inches)
Depth	44.6 cm (17.6 inches)
Width	2.9 cm (1.1 inches)
Maximum weight	5.4 kg (12 pounds)

Integrated Functions

Two onboard Gigabit Ethernet controllers support teaming, failover, Wake on LAN, Serial over LAN (SOL), and TCP/IP Offload Engine (TOE); optional I/O and Memory Expansion Module has an additional Gigabit Ethernet controller with two Ethernet ports

ATI RN-50 video controller

Local service processor provides interface for communication with the Intel® Server Blade Chassis and the management module

Light-guided diagnostics (LED lights indicate failing component); embedded diagnostics

USB buses for communication with keyboard, mouse, disk drive, and CD-ROM drive¹

Intel® 5000P chipset

Front Panel Buttons

Keyboard/Mouse/Video	This button is for associating the keyboard port, mouse port and video port with this blade server; the LED on this button flashes while the request is being processed, then is steady when ownership has been transferred to the blade server
Power control button	This button is located behind the control panel door; press this button to manually turn the blade server on or off
Media tray	This button is for associating the media tray with this blade server; the LED on this button flashes while the request is being processed, then is steady when ownership has been transferred to the blade server

Front Panel LEDs

Blade-error LED	When this amber LED is lit, it indicates that a system error has occurred in the blade server
Information LED	When this amber LED is lit, it indicates that system information for the blade server has been placed in the system event log
Location LED	When this blue LED is lit, it has been turned on remotely by the system administrator to aid in visually locating the blade server; the location LED on the Intel® Server Chassis SBCE unit will be on as well

Activity LED When this green LED is lit, it indicates that there is hard disk drive or network activity

Power-on LED This green LED indicates the power status of the blade server in the following manner:

- Flashing rapidly—the service processor on the blade server is handshaking with the Intel Server Chassis SBCE management module
- Flashing slowly—the blade server has power but is not turned on
- Steady—the blade server has power and is turned on

Input/Output

Power, cooling, removable-media drives, external ports, and advanced system management are provided by the Intel® Server Chassis SBCE

Environmental

Air temperature Operating (system): 10°C to 35°C (50°F to 95°F); 0 to 914 m (2998.69 ft) altitude Operating (system): 10°C to 32°C (50°F to 89.6°F); 914 m to 2134 m (2998.69 to 7000 ft) altitude Non-operating (system): -40° to +60°C (-40° to +140°F)

Humidity Operating: 8 to 80 percent Non-operating: 5 to 80 percent

Electrical Input

Input voltage 12 V DC

Safety Compliance

United States/Canada	UL60950-1 - CSA 60950-1 (United States/Canada)
Europe	EN60950-1, CE - Low Voltage Directive 73/23/EEE
International	IEC60950-1, CB Certificate & Report, IEC6095-1
Russia	GOST R 50377-92 - License

Electromagnetic Compatibility (EMC)

United States/Canada	FCC/ICES-003 - Emissions (United States/Canada) Verification
Europe	EN55022 - Emissions EN55024 - Immunity EN61000-3-2 - Harmonics EN61000-3-3 - Voltage Flicker CE - EMC Directive 89/336/EEC
Japan	VCCI Emissions
Australia/New Zealand	AS/NZS 3548 Emissions
Taiwan	BSMI CNS13438 Emissions
Korea	RRL MIC Notice No. 1997-41 (EMC) & 1997-42 (EMI)
Russia	GOST R 29216-91 Emissions, GOST R 50628-95 Immunity

For the most current product information on the Intel® Blade Server Family, visit: www.intel.com/go/blades

¹ The operating system in the blade server must provide USB support for the blade server to recognize and use the keyboard, mouse, CD-ROM drive, and disk drive. The Intel® Server Chassis SBCE unit uses USB for internal communications with these devices.

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