

Product Brief

Intel® Server Board
S5000PSL

Intel® Server Board S5000PSL

High Performance Server Board for Maximum Reliability and Manageability



Product Overview

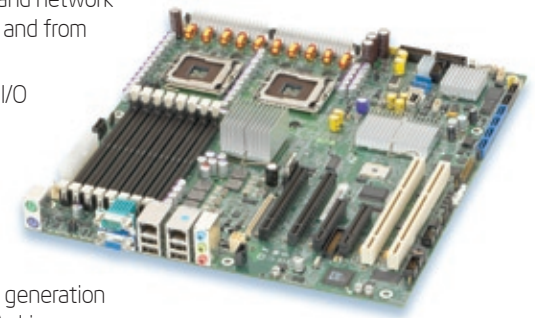
Small and medium-sized businesses today rely on advanced technologies for business applications. Access to the applications that support companies in their quest to maintain their competitive edge require high performance server boards, with maximum reliability and manageability. Growing businesses need a trusted server solution capable of running a variety of database, file, and messaging applications.

Built on a powerful processor foundation, the Intel® Server Board S5000PSL has the performance and features growing businesses demand. Optional hardware RAID delivers added reliability, excellent data protection, and advanced data management. The S5000PSL optimizes performance and cost by integrating key features, and the variety of configurations provides maximum flexibility and scalability for growing companies.

The S5000PSL supports enterprise class, high performance SAS drives, as well as lower cost SATA drives. More higher performance PCI Express* slots provide the expansion headroom businesses need, and the integrated Baseboard Management Controller (BMC) enables manageability while preserving remote management upgrade options. For added flexibility, the S5000PSL is designed to work with both the Intel® Server Chassis SC5400 and the entry level Intel® Server Chassis SC5299-E.

Features and Benefits

- 64-bit Multi-core Intel® Xeon® processor improves performance and headroom, and provides scalability and system redundancy with multiple virtual applications.
- Eight fully buffered 533/667 MHz DIMMs increase capacity and performance.
- Dual Gb Ethernet with Intel® I/O Acceleration Technology (Intel® I/OAT) improves application and network responsiveness by moving data to and from server applications faster.
- Four PCI Express slots provide the I/O bandwidth needed by servers.
- Integrated server management lowers costs.
- Up to six SATA 3Gb/s ports.
- Optional 8-port SAS ROMB or optional 4-port SAS supports next generation enterprise class SAS drives or SATA drives.



Board Specifications

Boards

Intel® Server Chassis Support

Processor Support¹

Number of Processors Supported

System Bus Speed

Chipset

Independent PCI Buses

Total Slots

Slot Types

Memory Capacity

Integrated ATA

Integrated Serial ATA

SAS

Integrated LAN

Integrated Graphics

Server Management Support

Intel® RAID Support

Intel® Server Board S5000PSL (ROMB)

Intel® Server Chassis SC5400 LX
Intel® Server Chassis SC5400 BRP
Intel® Server Chassis SC5400 Base
Intel® Entry Server Chassis SC5299BRP
Intel® Entry Server Chassis SC5299DP

Multi-core Intel® Xeon® Processor

2

667 MHz, 1066 MHz, or 1333 MHz²

Intel® Chipset 5000P

6

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2 x PCI Express* x8
2 x PCI Express x4 (x8 Connectors)
1 x PCI-X 100/133 MHz
1 x PCI-X 100 MHz

32GB ECC FBDIMMs (8 DIMMs)

One channel supporting up to two IDE devices

Enhanced support for six SATA ports at 3.0 Gb/s with RAID 0, 1, 10 and optional AXXRAKSw5 for RAID 5³

8-Port SAS via included ROMB card (Supports optional upgrade to intelligent RAID 0, 1, 5, 10, 50)

2 x Intel Gigabit Ethernet connections

ATI* with 16MB memory

Intel® System Management Software and Intel Remote Management Utilities

Includes Intel® Integrated Server RAID Module with RAID 0, 1, 10 support. AXXRAK18E and DIMM provide intelligent SAS/SATA RAID 0, 1, 5, 10, and 50 with optional Intel® RAID Smart Battery backup. Refer to http://support.intel.com/support/motherboards/server/compat_matrix.htm for up-to-date details on RAID controllers supported by each server board.

Intel® Server Board S5000PSL (SAS)

Intel® Server Chassis SC5400 LX
Intel® Server Chassis SC5400 BRP
Intel® Server Chassis SC5400 Base
Intel® Entry Server Chassis SC5299BRP
Intel® Entry Server Chassis SC5299DP

Multi-core Intel® Xeon® Processor

2

667 MHz, 1066 MHz, or 1333 MHz²

Intel® Chipset 5000P

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2 x PCI Express* x8
2 x PCI Express x4 (x8 Connectors)
1 x PCI-X 100/133 MHz
1 x PCI-X 100 MHz

32GB ECC FBDIMMs (8 DIMMs)

One channel supporting up to two IDE devices

Two SATA ports with support for RAID 0, 1, 10 and optional AXXRAKSw5 for RAID 5³

4-Port SAS with Intel® Embedded RAID Technology II providing RAID 0, 1, 10 and optional AXXRAKSw5 for RAID 5³

2 x Intel Gigabit Ethernet connections

ATI* with 16MB memory

Intel® System Management Software and Intel Remote Management Utilities

Intel® Embedded Server RAID Technology II provides RAID 0, 1, 10 with optional AXXRAKSw5 for RAID 5³. Refer to http://support.intel.com/support/motherboards/server/compat_matrix.htm for up-to-date details on RAID controllers supported by each server board.

Intel® Server Board S5000PSL (SATA)

Intel® Server Chassis SC5400 LX
Intel® Server Chassis SC5400 BRP
Intel® Server Chassis SC5400 Base
Intel® Entry Server Chassis SC5299BRP
Intel® Entry Server Chassis SC5299DP

Multi-core Intel® Xeon® Processor

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667 MHz, 1066 MHz, or 1333 MHz²

Intel® Chipset 5000P

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2 x PCI Express* x8
2 x PCI Express x4 (x8 Connectors)
1 x PCI-X 100/133 MHz
1 x PCI-X 100 MHz

32GB ECC FBDIMMs (8 DIMMs)

One channel supporting up to two IDE devices

Enhanced support for six SATA ports at 3.0 Gb/s with RAID 0, 1, 10 and optional AXXRAKSw5 for RAID 5³

Not available

2 x Intel Gigabit Ethernet connections

ATI* with 16MB memory

Intel® System Management Software and Intel Remote Management Utilities

Intel® Embedded Server RAID Technology II provides RAID 0, 1, 10 with optional AXXRAKSw5 for RAID 5³. Refer to http://support.intel.com/support/motherboards/server/compat_matrix.htm for up-to-date details on RAID controllers supported by each server board.

To build your system and get more details on server configurations from Intel visit: www.intel.com/go/serverconfigurator

For more details on the Intel® Server Board S5000PSL please see: support.intel.com/support/motherboards/server/s5000psl

For more information on how to make the Intel® Server Board S5000PSL part of your server environment, please contact an Intel® Channel Partner Program participant.

¹ Refer to <http://support.intel.com/support/motherboards/server> for up-to-date details on processors supported by each server board.

² 1333 MHz support may require updates that may not be available at launch.

³ Support enabled by installing the AXXRAKSw5 may not be available at launch.

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