Product Brief

**Intel® Server Board
S5000VSA**

Intel® Server Board S5000VSA
A Value Server Board for Small and Medium-Sized Businesses

Product Overview

With more opportunities to expand business potential than ever before, cost conscious companies are looking for ways to use technology more effectively and reach their organizational goals. To be successful in competitive markets, small and medium businesses are realizing the need for server technology.

The Intel® Server Board S5000VSA brings next-generation technology to growing companies. An ideal solution for print, file, web and other multi-functional small to medium business application servers, the S5000VSA board delivers strong reliability and quality to this growing market.

While server management functions are generally available as an add-on, the S5000VSA includes integrated platform management interface 2.0 from Intel for greater ease of use. This server board also offers increased flexibility by supporting SATA and SAS, as well as SCSI via an add-on card. The

Intel® Server Chassis SC5299-E is designed to work with the S5000VSA. This cost-effective chassis adds value by simplifying integration and maintenance through toolless features on all drives, bays and fans.

Features and Benefits

- 64-bit Multi-core Intel® Xeon® processor allows servers to handle heavier workloads and process simultaneous requests, without increasing power consumption.

- Four/eight fully buffered DDR2 533/667 MHz[1] DIMMs increase capacity and performance.

- Intel® I/O Acceleration Technology (Intel® I/OAT) improves application and network responsiveness by moving data to and from server applications faster.

- PCI Express* slots provide expansion headroom for the future.

- Embedded ESB2E[2] server management lowers costs by improving baseline manageability.

- Dual Gb Ethernet increases network performance, with lower processor overhead.[3]

- Legacy 32-bit PCI slot provides support for customers in transition.

Board Specifications

Boards	Intel® Server Board S5000VSA (SAS)	Intel® Server Board S5000VSA (SATA)	Intel® Server Board S5000VSA (SCSI)	Intel® Server Board S5000VSA (Entry SATA)
Intel® Server Chassis Support	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP	Intel® Entry Server Chassis SC5299DP
Processor Support[4]	Multi-core Intel® Xeon® Processor	Multi-core Intel® Xeon® Processor	Multi-core Intel® Xeon® Processor	Multi-core Intel® Xeon® Processor
Number of Processors Supported	2	2	2	2
System Bus Speed	667 MHz, 1066 MHz, or 1333 MHz[5]	667 MHz, 1066 MHz, or 1333 MHz[5]	667 MHz, 1066 MHz, or 1333 MHz[5]	667 MHz, 1066 MHz, or 1333 MHz[5]
Chipset	Intel® Chipset 5000V	Intel® Chipset 5000V	Intel® Chipset 5000V	Intel® Chipset 5000V
Independent PCI Buses	4	4	4	4
Total Slots	5	5	5	5
Slot Types	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz
Memory Capacity	16GB ECC FBDIMMs (8 DIMMs)	16GB ECC FBDIMMs (8 DIMMs)	16GB ECC FBDIMMs (8 DIMMs)	8GB ECC FBDIMMs (4 DIMMs)
Integrated SCSI	Not available	Not available	Single Channel SCSI Add-in Card at 133 MHz	Not available
Integrated ATA	One channel supporting up to two IDE devices	One channel supporting up to two IDE devices	One channel supporting up to two IDE devices	One channel supporting up to two IDE devices
Integrated Serial ATA	Enhanced SATA provides two ports and RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5[2]	Enhanced SATA provides six ports and RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5[2]	Enhanced SATA provides six ports and RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5[2]	Six channels supporting up to six SATA devices (3Gbps) with support for RAID 0, 1, and 10
SAS	4-port SAS Via Integrated Controller on Motherboard supporting RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5[2]	Not available	Not available	Not available
Integrated LAN	2 x Intel Gigabit Ethernet connections	2 x Intel Gigabit Ethernet connections	2 x Intel Gigabit Ethernet connections	2 x Intel Gigabit Ethernet connections
Integrated Graphics	ATI* ES1000 with 16MB SDRAM memory	ATI* ES1000 with 16MB SDRAM memory	ATI* ES1000 with 16MB SDRAM memory	ATI* ES1000 with 16MB SDRAM memory
Server Management Support	Intel® System Management Software and Intel Remote Management Utilities	Intel® System Management Software and Intel Remote Management Utilities	Intel® System Management Software and Intel Remote Management Utilities	Intel® System Management Software and Intel Remote Management Utilities
Intel® RAID Support	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.	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.	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.	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 S5000VSA please see: support.intel.com/support/motherboards/server/s5000vsa

For more information on how to make the Intel® Server Board S5000VSA part of your server environment, please contact an Intel® Channel Partner Program participant.

[1] Support for 667 may not be available at launch.
[2] Support enabled by installing the AXXRAKSW5 may not be available at launch.
[3] Requires OS and driver support.
[4] Refer to http://support.intel.com/support/motherboards/server for up-to-date details on processors supported by each server board.
[5] 1333 MHz support may require updates that may not be available at launch.

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