



Product Brief

Intel® Workstation Board
S5000XVN

Intel® Workstation Board S5000XVN

High Performance Board Delivers the Power of Multi-Core, Dual-Sockets to the Demanding Workstation Environment



Product Overview

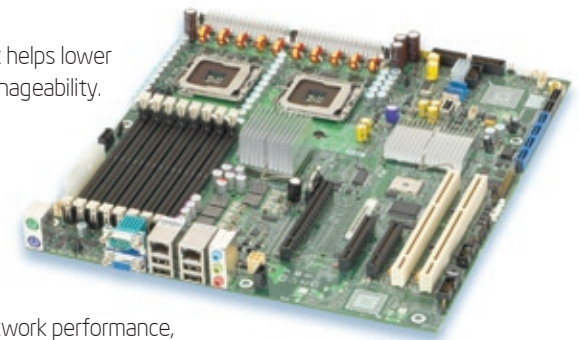
The Intel® Workstation Board S5000XVN provides incredible performance and memory capacity for demanding workstation operations. This workstation board is ideal for customers needing server class performance and reliability, in addition to high-end graphics. The S5000XVN is acoustically optimized to minimize distractions in shared environments.

The S5000XVN has a greater number of high performance PCI slots and support for next-generation enterprise class SAS drives and high capacity SATA drives. Increased memory capacity and bandwidth improve headroom for future growth and deliver the performance and flexibility growing businesses need for the future.

The Intel® Server Chassis SC5299WS workstation chassis was designed specifically for this board. This combination offers an ideal solution for workstation applications such as CAD, modeling, electronic design automation, and animation.

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.
- Three PCI Express* slots provide expansion headroom for the future.
- Integrated server management helps lower costs by improving baseline manageability.
- Up to six SATA 3Gb/s ports
- Optional 4-port SAS supports next-generation enterprise class SAS drives or lower cost SATA drives.
- Dual Gb Ethernet increases network performance, with lower processor overhead.¹



Board Specifications

Boards

Intel® Server Chassis Support

Processor Support²

Number of Processors Supported

System Bus Speed

Chipset

Independent PCI Buses

Total Slots

Slot Types

Memory Capacity

Integrated SCSI

Integrated ATA

Integrated Serial ATA

SAS

Integrated LAN

Integrated Audio

Server Management Support

Intel® RAID Support

Intel® Workstation Board S5000XVN (SAS)

Intel® Server Chassis SC5400 Base
Intel® Entry Server Chassis SC5299WS

Multi-core Intel® Xeon® Processor

2

667 MHz, 1066 MHz, or 1333 MHz³

Intel® Chipset 5000X

6

5

1 x PCI Express* x16
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)

Not Available

One channel supporting up to two IDE devices

Two SATA 3Gb/s ports with RAID 0, 1, and 10

4-port SAS with Intel® Embedded RAID Technology II providing RAID 0, 1, 10 and optional AXXRAKSw5 for RAID 5⁴

2 x Intel Gigabit Ethernet connections

2 channel high definition audio

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 5⁴. 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® Workstation Board S5000XVN (SATA)

Intel® Server Chassis SC5400 Base
Intel® Entry Server Chassis SC5299WS

Multi-core Intel® Xeon® Processor

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667 MHz, 1066 MHz, or 1333 MHz³

Intel® Chipset 5000X

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1 x PCI Express* x16
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)

Not Available

One channel supporting up to two IDE devices

Six 3Gb/s SATA ports supporting RAID 0, 1, 10 with optional AXXRAKSw5 for RAID 5⁴

Not available

2 x Intel Gigabit Ethernet connections

2 channel high definition audio

Intel® System Management Software and Intel Remote Management Utilities

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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® Workstation Board S5000XVN please see: support.intel.com/support/motherboards/server/s5000xvn

For more information on how to make the Intel® Workstation Board S5000XVN part of your server environment, please contact an Intel® Channel Partner Program participant.

¹ Requires OS and driver support.

² Refer to <http://support.intel.com/support/motherboards/server> for up-to-date details on processors supported by each server board.

³ 1333 MHz support may require updates that may not be available at launch.

⁴ Support enabled by installing the AXXRAKSw5 may not be available at launch.

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