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

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

Key Features

1. 64-bit Intel® Xeon® Processor 5000 sequence improves performance and headroom, and provides scalability and system redundancy with multiple virtual applications.
2. Eight fully buffered 533/667 MHz DIMMs increase capacity and performance.
3. Three PCI Express* slots provide expansion headroom for the future.
4. Integrated server management helps lower costs by improving baseline manageability.
5. 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.
6. Designed to work with both the Intel® Workstation Chassis SC5299WS and Intel® Server Chassis SC5400BASE

Product Overview	Platform Resources	Related Products
Product Brief	Overview	Intel® Xeon® Processor 5100 Series
Product Photos & Ad Copy	Integration	Intel® Xeon® Processor 5000 Series
Warranty Information	Sales Tools	Intel® Server Chassis SC5400
		Intel® Server Chassis SC5299-E

Specifications

Part Numbers

Part Number	Description
Part Number	S5000XVNSAS, S5000XVNSATA

Physical Specifications

Form Factor	SSI EEB 3.6 (Extended ATX)
Dimensions	12" X 13" (305mm X 330mm)

Processor Information

CPU Socket	LGA771
Supported CPUs	Intel® Xeon® Processor 5000 sequence
Thermal Solutions Supported	Active or passive
System Bus Speed	667 MHz, 1066 MHz, or 1333 MHz

System Memory

Number of DIMM Sockets	8
Total Memory Supported	32GB
Minimum number of DIMMs	1
Number of Memory Channels	Four
Memory Type	ECC FBDIMMs
DIMM Sizes Supported	512MB, 1GB, 2GB, 4GB
Memory Voltage	1.5VDC
Memory Reliability	
Error Detection	Yes*
Memory Sparing	Yes*
Memory Mirroring	Yes*
Hot Swap Memory	No

On-Board Devices

Chipset	Intel® 5000X Server Chipset
SAS (S5000XVNSAS Only)	
Controller	LSI 1068x with Intel® 80333 IOP
Number of Drives	4 direct drives up to 120 with expanders
Number of Ports	4
RAID Support	RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5*
SATA (S5000XVNSATA Only)	
Controller	Intel® 6321ESB I/O Controller
Number of Drives	6
Number of Ports	6
RAID Support	RAID 0, 1, 10 with optional AXXRAKSW5 for RAID 5*
IDE	Yes
Number of IDE Devices Supported	2
IDE Modes Supported	ATAPI
Network Adaptor	Yes
Controller	Intel® 82563EB Network Connection
Speeds	100GB/10GB/1GB
Number of Ports	2
Audio	AC97
Super I/O	National Semiconductor PC87427
Intel Ligth-guided Diagnostics	Yes

Input / Output

External USB Ports	Yes (2 Front, 4 back)
Internal USB Connections	1
USB Standards Supported	USB 2.0
Keyboard / Mouse	Yes
Serial Ports	2

Supported Chassis

Rack		Yes
	1U	Reference Chassis
	2U	Reference Chassis
	Small Depth	Reference Chassis
	Pedestal Conversion	Yes
Pedestal		Yes - Intel® Workstation Chassis SC5299WS and Intel® Server Chassis SC5400BASE
	Rack Conversion	Yes

Expansion Slots

PCI-Express	S5000XVNSATA 1 x PCI Express* x16, 1 x PCI Express* x8, 1 x PCI Express x4 (x8 Connector) S5000XVNSAS 1 x PCI Express* x16, 2 x PCI Express x4 (x8 Connector)
PCI-X	1 x PCI-X 100/133 MHz, 1 x PCI-X 100 MHZ
PCI	None

System BIOS

BIOS Type	Intel® Extensible Framework
BIOS Features	
Rolling BIOS	Yes
SMBIOS	Yes
PnP	Yes
DMI	Yes
PCI	Yes
ACPI	Yes
Other Features	Server Management, EFI Shell, Error Reporting

Management

Supported Standards	IPMI 2.1
Software	Intel® System Management Software 1.0

PC Health Monitoring

CPU	Yes
FAN	Yes
Intrusion Detection	Yes

* Not supported until after SRA

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Components

Parts List

Description	Part Number	Qty	Description
Motherboard	D37261-720	1	One Intel® Workstation Board S5000XVNSATA
	D25028-720	1	One Intel® Workstation Board S5000XVNSAS
Quick Start User Guide	D36221-002	1	Quick Start User Guide
Intel® Server Essentials Kit	D43091-003	2 CD Kit	Intel® Server Essentials Kit Includes: Intel® Server Deployment Toolkit 2.0 and Intel® System Management Software 1.0
Cable Kit	D35906-003	1	Six SATA cables (two 34-inch cables and four 24-inch cables), one IDE data cable, and one serial cable
I/O Shield	D37168-001	1	SSI EEB 3.6 Compliant I/O Shield
Attention Document	D36221-002	1	Attention Document
Label sheet	D36219-002	1	One server board configuration label, two I/O shield labels, and one serial port B label
Bumper Kit	D42695-001	1	Two bumpers (for use in non-Intel chassis only)
Four pin adapter cable	D25027-001	1	Converter cable to connect hard drive power connectors to the 2x2 pin S5000PSL and S5000XVN connectors

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