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Intel® Server Board S5000XVN

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High Performance Board Delivers the Power of Multi-Cores, 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 specifically 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

- 64-bit Intel® Xeon® Processor S000 sequence improves performance and headroom, and provides scalability and system redundancy with multiple virtual applications.
- Eight fully buffered 13.36G7 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.
- Dual Gb Ethernet with Intel® I/O Acceleration Technology (Intel® IOAT) improves application and network responsiveness by moving data to and from server applications faster.
- Designed to work with both the Intel® Workstation Chassis SC5299WS and Intel® Server Chassis SC5400BASE

Product Overview	Platform Resources	Related Products
Product Brief Product Photos & Ad Copy Warranty Information	Overview Integration Sales Tools	Intel® Xeon® Processor S100 Series Intel® Xeon® Processor S000 Series Intel® Server Chassis SC5400 Intel® Server Chassis SC5299-E

Specifications	
Part Numbers	
Part Number	Description
Part Number	S5000VNSAS, S5000VNSATA
Physical Specifications	
Form Factor	SSI EEB 3.6 (Extended ATX)
Dimensions	12" X 13" (305mm X 330mm)
Processor Information	
CPU Socket	LGA775
Supported CPUs	Intel® Xeon® Processor S000 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 FBDDIMMs
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® S000X Server Chipset
SAS (S5000VNSAS Only)	
Controller	LSI 1068x with Intel® 80333 IOP
Number of Drives	4 direct drives with up to 120 with expanders
Number of Ports	4
RAID Support	RAID 0, 1, 10 with optional AX18AKSWS for RAID 5*
SATA (S5000VNSATA Only)	
Controller	Intel® 6321ESB I/O Controller
Number of Drives	6
Number of Ports	6
RAID Support	RAID 0, 1, 10 with optional AX18AKSWS for RAID 5*
IDE	
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 Light-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	S5000VNSATA 1 x PCI Express* x16, 1 x PCI Express* x8, 1 x PCI Express* x4 (x8 Connector) S5000VNSAS 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
PIIP	Yes
CMR	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	
Description	Part Number	Qty	Description
Motherboard	D37261-720	1	One Intel® Workstation Board S5000VNSATA
	D35028-720	1	One Intel® Workstation Board S5000VNSAS
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	D39506-003	1	Six SATA cables (two 34-inch cables and four 24-inch cables), one IDE SATA 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	D42895-001	1	Two bumpers (for use in non-Intel chassis only)
Four pin adapter cable	D35027-001	1	Converter cable to connect hard drive power connectors to the 2x2 pin S5000P/S and S5000XVN connectors

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