

Intel® Server Board S3000AH

[Specifications](#) | [Parts List](#)

Growing businesses need a trusted server solution for database, file, or messaging applications. A general-purpose entry server platform plays a fundamental role in the success of a workgroup, department, or small-to medium-sized business.



The Intel® Server Board S3000AH family is ideal for customers needing server-class performance, without sacrificing cost-effectiveness or reliability. Boards in this family include the Intel® Entry Server Board S3000AH, the Intel® Server Board S3000AHLX and the Intel® Server Board S3000AHV.

Based on the Intel® 3000 server chipset, this family of sever boards supports the Multi-Core Intel® Xeon® Processor with a 1066 MHz system bus and the Intel® 3000 server chipset, which are essential for powering entry-level server solutions. Other performance advantages include support for up to 8 GB DDR2 SDRAM and the next-generation PCI Express* I/O interconnect technology.

Key Features

1. Multi-Core Intel® Xeon® Processor based on Intel® Core™ microarchitecture delivers world-class performance, as well as superior energy/power efficiency.
2. Intel® 3000 server chipset provides enterprise performance and reliability.
3. Dual memory-channel, four DIMM slots for DDR2 533/667 MHz unbuffered ECC/non-ECC (8 GB Max) utomatically corrects single-bit errors, which may improve system uptime.
4. Dual Gigabit Ethernet connections provide ample network bandwidth with options for separate subnets and redundant links. (note: Dual Gigabit Ethernet connections are only available on the S3000AH and S3000AHLX)

Specifications

Product Order Code	
S3000AH	Support Multi-Core Intel® Xeon® Processor, PCI-Express* x 8 connector, dual Intel® PRO/1000 Network Interface Connectors, four Serial ATA ports (3.0Gb/s) with RAID 0, 1 and 10.
S3000AHLX	Support Multi-Core Intel® Xeon® Processor, PCI-Express* x 8 and PCI-X adaptive slot, dual Intel® PRO/1000 Network Interface Connectors with Intel® Active Management Technology, four Serial ATA ports (3.0Gb/s) with RAID 0, 1 and 10.
S3000AHV	Support Multi-Core Intel® Xeon® Processor, PCI-Express* x 8 connector, single Intel® PRO/1000 Network Interface Connector, four Serial ATA ports (3.0Gb/s) with RAID 0, 1 and 10.
Physical Specifications	
Form Factor	ATX
Dimensions	12" x 9.6" (305 mm x 244 mm)
Processor Information	
CPU Socket	LGA775
Supported CPUs	One Multi-Core Intel® Xeon® Processor, Intel® Pentium® D, Intel® Pentium® Processor Extreme Edition, Intel® Pentium® 4 or Intel® Celeron® D Processor
Thermal Solutions Supported	Passive or Active Heatsink
System Bus Speed	800MHz/1066MHz

System Memory	
Number of DIMM Sockets	4
Total Memory Supported	8GB
Minimum number of DIMMs	1
Dual Channel Support	Yes
Memory Voltage	1.8V
Memory Reliability	
Error Detection	Yes
Memory Sparing	No
Memory Mirroring	No
Hot Swap Memory	No
On-Board Devices	
Chipset	Intel® 3000 Server Chipset
SATA	Yes
Controller	Intel® ICH7R
Number of Drives	4
Number of Ports	4
RAID Support	RAID 0, 1 and 10
SAS	N/A
Controller	N/A
Number of Drives	N/A
Number of Ports	N/A
RAID Support	N/A
SCSI	N/A
Controller	N/A
RAID Support	
IDE	Yes
Number of IDE Devices Supported	2
IDE Modes Supported	ATA 100
Floppy Controller	SMsC SCH5027 SIO
Network Adaptor	Intel® PRO/1000 Server Network Connection
Controller	One Intel® 82573E/V and one Intel® 82541PI (S3000AH and S3000AHLX Only) Gigabit Ethernet Controllers
Speeds	10/100/1000Base-T, RJ45 connector.
Number of Ports	2 on S3000AH and S3000AHLX, 1 on S3000AHV
Graphics	ATI* ES1000 with 16 MB memory
Super I/O	SMsC SCH5027 SIO
Clock Generator	
LED Diagnostics	Status/system-fault LED; Post-code diagnostic LEDs
Input / Output	
External USB Ports	2
Internal USB Connections	One internal USB header for two additional USB ports
USB Standards Supported	USB 2.0
VGA	1 X VGA port

Keyboard / Mouse	Two PS/2 ports, 8240A-compatible
Serial Ports	One external DB9 serial port
Parallel Port	N/A
Supported Chassis	
Rack	
1U	SR1530UP
2U	N/A
Small Depth	N/A
Pedestal Conversion	N/A
Pedestal	Intel® Server Chassis SC5295UP
Expansion Slots	
PCI-Express	S3000AH 1 x PCI Express* x1; 1 x PCI Express* x4; 1 x PCI Express* x8 S3000AHLX 1 x PCI Express* x1; S3000AHV 1 x PCI Express* x4; 1 x PCI Express* x8
PCI-X (S3000AHLX only)	1 x PCI-X 64bit/133MHz
PCI	2 x PCI 32bit/33MHz
Adaptive (S3000AHLX only)	1 x Intel® Adaptive slot supporting PCI-X 64bit/133MHz and PCI Express* x8
System BIOS	
BIOS Type	16 megabit SPI serial flash with AMI* BIOS, Multiboot BBS (BIOS Boot Specification) 1.4-compliant
BIOS Features	
Rolling BIOS	No
SMBIOS	SMBIOS 2.4
PnP	No
IPMI	No
DMI	Yes
PCI	PCI; PCI Express
ACPI	ACPI 2.0
Other Features	
Management	
Supported Standards	DMI, SNMP
Software	Intel® System Manament Software 1.5
Hardware Module Support	N/A
Power Configurations	ACPI Power Management
Health Monitoring	
CPU	Yes
FAN	Yes
Temperature	Yes
Intrusion Detection	Yes

Parts List

Description	Part Number	Qty	Description
Motherboard	S3000AH	1	Intel® Server Board S3000AH without CPU
	S3000AHLX	1	Intel® Server Board S3000AHLX without CPU
	S3000AHV	1	Intel® Server Board S3000AHV without CPU
Quick Start User Guide	D56210-002	1	Printed Quick start user guide
ISMS & resource CD kit	D49016-003	1	Intel® Server Management Software CD and Deployment Toolkit CD
Application CD kit	D52701-001	1	value-added application software CD
FDD cable	A49275-002	1	
SATA cable	C31751-001	2	
IDE cable	A49271-002	1	
I/O Shield & Gasket	C78234-002	1	SSI EEB 3.5- compliant I/O shield & ATX Gasket
Config Label	D56211-002	1	