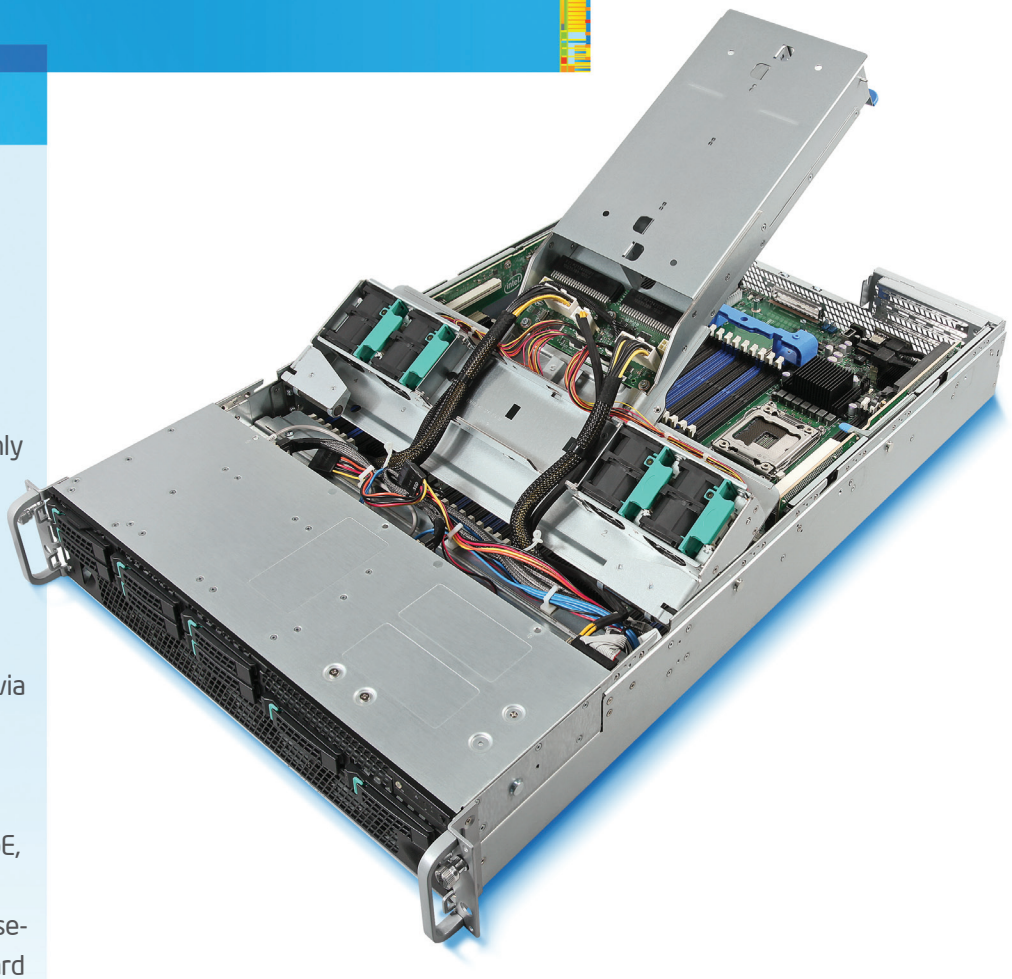
Intel® Server Board S4600LH Product Family

Best in class performance, reliability and serviceability for HPC and Datacenter applications

Supports the Intel® Xeon®processor E5-4600v2 product family

The innovative Intel® Server System R2000LH2/LT2 family delivers best in class serviceability features with uncompromising performance and high reliability as the server of choice for highly virtualized environments or demanding HPC applications requiring maximum performance density. It features support for four powerful Intel® Xeon® processors E5-4600 and a massive memory capacity of up to 1.5 terabytes via 48 memory sockets in a dense 2U rack system. Integrated dual 1GbE or 10GbE ports, six PCIe* Gen 3 x16 slots, plus two expansion slots for quad 1GbE, dual 10GbE, or Infiniband* modules provide the expandability and flexibility that enterprise-class customers expect. Over 150 onboard sensors feed the intelligent system-level management software with temperature, voltage, and other information to ensure maximum uptime and allow you to monitor overall system health and resources.





Supports

- Quad Intel® Xeon® processors E5-4600v2
- Up to 2 Intel® Xeon Phi™ coprocessors
- Maximum memory capacity with 48 LR/U/R-DIMMS for up to 1.5 TB of total capacity
- 6 PCIe* Gen3 x16 slots including 2 double-wide PCIe Gen3 cards
- 2 Intel® I/O Expansion Modules
- Integrated dual 1GbE or 10GbE Intel® Ethernet Controllers
- TXT Technology (TPM header on board)
- Intel® Remote Management Module 4 included with all systems
- Enterprise class cooling with 11 hot-swappable redundant 40mm dual rotor fans
- Efficient hot-pluggable 1600W redundant 80+ Platinum AC power supplies

Maximum Memory and Performance

4 Intel® Xeon® processors E5-4600 with 48 DIMMs support up to 1.5 TB of addressable memory on 16 channels

Enterprise Class Features

Best in class serviceability with custom designed chassis

Platinum efficiency power supplies

High RAS features

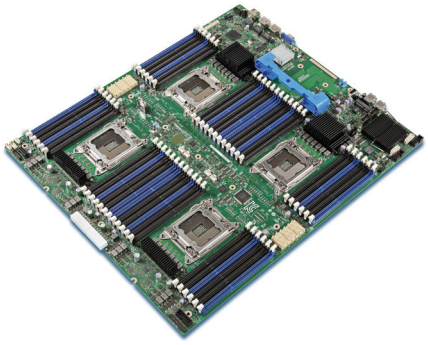
10 GbE SKU option

For more information on Intel server solutions visit: intelserveredge.com

For more information on Intel server products visit: intel.com/go/serverproducts

For product specifications visit: ark.intel.com

For regulatory information visit: intel.com/support/motherboards/server/sb/CS-032524.htm



Intel® Server Board S4600LH Product Family Technical Specifications

Form Factor	2U rack: 3.43" x 17.24" x 28"
Server Board Included	S4600LH2: Integrated Dual Port Intel® Ethernet Controller I350 (1 GbE) S4600LT2: Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)
Processors Supported	4 Intel® Xeon® processor E5 4600 or E5 4600v2 product family, up to 130W Up to 2 Intel® Xeon Phi™ coprocessors[1]
Total Slots	6 + 2
Slot Types	6 PCI Express* 3.0 x16 2 PCI Express 3.0 x8 via I/O expansion module
Memory Capacity	48 LR / U / DIMMs with up to 1866MT/s, ECC 1.5 TB max
Drive Options	8 x 2.5" or 4 x 3.5" hot-swap HDDs
System Cooling	11 high speed hot-swap redundant 40mm dual rotor fans
Power Supply Options	1600W AC Redundant PSU (Platinum Efficiency)
Module Upgrades	Intel® I/O Module Intel® Storage I/O Module in PCIe form factor Intel® Remote Management Module 4 (included on all systems) TPM Module

2U 2.5" Drives	2U 3.5" Drives
R2208LT2HKC4 8 x 2.5" hot-swap HDD 2 x 1600W AC PSU Hardware RAID Controller RMS25PB080 provides 6 Gb/s to enable 8 SAS/SATA drives Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)	**R2304LH2HKC** 4 x 3.5" fixed HDD 2 x 1600W AC PSU Integrated Dual Port Intel® Ethernet Controller I350 (1 GbE)

[1] Intel® Xeon Phi™ coprocessor support depends on the board and chassis configuration. See your sales representative for more details

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS OTHERWISE AGREED IN WRITING BY INTEL, THE INTEL PRODUCTS ARE NOT DESIGNED NOR INTENDED FOR ANY APPLICATION IN WHICH THE FAILURE OF THE INTEL PRODUCT COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request. Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Intel, the Intel logo, Intel Inside, Intel Xeon Phi, Xeon and Xeon Inside are trademarks of Intel Corporation in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.

Copyright © 2013 Intel Corporation. All rights reserved.

327588-004US

1213/GMcK/MANDISH/PDF