

Product Brief

Intel® Workstation Board WX58BP

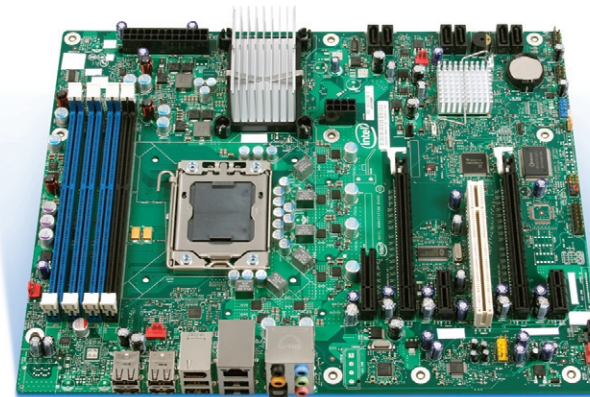
Intel® Workstation Board WX58BP

An entry level workstation board with Intel® Xeon® Processor 3600 series and ECC* memory support

Key Features

- Supports Intel® Xeon® Processor 3600 series on Intel® Microarchitecture
- Highly scalable DDR3 ECC memory (4 DIMMs)
- Expandable 2 x PCIe 2.0 x 16 slot to support ATI* CrossFire* Technology
- Dolby* Home Theater with Intel® High Definition Audio¹
- High-Speed IEEE 1394a port

Target Applications: *Ideal for engineering, scientific, financial, and digital content creation applications*






Features and Benefits

- **Supports Intel® Xeon® Processor 3500 or 3600 series on Intel® Microarchitecture, codenamed Nehalem** Delivers world-class performance as well as superior energy and power efficiency
- **Intel® X58 Express Chipset** Features Intel® QuickPath Interconnect (Intel® QPI) to the processor for 25.6 GB/s maximum peak bandwidth at 6.4 GT/s
- **Fast and energy-efficient DDR3 ECC memory** Four ECC DIMMs at up to 1333 MHz provide a more robust operating environment and faster system response
- **Expandable 2 x PCIe 2.0 x 16 slot to support ATI* CrossFire* Technology** Improved graphics bandwidth and support for Certified dual-card ATI* CrossFire*
- **Intel® ICH10R with Intel® Matrix Storage Technology** Performance and reliability with support for RAID 0, 1, 5, 10, and new Intel® Rapid Recover Technology
- **Dolby* Home Theater with 8-Channel Intel® High Definition Audio (7.1)** Enables high-quality integrated audio that rivals the performance of high-end discrete solutions. New Dolby* Control Center software provides an easy-to-use home theater configuration tool for a rich home theater surround sound experience¹
- **IEEE 1394a port** A high-performance IEEE 1394a serial bus provides sustained high-throughput connectivity and control for external storage, cameras and other high-definition audio-visual devices
- **Intel® Ethernet Gigabit LAN** Features onboard 10/100/1000 MB/s Ethernet LAN connectivity
- **Intel® Enabled Server Acceleration Alliance (Intel® ESAA) Certified** Pre-tested and certified configuration guides ("recipes") over a range of applications

Regulatory Compliance

This server has gained the following regulatory compliance to enable final system integration compliance. The final integrated system requires being evaluated for system level regulatory compliance.

Region Compliance	Board Markings
Canada/USA	
China (RoHS)	
Europe (EU Directives) - LVD & RoHS; CE mark applies to LVD	
International Compliance (CB Report)	n/a

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Intel® Workstation Board WX58BP Technical Specifications

Form Factor	ATX (9.6" x 11.6")
Processors	Supports one Intel® Xeon® Processor 3500 or 3600 series ²
Chipset	Intel® X58 Express chipset with Intel® ICH10R
Intel® Quick Path Technology	4.8GT/s, 5.86GT/s and 6.4GT/s
Memory Capacity	Four DDR3 DIMM sockets (Unbuffered ECC or non-ECC) <ul style="list-style-type: none"> • Three channel native (800/1066/1333MHz)
Storage	Six SATA ports (3 Gbps) via ICH10R with Intel® Matrix Storage Technology
Expansion Slots	2 PCI Express* 2.0 x16 slot 1 PCI Express 2.0 x4 slot 2 PCI Express 1.0 x1 slot 1 PCI 32/33 slot
Integrated LAN	Intel® 82567LM Gigabit Ethernet Controller
Audio	Dolby* Home Theater with Intel® High Definition Audio
IEEE 1394a ports	2

To build your system and get more details on server configurations from Intel visit: www.intel.com/go/serverconfigurator

For more information on Intel® Server Products, visit: www.intel.com/go/serverproducts



¹ Intel® High Definition Audio requires a system with an appropriate Intel chipset and a motherboard with an appropriate codec and the necessary drivers installed. System sound quality will vary depending on actual implementation, controller, codec, drivers and speakers. For more information about Intel® HD audio, refer to <http://www.intel.com/>

² For boards and systems currently supporting the Intel Xeon 3500 series, a BIOS update is required before installing the 3600 series processor. Refer to <http://support.intel.com> for more information.

