



Intel® E7501 Scalable Performance Board Development Kit

Product Overview

Flexible and scalable, the dual-processor Intel® E7501 Scalable Performance Board Development Kit is an excellent choice for developers of high-end enterprise communications and storage applications. It can be populated with either the Low Voltage Intel® Xeon™ processor at 1.6 GHz or the Intel Xeon processor with 512 KB L2 cache at 2.4 GHz. This and other development kits from Intel provide a fully working product with a range of performance options, which can be modified or used immediately for product development. These development kits also provide a validated board platform for software vendors to test BIOS and operating system software.



Board Peripheral Features

- Super I/O for legacy peripheral support
- Two USB 1.1 ports
- Gigabit Ethernet
- Dual U320 SCSI

User-Accessible On-Board Connectors

- Serial RS-232 port (COM1)
- PS/2 keyboard and PS/2 mouse (6-pin mini-DIN)
- WTX power supply connector
- Six standard PCI-X expansion slots (5 hot-plug compatible)
- 32-bit PCI debug connector
- Two USB connectors
- Eight DDR DIMM connectors
- Two SCSI 320 connectors

Development Support

- Schematics
- Technical documentation
- Bill of materials
- Demonstration software

Product Highlights

Evaluation Board

- Scalable performance, supporting processors in a socket 604 package with processor side bus (PSB) speed of 133 MHz quad pumped (533 mega-transfers/second)
- Populated with an Intel Xeon processor with 512 KB cache at 2.4 GHz.
- Low Voltage Intel Xeon processor at 1.6 GHz included in the kit
- Populated with 256 MB DDR, expandable to 8 GB DDR
- Support for two IDE ATA 100 drives; backward compatible with legacy drives

Included Hardware

- Hard disk drive pre-loaded with image of QNX*
- Processor and MCH thermal solution attached
- WTX power supply

Intel in
Communications



Product Description

The Intel® E7501 Scalable Performance Board Development Kit is a physical kit consisting of an evaluation board, power supply, two processor options, technical documentation and demonstration software for applied computing applications. The development kit supports Intel Xeon processors (0.13µ) in a socket 604 package with a processor side bus speed of 133 MHz quad pumped (533 mega-transfers/second). With this development kit, developers can design a single board, populated with the Intel Xeon processors with 512 KB L2 cache or Low Voltage Intel Xeon processors, providing a wide range of price and performance options.

Use of development kits can reduce the design and validation efforts needed for multiple designs, lower the total cost-of-ownership by reducing warehouse inventory and manufacturing costs, and facilitate faster time-to-market.

BIOS Options

(Please refer to User's Guide for validated software at time of product release)

- AMI evaluation BIOS*
- Intel® Applied Computing System Firmware Library (Instructions for ordering included in kit)

Software Overview

In order to provide customers with a complete development environment, Intel works with Independent Software Vendors (ISV) to provide supporting evaluation software for its development kits. The software applications in the kit are demonstration copies provided free of charge by the vendors. The software is licensed for evaluation purposes only. Software in the kit is subject to change without notice. Please refer to the Intel E7501 Scalable Performance Board Development Kit Web page for the latest information at:

developer.intel.com/design/intarch/devkits/273678.htm

Evaluation Software

- QNX
- WindRiver Tornado* II VxWorks*
- Intel® Applied Computing System Firmware Library (Free software to be ordered separately)

Development Kit Ordering Information

Description

EIDX7501DEVKIT

Intel® E7501 Scalable Performance Board Development Kit

Intel Access

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| Developer's Site: | developer.intel.com |
| Embedded Intel® Architecture Home Page: | developer.intel.com/design/intarch |
| Other Intel Support: | Intel Literature Center developer.intel.com/design/litcentr/ (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office. |
| General Information Hotline: | (800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST |

For more information, visit the Intel Web site at: developer.intel.com

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