

# Product Brief

## Development Kit

Embedded Computing



# Dual-Core Intel® Xeon® Processor LV with Intel® E7520 Chipset Development Kit

## Product Overview

The Dual-Core Intel® Xeon® processor LV with Intel® E7520 chipset development kit provides an excellent choice for developers of low-power communications and embedded applications such as storage area networks, routers, virtual private networks, and telecommunications servers. It is populated with two Dual-Core Intel® Xeon® processors LV 2.0 GHz<sup>1</sup> with 667 MHz front-side bus (FSB), providing bandwidth up to 5.3 GB/s. The Intel® E7520 Memory Controller Hub (MCH) includes PCI Express\* serial I/O technology and DDR2 memory technology to help increase I/O bandwidth and reduce system latency for data-intensive applications.

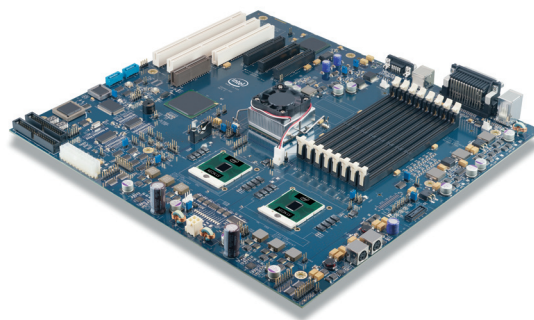
A member of Intel's growing product line of multi-core processors, the Dual-Core Intel Xeon processor LV 2.0 GHz<sup>1</sup> incorporates the benefits of two high-performance execution cores with intelligent power management features to deliver significantly greater performance-per-watt over previous single-core Intel Xeon processor-based platforms. Designed on 65nm process technology, these processors integrate two cores, along with many advanced features, into one physical package. This combination of dual-core processing and dual-processor capabilities provides up to four high-performance cores per platform.

This and other development kits from Intel provide a fully working system with a range of performance options that can be modified or used immediately for product development. A validated board platform lets software vendors test BIOS and operating system software.

## Product Highlights

### Evaluation Board

- Two Dual-Core Intel Xeon processors LV 2.0 GHz<sup>1</sup> with 667 MHz FSB support development of dual-processor platforms
- Intel E7520 MCH and Intel® 6300ESB I/O Controller Hub (ICH)
- Dual-Channel DDR2-400 memory expandable to 16 GB



- Supports three PCI Express x8 slots
- Integrated dual-stage watchdog timer
- Port 80 seven-segment LEDs

### Board Peripheral Features

- One PCI 2.2 32/33 MHz slot
- Two PCI-X 66 MHz slots
- One IDE connector
- Two SATA connectors
- Two serial ports
- Four USB 2.0 ports
- Super I/O via LPC bus from the Intel 6300ESB ICH
- One floppy port
- One parallel port
- One serial port
- PS/2 port keyboard and mouse
- ITP-XDP debug port

## Product Highlights (continued)

### Included in the Kit

- Development board
- Two Dual-Core Intel Xeon processors LV 2.0 GHz<sup>1</sup>
- Two CPU heat sinks
- Two DDR2-400 DIMM 512 MB memory sticks
- Graphics card (Sapphire PCI using ATI Radeon\* 7000 device with 64 MB memory)
- Drivers CD
- One ATX 12V 450W power supply
- Pre-installed jumpers
- SATA hard drive, unformatted
- Cable set
- Firmware hub, socketed and flashed with the BIOS

### Software Overview

In order to provide customers with a complete development environment, Intel works to help enable the development kit platform to support customer applications and operating systems. Any software/firmware provided in the kit is subject to change without notice. For the most recent updates, please refer to the Web site for embedded Intel® architecture development kits at [developer.intel.com/design/intarch/devkits/index.htm](http://developer.intel.com/design/intarch/devkits/index.htm).

### Ordering Information

IPDXE7520ALDVKT

## Intel Access

Embedded Intel® Architecture Home Page: [intel.com/design/intarch](http://intel.com/design/intarch)

Developer's Site: [intel.com/design](http://intel.com/design)

Intel in Embedded and Communications: [intel.com/go/embedded](http://intel.com/go/embedded)

General Information Hotline: (800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

Intel® Literature Center: (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada)

International locations please contact your local sales office.

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<sup>1</sup>The following SKUs are also supported and can be ordered separately: Dual-Core Intel® Xeon® processor LV 1.66 GHz, Dual-Core Intel® Xeon® processor ULV 1.66 GHz, Intel® Celeron® processor 1.83 GHz and Intel® Celeron® processor 1.66 GHz. Please contact your Intel Sales Representative for more information.

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