



# Intel<sup>®</sup> Core<sup>™</sup>2 Duo Processor and Intel<sup>®</sup> Core<sup>™</sup> Duo Processor with Intel<sup>®</sup> E7520 Chipset Development Kit

## **Product Overview**

The Intel® Core™2 Duo Processor and Intel® Core™ Duo Processor 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 the Intel® Core™2 Duo Processor 2.16 GHz 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.

The Intel Core 2 Duo processor 2.16 GHz and Intel Core Duo processor 2.0 GHz 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® processors. Designed on 65nm process technology, these processors integrate two cores, along with many advanced features, into one physical package. This development kit provides a fully working system for product development with a validated board platform for software vendors to test BIOS and operating system software.

#### **Evaluation Board**

- Intel Core 2 Duo processor 2.16 GHz with 667 MHz FSB
- Intel E7520 MCH and Intel<sup>®</sup> 6300ESB I/O Controller Hub (ICH)
- Intel® 6700PXH 64-bit PCI Hub
- Intel® 82571EB Gigabit Ethernet Controller
- DDR2-400 memory expandable to 16 GB (Intel Core 2 Duo processor)
- DDR2-400 memory expandable to 4 GB (Intel Core Duo processor)
- One PCI Express x8 slot; one PCI Express x4 slot



- Integrated dual-stage watchdog timer
- Port 80 seven-segment LEDs
- ATI Rage Mobility-M\* device with 4 MB memory

#### **Board Peripheral Features**

- One PCI 2.2 32/33 MHz slot
- One PCI-X 133 MHz slot
- Two PCI-X 100 MHz slots
- Two PCI-X 66 MHz slots
- Two IDE connectors
- 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 PS/2 port keyboard and mouse
- ITP-XDP debug port

### Included in the Kit

- Development board
- Intel Core 2 Duo processor 2.16 GHz, installed
- Intel Core Duo processor 2.0 GHz, supplied
- CPU heat sink
- Two DDR2-400 DIMM 512 MB memory sticks
- Drivers CD
- Pre-installed jumpers
- IDE hard drive, unformatted
- IDE cable
- Firmware hub, socketed and flashed with the BIOS

# Software Overview

In order to provide customers with a complete development environment in the development kit, Intel works to help enable the 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<sup>®</sup> architecture development kits at developer.intel.com/design/intarch/devkits/index.htm.

#### **Ordering Information**

IPDCDP7520YMDVK

#### **Intel Access**

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