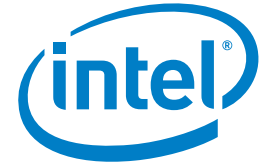


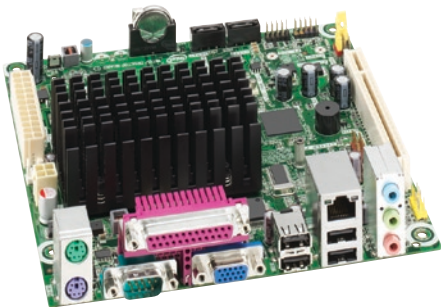
PRODUCT BRIEF

Intel® Desktop Board D425KT
Innovation Series



Mini-ITX / MicroATX-compatible

Intel® Desktop Board D425KT Innovation Series



The Intel® Desktop Board D425KT Innovation Series optimizes the performance of the Intel® Atom™ processor D425 while delivering access to new-generation technologies, value-added features, and easy integration. Entry-level desktop PCs represent a fundamental shift in system design—small, yet powerful enough to enable a big Internet experience for all users.

The revolutionary two-chip layout enables lower power consumption and improved graphics performance for a better user experience. With this two-chip solution, the Intel Desktop Board D425KT saves 70 percent of its board layout size by adding additional features, enabling easier routing and better heat flow with the passive thermal solution.

The Intel Desktop Board D425KT, built with the Intel® NM10 Express Chipset, features the new integrated 1.8 GHz Intel Atom

processor D425, and Intel® Graphics Media Accelerator 3150—an improved graphics core, compared with the previous-generation entry-level desktop PC. This board provides additional flexibility and upgradability for the entry-level desktop PC usage model with two single-channel SODIMM connectors for DDR3 1066 / 800 MHz memory support (4 GB¹ max), delivering even greater performance and power efficiency.

Supporting a USB Solid-State Drive keep-out-zone design, the Intel Desktop Board D425KT is ideal for the diskless usage model by integrating with a standard USB connector.

The Intel Desktop Board D425KT provides enhanced features such as 10/100 Mb/s integrated LAN, integrated 2+2-channel

Intel® High Definition Audio², and legacy features support with serial and parallel ports for emerging market needs.

The Intel Desktop Board D425KT also features the mini-ITX form factor. Backward-compatible with ATX and microATX, this form factor allows you to build green and energy-efficient solutions.

This board powers simple, affordable, and Internet-centric computer designs in a compact 170mm x 170mm size, allowing designers the ultimate in small chassis flexibility.

At an affordable price point, the Intel Desktop Board D425KT is not only suitable to serve as an entry-level desktop PC, but is ideal for innovative system usage models such as kiosks, call centers, home surveillance solutions, and entry-level home entertainment systems.



Intel® Desktop Board D425KT Innovation Series

The boxed Intel® Desktop Board D425KT solution includes:

- ATX 2.2 compliant I/O shield
- SATA cables
- Board and back panel I/O layout stickers
- Quick reference guide
- Intel® Express Installer driver and software DVD
- Microsoft* Windows* 7 and Windows Vista* Basic WHQL certified

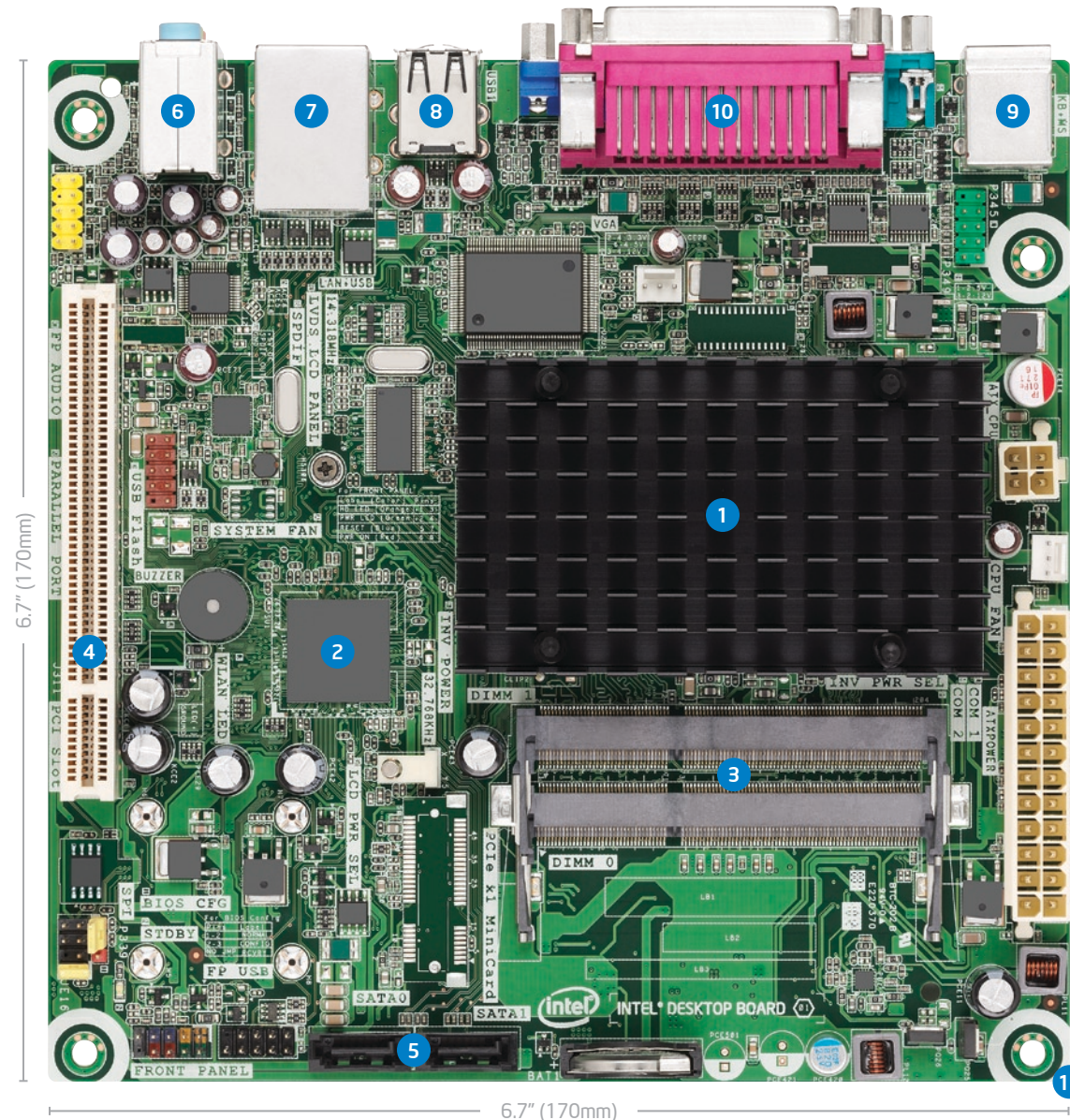
The takeaway software included with the Intel® Desktop Board D425KT works best for your everyday computing.

CAPABILITY	SOFTWARE INCLUDED:
Productivity	▪ Intel AppUpSM ▪ Intel® Integrator Assistant (Internet Download) ▪ Laplink* PCmover* Express
Entertainment	▪ DivX* for Windows*
Antivirus	▪ ESET Smart Security*

Intel® Desktop Board D425KT Innovation Series

Features and Benefits

- 1 **Integrated with the new single-core Intel® Atom™ processor D425:** Features an integrated graphics core (Intel® GMA 3150) with graphics performance improvements.
- 2 **Intel® NM10 Express Chipset:** Designed to support the new Intel® Atom™ processor.
- 3 **Single-channel DDR3 with two connectors for 1066 / 800 MHz memory support (4 GB¹ max)**
- 4 **One PCI connector:** Expansion connector for custom system configurations and future add-in card upgrades.
- 5 **Two SATA ports (3.0 Gb/s)**
- 6 **Four-channel Intel® High Definition Audio²:** Integrated audio stereo at an excellent value.
- 7 **Integrated 10/100 Mb/s Network Connection**
- 8 **Eight Hi-Speed USB 2.0 ports:** Four back panel ports and four additional ports via internal headers.
- 9 **Two PS/2 ports:** Support keyboard and mouse.
- 10 **Parallel and serial ports:** Provides legacy device compatibility.
- 11 **Mini-ITX / microATX-compatible form factor**



Intel® Desktop Board D425KT Innovation Series

Technical Specifications

For ordering information, visit www.intel.com

For the most current product information, visit
<http://developer.intel.com/products/desktop/motherboard/>

PROCESSOR

Processor Support

- Intel® Atom™ processor D425 (single-core / 1.8 GHz / 512 KB x 2 L2 cache)

CHIPSET

- Intel® NM10 Express Chipset

Graphics

- Intel® Graphics Media Accelerator 3150

I/O Controller

- Two SATA ports (fully shrouded)
- Two PS/2 ports
- One serial header
- One serial port
- One parallel port

USB 2.0

- Four external ports
- Four ports via headers

Audio Solution

- 2+2-channel Intel® High Definition Audio² (with multi-streaming)
- Front-panel mic / headphone header

10/100 Network Connection

- Realtek® 10/100 Mb/s Ethernet Controller

System BIOS

- 8 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play, IDE drive auto-configure
- Advanced configuration and power interface V2.0b, DMI 2.0, multilingual support
- Serial Peripheral Interface (SPI) Flash

Intel® Rapid BIOS Boot

- Optimized POST for fast access to PC from power-on

SYSTEM MEMORY

Memory Capacity

- Single-channel DDR3 with two connectors for 1066 / 800 MHz memory support (4 GB max¹)

Memory Types

- DDR3 1066 / 800 SDRAM memory support
- Non-ECC Memory

Memory Voltage

- 1.8 V

Wake-up from Network

- Wired for Management (WfM) 2.0 compatible
- Support for system wake-up using an add-in network interface card with remote wake-up capability

Expansion Capabilities

- One PCI connector

JUMPERS AND FRONT-PANEL CONNECTORS

Jumpers

- Jumper: yellow
- Header: black

Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off, aux LED
- USB 2.0 headers
- Audio header

MECHANICAL

Board Style

- Mini-ITX / microATX-compatible

Board Size

- 6.7" x 6.7" (170mm x 170mm)

Baseboard Power Requirements

- ATX12V or SFX12V

ENVIRONMENT

Operating Temperature

- 0°C to +50°C

Storage Temperature

- 20°C to +70°C

REGULATIONS AND SAFETY STANDARDS

United States and Canada

- UL 60950-1

Canada

- CAN / CSA-C22.2 No. 60950-1

Europe

- (Low Voltage Directive 2006/95/EC)
- EN 60950-1

International

- IEC 60950-1

EMC Regulations (Class B)

United States

- FCC CFR Title 47, Chapter I, Part 15, Subparts A / B

Canada

- ICES-003

Europe

- (EMC Directive 2004/108/EC)
- EN 55022 and EN 55024

Australia/New Zealand

- EN 55022

Japan

- VCCI V-3, V-4

South Korea

- KN-22 and KN-24

Taiwan

- CNS 13438

International

- CISPR 22

Environmental Compliance

Europe

- Europe RoHS (Directive 2002/95/EC)

China

- China RoHS (MII Order # 39)

¹ System resources and hardware (such as PCI and PCI Express*) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operating system and applications, depending on the system configuration and operating system.

² 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 www.intel.com/design/chipsets/hdaudio.htm

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Actual Intel® Desktop Board may differ from the image shown.

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