

MicroATX Form Factor

Intel® Desktop Board DB43LD Executive Series

For the Intel® Core™2 Quad and Intel® Core™2 Duo Processors

The best business solutions combine great hardware and software that help businesses achieve maximum productivity at lower costs. The Intel® Desktop Board DB43LD brings all of these things in an easy-to-integrate and energy-efficient package.

Intel® Desktop Board DB43LD

- Supports the latest 45nm Intel® Core™2 Quad and Intel® Core™2 Duo processors
- Features the Intel® B43 Express Chipset
- Windows Vista* Premium capable

The Intel® Desktop Board DB43LD is upgrade-ready in select geographies. Please visit www.intel.com/go/upgradesreseller for more information about Intel® Upgrade Service availability¹ including which geographies are part of the service.

Energy-efficient performance

Run applications with amazing responsiveness while reducing energy use and system noise. Pair the new 45nm processors and Intel B43 Express Chipset for increased performance in a more energy-efficient platform.

Unique software bundles

The Laplink* PCmover* award-winning bundle allows for easy migration of programs, files, and settings from your old PC to your new PC. Additional software helps increase the productivity and security of your business without impacting your bottom line.

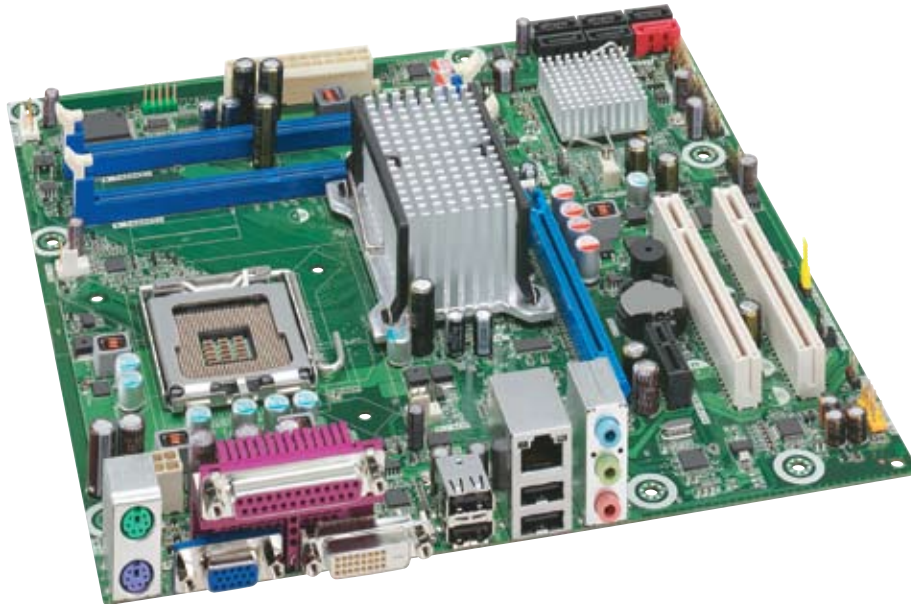
For a complete list of solutions and opportunities, visit:

www.intel.com/go/upgradesreseller

www.intel.com/go/idb



Intel® Desktop Board DB43LD



The boxed Intel® Desktop Board DB43LD solution includes:

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

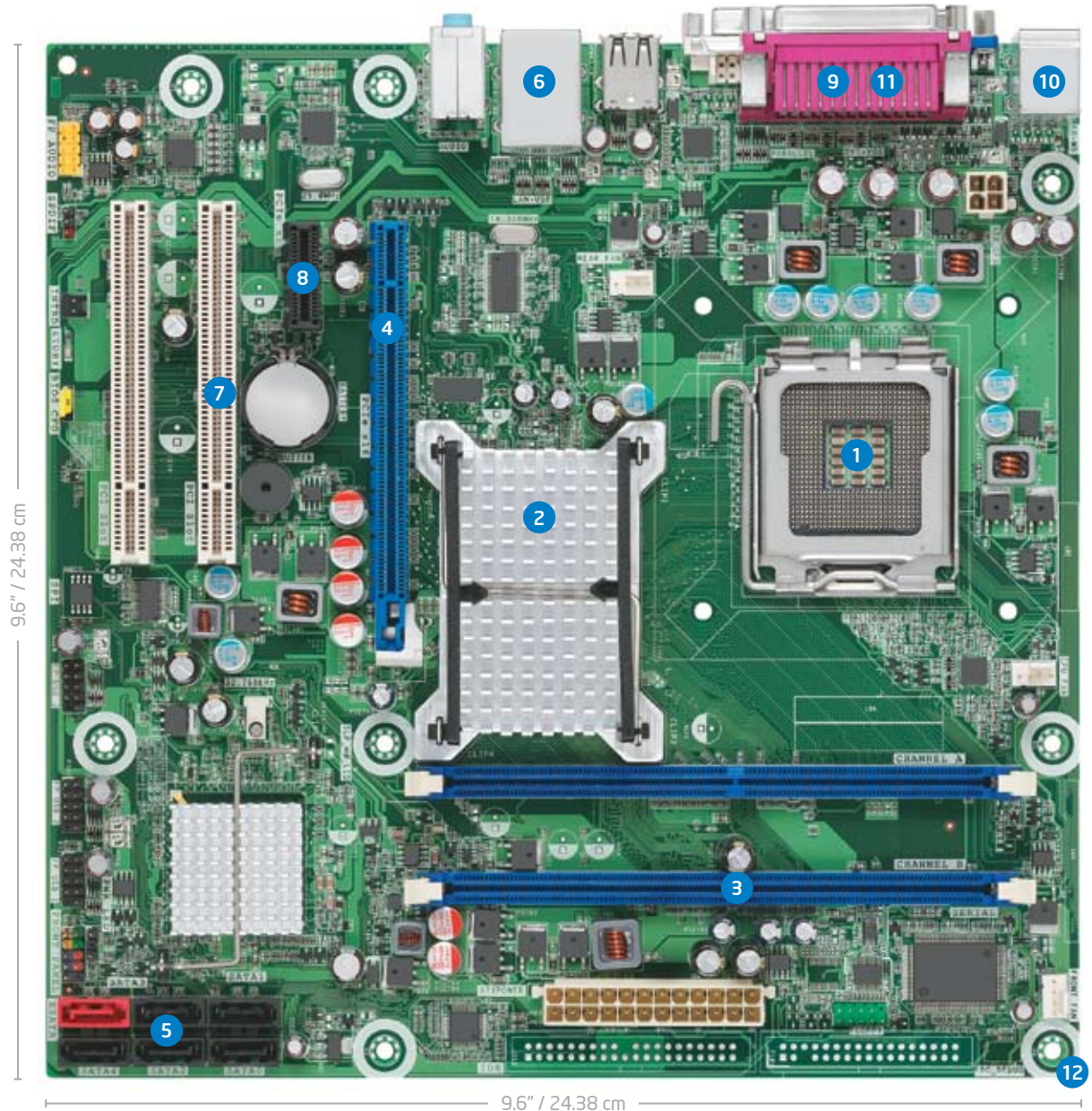
Intel® Desktop Boards Executive Series include an extensive list of software that supports and enhances capabilities for the digital office.

CAPABILITY	SOFTWARE INCLUDED
Utilities	<ul style="list-style-type: none">▪ Intel® Desktop Utilities (Internet Download)
Security	<ul style="list-style-type: none">▪ Norton Internet Security*▪ Kingsoft* Antivirus (Chinese)
Productivity	<ul style="list-style-type: none">▪ Intel® Integrator Assistant (Internet Download)▪ Intel® IT Director (Internet Download)▪ Diskeeper* Home Edition▪ Laplink* PCmover*▪ Kingsoft* Powerword* (Chinese)

Features and Benefits

Intel® Desktop Board DB43LD

- 1 Support for the latest 45nm Intel® Core™2 Quad and Intel® Core™2 Duo processors:** Features quad-core and dual-core processing with 1333 / 1066 / 800 MHz system bus in the LGA775 package.
- 2 Intel® B43 Express Chipset:** Offers a new level of visual quality with integrated Intel® Graphics Media Accelerator X4500, DirectX* 10, and an option to upgrade in select markets (see www.intel.com/go/upgradesreseller).
- 3 Dual-Channel DDR2 800 / 667 memory support:** Two DIMM sockets designed to support up to 8 GB² of DDR2 800 / 667 SDRAM memory, delivering greater platform performance and flexible memory support.
- 4 PCI Express* 2.0 x 16 graphics connector:** Increases graphics bandwidth and provides up to 8 Gb/s per direction.
- 5 Six onboard SATA ports including one internal eSATA (3.0 Gb/s) port:** Facilitates high-speed storage and data transfers at up to 3.0 Gb/s for each of six ports.
- 6 Intel® 82567LM ENERGY STAR*-ready 10/100/1000 network connection**
- 7 Two PCI connectors:** Provide expansion slots for custom system configurations and future add-in card upgrades.
- 8 PCI Express* x1 connector:** Designed for bandwidth-intensive applications, PCI Express* x1 I/O offers up to 3.5 times the bandwidth over traditional PCI architecture.
- 9 Back panel connectors:** Includes one parallel port connector and two PS/2 connectors.
- 10 Up to ten Hi-Speed USB 2.0 ports:** Provides four back panel ports and an additional six USB ports via three internal headers.
- 11 Dual-independent display with DVI and VGA graphics output**
- 12 MicroATX form factor**



Technical Specifications

Processor

Processor Support

- Intel® Core™2 Quad and Intel® Core™2 Duo processors in the LGA775 package
- Supports Intel® 64 Architecture

Chipset

Intel® B43 Express Chipset

- Intel® 82B43 Graphics and Memory Controller Hub (GMCH)
- Intel® 82801JD I/O Controller Hub (ICH10D)
- Intel® Upgrade Service¹ ready in select geographies (www.intel.com/go/upgradesreseller)

Graphics Memory Controller Hub (GMCH)

- Designed to support up to 8 GB² of system memory using DDR2 800 / 667 SDRAM memory
- Intel® Fast Memory Access
- Intel® Graphics Media Accelerator X4500 with DirectX* 10
- DVI and VGA integrated graphics output

Intel® I/O Controller Hub

- Six onboard SATA ports including one internal eSATA (3.0 Gb/s) port

USB 2.0

Integrated Intel® ICH10D controllers:

- Four back-panel ports (two dual-stack)
- Six additional ports (via three headers)

System BIOS

- 32 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V1.0b, DMI 2.0, multilingual support

Intel® Rapid BIOS Boot

- Intel® Rapid BIOS Boot
- Intel® Express BIOS Update support

System Memory

Memory Capacity

- Two 240-pin DIMM connectors supporting up to two double-sided DIMMs

Memory Type

- DDR2 800 / 667 SDRAM memory support
- Non-ECC Memory

Memory Modes

- Dual- or single-channel operation support

Memory Voltage

- 1.8 V

Hardware Management Features

- Processor fan speed control
- System chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- Power management support for ACPI 1.0b

Intel® 82567LM ENERGY STAR*-ready 10/100/1000 Network Connection

- High quality and reliability with Intel's world-class manufacturing and validation

Expansion Capabilities

- Two PCI bus add-in card connectors
- One PCI Express* x1 add-in card connector
- One PCI Express* x16 graphics connector

Audio

- 5.1-channel Intel® High Definition Audio codec

Jumpers and Other Connectors

Jumpers

- Single configuration jumper design
- Jumper access for BIOS maintenance mode

Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off
- Three front-panel Hi-Speed USB 2.0 headers
- Front-panel audio header

Other Connectors

- One back-panel parallel port connector
- Two back-panel PS/2 connectors
- One serial header

Mechanical

Board Style

- MicroATX 2.2 compliant

Board Size

- 9.6" x 9.6" (24.38cm x 24.38cm)

Baseboard Power Requirements

- ATX12V

Environment

Operating Temperature

- 0° C to +35° C

Storage Temperature

- 20° C to +70° C

Regulations and Safety Standards

United States and Canada

CSA/UL 60950-1, First Edition (Binational Standard)

Europe

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

International

IEC 60950-1:2001, First Edition

EMC Regulations

(tested in representative chassis)

United States

FCC 47 CFR Part 15, Subpart B

Canada

ICES-003, Issue-004 Class B

Europe

(EMC Directive 2004/108/EC)

EN 55022:2006 and EN 55024:1998

Australia/New Zealand

EN 55022:2006 Class B

Japan

VCCI V-3/04.04, V-4/03.04, Class B

South Korea

KN-22:2005 and KN-24:2005

Taiwan

CNS 13438:2006 Class B

International

CISPR 22:2005 +A1:2005 +A2:2006 Class B

Environmental Compliance

Europe

Europe RoHS (Directive 2002/95/EC)

China

China RoHS (MII Order # 39)



Lead-Free: The symbol is used to identify electrical and electronic assemblies and components in which the lead (Pb) concentration level in any

of the raw materials and the end product is not greater than 0.1% by weight (1000 ppm). This symbol is also used to indicate conformance to lead-free requirements and definitions adopted under the European Union's Restriction on Hazardous Substances (RoHS) directive, 2002/95/EC.

Ordering Information: See the Intel Web site at www.intel.com. For the most current product information, visit www.intel.com/products/desktop/motherboard/

¹ Use of Intel® Upgrade Service will require supported Intel® processor.

² 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.

Desktop PCs with Intel® Standard Manageability and Intel® 64 architecture require a computer system with a processor, chipset, BIOS, enabling software and/or operating system, device drivers, and applications designed for these features. Performance will vary depending on your configuration.

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