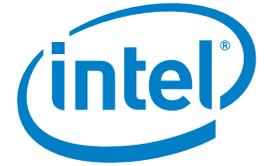


PRODUCT BRIEF

Intel® Desktop Board DH61CR
Classic Series



MicroATX Form Factor

Intel® Desktop Board DH61CR Classic Series



Supports 2nd generation Intel® Core™ processors in the LGA1155 package

The Intel® Desktop Board DH61CR is based on the Intel® H61 Express Chipset and supports 2nd generation Intel® Core™ processors, including Intel® Core™ i7 and Intel® Core™ i5 processors and other Intel® processors in the LGA1155 package. The 2nd generation Intel Core processors feature optimized Intel® Turbo Boost Technology¹ 2.0 and enhanced Intel® Hyper-Threading Technology², which provide smarter performance and a seamless visual experience.

Dual independent display for processors with Intel® HD Graphics

The Intel Desktop Board DH61CR is equipped with DVI-D and VGA ports to support flexible, dual independent display for processors with Intel® HD Graphics. Powered by the 2nd generation Intel Core processors with Intel HD Graphics, the Intel Desktop Board DH61CR delivers superb visual performance for sharper images, richer color, and lifelike video.

Make your PC your favorite spot for work and entertainment

- Enhance your gaming experience with DirectX* 10.
- Supports VGA and DVI-D graphics output with dual display capability.
- Get great network connectivity with an integrated 10/100/1000 Network Connection.
- Experience the rich sound quality of Intel® High Definition Audio³ with 5.1-channel surround sound.
- Microsoft* Windows* 7 Ultimate and Windows Vista* Ultimate WHQL certified.



Intel® Desktop Board DH61CR Classic Series

The boxed Intel® Desktop Board DH61CR 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

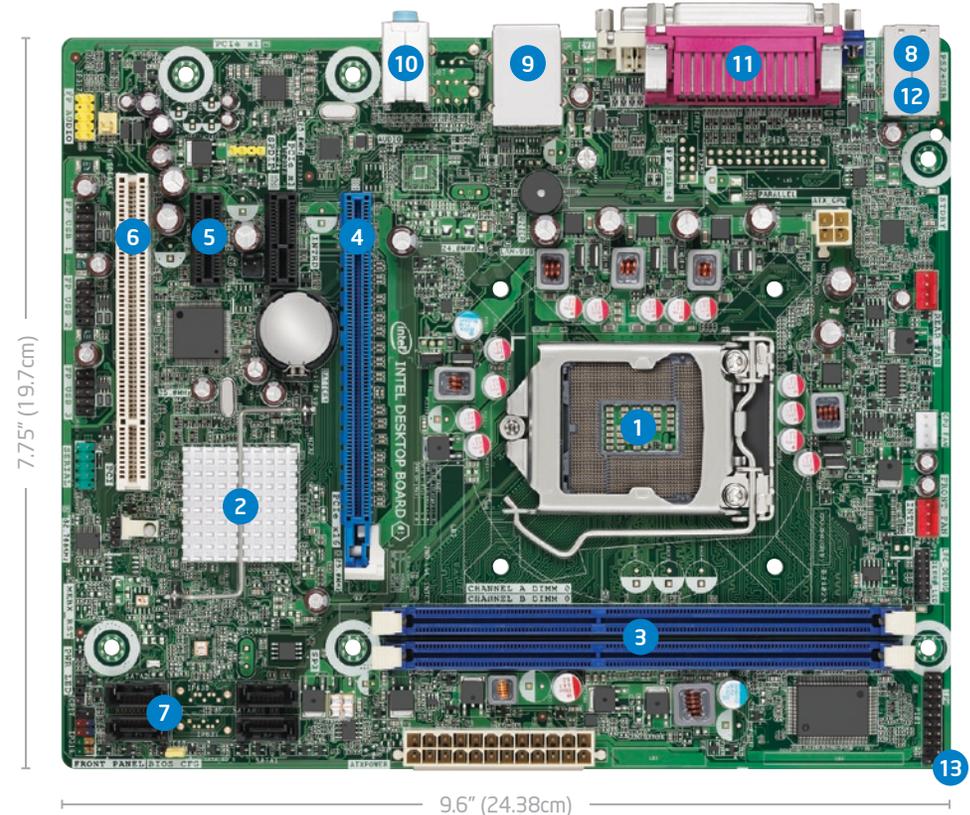
Software included:

CAPABILITY	SOFTWARE INCLUDED:
Utilities	<ul style="list-style-type: none">▪ Intel® Core Utilities Bundle⁴▪ Intel® Desktop Utilities
Productivity	<ul style="list-style-type: none">▪ Laplink* PCmover Express*
Antivirus	<ul style="list-style-type: none">▪ ESET* Smart Security 4 (1-year license)

Intel® Desktop Board DH61CR Classic Series

Features and Benefits

- 1 Supports 2nd generation Intel® Core™ processors, including Intel® Core™ i7 and Intel® Core™ i5 processors and other Intel® processors in the LGA1155 package for exceptional performance
- 2 Intel® H61 Express Chipset PCH
- 3 Dual-channel DDR3 with two connectors for 1333 / 1066 / 800 MHz memory support (8 GB⁵ max): Supports 1.2 V to 1.8 V memory voltage control for maximum DIMM compatibility.
- 4 One PCI Express* 2.0 x16 graphics connector: Delivers up to 8 GB/s bandwidth.
- 5 Two PCI Express 2.0 x1 connectors
- 6 One PCI connector
- 7 Four SATA ports (3.0 Gb/s): Facilitate high-speed storage and data transfers at up to 3.0 Gb/s for each of four ports.
- 8 Ten USB 2.0 ports: Four back panel ports and six additional ports via internal headers.
- 9 Integrated Intel® PRO 10/100/1000 Network Connection
- 10 Six-channel Intel® High Definition Audio³: Audio subsystem with three analog audio outputs (5.1 + 2 independent multi-streaming).
- 11 DVI-D and VGA ports: Dual independent display capability for multiple display support.
- 12 PS/2 port: Supports keyboard or mouse.
- 13 MicroATX form factor



Intel® Desktop Board DH61CR Classic Series

Technical Specifications

PROCESSOR

Processor Support

- Intel® Core™ i7 and Intel® Core™ i5 processors and other Intel® processors in the LGA1155 package
- Supports Intel® 64 architecture⁵

CHIPSET

Intel® H61 Express Chipset

- Intel® 82H61 Platform Controller Hub (PCH)

Peripheral Connectivity

- Four SATA (3.0 Gb/s) ports
- Ten Hi-Speed USB 2.0 ports (four back panel ports and six additional ports via internal headers)
- Parallel port

System BIOS

- 32 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V3.0b, SMBIOS2.5
- Intel® Express BIOS update support

Hardware Management Features

- Processor fan speed control
- System chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

Intel® PRO 10/100/1000 Network Connection

- Low-power design

Expansion Capabilities

- One PCI Express* 2.0 x16 graphics connector
- Two PCI Express 2.0 x1 connectors
- One PCI connector

Headers

- One serial port header
- S/PDIF audio header

Audio

- Six-channel Intel® High Definition Audio³ codec

SYSTEM MEMORY

Memory Capacity

- Two 240-pin DIMM connectors supporting up to four double-sided DIMMs (8 GB⁵ max)

Memory Types

- DDR3 1333 / 1066 / 800 SDRAM memory support
- Non-ECC Memory

Memory Modes

- Dual- or single-channel operation support

Memory Voltage

- 1.2 V to 1.8 V

JUMPERS AND FRONT-PANEL CONNECTORS

Jumpers

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

Front-Panel Connectors

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

For ordering information, visit www.intel.com

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

MECHANICAL

Board Style

- MicroATX 2.2-compliant

Board Size

- 9.6" x 7.75" (24.38cm x 19.7cm)

Baseboard Power Requirements

- ATX 12 V

ENVIRONMENT

Operating Temperature

- 0° C to +55° C

Storage Temperature

- 20° C to +70° C

REGULATIONS AND SAFETY STANDARDS

United States and Canada

- UL 1950, Third edition—CAN/CSA C22.2 No. 950-95 with recognized U.S. and Canadian component marks

Europe

- Nemko certified to EN 60950 International
- Nemko certified to IEC 60950 (CB report with CB certificate)

EMC regulations (tested in representative chassis)

United States

- FCC Part 15, Class B
- FCC Part 15, Class B open-chassis (cover off) testing

Canada

ICES-003, Class B

Europe

EMC directive 89/336/EEC; EN 55022:1998 Class B; EN 55024:1998

Australia/New Zealand

AS/NZS 3548, Class B

Taiwan

CNS 13438, Class B International
CISPR 22:1997, Class B

Power requirements vary. Complies with US CRF via EN55022 +6 db in system configurations with an open chassis and EU Directive 89/336/EEC and use via EN55022 and EN50082-1 in a representative chassis.



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.

¹ Intel® Turbo Boost Technology 2.0 requires a PC with a processor with Intel Turbo Boost Technology 2.0 capability. Intel Turbo Boost Technology 2.0 performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost for more information.

² Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/info/hyperthreading for more information.

³ 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/ndaudio.htm

⁴ The Intel® Core Utilities bundle includes Intel® Integrator Assistant, Intel® Integrator Toolkit, Intel® Express Installer and Intel® Express Bios Update.

⁵ 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.

⁶ 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See <http://developer.intel.com/technology/intel64/index.htm> for more information.

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

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