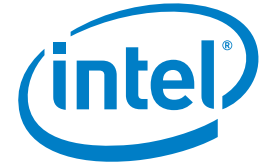


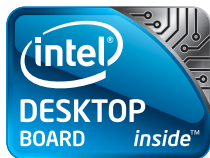
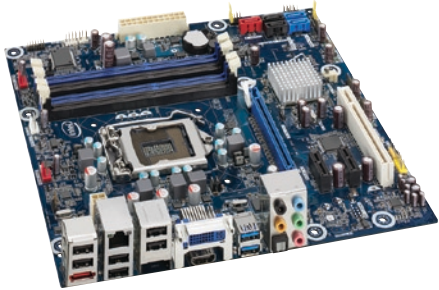
PRODUCT BRIEF

Intel® Desktop Board DH67BL  
Media Series



MicroATX Form Factor

# Intel® Desktop Board DH67BL Media Series



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

The Intel® Desktop Board DH67BL is based on the Intel® H67 Express Chipset and supports 2nd-generation Intel® Core™ processors, including the 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 Technology<sup>1</sup> and enhanced Intel® Hyper-Threading Technology<sup>2</sup>, which provide smarter performance and a seamless visual experience.

## Dual independent display for processors with Intel® HD Graphics

The Intel Desktop Board DH67BL is equipped with DVI-I and HDMI\* ports and supports flexible dual independent display for processors with Intel® HD Graphics. Powered by 2nd-generation Intel Core processors with Intel HD Graphics, the Intel Desktop Board DH67BL delivers a superb visual performance for sharper images,

richer color, and lifelike audio and video. Enjoy a rich, immersive, liquid-smooth visual experience on your monitor or HDTV.

The Intel Desktop Board DH67BL also supports Intel HD Graphics with frequency tuning to maximize visual performance.

## Premium features

The Intel Desktop Board DH67BL offers premium features such as dual-channel DDR3 1333 MHz memory with four connectors (32 GB<sup>3</sup> max), Intel® Rapid Storage Technology for RAID 0, 1, 5, and 10, Intel® High Definition Audio<sup>4</sup> with 7.1 surround sound and multi-streaming capability, and an integrated Intel® PRO 10/100/1000 Network Connection in a low-power design.

The Intel Desktop Board DH67BL is designed with a wide range of 1.2 V to 1.8 V memory voltage control to maximize memory DIMM compatibility.

Two onboard SATA Revision 3.0 ports promise a new level of performance with 6.0 Gb/s link speed between storage devices and the host.

Two back panel SuperSpeed USB 3.0 ports address the needs of higher performance connections between the PC and increasingly sophisticated peripherals by offering a higher transferring rate of 5.0 Gb/s.

Legacy features such as a PCI connector provides backward compatibility for peripherals.

## Intel® Rapid Storage Technology

The Intel Desktop Board DH67BL features Intel Rapid Storage Technology and supports RAID 0, 1, 5, and 10. Intel Rapid Storage Technology provides new levels of protection, performance, and expandability for desktop platforms. Whether using one or multiple hard drives, users can take advantage of enhanced performance and lower power consumption. When using more than one drive, users have additional protection against data loss in the event of a hard drive failure.



## Intel® Desktop Board DH67BL Media Series

### The boxed Intel® Desktop Board DH67BL solution includes:

- ATX / MicroATX compliant I/O shield
- SATA cables
- Board and back panel I/O layout stickers
- Quick reference guide
- Intel® Express Installer driver and software DVD

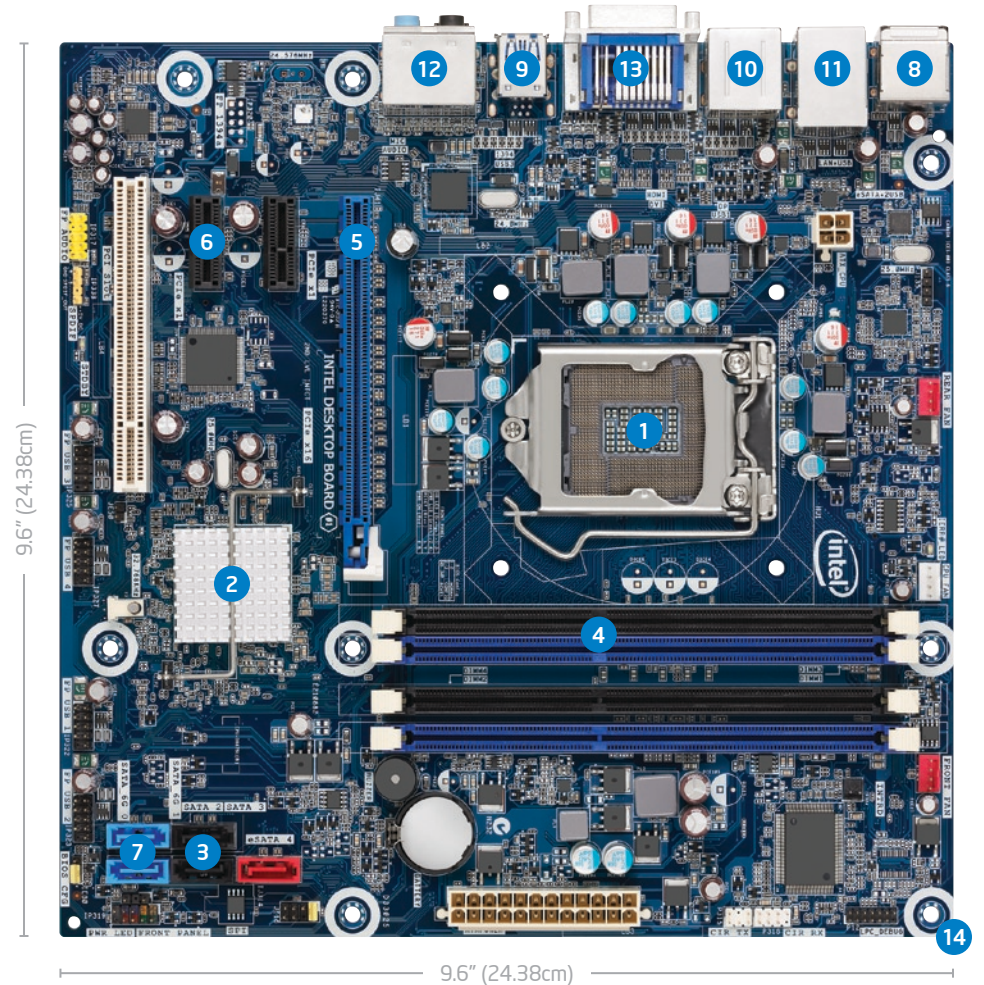
### Software included:

| CAPABILITY   | SOFTWARE INCLUDED:  |
|--------------|---|
| Utilities    | ▪ Intel® Core Utilities Bundle <sup>5</sup><br>▪ Intel® Desktop Utilities |
| Productivity | ▪ Laplink* PCmover Express*   |
| Antivirus    | ▪ ESET* Smart Security 4 (45-day license)                                 |

# Intel® Desktop Board DH67BL Media Series

## Features and Benefits

- 1 Supports the 2nd-generation Intel® Core™ processors, including the Intel® Core™ i7 and Intel® Core™ i5 processors, and other Intel® processors in the LGA1155 package for exceptional performance
- 2 Intel® H67 Express Chipset PCH
- 3 Intel® Rapid Storage Technology for RAID 0, 1, 5, and 10
- 4 Dual-channel DDR3 with four connectors for 1333 / 1066 MHz memory support (32 GB<sup>3</sup> max): Supports 1.2 V to 1.8 V memory voltage control for maximum DIMM compatibility.
- 5 PCI Express\* 2.0 x16 graphics connector
- 6 Two PCI Express\* x1 connectors and one PCI connector
- 7 Two SATA 6.0 Gb/s ports and three SATA 3.0 Gb/s ports, with one port compatible with an eSATA extension
- 8 One eSATA 3.0 Gb/s port
- 9 Two SuperSpeed USB 3.0 ports: 5.0 Gb/s signaling rate for high-speed connections to peripherals.
- 10 Fourteen Hi-Speed USB 2.0 ports: Six back panel ports and eight additional ports via four internal headers.
- 11 Integrated Intel® PRO 10/100/1000 Network Connection for high speed and low power consumption
- 12 Ten-channel Intel® High Definition Audio<sup>4</sup> with multi-streaming capability: Features five stack analog audio ports, one optical S/PDIF out port, internal S/PDIF header, and front panel audio header.
- 13 DVI-I + HDMI\*: Supports dual independent display and allows for the most flexible display output for Intel processors with Intel® HD Graphics.
- 14 MicroATX Form Factor



# Intel® Desktop Board DH67BL Media 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 architecture<sup>5</sup>

### CHIPSET

#### Intel® H67 Express Chipset

- Intel® 82H67 Platform Controller Hub (PCH)

#### Peripheral Connectivity

- Two SATA 6.0 Gb/s ports
- Three SATA 3.0 Gb/s ports with one SATA port compatible with eSATA extension
- Two SuperSpeed USB 3.0 ports with 5.0 Gb/s link speed
- Fourteen Hi-Speed USB 2.0 ports (six back panel ports and eight additional ports via four internal headers)

#### 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
- Front and rear system chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management support

#### Intel® PRO 10/100/1000 Network Connection

- Low-power design

#### Expansion Capabilities

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

#### Audio

- 7.1 + 2 multi-streaming Intel® High Definition Audio<sup>4</sup>
- Five stack analog audio ports and one optical S/PDIF out port
- Internal S/PDIF header and front panel audio header

#### Video

- DVI-I + HDMI\*: support dual independent display for Intel® processors with Intel® HD Graphics

### SYSTEM MEMORY

#### Memory Capacity

- Four 240-pin DIMM connectors supporting up to four double-sided DIMMs
- Maximum system memory up to 32 GB using 8 GB double-sided DIMMs

#### Memory Types

- DDR3 1333 / 1066 SDRAM memory support
- Non-ECC Memory
- Dual- or single-channel operation support

#### Memory Voltage

- Memory voltage control from 1.2 V to 1.8 V
- 1.5 V standard JEDEC voltage

### JUMPERS AND FRONT PANEL CONNECTORS

#### Jumpers

- Jumper access for BIOS maintenance mode

<sup>1</sup> Intel® Turbo Boost Technology—maximum single-core turbo frequency (GHz). Intel Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology 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](http://www.intel.com/technology/turboboost) for more information.

<sup>2</sup> 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](http://www.intel.com/info/hyperthreading) for more information.

<sup>3</sup> 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.

<sup>4</sup> 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](http://www.intel.com/design/chipsets/hdaudio.htm)

<sup>5</sup> The Intel® Core Utilities Bundle includes Intel® Integrator Assistant, Intel® Integrator Toolkit, Intel® Express Installer, and Intel® Express BIOS Update.

<sup>6</sup> 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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#### Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off
- Front-panel audio header

#### Other Connectors

- Consumer IR emitter/receiver headers
- Chassis intrusion detect header

### MECHANICAL

#### Board Style

- MicroATX

#### Board Size

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

#### 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

- 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)
- WEEE (Directive 2002/96/EC)

#### China

- China RoHS (MII Order # 39)

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