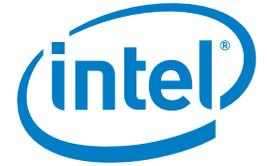


PRODUCT BRIEF

**Intel® Desktop Board DH67CF
Media Series**



Mini-ITX Form Factor

Intel® Desktop Board DH67CF Media Series

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

The Intel® Desktop Board DH67CF is based on the Intel® H67 Express Chipset and supports 2nd-generation Intel® Core™ processors, including the Intel® Core™ i5, Intel® Core™ i3, and other Intel® processors in the LGA1155 package.¹ The 2nd-generation Intel Core processors feature optimized Intel® Turbo Boost Technology² and enhanced Intel® Hyper-Threading Technology,³ which provide smarter performance and a seamless visual experience. The Mini-ITX form factor provides maximum design flexibility to support system designs ranging from All-in-One to portable systems.

Dual independent display for processors with Intel® HD Graphics

The Intel Desktop Board DH67CF is equipped with DVI-I, HDMI,* and DisplayPort*⁶ connectors and supports flexible dual independent display. Powered by 2nd-generation Intel

Core processors with Intel HD Graphics, the Intel Desktop Board DH67CF 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 DH67CF also supports Intel HD Graphics with frequency tuning to maximize visual performance.

Premium features

The Intel Desktop Board DH67CF offers premium features such as dual-channel DDR3 1333 MHz memory with two connectors (16 GB⁴ max), Intel® Rapid Storage Technology for RAID 0, 1, 5, and 10, Intel® High Definition Audio⁵ with 7.1 surround sound and multi-streaming capability, and an integrated Intel® PRO 10/100/1000 Network Connection in a low-power design.

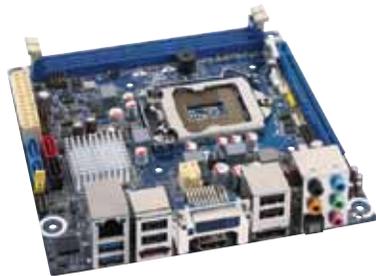
The Intel Desktop Board DH67CF is designed with a wide range of 1.2 V to 1.8 V memory voltage control to maximize memory DIMM compatibility.

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.

Intel® Rapid Storage Technology

The Intel Desktop Board DH67CF 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 DH67CF Media Series

The boxed Intel® Desktop Board DH67CF solution includes:

- Mini-ITX 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:

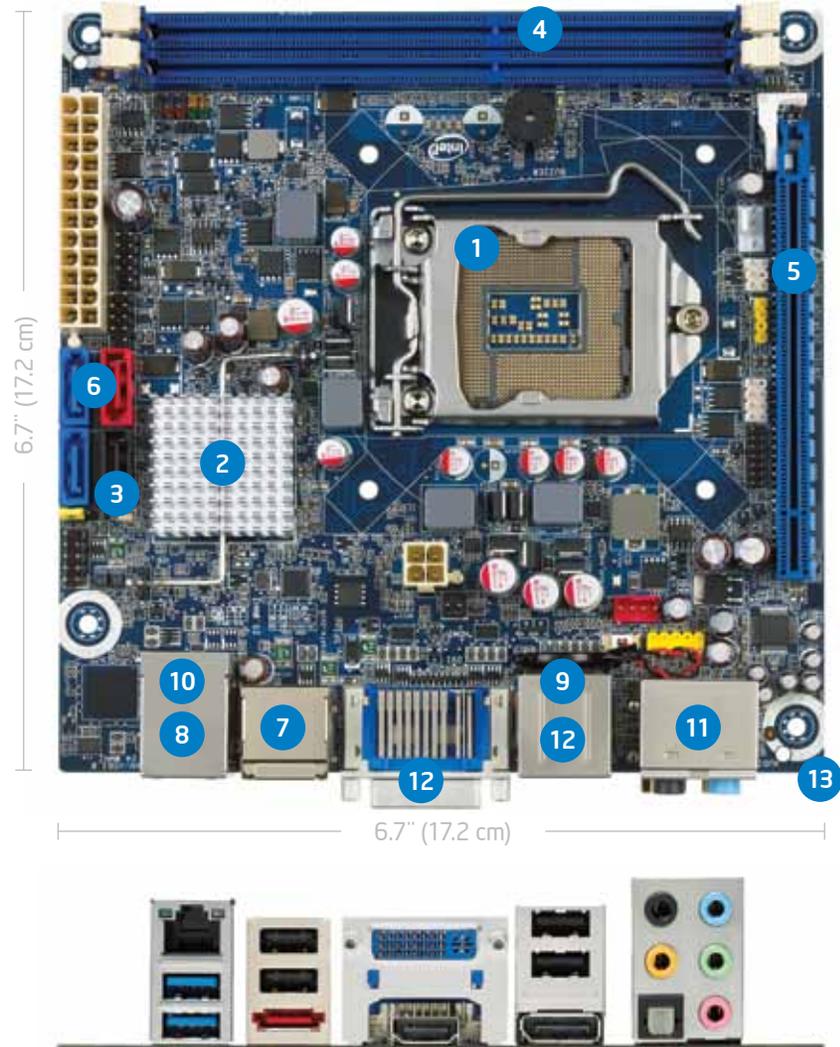
Capability	Software Included
Utilities	<ul style="list-style-type: none">▪ Intel® Core Utilities Bundle⁷▪ Intel® Desktop Utilities
Productivity	<ul style="list-style-type: none">▪ Laplink* PCmover Express*
Antivirus	<ul style="list-style-type: none">▪ ESET* Smart Security 4 (45-day license)



Intel® Desktop Board DH67CF Media Series

Features and Benefits

- 1 Supports the 2nd-generation Intel® Core™ processors, including the Intel® Core™ i5, Intel® Core™ i3, 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 (16 GB⁴ 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 SATA 6.0 Gb/s ports and two SATA 3.0 Gb/s ports, with one port compatible with an eSATA extension.
- 7 One eSATA 3.0 Gb/s port.
- 8 Two SuperSpeed USB 3.0 ports: 5.0 Gb/s signaling rate for high-speed connections to peripherals.
- 9 Ten Hi-Speed USB 2.0 ports: Four back panel ports and six additional ports via four internal headers.
- 10 Integrated Intel® PRO 10/100/1000 Network Connection for high speed and low power consumption.
- 11 Ten-channel Intel® High Definition Audio⁵ 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.
- 12 DVI-I + HDMI*+DisplayPort*⁶: Supports dual independent display and allows for the most flexible display output for Intel processors with Intel® HD Graphics.
- 13 Mini-ITX Form Factor.



HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

Intel® Desktop Board DH67CF Media Series

Technical Specifications

PROCESSOR

Processor Support

- Intel® Core™ i5, Intel® Core™ i3, and other Intel® processors in the LGA1155 package¹
- Supports Intel® 64 architecture⁹

CHIPSET

Intel® H67 Express Chipset

- Intel® 82H67 Platform Controller Hub (PCH)

PERIPHERAL CONNECTIVITY

- Two SATA 6.0 Gb/s ports
- Two 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
- Ten Hi-Speed USB 2.0 ports (Four back panel ports and six 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, SMBIOS 2.5
- 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

AUDIO

- 7.1 + 2 multi-streaming Intel® High Definition Audio⁵
- 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*+DisplayPort*⁶: supports dual independent display

SYSTEM MEMORY

Memory Capacity

- Two 240-pin DIMM connectors supporting up to two double-sided DIMMs
- Maximum system memory up to 16 GB⁴ 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

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

- Mini-ITX

Board Size

- 6.7" x 6.7" (17.2 cm x 17.2 cm)

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)

For ordering information, visit:
www.intel.com

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

¹ Using the Intel® Desktop Board DH67CF with a 95W TDP Core and the supplied standard Intel thermal solution may not meet thermal requirements if used in a mini-ITX chassis. For specific processor compatibility, please visit <http://processormatch.intel.com>.

² 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 for more information.

³ 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.

⁴ 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.

⁵ 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

⁶ DisplayPort (DP): The next generation in high-performance digital connectivity, delivering high-resolution digital display and digital audio.

⁷ The Intel® Core Utilities Bundle includes Intel® Integrator Assistant, Intel® Integrator Toolkit, Intel® Express Installer, and Intel® Express BIOS Update.

⁸ 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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