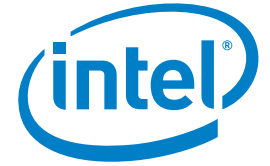


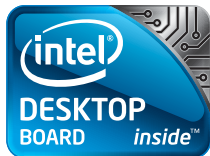
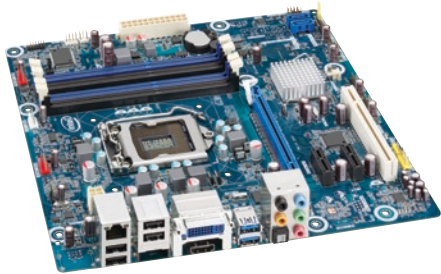
PRODUCT BRIEF

Intel® Desktop Board DH67VR
Media Series



MicroATX Form Factor

Intel® Desktop Board DH67VR Media Series



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

The Intel® Desktop Board DH67VR is based on the Intel® H67 Express Chipset and supports 2nd gen Intel® Core™ processors, including Intel® Core™ i7 and Intel® Core™ i5 processors and other Intel® processors in the LGA1155 package. The 2nd gen Intel Core processors feature optimized Intel® Turbo Boost Technology¹ 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 DH67VR is equipped with DVI-I and HDMI* ports and supports flexible dual independent display for processors with Intel® HD Graphics.

Powered by 2nd gen Intel Core processors with Intel HD Graphics, the Intel Desktop Board DH67VR 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 DH67VR also supports Intel HD Graphics with frequency tuning to maximize visual performance.

Premium features

The Intel Desktop Board DH67VR offers premium features such as dual-channel DDR3 1333 MHz memory with four connectors (32 GB³ max), Intel® Rapid Storage Technology for RAID 0 and 1, Intel® High Definition Audio⁴ 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 DH67VR 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® Desktop Board DH67VR Media Series

The boxed Intel® Desktop Board DH67VR 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:

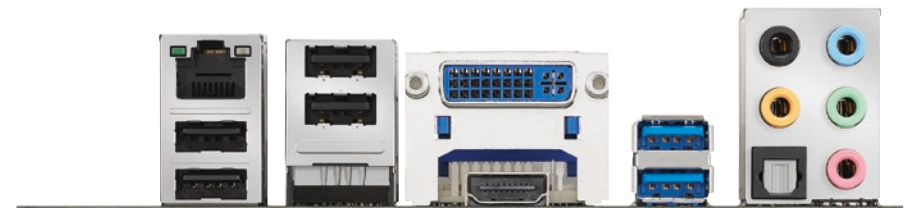
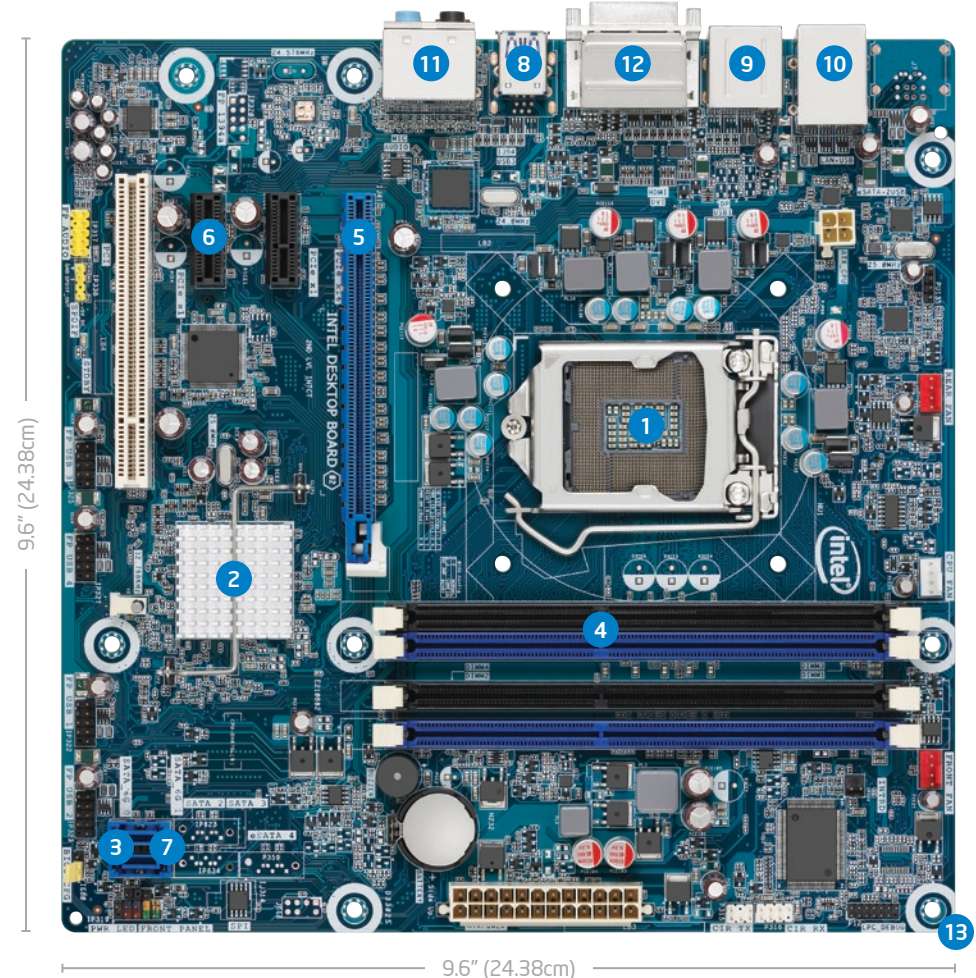
CAPABILITY	SOFTWARE INCLUDED:
Utilities	▪ Intel® Core Utilities Bundle ⁵ ▪ Intel® Desktop Utilities
Productivity	▪ Laplink* PCmover Express*
Antivirus	▪ ESET* Smart Security 4 (45-day license)

Intel® Desktop Board DH67VR Media Series

Features and Benefits

HDMI

- 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 and 1
- 4 Dual-channel DDR3 with four connectors for 1333 / 1066 MHz memory support (32 GB³ 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
- 8 Two SuperSpeed USB 3.0 ports: 5.0 Gb/s signaling rate for high-speed connections to peripherals.
- 9 Twelve Hi-Speed USB 2.0 ports: Four back panel ports and eight 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 Audio⁴ with multi-streaming capability: Features internal S/PDIF header and front panel audio header.
- 12 DVI-I + HDMI*: Supports dual independent display and allows for the most flexible display output for Intel® processors with Intel® HD Graphics.
- 13 MicroATX Form Factor



Intel® Desktop Board DH67VR 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 architecture⁵

CHIPSET

Intel® H67 Express Chipset

- Intel® 82H67 Platform Controller Hub (PCH)

Peripheral Connectivity

- Two SATA 6.0 Gb/s ports
- Two SuperSpeed USB 3.0 ports with 5.0 Gb/s link speed
- Twelve Hi-Speed USB 2.0 ports (four 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 Audio⁴
- 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

Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off
- 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/>

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)

¹ 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.

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 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.

⁴ 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

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

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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