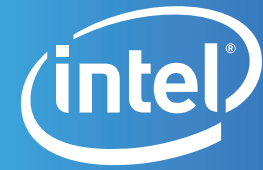# Intel® Desktop Board

DH87MC

Support for 4th generation Intel® Core™ processors

Superior BIOS experience with Intel® Visual BIOS

Full ATX board for full expansion possibilities

PRECISION POWER

Delivering the performance you need and want to finish tasks quickly with power that keeps up with them. Intel® Desktop Board DH87MC supports 4th generation Intel® Core™ processor so you can multitask quickly and move effortlessly between applications, from e-mail to a web browser to a video or spreadsheet and back again.

DH87MC featuring Power Supervisor to protect critical components by automatically monitoring and controlling the power flow, and Advanced Protection Shield to protect the processor and the motherboard from the electrostatic discharge damage.
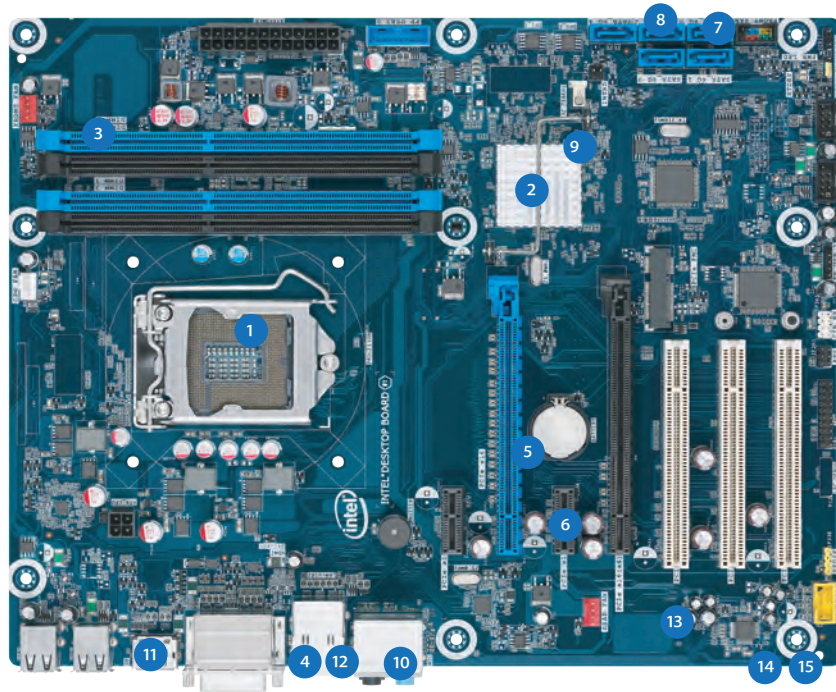
COMPLETE CONTROL = COMPLETE POWER

Control is all about the BIOS and only genuine Intel® Desktop Boards have the most advanced BIOS interface available today: Intel® Visual BIOS. Easily configure your system with a completely graphical interface to meet your specific computing needs. With new features like intelligent search, file explorer, profile management and favorites option, Intel Visual BIOS makes configuring your BIOS fast and simple.

PRODUCT BRIEF

Intel® Desktop Board DH87MC

Features and Benefits

9.6" (24.38cm)

11.6" (29.46cm)

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

Media Series

1 **Support for the Intel® 4th Generation Core™ i7, Intel Core i5 processor in the LGA 1150 package :** Features Intel® Turbo Boost Technology, Intel® Hyper-Threading Technology for exceptional performance and scalability, and 8 MB Shared Intel® Smart Cache, enabling dynamic and efficient allocation of cache.

2 **Intel® H87 Express Chipset:** Features Intel® Smart Response Technology.

3 **Four DIMM slots:** Support DDR3 1600/1333 MHz memory, delivering up to 32 GB /s memory bandwidth. 1.2V to 1.8V memory voltage control for maximum DIMM compatibility.

4 **Four Super-Speed USB 3.0 ports :** (2 external, 2 via internal header), and Ten Hi-Speed USB 2.0 ports (4 external, 5 via internal headers) One Hi-Speed USB 2.0 port via internal Mini PCIe slot.

5 **One PCI Express 3.0* x16 graphics connector**

6 **Two PCI Express 2.0* x1, One PCI Express 2.0* x4 and Three PCI Slots:** Flexibility to support PCI Express and legacy PCI devices

7 **6 SATA 6.0Gb/s ports (1 port via mSATA connector)**

8 **Intel® Rapid Storage Technology:** Performance and reliability with support for RAID 0, 1, 5, 10, and Intel® Rapid Recover Technology.

9 **Intel® Smart Response and Intel® Rapid Start Technologies:** Provides SSD like performance with HDD capacity. Dramatically improves response time when a small capacity SSD is used in conjunction with a large HDD.

10 **(8+2) 10-channel Intel® High Definition Audio (7.1):** Enables high-quality integrated audio that rivals the performance of high-end discrete solutions

11 **DisplayPort* + HDMI*+DVI-I ports:** Supports triple independent display and allows for the most flexible display output for the Intel processors with Intel HD Graphics.

12 **Intel® Gigabit Ethernet LAN:** Features onboard 10 /100 /1000 Mb /s Ethernet LAN connectivity.

13 **100% Solid state capacitors**

14 **ATX (9.6¨ × 11.6¨) Form Factor:** ATX board supports more fully featured tower designs

15 **Lead-free:** Meets all worldwide regulatory requirements for lead-free manufacturing.

PRODUCT BRIEF

Intel® Desktop Board DH87MC

Technical Specifications

PROCESSOR
Processor Support

- Supports the 4th generation Intel® Core™ i7, Intel® Core i5 and other Intel® processors in the LGA1150 package
- Intel® Turbo Boost Technology [4]
- Intel® Hyper-Threading Technology [5]
- Support Intel® 64 architecture [3]

CHIPSET

- Intel® H87 Express Chipset
- Intel® Rapid Storage Technology (RAID 0, 1, 5, 10)
- Intel® Smart Response Technology
- Intel® Rapid Start Technology [8]
- Intel® Smart Connect Technology

INTEL® PRO 10/100/1000 NETWORK CONNECTION

- Intel® Pro 10/100/1000 LAN on the back panel
- New low-power design can meet Energy Star* 5.0 specifications

USB/1394 PORTS

- Two Super-Speed USB 3.0 ports (blue) via back panel
- Two Super-Speed USB 3.0 ports via one internal header
- Four Hi-Speed USB 2.0 ports (black) via back panel
- Five Hi-Speed USB 2.0 ports via three internal headers
- One Hi-Speed USB 2.0 port via internal Mini PCIe slot)

EXPANSION CAPABILITIES

- Two PCI Express* 2.0 x1 slots
- One PCI Express* 2.0 x4 slot
- Three PCI slots
- One full length PCIe Mini Card slot supporting mSATA Solid-State Drive capability
- Six SATA 6.0Gb/s ports (one via mSATA connector)

GRAPHICS

- One PCI Express* 3.0 x16 connector
- One DisplayPort* connector via pack panel
- One DVI-I connector via back panel
- One HDMI connector via back panel
- Supports triple independent display

AUDIO

- 10-channel Intel® High Definition Audio [7] codec
- 8-channel audio via back panel
- 2-channel audio via front panel
- Back panel support for output via optical cable
- Front panel mic/headphone via internal header
- One internal header for S/PDIF output

SYSTEM BIOS

- Intel® Visual Bios
- 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play, IDE drive auto-configure
- Advanced configuration and power interface V3.0b, SMBIOS2.5
- Intel® Express BIOS update support
- Fast Boot BIOS – Optimized POST for almost instant-on access to PC from power on

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 3.0b

SYSTEM MEMORY
Memory Capacity

- Four 240-pin DIMM connectors supporting dual-channel memory. Two double-sided DIMMs per channel. Maximum system memory up to 32GB [2] using 8 GB double-sided DIMMS

Memory Types

- DDR3 1600/1333 SDRAM memory support
- Non-ECC memory

Memory Voltage

- 1.2V to 1.8V memory voltage control
- Support for Intel® Extreme Mmeory Profile (Intel® XMP)

JUMPERS AND FRONT PANEL CONNECTORS
Jumpers

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

Front Panel Connectors

- Reset, HDD LED, Power LED, Power on/off
- One front-panel Super-Speed USB 3.0 header (2 ports)
- Three front-panel High-Speed USB 2.0 headers (5 ports)
- Front-panel audio header

MECHANICAL
Board Style

- ATX

Board Size

- 11.6" x 9.6" (29.46 cm x 24.38 cm)

Baseboard Power Requirements

- ATX 12 V

COMPLIANCE WITH REGULATIONS AND STANDARDS
Safety Regulations

UL/CSA 60950-1
EN 60950-1
IEC 60950-1

ENVIRONMENT
Operating Temperature

- 0℃ to +55℃

Storage Temperature

- -20℃ to +70℃

EMC Class B Regulations

CISPR 22
CIPSR 24
FCC 47 CFR Part 15, Subpart B
ICES-003
EN 55022
EN 55024
EN 61000-3-2
EN 61000-3-3
IEC/EN 61000-4 Series
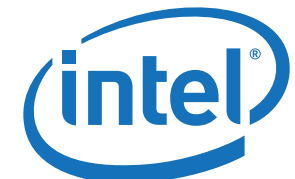VCCI V-3
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