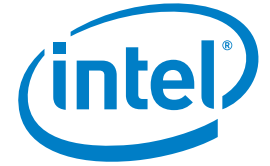


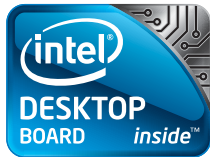
PRODUCT BRIEF

Intel® Desktop Board DP67BA
Media Series



ATX Form Factor

Intel® Desktop Board DP67BA Media Series



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

The Intel® Desktop Board DP67BA is based on the Intel® P67 Express Chipset and supports 2nd gen Intel® Core™ processors, including the 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 exceptional computing performance needed for the latest in gaming and media applications.

Built-In Processor Frequency and Memory Frequency Tuning

The Intel Desktop Board DP67BA is equipped with built-in capabilities to adjust processor frequency and memory frequency for Intel Core processors with tuning capability to maximize computing performance as determined by the user.³

Premium features

The Intel Desktop Board DP67BA offers premium features such as dual-channel DDR3 1333 MHz memory with four connectors (32 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 DP67BA 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 three PCI connectors provide backward compatibility for peripherals.

Intel® Rapid Storage Technology

The Intel Desktop Board DP67BA 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 DP67BA Media Series

The boxed Intel® Desktop Board DP67BA solution includes:

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

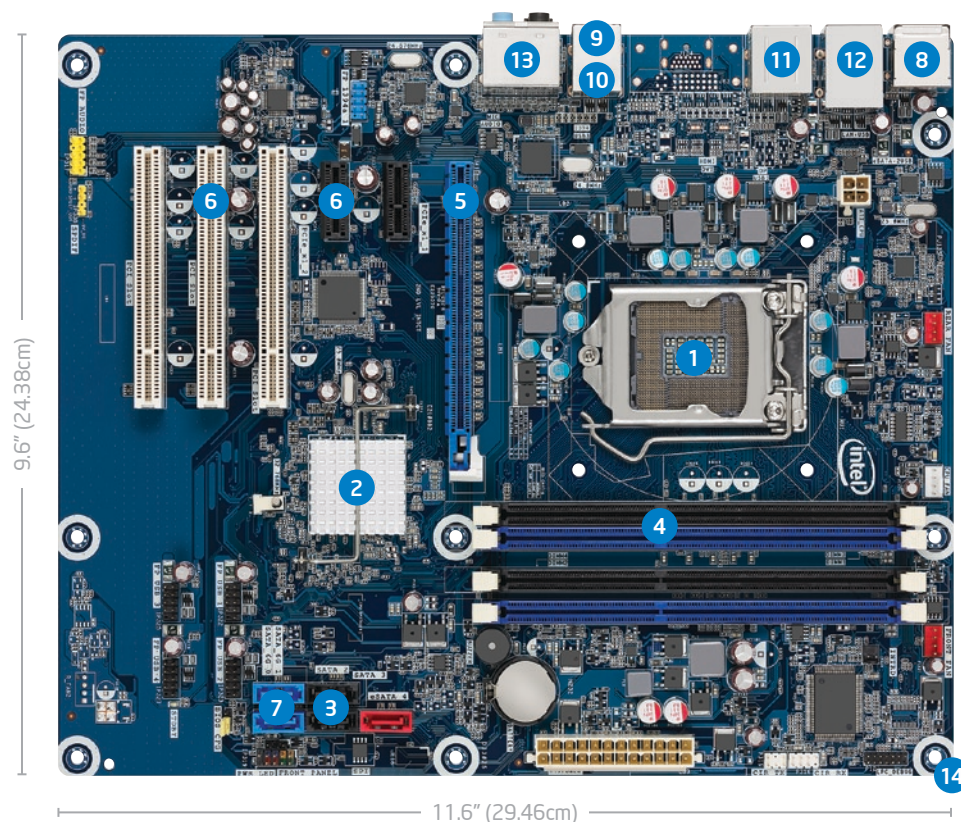
Software included:

CAPABILITY	SOFTWARE INCLUDED:
Utilities	<ul style="list-style-type: none">▪ Intel® Core Utilities Bundle⁶▪ 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 DP67BA 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® P67 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 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 PCI Express* x1 connectors and three PCI connectors
- 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 Two IEEE 1394a ports: One back panel port and one via internal header.
- 11 Fourteen Hi-Speed USB 2.0 ports: Six back panel ports and eight additional ports via four internal headers.
- 12 Integrated Intel® PRO 10/100/1000 Network Connection for high speed and low power consumption
- 13 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.
- 14 ATX Form Factor



Intel® Desktop Board DP67BA 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 architecture⁷

CHIPSET

Intel® P67 Express Chipset

- Intel® 82P67 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)
- Two IEEE 1394a ports (one back panel port and one via internal header)

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
- Three PCI connectors

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

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

For ordering information, visit www.intel.com

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

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

- ATX

Board Size

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

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 Intel does not warrant against use of its processors and desktop boards outside of specification. Intel recommends users to ensure sufficient airflow and cooling of the system when enabling the processor and memory frequency tuning feature.

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

⁷ 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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