

MicroATX Form Factor

# Intel® Desktop Board DP67DE Media Series





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

The Intel® Desktop Board DP67DE is based on the Intel® P67 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 Technology¹ and enhanced Intel® Hyper-Threading Technology,² 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 DP67DE is equipped with built-in capability 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 DP67DE offers premium features such as dual-channel DDR3 1333 MHz memory with four connectors (32 GB<sup>4</sup> max), Intel® Rapid Storage Technology for RAID 0, 1, 5, and 10, Intel® High Definition Audio® 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 DP67DE 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 one PCI connector provide backward compatibility for peripherals.

#### Intel® Rapid Storage Technology

The Intel Desktop Board DP67DE 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 DP67DE Media Series

#### The boxed Intel® Desktop Board DP67DE solution includes:

- 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>6</sup>
	■ Intel® Desktop Utilities
Productivity	■ Laplink* PCmover Express*
Antivirus	ESET* Smart Security 4     (45-day license)



# Intel® Desktop Board DP67DE 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.
- 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.
- Two PCI Express x1 connectors and one 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.

- Two SuperSpeed USB 3.0 ports: 5.0 Gb/s signaling rate for highspeed 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.
- Ten-channel Intel® High Definition
  Audio⁴ 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 MicroATX Form Factor.







# Intel® Desktop Board DP67DE 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>7</sup>

#### **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, 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® Turbo Boost Technology—maximum single-core turbo frequency (GH2). 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.
- <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 for more information.
- <sup>3</sup> 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.

#### 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 connectors

#### **AUDIO**

- 7.1 + 2 multi-streaming Intel® High Definition Audio<sup>5</sup>
- 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<sup>4</sup> 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

• Jumper access for BIOS maintenance mode

- <sup>5</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
- <sup>6</sup> The Intel<sup>®</sup> Core Utilities Bundle includes Intel<sup>®</sup> Integrator Assistant, Intel<sup>®</sup> Integrator Toolkit, Intel<sup>®</sup> Express Installer, and Intel<sup>®</sup> 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. INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL® TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS.

#### 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" (24.38 cm x 24.38 cm)

#### **Baseboard Power Requirements**

MicroATX 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) FN 60950-1

#### International

IEC 60950-1

#### **EMC Regulations (Class B)**

#### **United States**

FCC CFR Title 47, Chapter I, Part 15, Subparts A/B

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#### Canada

ICFS-003

#### Europe

(EMC Directive 2004/108/EC) EN 55022 and EN 55024

#### Australia/New Zealand

EN 55022

#### lapan

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/

