MicroATX Form Factor

Intel® Desktop Board DB65AL Classic Series

Supports the 2nd-generation Intel® Core™ processors in the LGA1155 package
The Intel® Desktop Board DB65AL is based on the Intel® B65 Express Chipset and 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. The 2nd-generation Intel Core processors feature optimized Intel® Turbo Boost Technology¹ and enhanced Intel® Hyper-Threading Technology², which provides smarter performance and a seamless visual experience.

Dual independent display for processors with Intel® HD Graphics
The Intel Desktop Board DB65AL is equipped with VGA and DVI-D connectors and supports flexible dual independent display for processors with Intel® HD Graphics. Powered by the 2nd-generation Intel Core processors with Intel HD Graphics, the Intel Desktop Board DB65AL 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.

Premium features
The Intel Desktop Board DB65AL offers premium features such as dual-channel DDR3 1333 MHz memory with four connectors (32 GB max), Intel® High Definition Audio with 5.1 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 DB65AL is designed with a wide range of 1.2 V to 1.8 V memory voltage control to maximize memory DIMM compatibility.

One onboard SATA Revision 3.0 port promises a new level of performance with 6.0 Gb/s link speed between storage devices and the host.

Legacy features such as a PCI connector provides backward compatibility for peripherals.
Intel® Desktop Board DB65AL Classic Series

The boxed Intel® Desktop Board DB65AL 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:

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<td>Antivirus</td>
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Intel® Desktop Board DB65AL Classic 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® B65 Express Chipset PCH

3. 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.

4. PCI Express® 2.0 x16 graphics connector

5. One PCI Express® x1 connector

6. One PCI Express® x4 connector and one PCI connector

7. One SATA 6.0 Gb/s port and five SATA 3.0 Gb/s ports, with two ports compatible with eSATA extension

8. Twelve Hi-Speed USB 2.0 ports: Six back panel ports and six additional ports via three internal headers.

9. Integrated Intel® PRO 10/100/1000 Network Connection for high speed and low power consumption

10. Eight-channel Intel® High Definition Audio® with multi-streaming capability

11. VGA+DVI-D ports: Supports dual independent display and allows for the most flexible display output for Intel processors with Intel® HD Graphics.

12. MicroATX Form Factor
Intel® Desktop Board DB65AL Classic Series Technical Specifications

**PROCESSOR**
Processor Support
- Intel® Core™ i7 and Intel® Core™ i5 processors, and other Intel® processors in the LGA 1155 package
- Supports Intel® 64 architecture

**CHIPSET**
- Intel® B65 Express Chipset
- Intel® RAID Controller Hub (ICH)

**Peripheral Connectivity**
- One SATA 6.0 Gbps port
- Five SATA 3.0 Gbps ports with two SATA ports compatible with eSATA extension
- Twelve Hi-Speed USB 2.0 ports (six back panel ports and six additional ports through internal headers)

**System BIOS**
- 32 MiB Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V3.0b
- SM BIOS
- Intel® Express BIOS update support

**Hardware Management Features**
- Power-on reset 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® x4 connector
- One PCI Express® x1 connector
- One PCI Express® x16 connector

**Audio**
- S1 + 2 multi-streaming Intel® High Definition Audio®
- Three-chip analog audio ports
- Internal SPDIF header and front-panel audio header

**Video**
- VGA-DVI-D ports: 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-EEPROM 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**
- One serial port header
- Chassis intrusion detector 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-C222 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 1, Part 15, Subparts A/B

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

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* 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/technology/th for more information.

* 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® 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/chips/products/audio.htm

* 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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