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Intel[®] Desktop Board DZ75ML-45K

Optimized for Intel® -K Processors

microATX Form Factor

PRODUCT BRIEF

Intel[®] Desktop Board DZ75ML-45K

Optimized for Intel® -K Processors!

Introducing the Intel® Desktop Board DZ75ML-45K. Optimized for Intel® -K processors and equipped with full capability Intel[®] Visual BIOS for maximum overclocking performance and best experience.

Supports the 2nd and 3rd generation Intel® Core[™] processors in the LGA1155 package

Once again with the introduction of the Intel® Desktop Board DZ75ML-45K Intel is offering a great board at a very attractive price point for gamers and overclockers. In combination with the new Intel[®] Visual BIOS, this board will surely satisfy all of the needs of the performance enthusiasts. As a member of the newly introduced -K Series Intel® Desktop Boards, the DZ75ML-45K is optimized to take full advantage of the Intel® -K processors. Combination of very sophisticated power delivery design and ease of performance tuning and overclocking of the Core, Graphics, and memory offered by the Intel® Visual BIOS make the DZ75ML-45K an ideal board for the Intel® -K processors. Intel® -K Series Desktop Board PLUS Intel® -K processor EQUALS performance.

INTEL® VISUAL BIOS Advanced Overclocking

The new Intel® Visual BIOS offers graphical interface and animated controls which allow you to configure settings faster and take full advantage of your Intel® -K processors. Intel® Visual BIOS allows easy overclocking of Core, Graphics, and Memory. Intel Visual BIOS operates by your choice of touch screen, keys, or mouse. All controls are literally at your fingertips, in a format you can visualize. When your quest for ultimate performance takes you to extremes, choose the Intel® Desktop Board DZ75ML-45K here and Intel® Visual BIOS.

Power and Responsiveness for the Hottest New Games

The advanced power and overclocking¹ capabilities of the DZ75ML-45K board coupled with other significant technologies such as Intel® Fast Boot technology and Intel® Power Supervisor technology make this the board of choice for cost conscious gamers and media creation enthusiasts alike. Intel® Fast Boot Technology reduces system boot times to mere seconds while the Intel® Power Supervisor technology actively monitors the system power to ensure system protection. Other premium features include GPU Virtualization Software with Lucid* MVP, HDMI and DVI-I video connectors, one PCle* 3.0 x16 connector for external graphics and a second PCIe x16 (x4 electrical) to support CrossFireX* dual graphics.





Intel Desktop Board K Series

inside

Capability	Software included
Utilities	 Intel[®] Integrator Tool Kit Intel[®] Desktop Utilities
Productivity	 Splashtop* Remote Desktop
Antivirus	McAfee* Antivirus Plus
GPU Virtualization	 Lucid* Virtu MVP Software

SATA cables

stickers

Intel® Desktop Board DZ75ML-45K

Features and Benefits

9.6" (24,38 cm)



9.6" (24.38 cm)

Windows 8









~ RAZER

HOMI





- Support for the Intel[®] Core[™] i7 processor in the LGA 1155 package. Optimized for the Intel[®] -K Processors. Features Intel[®] Turbo Boost Technology², Intel[®] Hyper-Threading Technology³ for exceptional performance and scalability.
- 2 Intel[®] **Z75 Express Chipset:** Features Overclocking¹ Support.
- Four DIMM slots: Designed to support overclocked¹ DDR3 2400MHz + O.C.⁴ memory, delivering up to 32 GB/s memory bandwidth.
- Four Super-Speed USB 3.0 ports (2 external, 2 via internal header), ten USB 2.0 ports (4 external, 6 via internal headers).
- 5 PCI Express 3.0* ×16 slot.
- 6 PCI Express* x16 (x4 electrical) and 2 PCI Express* x1 connectors.
- 7 Two SATA 6.0 Gb/s ports, four SATA 3.0 Gb/s ports.
- 8 Intel® Rapid Storage Technology: Performance and reliability with support for RAID 0, 1, 5, 10.
- 9 8 Channel (5.1+2) Intel® High Definition Audio⁵ Enables high-quality integrated audio that rivals the performance of high-end discrete solutions.

10 HDMI* and DVI-I Video Connectors.

- 11 Intel[®] Gigabit Ethernet LAN: Features onboard 10/100/1000 Mb/s Ethernet LAN connectivity.
- 12 microATX (9.6" × 9.6") Form Factor.



OPTIMIZED FOR INTEL*-K PROCESSORS Intel® Desktop Board optimized for Intel® -K processors for maximum overclocking¹ performance and best experience.



in mere seconds.

INTEL® FAST BOOT TECHNOLOGY Go from system off to Windows*



POWER SUPERVISOR Active monitoring of power ensures system protection.

Intel[®] Desktop Board DZ75ML-45K

Technical Specifications







Processor Support

 Optimized for Intel[®] -K processors. Supports 2nd and 3rd Generation Intel[®] Core[™], and other Intel[®] processors in the LGA1155 package

CHIPSET

Intel[®] Z75 Express Chipset

- Intel[®] Z75 PCH
- Intel[®] Rapid Storage Manager (RAID 0, 1, 5, 10)

PERIPHERAL CONNECTIVITY

- Two SATA 6.0 Gb/s ports
- Four SATA 3.0 Gb/s ports
- Four SuperSpeed USB 3.0 ports with 5.0 Gb/s link speed (two back panel and two via internal headers)
- Ten Hi-Speed USB 2.0 ports (four back panel ports) and six ports via internal headers)

SYSTEM BIOS

- 64 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

- One PCI Express* 3.0 x16 connector
- One PCI Express* 2.0 x16 connector (x4 Electrical)
 - Two PCI Express* 2.0 x1 connector
 - 5.1 + 2 Intel[®] High Definition Audio⁵
 - Three stack analog audio ports plus internal S/PDIF

headers

- HDMI* and DVI-I Video connectors for Intel® processors with Intel® HD Graphics

Memory Capacity

- Four 240-pin DIMM connectors supporting up to four double-sided DIMMs
- Maximum system memory up to 32 GB⁶ using 8 GB doublesided DIMMs
- Memory Types
- DDR3 2400MHz + O.C. 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 [EDEC 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
- Chassis intrusion detect header

UL 60950-1

microATX

• 0° C to +55° C

Storage Temperature

-20° C to +70° C

- CAN/CSA-C22.2 No. 60950-1
- (Low Voltage Directive 2006/95/EC) EN 60950-1 IEC 60950-1

• 9.6" x 9.6" (24.38 cm x 24.38 cm)

Baseboard Power Requirements • ATX 12 V

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 VCCI V-3, V-4 South Korea KN-22 and KN-24 Taiwan CNS 13438 CISPR 22

ENVIRONMENTAL COMPLIANCE

Europe RoHS (Directive 2002/95/EC) WEEE (Directive 2002/96/EC) China RoHS

1 Warning: Altering clock frequency and/or voltage may (i) reduce system stability and useful life of the system and processor; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional damage; and (v) affect system data integrity. Intel has not tested, and does not warranty, the operation of the processor beyond its specifications.

- 2 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.
- 3 Intel® Hyper-Threading Technology requires a computer system with a procesor 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. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.
- 4 Maximum peak memory bandwidth requires four DDR 3 modules to be populated in each of the blue memory slots. DDR 3 2400 memory support on this motherboard requires advanced knowledge of BIOS and memory tuning; individual results may vary. For specific supported memory for this motherboard, please visit www.intel.com/products/motherboard/ for more details.
- 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.html.
- 6 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.

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Actual Intel® Desktop Board may differ from the image shown.

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For the most current product information, visit www.intel.com/ao/idb



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