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Intel DQ77MK

Intel DQ77MK Motherboard User Manual

Model: DQ77MK

1. PRODUCT OVERVIEW

The Intel DQ77MK motherboard is designed for Intel Core i3, i5, i7, and Xeon processors, featuring an LGA 1155 socket. It supports Intel vPro technology and Trusted Platform Module (TPM), offering DVI-DVI and USB 3.0 connectivity in a micro-ATX form factor. This manual provides essential information for the proper installation, operation, and maintenance of your motherboard.



This image displays the Intel DQ77MK motherboard, highlighting its various components. Visible features include the LGA 1155 CPU socket, four DDR3 DIMM slots (two blue, two black), multiple PCIe expansion slots (blue and white), and the rear I/O panel with DVI, USB, and audio ports.

2. SETUP AND INSTALLATION

2.1 Unpacking and Inspection

Carefully remove the motherboard from its packaging. Inspect the board for any visible damage. Ensure all

accessories listed in the product documentation are present.

2.2 Component Identification

Familiarize yourself with the layout of the motherboard using the provided image in the overview section. Key components include the CPU socket, DIMM slots for memory, PCIe slots for expansion cards, and various connectors for power, storage, and peripherals.

2.3 Installation Steps

1. **Prepare the Chassis:** Ensure your computer case is ready for motherboard installation. Install standoffs in the appropriate locations for a micro-ATX board.
2. **Install the CPU:** Open the LGA 1155 CPU socket lever. Align the Intel Core i3, i5, i7, or Xeon processor with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Gently place the CPU into the socket and close the lever to secure it.
3. **Install the CPU Cooler:** Apply thermal paste (if not pre-applied) and install the CPU cooler according to its manufacturer's instructions. Connect the CPU fan cable to the designated header on the motherboard.
4. **Install RAM:** Open the clips on the DDR3 DIMM slots. Align the memory modules with the slots, ensuring the notch on the module matches the key in the slot. Press firmly on both ends until the clips snap into place. The motherboard supports up to 32 GB of DDR3 memory at 1333 MHz.
5. **Mount the Motherboard:** Carefully place the motherboard into the chassis, aligning the screw holes with the installed standoffs. Secure the motherboard with screws.
6. **Connect Power:** Connect the 24-pin ATX main power connector and the 4-pin or 8-pin CPU power connector from your power supply to the motherboard.
7. **Connect Storage Devices:** Connect SATA data cables from your storage drives (HDDs, SSDs) to the SATA ports on the motherboard. Connect the corresponding power cables from your power supply to the drives.
8. **Connect Front Panel Headers:** Connect the cables from your chassis's front panel (power button, reset button, USB ports, audio jacks, LED indicators) to the corresponding headers on the motherboard. Refer to the motherboard's detailed diagram for correct pin assignments.
9. **Install Expansion Cards:** Insert any necessary PCIe expansion cards (e.g., graphics card, network card) into the appropriate PCIe slots and secure them with the chassis's retention mechanism.
10. **Connect Peripherals:** Connect your monitor, keyboard, mouse, and other external devices to the rear I/O ports.

3. OPERATING INSTRUCTIONS

3.1 First Boot and BIOS Setup

After completing the hardware installation, connect the power cord and turn on your system. During the initial boot, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other essential settings. Save changes and exit to continue.

3.2 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred operating system (e.g., Windows). Ensure the boot order in BIOS is set to prioritize your installation media.

3.3 Driver Installation

After the operating system is installed, install the necessary drivers for the motherboard's components. These typically include chipset drivers, graphics drivers (if using integrated graphics), audio drivers, and network drivers. Drivers can usually be found on the Intel support website for the DQ77MK model.

4. MAINTENANCE

4.1 Cleaning

Regularly clean the interior of your computer case to prevent dust buildup, which can lead to overheating and component failure. Use compressed air to remove dust from fans, heatsinks, and motherboard surfaces. Ensure the system is powered off and unplugged before cleaning.

4.2 BIOS Updates

Periodically check the Intel support website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or fix bugs. Follow the instructions provided by Intel carefully when performing a BIOS update to avoid system damage.

4.3 Component Checks

Occasionally inspect cables and connections to ensure they are secure. Check for any signs of physical damage or bulging capacitors on the motherboard, which may indicate a problem.

5. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, refer to the Intel support website or consult a qualified technician.

- **No Power:** Ensure all power cables (24-pin ATX, CPU power) are securely connected. Verify the power supply is functioning correctly and the power switch on the PSU is in the 'ON' position.
- **No Display:** Check that the monitor is connected to the correct video output port on the motherboard or graphics card. Ensure the monitor is powered on and set to the correct input source. Reseat the graphics card and RAM modules.
- **System Fails to Boot:** Listen for beep codes from the motherboard, which can indicate specific hardware issues (e.g., RAM, CPU, graphics card). Try booting with minimal components (CPU, one RAM stick, graphics card if no integrated graphics) to isolate the problem.
- **Operating System Errors:** If the operating system fails to load or crashes frequently, consider reinstalling drivers, running system diagnostics, or reinstalling the operating system.

6. SPECIFICATIONS

Feature	Specification
Brand	Intel
Model Name	DQ77MK
Item Model Number	BOXDQ77MK

Feature	Specification
CPU Socket	LGA 1155
Compatible Processors	Intel Core i3, i5, i7, Xeon
Memory Clock Speed	1333 MHz
Memory Storage Capacity	32 GB (Max)
Platform	Windows
Main Power Connector Type	24-Pin
Package Dimensions	10.47 x 10.47 x 2.6 inches
Item Weight	4.5 pounds
Manufacturer	Intel
ASIN	B007XZKT2O
Date First Available	August 6, 2012

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This Intel motherboard is covered by a manufacturer's warranty. Please refer to the warranty documentation included with your product or visit the official Intel website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures.

7.2 Technical Support

For technical assistance, driver downloads, or further troubleshooting, please visit the official Intel support website. You can find comprehensive resources, FAQs, and contact information for customer support there.