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> [Duex DX H61ZG Motherboard User Manual](#)

Duex DX-H61ZG-M2

Duex DX H61ZG Motherboard User Manual

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Duex DX H61ZG Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.

SETUP

Package Contents

Before you begin, ensure all items are present in the package:

- Duex DX H61ZG Motherboard
- Driver CD
- I/O Shield
- SATA Cable

Motherboard Layout

Familiarize yourself with the various components and connectors on the motherboard.



Image: The Duex DX H61ZG Motherboard shown alongside its retail box. The motherboard features an LGA 1155 CPU socket, two DDR3 DIMM slots, various expansion slots, and rear I/O ports including VGA, HDMI, USB, and LAN. The retail box displays the Duex logo and "PLACA MÃE DX H61ZG" text.

CPU Installation

This motherboard supports Intel Socket 1155 Core i7/i5/i3 processors.

1. Locate the LGA 1155 CPU socket on the motherboard.
2. Gently lift the load lever and open the CPU socket cover.
3. Align the triangular mark on the CPU with the corresponding mark on the socket.
4. Carefully place the CPU into the socket without forcing it.
5. Close the socket cover and press down the load lever until it locks into place.

Memory Installation

The motherboard supports dual-channel DDR3 1333/1066 SDRAM, with a maximum capacity of 8 GB across two DIMM slots.

1. Locate the two DDR3 DIMM slots.
2. Open the clips at both ends of the memory slot.
3. Align the notch on the DDR3 memory module with the key in the DIMM slot.
4. Insert the memory module firmly into the slot until the clips snap into place.

Storage Device Connection

Connect your SATA storage devices to the available SATA ports.

- The motherboard features 3 x SATA ports.
- Use the provided SATA cable to connect your hard drive or SSD to one of the SATA ports.
- Ensure the power cable from your power supply is also connected to the storage device.

Power Connections

Proper power connections are crucial for system stability.

- Connect the 24-pin ATX power connector from your power supply to the corresponding port on the

motherboard.

- Connect the 4-pin ATX 12V power connector (CPU power) to its designated port near the CPU socket.

Front Panel and USB Connections

Connect the front panel headers from your PC case to the motherboard.

- Connect the front panel audio connector to the front panel audio header.
- Connect the system panel connector (power button, reset button, HDD LED, power LED) to the system panel header. Refer to your case manual for specific pin assignments.
- Connect internal USB headers to support additional USB ports on your case. The motherboard supports 2 x USB connectors for 4 additional USB ports.

OPERATING INSTRUCTIONS

Initial Boot and BIOS Setup

Upon first boot, you may need to configure the BIOS (Basic Input/Output System).

- Power on your system.
- Press the **DEL** key (or **F2**, depending on system) repeatedly during startup to enter the EFI BIOS setup utility.
- Configure boot order, date/time, and other system settings as required.
- Save changes and exit the BIOS.

Driver Installation

After installing your operating system, install the necessary drivers for optimal performance.

1. Insert the provided Driver CD into your optical drive.
2. Follow the on-screen instructions to install chipset, audio, LAN, and other essential drivers.
3. Alternatively, download the latest drivers from the official Duex website.

MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your motherboard.

- Keep the system clean and free of dust. Use compressed air to gently remove dust from components and heatsinks.
- Ensure proper airflow within your PC case to prevent overheating.
- Periodically check all cable connections to ensure they are secure.
- Update BIOS and drivers as recommended by the manufacturer for improved compatibility and performance.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

No Power / System Does Not Boot

- Verify that the 24-pin ATX and 4-pin ATX 12V power connectors are securely plugged into the motherboard.
- Ensure the power supply is functioning correctly and switched on.
- Check front panel connections (power button) for correct polarity and secure fit.
- Try booting with minimal components (CPU, one RAM stick) to isolate the issue.

No Display Output

- Ensure your monitor is connected to the correct video output (VGA or HDMI) on the motherboard or discrete graphics card.
- Verify that the memory modules are properly seated in their slots.
- If using a discrete graphics card, ensure it is properly seated in the PCI Express x16 slot and has adequate power.

Operating System Not Detecting Storage

- Check SATA cable connections to both the motherboard and the storage device.
- Ensure the storage device is receiving power.
- Verify SATA controller settings in the BIOS (e.g., AHCI mode).

SPECIFICATIONS

Detailed technical specifications for the Duex DX H61ZG Motherboard.

Feature	Description
Model	DX-H61ZG-M2
CPU Support	Intel Socket 1155 Core i7/i5/i3 Processors
Chipset	Intel H61
Memory	2 x DDR3 DIMM slots, Dual Channel DDR3 1333/1066 SDRAM, Max 8GB
LAN	Realtek 10/100/1000 Mbps
Audio	Integrated Realtek ALC662 Chip
Expansion Slots	1 x PCI Express x16, 1 x PCI Express x1
Storage	3 x SATA Ports
Internal Connectors	24-pin ATX Power, 4-pin ATX 12V Power, 2 x USB (supports 4 additional ports), LPC_DEBUG, Front Panel Audio, System Panel, M.2
Rear Panel I/O	USB Keyboard, USB Mouse, VGA, HDMI, 4 x USB 2.0, RJ45 LAN, 3 x Audio Jacks
BIOS	EFI BIOS

Feature	Description
Form Factor	Micro ATX, 190 x 170 mm

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Duex website or contact your local retailer.

- Keep your purchase receipt as proof of purchase for warranty claims.
- Before contacting support, ensure you have performed basic troubleshooting steps as outlined in this manual.