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› User Manual: BQTEC D3400-A11 GS 3 Motherboard Compatible with Fujitsu Esprimo P556

BQTEC D3400-A11 GS 3

User Manual: BQTEC D3400-A11 GS 3 Motherboard

Compatible with Fujitsu Esprimo P556

1. PRODUCT OVERVIEW

The BQTEC D3400-A11 GS 3 Motherboard is a professionally refurbished component designed to upgrade and enhance the performance of your Fujitsu Esprimo P556 system. This mATX form factor motherboard features the Intel H110 chipset and an LGA1151 socket, supporting a wide range of compatible Intel processors. It is equipped with two DDR4 memory slots, allowing for significant improvements in system speed and processing efficiency. Each motherboard undergoes rigorous testing to ensure optimal functionality and adherence to high quality and performance standards, providing a reliable and sustainable upgrade solution.



Figure 1: Top-down view of the BQTEC D3400-A11 GS 3 Motherboard, showing the CPU socket, RAM slots, and various connectors.

2. KEY FEATURES

- **Refurbished Quality:** Professionally reconditioned to ensure reliability and high performance.
- **Optimized Compatibility:** Specifically designed for seamless integration with the Fujitsu Esprimo P556.
- **Intel H110 Chipset:** Provides stable and efficient system operation.
- **LGA1151 Socket:** Supports a wide range of Intel processors, offering flexibility for your computing needs.
- **DDR4 Memory Support:** Features 2 memory slots for DDR4 modules, enhancing system speed and efficiency.

- **mATX Form Factor:** Ideal for compact cases, balancing space efficiency with expansion capabilities.
- **Rigorous Testing:** Each unit undergoes extensive testing to guarantee optimal functionality and performance.

3. SETUP AND INSTALLATION

Before beginning the installation process, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

3.1. Preparing Your System

1. **Backup Data:** Always back up important data before performing hardware upgrades.
2. **Gather Tools:** You will need a Phillips head screwdriver, thermal paste (for CPU), and possibly cable ties.
3. **Clear Workspace:** Ensure a clean, well-lit, and static-free environment.

3.2. Motherboard Installation Steps

1. **Remove Old Motherboard (if applicable):** Disconnect all cables, remove expansion cards, and unscrew the old motherboard from the case.
2. **Install I/O Shield:** If your case requires it, install the new motherboard's I/O shield into the rear opening of your computer case.
3. **Install CPU:** Open the CPU socket lever, align the CPU with the triangle/arrow indicator on the socket, gently place the CPU, and close the lever. Apply a small amount of thermal paste and install the CPU cooler.
4. **Install RAM:** Open the clips on the DDR4 memory slots. Align the RAM modules with the notch in the slot and press firmly until the clips snap into place.
5. **Mount Motherboard:** Carefully place the motherboard into the case, aligning the screw holes with the standoffs. Secure the motherboard with screws.
6. **Connect Power Cables:** Connect the 24-pin ATX power connector and the 4/8-pin CPU power connector from your power supply to the motherboard.
7. **Connect Front Panel Cables:** Connect the power button, reset button, HDD LED, and USB/audio headers from your case to the corresponding pins on the motherboard. Refer to your case and motherboard manuals for specific pin layouts.
8. **Connect Storage Devices:** Connect SATA data and power cables to your hard drives/SSDs and the motherboard's SATA ports.
9. **Install Expansion Cards:** Insert any necessary expansion cards (e.g., graphics card) into the appropriate PCIe slots and secure them.



Figure 2: Angled view of the motherboard, highlighting the CPU socket, RAM slots, and various connectors for installation.

4. OPERATING AND INITIAL CONFIGURATION

Once the motherboard is physically installed and all components are connected, you can proceed with initial system configuration.

4.1. First Boot and BIOS/UEFI Setup

Upon the first power-on, the system will typically enter the BIOS (Basic Input/Output System) or UEFI (Unified Extensible Firmware Interface) setup utility. This interface allows you to configure fundamental system settings.

- **Accessing BIOS/UEFI:** During startup, repeatedly press the designated key (commonly DEL, F2, F10, or F12) to enter the setup utility. The exact key may vary; check the on-screen prompts.
- **Date and Time:** Set the correct system date and time.
- **Boot Order:** Configure the boot order to prioritize your operating system drive (e.g., SSD/HDD) or a USB drive for OS installation.
- **SATA Mode:** Ensure the SATA mode is set correctly (e.g., AHCI for modern SSDs).
- **Save and Exit:** Save your changes and exit the BIOS/UEFI. The system will then attempt to boot from the configured device.

4.2. Operating System and Driver Installation

After successful BIOS/UEFI configuration, proceed with installing your operating system (e.g., Windows, Linux). Once the OS is installed, it is crucial to install the latest drivers for your motherboard's components.

- **Chipset Drivers:** Install the Intel H110 chipset drivers for optimal performance and stability.
- **Audio Drivers:** Install drivers for the integrated audio.
- **LAN/Ethernet Drivers:** Install drivers for the network adapter to enable internet connectivity.
- **USB Drivers:** Ensure all USB ports function correctly by installing relevant drivers.
- **Graphics Drivers:** If using integrated graphics, install the appropriate Intel graphics drivers. If using a dedicated graphics card, install drivers from the card manufacturer.

Drivers can typically be found on the manufacturer's website (e.g., BQTEC or Fujitsu support pages for the Esprimo P556, or Intel's website for chipset drivers).

5. MAINTENANCE

Proper maintenance can extend the lifespan of your motherboard and ensure stable system operation.

- **Dust Removal:** Regularly clean dust from inside your computer case using compressed air. Pay attention to heatsinks and fans to prevent overheating.
- **Cable Management:** Ensure cables are neatly organized to improve airflow and prevent obstruction.
- **BIOS/UEFI Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates. These updates can improve compatibility, stability, and performance. Exercise caution when updating BIOS/UEFI, as an interruption can render the motherboard unusable.
- **Driver Updates:** Keep your system drivers updated to ensure optimal performance and compatibility with new software.
- **Environmental Control:** Operate your computer in a cool, dry, and well-ventilated environment to prevent heat and humidity damage.



Figure 3: Rear I/O ports of the motherboard, including USB, Ethernet, audio, and video outputs, which should be kept clean and free of obstructions.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

6.1. Common Issues and Solutions

Problem	Possible Cause	Solution
System does not power on.	Loose power cables, faulty power supply, incorrect front panel connections.	Check 24-pin ATX and 4/8-pin CPU power connections. Verify front panel power switch connection. Test power supply.
No display on monitor.	Incorrect video cable connection, faulty graphics card/integrated graphics, RAM not seated correctly.	Ensure monitor cable is securely connected to the correct port. Reseat RAM modules. Test with a known good graphics card if applicable.
System reboots unexpectedly or crashes.	Overheating, unstable power, faulty RAM, corrupted drivers.	Check CPU cooler installation and fan operation. Ensure power supply is adequate. Run memory diagnostic tools. Update drivers.
USB devices not recognized.	Missing/outdated USB drivers, faulty USB port, incorrect front panel USB connection.	Install/update USB drivers. Test with different USB ports. Verify front panel USB header connection.

If you continue to experience issues, consult the Fujitsu Esprimo P556 system documentation or seek professional technical assistance.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	BQTEC D3400-A11 GS 3
Form Factor	mATX
CPU Socket	LGA 1151
Chipset	Intel H110
RAM Technology	DDR4
Memory Slots	2
Max RAM Capacity	32 GB
Graphics Interface	PCI-Express x16, PCI Express
Ports	12 (various, including DVI, Ethernet, USB, Audio)

8. WARRANTY AND SUPPORT

As a refurbished product, specific warranty terms may vary. Please refer to the seller or retailer from whom you purchased this BQTEC D3400-A11 GS 3 Motherboard for detailed warranty information.

For technical support, driver downloads, or further assistance, please visit the official BQTEC website or contact their customer service. For system-specific information related to the Fujitsu Esprimo P556, consult Fujitsu's official support resources.