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› BooiParts Q965 302DNR6D00941 ATM DDR2 775 Motherboard User Manual

BooiParts NWServerOrz_101500

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Model: NWServerOrz_101500

1. INTRODUCTION

This user manual provides detailed instructions for the installation, configuration, and maintenance of your BooiParts Q965 302DNR6D00941 ATM DDR2 775 Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and operation. This motherboard is designed for desktop systems, supporting LGA 775 processors and DDR2 memory.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling computer components:

- Disconnect the power cord from the wall outlet before touching any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep liquids and moisture away from the motherboard and other electronic components.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- BooiParts Q965 302DNR6D00941 ATM DDR2 775 Motherboard
- (Optional) SATA Data Cables
- (Optional) I/O Shield
- (Optional) Driver CD/DVD
- (Optional) User Manual (this document)

Note: Actual accessories may vary based on the specific retail package.

4. COMPONENT OVERVIEW

Familiarize yourself with the main components and connectors on your motherboard:



Figure 4.1: BooiParts Q965 302DNR6D00941 ATM DDR2 775 Motherboard layout. This image displays the full motherboard, highlighting key areas such as the CPU socket, RAM slots, expansion slots, and I/O ports.

1. **CPU Socket (LGA 775):** Located centrally, this socket is designed for Intel LGA 775 processors.
2. **DDR2 DIMM Slots:** Two or four slots (typically blue and white) for installing DDR2 memory modules.
3. **PCI Express x16 Slot:** (If present, usually the longest slot) For graphics cards.
4. **PCI Slots:** Multiple white slots for older expansion cards like sound cards or network cards.
5. **SATA Ports:** (Typically red or black) Connectors for SATA hard drives and SSDs. This model features 4 SATA ports.
6. **ATX Power Connectors:** Main 24-pin and 4-pin (or 8-pin) CPU power connectors.

7. **Front Panel Connectors:** Pins for power button, reset button, HDD LED, power LED, and front USB/audio ports.
8. **I/O Panel:** Rear connectors for USB, Ethernet, audio, PS/2, VGA, and serial/parallel ports.
9. **Chipset Heatsinks:** Metal fins covering the Northbridge and Southbridge chips for cooling.

5. SETUP AND INSTALLATION

Follow these steps to install your motherboard and other components:

5.1. Preparing the Case

1. Open your computer case and install the I/O shield into the designated opening at the rear of the case.
2. Install the necessary standoffs in your case that align with the screw holes on the motherboard.

5.2. CPU Installation

1. Locate the LGA 775 CPU socket on the motherboard.
2. Gently push down the load lever and pull it away from the socket to open the CPU retention plate.
3. Carefully align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Do not force the CPU into the socket.
4. Close the retention plate and push the load lever back into its locked position.
5. Apply a thin layer of thermal paste to the CPU (if not pre-applied to the cooler) and install the CPU cooler according to its manufacturer's instructions.

5.3. RAM Installation

1. Open the clips at both ends of the DDR2 DIMM slots.
2. Align the notch on the DDR2 memory module with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

5.4. Motherboard Mounting

1. Carefully place the motherboard into the case, aligning the screw holes with the installed standoffs.
2. Secure the motherboard with screws, ensuring not to overtighten.

5.5. Connecting Peripherals

1. **Power Supply:** Connect the 24-pin ATX power connector and the 4-pin (or 8-pin) CPU power connector from your power supply to the motherboard.
2. **Storage Devices:** Connect SATA data cables from your hard drives/SSDs to the SATA ports on the motherboard. Connect power cables from the power supply to your storage devices.
3. **Expansion Cards:** Insert graphics cards into the PCI Express x16 slot and other expansion cards into the PCI slots, securing them with the case's retention mechanism.
4. **Front Panel:** Connect the power button, reset button, HDD LED, power LED, and front USB/audio cables to their respective headers on the motherboard. Refer to the motherboard's silkscreen labels for correct pin assignments.
5. **Case Fans:** Connect case fans to the fan headers on the motherboard.

6. OPERATING INSTRUCTIONS

6.1. First Boot

After assembling all components, connect your monitor, keyboard, and mouse. Power on the system. The system should perform a Power-On Self-Test (POST) and display the BIOS/UEFI splash screen. If the system does not boot, refer to the

Troubleshooting section.

6.2. BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the designated key (usually **DEL**, **F2**, or **F10**) during the POST process. In the BIOS/UEFI, you can configure system settings such as boot order, date/time, CPU settings, and memory timings. Save changes before exiting.

6.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's chipsets, audio, network, and other integrated components. These drivers are typically provided on a driver CD/DVD or can be downloaded from the manufacturer's website.

7. MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard:

- **Cleaning:** Regularly clean dust from inside your computer case, especially from heatsinks and fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the manufacturer's website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or fix bugs. Follow the update instructions carefully to avoid damaging the motherboard.
- **Component Checks:** Periodically check all cable connections to ensure they are secure.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power supply is connected correctly to the motherboard (24-pin and 4-pin/8-pin CPU power).
 - Verify the power supply switch is in the ON position.
 - Check if the front panel power button cable is correctly connected to the motherboard header.
- **No Display:**
 - Ensure the monitor is connected to the correct video output (either integrated graphics or discrete graphics card).
 - Reseat the graphics card and memory modules.
 - Try booting with only one RAM stick.
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures. Ensure coolers are properly installed.
 - Run memory diagnostic tools to check for faulty RAM.
 - Ensure all drivers are up to date.

- **POST Beep Codes:**

Different beep codes indicate specific hardware issues. Consult your motherboard's specific documentation or the BIOS manufacturer's website (e.g., AMI, Award, Phoenix) for a list of beep code meanings.

9. SPECIFICATIONS

Feature	Description
Manufacturer	BooiParts
Model Number	NWServerOrz_101500
ASIN	B09Y75WF3F
RAM Technology	DDR2
Max Memory Storage Capacity	8 GB
Total SATA Ports	4
CPU Socket	LGA 775 (Implied by Q965 chipset and DDR2)
Chipset	Q965 (Implied by product title)

Note: Specifications are subject to change without notice.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official BooiParts website. Keep your proof of purchase for warranty claims.
If you require further assistance, please contact BooiParts customer service.

