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HP MS-7500

HP dc5850 SFF Motherboard MS-7500 User Manual

Model: MS-7500, Part Number: 461537-001

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your HP dc5850 Small Form Factor (SFF) PC Motherboard, model MS-7500. Please read this guide thoroughly before proceeding with any installation or configuration to ensure proper functionality and system stability.

2. Product Overview

The HP dc5850 SFF Motherboard (MS-7500, SPS: 461537-001) is designed for compact desktop systems, offering a robust platform for computing tasks. It features an AM2 socket for compatible AMD processors and supports DDR2 RAM.

Key Features:

- Designed for HP Compaq dc5850 Small Form Factor PCs.
- SPS (Spare Part Number): 461537-001.
- Board Model: MS-7500.
- CPU Socket: AM2.
- RAM Memory Slots: 4.

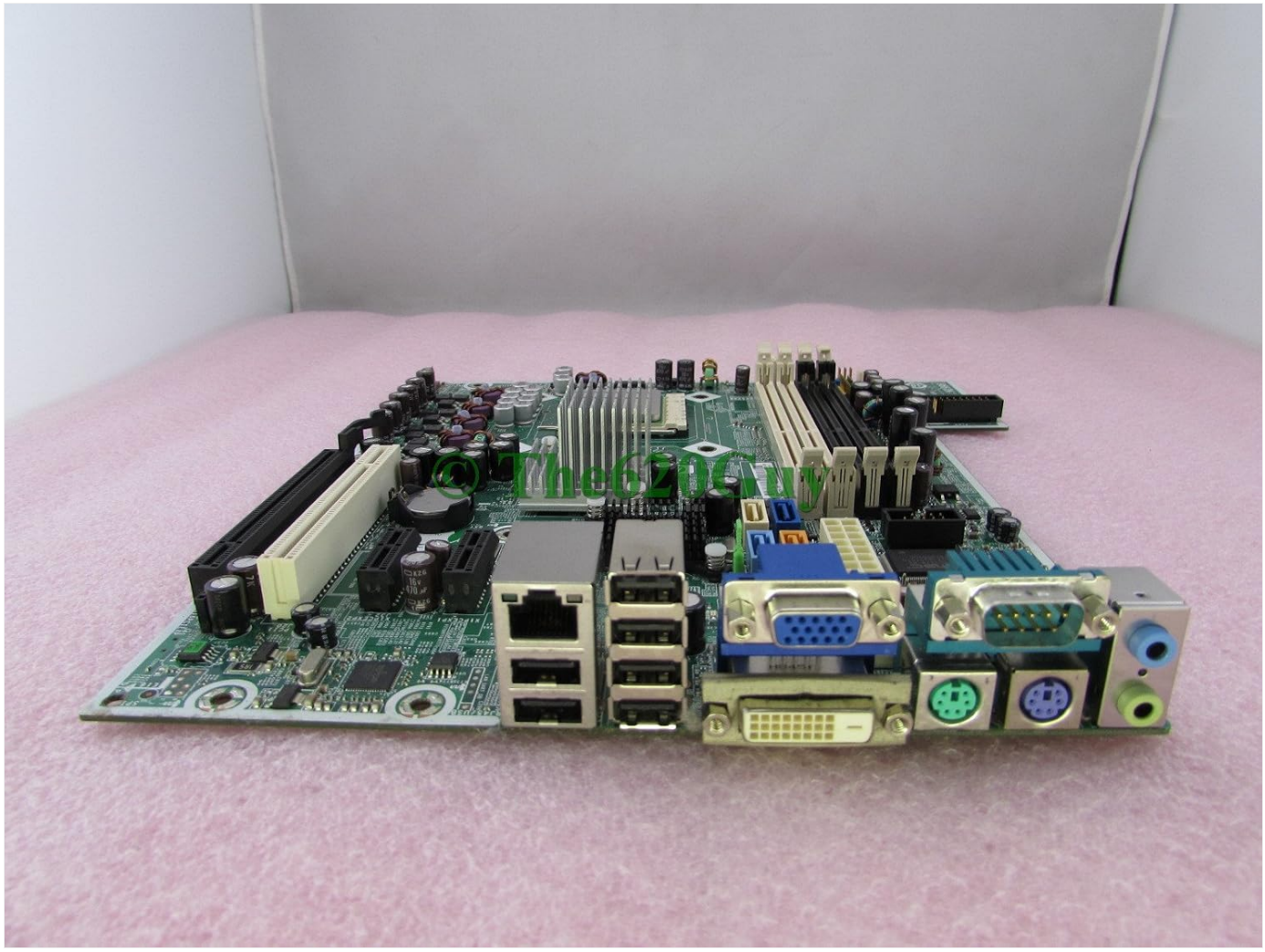


Figure 2.1: Overview of the HP dc5850 SFF Motherboard (MS-7500) showing various ports and components.

3. Component Identification

3.1 CPU Socket

The motherboard features an AM2 socket, compatible with AMD X2 processors. Ensure proper alignment and gentle installation of the CPU to prevent damage to the pins.



Figure 3.1: Close-up view of an AMD Athlon CPU installed on the motherboard, indicating the processor type.

3.2 Memory Slots

There are four DDR2 memory slots available on the motherboard. Install memory modules in pairs for optimal performance, following the motherboard's specific channel configuration.

3.3 Expansion Slots

The motherboard includes PCI and PCI Express slots for adding expansion cards such as graphics cards, network cards, or other peripherals.

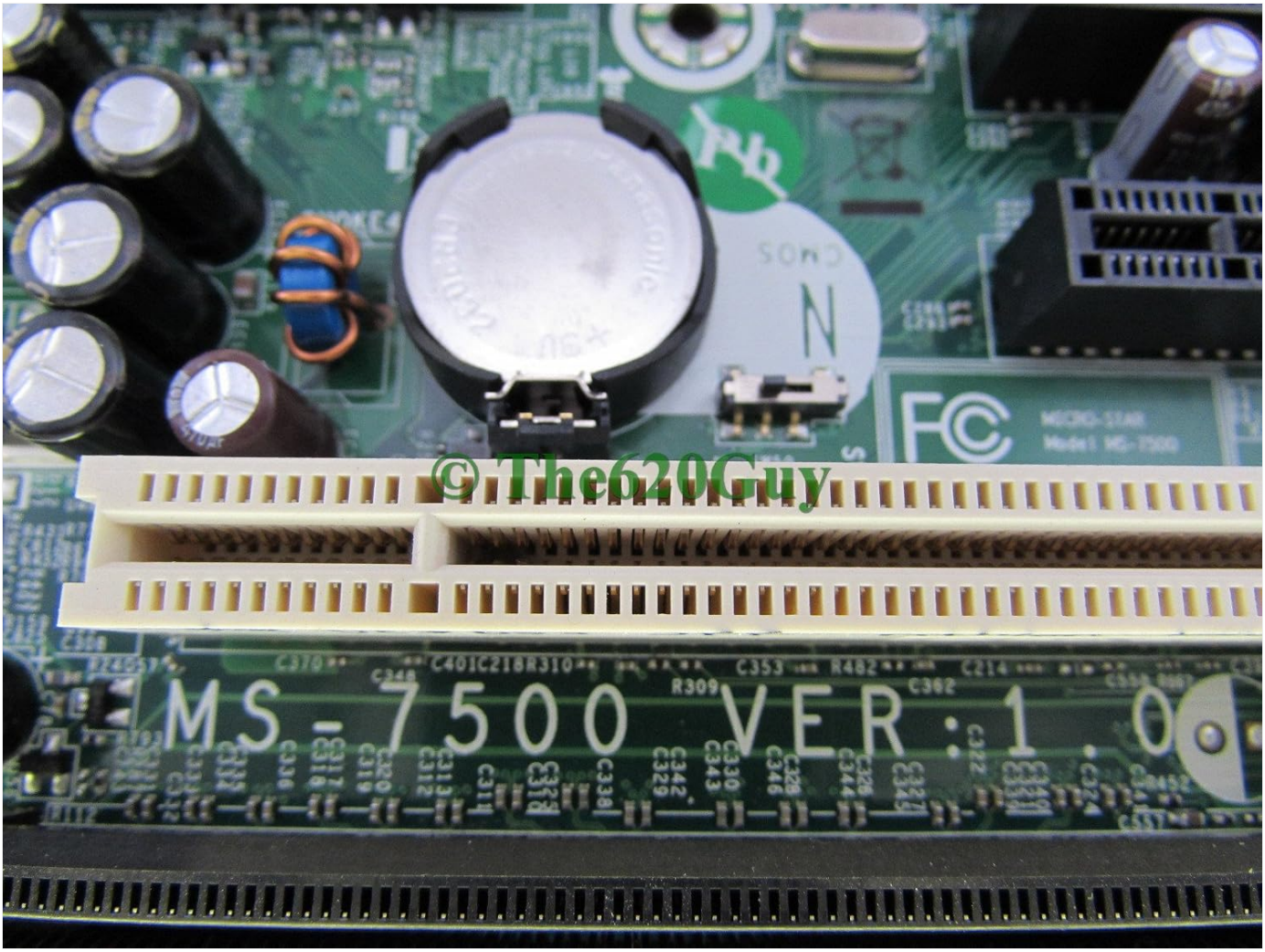


Figure 3.2: View of the PCI and PCI Express expansion slots, along with the CMOS battery, on the MS-7500 motherboard.

3.4 Connectors and Ports

The motherboard provides various connectors for power, storage devices (SATA), and front panel headers. Rear I/O ports include USB 2.0, VGA, DVI, Ethernet, and audio jacks.

3.5 Model and Part Numbers

Important identification numbers for the motherboard are located on a label, including the SPS number and the board model.

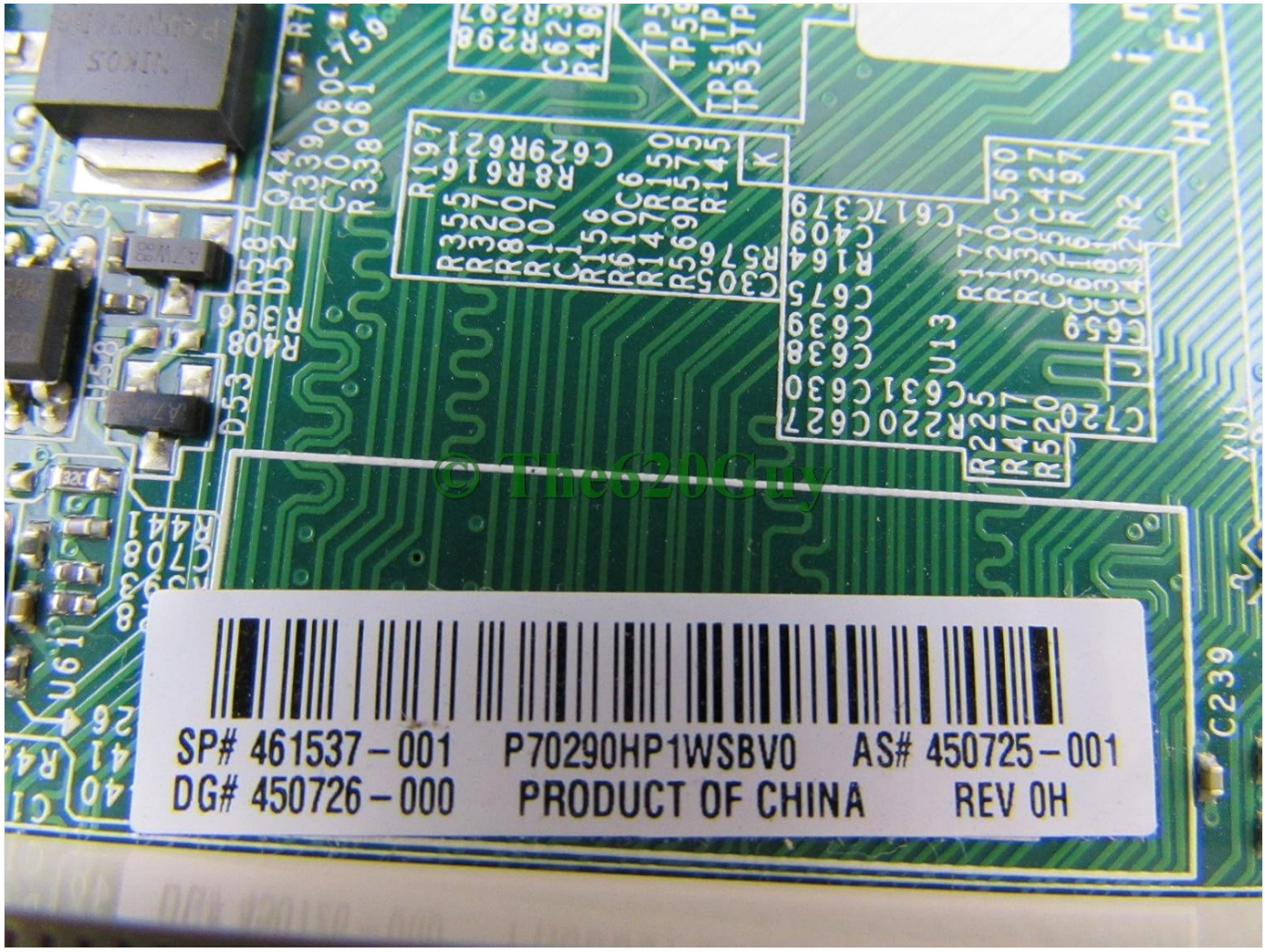


Figure 3.3: Barcode label displaying the SPS number (461537-001), P70290HP1WSBV0, and other manufacturing details for the motherboard.

4. Setup and Installation

4.1 Before You Begin

- **Safety First:** Always disconnect the power supply from the wall outlet before installing or removing any components.
- **Static Electricity:** Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity, which can damage electronic components.
- **Tools:** Have a Phillips head screwdriver and a clean, well-lit workspace.

4.2 Motherboard Installation

1. **Prepare the Chassis:** Ensure the PC case is ready for motherboard installation, with standoffs correctly aligned.
2. **Install CPU:** Carefully open the CPU socket lever, align the CPU with the socket (matching the triangle indicator), gently place it, and close the lever.
3. **Install CPU Cooler:** Attach the appropriate CPU cooler according to its instructions.
4. **Install RAM:** Open the clips on the memory slots, align the RAM modules with the notch, and press down firmly until the clips snap into place.
5. **Mount Motherboard:** Carefully place the motherboard into the chassis, aligning the screw holes with the standoffs. Secure it with screws.
6. **Connect Power:** Attach the 24-pin ATX power connector and the 4-pin CPU power connector from the power supply to the motherboard.

7. **Connect Peripherals:** Connect SATA cables for storage drives, front panel connectors (power button, reset, USB, audio), and any expansion cards.

5. Operating Your System

5.1 Initial Power On

After installation, connect your monitor, keyboard, and mouse. Power on the system. The system should perform a Power-On Self-Test (POST). If successful, you will see the BIOS/UEFI screen or the operating system boot sequence.

5.2 BIOS/UEFI Configuration

To access the BIOS/UEFI setup, press the designated key (often F2, F10, Del, or Esc) during the initial boot sequence. Here you can configure boot order, system time, and other hardware settings.

5.3 Driver Installation

After installing your operating system, it is crucial to install the latest drivers for the motherboard's chipset, integrated graphics, audio, and network components. These can typically be found on the HP support website for the dc5850 SFF model.

6. Maintenance

6.1 General Care

- **Keep Clean:** Regularly clean dust from inside the PC case using compressed air. Dust accumulation can lead to overheating.
- **Ventilation:** Ensure adequate airflow around the PC to prevent heat buildup.
- **Cable Management:** Organize internal cables to improve airflow and prevent interference.

6.2 BIOS Updates

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

7. Troubleshooting

7.1 Common Issues

- **No Power:** Check all power connections (24-pin ATX, 4-pin CPU, power supply to wall). Ensure the power supply switch is on.
- **No Display:** Verify monitor connection and power. Reseat the graphics card (if applicable) and RAM modules. Try booting with minimal components.
- **POST Beep Codes:** Refer to the HP documentation for specific beep codes, which indicate hardware issues.
- **System Instability:** Ensure all drivers are up to date. Check for overheating. Test memory modules individually.

For more detailed troubleshooting, consult the official HP support resources for the dc5850 SFF series.

8. Specifications

Detailed Specifications for HP dc5850 SFF Motherboard (MS-7500)

Feature	Specification
Brand	HP
CPU Socket	Socket AM2
Compatible Devices	PC
Compatible Processor	AMD X2
Chipset Type	AMD 780V
Processor Socket	Socket AM2
Compatible Processor Type	AMD X2
Memory Clock (MHz)	800 MHz
Platform	Windows XP (Note: May support newer OS with appropriate drivers)
Memory Media Storage Capacity	8 GB (Maximum supported)
Memory Size	8 GB (Maximum supported)
Main Power Connector Type	24-pin
Graphics Card Interface	PCI, PCI Express
Number and Type of Memory Slots	4 (DDR2)
USB 2.0 Ports	6
Model Number	MS-7500 VER:1.0
Manufacturer Part Number	461537-001
UPC	640626033909
ASIN	B00M3QASME
GTIN	640626033909

9. Warranty and Support

This product is typically covered by the warranty terms provided by HP at the time of purchase. For specific warranty details, technical support, driver downloads, and further documentation, please visit the official HP support website and search for the HP Compaq dc5850 Small Form Factor PC or the motherboard model MS-7500.

HP Support Website: www.hp.com/support

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