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Model: M985G

1. INTRODUCTION

The PCChips M985G I915GV Motherboard is an advanced and unique module designed for optimal performance in personal computer systems. It supports a range of Intel processors and features modern connectivity options.

Key Features:

- Supports Intel Pentium 4/Celeron D processors with up to 800MHz Front Side Bus (FSB).
- Compatible with DDR 400 and DDR2 533 memory modules, supporting dual channel configurations.
- Features PCI Express, Serial-ATA, and USB 2.0 connectivity.
- Integrated Intel GMA900 graphics with 128MB shared memory.
- Provides 6-Channel Audio for enhanced sound experience.

2. PRODUCT OVERVIEW

This section provides a visual overview of the PCChips M985G I915GV Motherboard, highlighting its main components and connectors.



Figure 2.1: Full view of the PCChips M985G I915GV Motherboard. This image displays the overall layout, including the CPU socket, memory slots, expansion slots, and various connectors.



Figure 2.2: Labeled diagram of the PCChips M985G I915GV Motherboard. This diagram points out important components such as the Intel 915GV Northbridge Chipset, Socket 775 Connector, DDR2 and DDR Memory slots, ATX Power Connector, IDE Header, SATA Headers, PCI Express and standard PCI Slots, USB 2.0 Headers, and Back Panel Connectors.

3. SETUP AND INSTALLATION

This section provides general guidelines for installing the PCChips M985G I915GV Motherboard into a computer chassis and connecting essential components. Always ensure power is disconnected before handling components.

3.1. Pre-Installation Checklist

- Ensure you have a compatible CPU (Intel Pentium D/Pentium 4/Celeron D with LGA 775 socket).
- Verify your power supply meets the motherboard's power requirements.
- Gather necessary tools: screwdriver, anti-static wrist strap.

3.2. Motherboard Installation

1. Install the I/O shield into the computer chassis.
2. Carefully align the motherboard with the standoffs in the chassis.
3. Secure the motherboard with screws.

3.3. Component Installation

1. **CPU Installation:** Open the CPU socket lever, align the CPU (Intel Pentium D/Pentium 4/Celeron D) with the socket's notch, gently place it, and close the lever. Apply thermal paste and install the CPU cooler.
2. **Memory Installation:** Open the clips on the DDR and/or DDR2 memory slots. Align the memory modules (DDR400/DDR2 533) with the slot key and press firmly until the clips snap into place. For dual channel, refer to your chassis manual for specific slot pairing.
3. **Power Connections:** Connect the 20/24-pin ATX power connector and the 4-pin CPU power connector from your power supply to the motherboard.
4. **Storage Devices:** Connect SATA drives to the SATA headers and/or IDE drives to the IDE header using appropriate cables.
5. **Expansion Cards:** Insert PCI Express graphics cards into the PCI-E x16 slot and other expansion cards into the PCI-E x1 or standard PCI slots.
6. **Front Panel Connections:** Connect the front panel headers (power button, reset button, HDD LED, power LED, USB 2.0, audio) to their respective pins on the motherboard. Refer to the motherboard diagram (Figure 2.2) for header locations.

4. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

4.1. First Boot

1. Connect your monitor, keyboard, and mouse.
2. Connect the power cord to the power supply and turn on the power supply switch.
3. Press the power button on your computer case.
4. The system should boot to the BIOS/UEFI screen.

4.2. BIOS/UEFI Configuration

Access the BIOS/UEFI setup by pressing the designated key (usually **DEL** or **F2**) during startup. Here you can configure boot order, system time, and other hardware settings. Save changes before exiting.

4.3. Operating System Installation

Insert your operating system installation media (e.g., Windows, Linux) and follow the on-screen prompts to install the OS. Ensure all necessary drivers (chipset, audio, LAN, graphics) are installed after the OS installation for optimal performance.

5. MAINTENANCE

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

5.1. Dust Removal

Regularly clean dust from inside your computer case, especially around the CPU cooler, chipset heatsinks, and fan vents. Use compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.

5.2. Driver Updates

Keep your motherboard drivers (chipset, audio, network, integrated graphics) updated. Visit the PCChips support website for the latest driver versions.

5.3. BIOS/UEFI Updates

Only update the BIOS/UEFI if necessary, following the manufacturer's instructions carefully. Incorrect updates can render the motherboard inoperable.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Loose power connections, faulty power supply, incorrect front panel wiring.	Check all power cables (20/24-pin ATX, 4-pin CPU). Verify front panel power switch connection. Test power supply.
No display on monitor.	Loose video cable, incorrect monitor input, faulty RAM, unseated graphics card (if dedicated).	Ensure monitor cable is securely connected. Select correct input on monitor. Reseat RAM modules. If using a dedicated GPU, reseat it. Try integrated graphics if available.
System beeps during startup.	BIOS POST error codes (e.g., memory error, graphics error).	Consult the motherboard's beep code guide (often found in the full manual or online) to diagnose the specific issue. Common causes are RAM or graphics card issues.
Operating system not loading.	Incorrect boot order, corrupted OS, faulty storage drive.	Check boot order in BIOS/UEFI. Run OS repair tools. Test storage drive.

7. SPECIFICATIONS

Detailed technical specifications for the PCChips M985G I915GV Motherboard.

Feature	Detail
Manufacturer	PCChips
Model	M985G I915GV
CPU Socket	LGA 775
Compatible Processors	Intel Celeron D, Intel Pentium 4, Intel Pentium
Chipset Type	Intel (Intel 915GV Northbridge, Intel ICH6 Southbridge)
RAM Memory Technology	DDR, DDR2 (DDR400, DDR2 533)
Memory Clock Speed	Up to 800 MHz FSB (for CPU), DDR400/DDR2 533 (for RAM)
Graphics Card Interface	PCI-Express x4, PCI Express (also integrated Intel GMA900)
Audio	6-Channel Audio
USB Ports	8 USB 2.0 ports
Storage Interfaces	4 Serial ATA, IDE Header
Compatible Devices	Personal Computer
Platform	Linux (as per product specifications, though generally OS agnostic)

8. WARRANTY INFORMATION

Specific warranty details for the PCChips M985G I915GV Motherboard are typically provided at the point of purchase or on the manufacturer's official website. Please retain your proof of purchase for warranty claims.

For information regarding extended protection plans, please refer to the details provided by your retailer or service provider.

9. SUPPORT AND CONTACT

For technical support, driver downloads, or further assistance with your PCChips M985G I915GV Motherboard, please visit the official PCChips support website or contact their customer service department.

It is recommended to have your motherboard model number (M985G) and serial number ready when contacting support.

