

GIGABYTE GA-M61PME-S2 AM2 SOCKET MOTHERBOARD



Gigabyte GA-M61PME-S2 AM2 Socket Motherboard User's Manual

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Gigabyte GA-M61PME-S2 AM2 Socket Motherboard



Introduction

The Gigabyte GA-M61PME-S2 AM2 Socket Motherboard is part of GIGABYTE Technology's latest S series motherboards designed for AMD socket AM2 platforms. It features two innovative technologies: Safe and Smart Technologies, making it a reliable and user-friendly motherboard for AMD processors. This motherboard supports AMD Athlon and Sempron processors, high-performance dual-channel DDR2 800 memory, integrated NVIDIA CineFX 3.0 Graphics Engine, NVIDIA SATA 3Gb/s with RAID function, integrated 10/100 Ethernet solution, and more. It's also RoHS-compliant for green computing.

Specifications

- **CPU:** Socket AM2 for AMD Athlon™64 FX / Athlon™64 X2 Dual-Core / Athlon™64 / Sempron™ processor
- **Chipset:** NVIDIA GeForce 6100 / nForce 430 chipset, Super I/O: ITE IT8716 chip
- **Memory:** 2 DDR2 DIMM memory slots (supports up to 8GB memory), Supports dual-channel DDR2 800/667/533/400 DIMMs, Supports 1.8V DDR2 DIMMs
- **Expansion Slots:** 1 PCI Express x16 slot, 1 PCI Express x1 slot, 2 PCI slots
- **Internal I/O Connectors:** Various connectors including power connectors, IDE connectors, SATA connectors, fan connectors, USB connectors, audio connectors, and more.
- **Back Panel Connectors:** PS/2 keyboard and mouse ports, parallel port, COM port, VGA port, USB ports, RJ-45 Ethernet port, audio jacks (Line In/Line Out/MIC In).
- **H/W Monitoring:** Monitors system voltage, CPU/system temperature, and fan speed, with support for CPU Smart Fan function.
- **BIOS:** 4Mbit flash ROM with licensed AWARD BIOS, PnP 1.0a, DMI 2.0, SM BIOS 2.3, ACPI 1.0b
- **Form Factor:** Micro ATX form factor; 24.4cm x 22.5cm
- **Other Features:** Supports @BIOS, Download Center, Q-Flash, EasyTune, Xpress Install, Xpress Recovery2, and Xpress BIOS Rescue.

Box Contents

The specific box contents for the Gigabyte GA-M61PME-S2 AM2 Socket Motherboard may vary depending on the manufacturer's package, but typically, it should include:

1. Gigabyte GA-M61PME-S2 AM2 Socket Motherboard
2. User Manual and Installation Guide
3. Driver and Software CD
4. Rear I/O Panel Shield
5. SATA Cables
6. IDE Cable
7. FDD Cable (if applicable)
8. CPU and Memory Installation Guide
9. Quick Start Guide or Poster (if applicable)

Frequently Asked Questions

What processors are supported by the Gigabyte GA-M61PME-S2 motherboard?

This motherboard supports AMD Athlon 64 FX, Athlon 64 X2 Dual-Core, Athlon 64, and Sempron processors.

How much memory can I install on this motherboard?

The motherboard has two DDR2 DIMM memory slots and supports up to 8GB of memory. It supports dual-channel DDR2 800/667/533/400 DIMMs.

Does this motherboard have integrated graphics?

Yes, it features integrated NVIDIA CineFX 3.0 Graphics Engine, making it suitable for basic graphics needs.

What storage options are available on this motherboard?

The motherboard includes SATA 3Gb/s connectors and supports RAID for enhanced data protection and performance.

Is this motherboard suitable for gaming?

While it can handle basic graphics, it may not provide the best gaming performance. Gamers typically opt for motherboards with dedicated gaming features.

What is the form factor of this motherboard?

It has a Micro ATX form factor, measuring 24.4cm x 22.5cm.

Can I use Windows 10 on this motherboard?

Windows 10 support would depend on driver availability. Check the manufacturer's website for compatibility and driver updates.

What is the maximum power supply wattage required for this motherboard?

The power supply requirements can vary based on your system components, but typically, a 400W or higher power supply is recommended.

Is this motherboard energy-efficient?

Yes, it mentions compliance with Energy Star 4.0, which promotes energy-efficient computing.

Does it have support for High Definition Audio?

Yes, it features 6-channel High Definition Audio for improved sound quality.

Can I install Windows 7 or Windows 8 on this motherboard?

Yes, the motherboard is compatible with Windows 7 and Windows 8. You can install these operating systems, but make sure to check for the latest drivers on the Gigabyte website.

What is the purpose of the Dual BIOS technology mentioned?

Dual BIOS technology provides backup BIOS support. If the main BIOS gets corrupted during a BIOS update or due to any other reason, the backup BIOS can restore the system to a working state.

Reference: [Gigabyte GA-M61PME-S2 AM2 Socket Motherboard User's Manual-device.report](#)

References

- [User Manual](#)