

## AMD AD3400JGXBOX

# AMD A4-3400 APU Processor Instruction Manual

Model: AD3400JGXBOX

## 1. PRODUCT OVERVIEW

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The AMD A4-3400 Accelerated Processing Unit (APU) is a dual-core processor designed for the Socket FM1 platform. It integrates a CPU with AMD Radeon HD 6410D graphics, offering a combined processing solution. This APU supports DirectX 11 and is engineered for energy efficiency, providing a foundation for mainstream computing systems.

Key features include its dual-core architecture operating at 2.7GHz, 1MB L2 cache, and a Thermal Design Power (TDP) of 65W. The integrated Radeon HD 6410D graphics (with 160 cores) enables smooth HD video playback and supports dual-graphics configurations when paired with select AMD Radeon HD 6000 series graphics cards, enhancing visual performance for compatible applications and games.



Figure 1: AMD A4-3400 APU Retail Packaging. This image displays the retail packaging for the AMD A4-3400 APU. The box highlights key features such as 'UNRIVALED DIRECTX® 11 SUPPORT' and 'AMD Radeon™ HD graphics with DirectX® 11 support'. It also shows various applications and games, emphasizing the processor's capabilities.

## 2. SETUP AND INSTALLATION

This section provides general guidelines for installing your AMD A4-3400 APU. Always refer to your motherboard's specific instruction manual for detailed, model-specific installation procedures, as steps may vary.

### 2.1 Safety Precautions

- Ensure your computer is powered off and unplugged from the wall outlet before beginning installation.
- Discharge static electricity by touching a grounded metal object (e.g., the computer chassis) or by wearing an anti-static wrist strap.
- Handle the APU by its edges only. Avoid touching the gold contacts or the pins (if applicable).

### 2.2 APU Installation Steps

1. **Prepare the Motherboard:** Locate the Socket FM1 on your motherboard. Open the CPU socket lever.
2. **Insert the APU:** Carefully align the triangular mark on the APU with the corresponding mark on the socket. Gently lower the APU into the socket without forcing it. If it does not seat easily, re-check alignment.
3. **Secure the APU:** Close the CPU socket lever to secure the APU in place.

4. **Apply Thermal Paste:** Apply a small amount of high-quality thermal paste (typically a pea-sized dot) to the center of the APU's integrated heat spreader (IHS).
5. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions. Ensure it makes firm, even contact with the APU's IHS. Connect the CPU cooler fan cable to the designated header on the motherboard (usually labeled "CPU\_FAN").
6. **Connect Power:** Reconnect all necessary power cables to the motherboard and other components.

After installation, power on your system and enter the BIOS/UEFI setup to verify that the APU is recognized correctly and to configure any necessary settings.

## 3. OPERATION

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The AMD A4-3400 APU functions as the central processing unit and graphics processor for your computer system. Once installed and configured, it operates automatically to execute instructions and render graphics.

### 3.1 Core Functionality

- **CPU Processing:** The dual-core CPU handles general computing tasks, running applications, and managing system processes.
- **Integrated Graphics:** The AMD Radeon HD 6410D graphics unit processes visual data, enabling display output, video playback, and light gaming without the need for a separate graphics card.
- **DirectX 11 Support:** Provides compatibility with modern graphics APIs for enhanced visual effects in supported software.
- **Dual Graphics Ready:** For improved graphics performance, the APU can operate in a dual-graphics configuration with select discrete AMD Radeon HD 6000 series graphics cards. This feature allows the integrated and discrete GPUs to work together.

### 3.2 System Performance

The overall performance of your system with the A4-3400 APU will depend on other components such as RAM, storage, and the operating system. Ensure your system drivers, especially graphics drivers, are up-to-date for optimal performance. Drivers can be downloaded from the official AMD website.

## 4. MAINTENANCE

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Proper maintenance ensures the longevity and stable operation of your AMD A4-3400 APU and the entire system.

### 4.1 Cooling System Maintenance

- **Dust Removal:** Periodically clean dust from the CPU cooler heatsink and fan using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Airflow:** Ensure your computer case has adequate airflow. Keep intake and exhaust vents clear of obstructions.
- **Thermal Paste:** If the CPU cooler is ever removed, it is crucial to clean off old thermal paste from both the APU and the cooler base, and apply new thermal paste before re-installing the cooler.

### 4.2 Software Maintenance

- **Driver Updates:** Keep your AMD chipset and graphics drivers updated to ensure optimal performance and compatibility. Visit the official AMD website for the latest drivers.
- **Operating System Updates:** Regularly update your operating system to benefit from performance improvements and security patches.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your AMD A4-3400 APU.

### 5.1 No Display / System Not Booting

- **Check APU Seating:** Ensure the APU is correctly seated in the Socket FM1 and the retention lever is fully closed.
- **Verify Cooler Installation:** Confirm the CPU cooler is properly installed and its fan is connected to the motherboard's CPU\_FAN header.
- **Motherboard Compatibility:** Ensure your motherboard supports the AMD A4-3400 APU and has the correct BIOS version. Refer to your motherboard manufacturer's CPU support list.
- **RAM Check:** Incorrectly seated or faulty RAM can prevent booting. Re-seat RAM modules or test with one module at a time.

### 5.2 Overheating Issues

- **Cooler Contact:** Ensure the CPU cooler makes full and even contact with the APU's integrated heat spreader.
- **Thermal Paste:** Verify that thermal paste was applied correctly and is not dried out. Reapply if necessary.
- **Dust Buildup:** Clean any dust from the CPU cooler heatsink and fan.
- **Case Airflow:** Improve case airflow by ensuring fans are working and cables are managed to avoid obstruction.

### 5.3 System Instability / Crashes

- **Driver Issues:** Update your AMD chipset and graphics drivers to the latest versions.
- **BIOS Settings:** Reset BIOS to default settings or update to the latest stable BIOS version for your motherboard.
- **Power Supply:** Ensure your power supply unit (PSU) provides sufficient and stable power to all components.

## 6. SPECIFICATIONS

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Feature	Detail
Brand	AMD
Model Number	AD3400OJGXBOX
CPU Manufacturer	AMD
CPU Model	AMD A Series (A4-3400)
CPU Speed	2.7 GHz
CPU Socket	Socket FM1
Processor Count	2 (Dual-Core)
Secondary Cache (L2)	1 MB
Integrated Graphics	AMD Radeon HD 6410D (160 Cores)

Feature	Detail
Graphics API Support	DirectX 11
Thermal Design Power (TDP)	65 Watts
Platform Compatibility	Windows 7 (and later compatible operating systems)
Item Weight	0.13 Kilograms
GTIN / UPC	168141504396, 230494840107, 115970725195, 320127534432

## 7. WARRANTY AND SUPPORT

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For detailed information regarding the warranty coverage for your AMD A4-3400 APU, please refer to the official AMD website or the documentation included with your purchase. Warranty terms can vary based on region and retailer.

For technical support, driver downloads, and additional resources, visit the official AMD support portal:

<https://www.amd.com/support>

When contacting support, have your product model number (AD3400OJGXBOX) and any relevant system information ready.