AMD FD6350FRHKBOX

AMD FX-6350 6-Core Processor Instruction Manual

Model: FD6350FRHKBOX

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your AMD FX-6350 6-Core Processor. The AMD FX-6350 is designed to deliver robust performance for multitasking and demanding applications, featuring a 3.9 GHz base clock speed and AMD's 'Bulldozer' architecture.
Key features of the AMD FX-6350 processor include:

- **6-Core Architecture:** Provides efficient processing for multiple tasks simultaneously.
- **3.9 GHz Base Clock Speed:** Ensures responsive performance for various computing needs.
- **AMD Turbo CORE Technology:** Dynamically adjusts clock speeds to boost performance when needed.
- **Unlocked Multiplier:** Allows for easy overclocking to achieve higher performance (requires adequate cooling).
- **32nm Die Shrink:** Designed for improved efficiency and thermal management.

Figure 1: AMD FX-6350 Processor retail packaging. The image displays the processor box, featuring the AMD FX logo and 'Black Edition' branding, indicating an unlocked processor.

2. INSTALLATION AND SETUP

2.1. Before You Begin

Ensure you have the following components and observe necessary precautions:

- Compatible AM3+ socket motherboard.
- Adequate CPU cooler (stock or aftermarket).
- Thermal paste (if not pre-applied to cooler).
- Anti-static wrist strap or discharge static electricity by touching a grounded metal object.
- Screwdriver for cooler installation.

2.2. Processor Installation Steps

1. **Prepare Motherboard:** With the system powered off and unplugged, open the CPU socket lever on your motherboard.

2. **Insert Processor:** Carefully align the triangular arrow on the processor with the corresponding arrow on the CPU socket. Gently lower the processor into the socket without forcing it. If it does not seat easily, re-check alignment.

3. **Secure Processor:** Close the CPU socket lever to secure the processor in place.

4. **Apply Thermal Paste:** If your cooler does not have pre-applied thermal paste, apply a small amount (pea-sized dot) to the center of the CPU's integrated heat spreader (IHS).

5. **Install CPU Cooler:** Mount your CPU cooler according to its manufacturer's instructions. Ensure it makes firm, even contact with the CPU's IHS. Connect the cooler's fan cable to the 'CPU_FAN' header on your motherboard.

6. **Connect Power:** Ensure all necessary power cables (24-pin ATX, 4/8-pin EPS for CPU) are securely connected to the motherboard.

3. OPERATION

The AMD FX-6350 processor is designed for optimal performance in a wide range of computing tasks. Upon system boot, the processor will operate at its base clock speed of 3.9 GHz. For demanding applications, AMD Turbo CORE Technology will automatically increase the clock speed of active cores, providing a performance boost without manual intervention.

3.1. System Requirements

- **Motherboard:** Compatible with AM3+ socket.
- **Memory:** DDR3 SDRAM (minimum 8GB recommended for optimal performance).
- **Power Supply:** Sufficient wattage to support the CPU and other system components.

4. MAINTENANCE

Proper maintenance ensures the longevity and stable performance of your processor.

- **Dust Removal:** Regularly clean dust from your CPU cooler and case fans to maintain efficient airflow and prevent overheating. Use compressed air for best results.
- **Thermal Paste:** Over time, thermal paste can degrade. If you notice increased CPU temperatures, consider reapplying fresh thermal paste. This typically involves removing the cooler, cleaning old paste, and applying new paste.
- **Airflow:** Ensure your computer case has adequate airflow with properly installed intake and exhaust fans.

5. TROUBLESHOOTING

If you encounter issues with your AMD FX-6350 processor, consider the following common problems and solutions:

5.1. Common Issues and Solutions

- **System Overheating:**

  - Verify CPU cooler is properly seated and making good contact with the CPU.
  - Check if thermal paste was applied correctly.
  - Ensure case fans are functioning and providing adequate airflow.
  - Monitor CPU temperatures using system monitoring software.

- **System Instability or Crashes:**

  - Confirm the CPU is correctly seated in its socket.
  - Check that the CPU power connector from the power supply is securely attached.
  - Ensure your motherboard BIOS is updated to support the FX-6350 processor.

- Test memory modules for errors.

- **No Display/System Not Booting:**

  - Re-check all power connections to the motherboard and CPU.
  - Ensure the CPU is correctly installed in the socket.
  - Verify that the graphics card is properly seated and powered.
  - Clear CMOS settings on the motherboard.
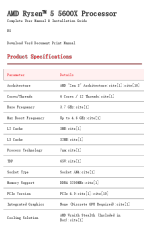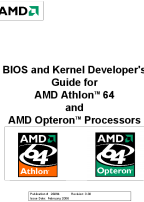
6. TECHNICAL SPECIFICATIONS
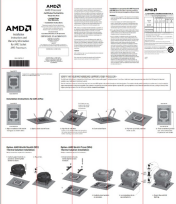
Key Specifications	
Feature	**Detail**
Brand	AMD
Model Number	FD6350FRHKBOX
CPU Manufacturer	AMD
CPU Speed	3.9 GHz
Number of Cores	6
CPU Socket	Socket AM3+
Compatible Memory Type	DDR3 SDRAM
Item Weight	1.13 pounds
Product Dimensions (LxWxH)	5.5 x 5 x 2.8 inches

7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official AMD website or contact AMD customer service. Keep your proof of purchase for warranty claims.

AMD Support Resources:

- Visit the AMD Support Website for drivers, software, and troubleshooting guides.
- Consult the AMD FX-6350 Product Page for additional product details.

Related Documents - FD6350FRHKBOX

[AMD Ryzen 5 5600X Processor: User Manual and Installation Guide](#)
Comprehensive user manual and installation guide for the AMD Ryzen 5 5600X processor, covering product specifications, compatible motherboards, installation steps, optimization tips, and troubleshooting.

[AMD Athlon 64 & Opteron Processors: BIOS and Kernel Developer's Guide](#)
Comprehensive guide for BIOS and kernel developers on AMD Athlon 64 and AMD Opteron processors, detailing system configuration, initialization, HyperTransport technology, and advanced features for optimal performance.

[AMD Ryzen 5 7500F Processor: Technical Specifications and Installation Guide](#)
Detailed technical specifications, compatibility information, and installation guide for the AMD Ryzen 5 7500F processor, including performance expectations and warranty details.

[AMD AOCL User Guide: Optimize Performance on Zen Processors](#)
The AMD Optimizing CPU Libraries (AOCL) User Guide provides comprehensive instructions for installing, using, and tuning a suite of high-performance numerical libraries optimized for AMD 'Zen'-based processors. It covers AOCL-BLIS, AOCL-libFLAME, AOCL-FFTW, AOCL-LibM, AOCL-ScaLAPACK, AOCL-RNG, AOCL-SecureRNG, AOCL-Sparse, AOCL-LibMem, AOCL-Cryptography, and AOCL-Compression, along with integration with HPL and MUMPS, and performance tuning guidelines.

[AMD Socket AM5 Processor Installation Guide and Warranty](#)
Official installation instructions and warranty information for AMD Socket AM5 processors, including AMD Wraith Stealth and Prism cooler installation. Learn how to safely install your AMD CPU.

[AMD Ryzen 5 5600 Processor: User Manual and Installation Guide](#)
Official user manual and installation guide for the AMD Ryzen 5 5600 processor. Provides detailed specifications, recommended compatible components, step-by-step installation instructions, and troubleshooting tips for optimal performance.

Documents - AMD – FD6350FRHKBOX

[pdf]

Dean Gary AMD Product Master amd Documents

Microprocessors and APUs OPN Description Encryption Status A0700AMT3B A0700APT3B A0750APT3B A0 ... 543 5A992.C 8542.31.0001 G138543 5A992.C 8542.31.0001 G138543 45 Microprocessors and APUs **FD6350FRHKBOX** Mass Market FD6350FRHKCBX Mass Market FD6350FRHKHBX Mass Market FD6350FRHKHPK M...

lang:en score:11 filesize: 14.55 M page_count: 189 document date: 2017-05-05

[pdf]

Dean Gary product master amd system files documents

Microprocessors and APUs OPN Description Encryption Status A0700AMT3B A0700APT3B A0750APT3B A0 ... d APUs OPN Description Encryption Status FD6330WMW6HCX Mass Market FD6330WMW6KHK Mass Market **FD6350FRHKBOX** Mass Market FD6350FRHKCBX Mass Market FD6350FRHKHBX Mass Market FD6350FRHKHPK M...

lang:en score:9 filesize: 20.8 M page_count: 204 document date: 2019-02-04

[pdf]

Scaro Alex Classification Data as of June 2nd 2025 AMD 100 000000009 Mass Market 5A992 c 8542310045 G177385 No 00 100000457BOX G167537 100000457CBX product master amd content dam en documents legal |||

Public # Product Number 100-000000009 100-000000009-00 100-000000010 100-000000010-00 100-00000001 ... D6300WMW6KHKA FD6300WMW6KHKS FD6300WMW6KHKS FD6330WMHKCSX FD6330WMHKSBX FD6330WMW6HCX FD6330WMW6KHK **FD6350FRHKBOX** FD6350FRHKCBX FD6350FRHKHBX FD6350FRHKHPK FD6350FRHKMPK FD6350FRHKSPK Mass Market Mas...

lang:en score:8 filesize: 7.79 M page_count: 316 document date: 2025-06-30