

ADVANTECH PS8-500FATX-GB

ADVANTECH PS8-500FATX-GB 80+ Gold Flex ATX Power Supply User Manual

Model: PS8-500FATX-GB

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the ADVANTECH PS8-500FATX-GB 80+ Gold Flex ATX Power Supply. This power supply unit (PSU) is designed to deliver stable and efficient power to your system, featuring 500W output with 3.3V, 5V, 12V, and -12V outputs, and RoHS compliance.

SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the power supply. Failure to follow these instructions may result in electric shock, fire, or damage to the product and connected equipment.

- Ensure the power supply is disconnected from the AC power source before installation or maintenance.
- Do not open the power supply casing. High voltage components inside pose a risk of electric shock.
- Install the power supply in a well-ventilated area to prevent overheating.
- Use only the cables provided or approved by ADVANTECH for this power supply.
- This product is designed for indoor use only.

PACKAGE CONTENTS

Verify that all items are present in the package:

- ADVANTECH PS8-500FATX-GB Power Supply Unit
- AC Power Cord
- Mounting Screws
- User Manual (this document)

SETUP AND INSTALLATION

Follow these steps to properly install the power supply into your system:

1. **Prepare Your System:** Ensure your computer system is powered off and disconnected from the AC outlet. Open the computer case.
2. **Remove Old PSU (if applicable):** Disconnect all cables from the old power supply. Unscrew and remove the old PSU from the chassis.
3. **Install New PSU:** Carefully place the ADVANTECH PS8-500FATX-GB into the power supply bay of your computer case. Ensure the fan is facing the correct direction for optimal airflow (usually facing down or out of the case). Secure the PSU with the provided mounting screws.
4. **Connect Main Power Cables:**
 - Connect the 20+4 pin ATX main power connector to the motherboard.
 - Connect the 4+4 pin EPS/ATX 12V connector to the motherboard CPU power socket.
5. **Connect Peripheral Cables:** Connect SATA power connectors to hard drives, SSDs, and optical drives. Connect PCIe power connectors to graphics cards if required. Connect Molex connectors to other peripherals as needed.
6. **Cable Management:** Route cables neatly to improve airflow and aesthetics.
7. **Close Case and Connect AC Power:** Close your computer case. Connect the AC power cord to the power supply and then to a wall outlet or surge protector.



Image 1: The ADVANTECH PS8-500FATX-GB 500W Flex ATX Power Supply, showing its compact form factor and various power connectors. This image illustrates the physical appearance of the unit and its attached cabling.

OPERATING INSTRUCTIONS

Once installed, operating the power supply is straightforward:

- **Power On:** After connecting all necessary cables and the AC power cord, press the power button on your computer case. The power supply will automatically provide power to your system.
- **Power Off:** Shut down your computer through the operating system. The power supply will enter a low-power state. For complete power disconnection, switch off the power supply's main switch (if present) or unplug the AC power cord.
- **Monitoring:** Modern motherboards and operating systems often provide tools to monitor power supply voltages. Refer to your motherboard manual for details.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power supply:

- **Dust Cleaning:** Periodically clean the power supply fan and vents to prevent dust buildup, which can impede airflow and cause overheating. Use compressed air for this purpose, ensuring the system is powered off and

unplugged.

- **Cable Inspection:** Regularly check all power cables for any signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Environmental Conditions:** Operate the power supply within its specified temperature and humidity ranges. Avoid extreme conditions.

TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	AC power cord not connected. Power supply switch is off. Loose power connections. Faulty power supply.	Ensure AC power cord is securely connected to PSU and wall outlet. Check if the power supply's main switch is in the 'ON' position. Verify all internal power cables (20+4 pin, 4+4 pin, SATA, PCIe) are firmly seated. Test with a known good power supply if possible.
System powers on but shuts down immediately.	Overload or short circuit. Overheating.	Disconnect non-essential components and try again. Ensure proper ventilation and clean any dust from the PSU fan.
Unusual noises from PSU.	Fan obstruction or failure.	Power off and unplug the system. Inspect the fan for obstructions. If the noise persists, the fan may be failing, and the PSU might need replacement.

If the problem persists after trying these solutions, contact ADVANTECH customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model	PS8-500FATX-GB
Brand	ADVANTECH
Form Factor	Flex ATX
Output Wattage	500 Watts
Efficiency Rating	80+ Gold
Output Voltages	3.3V, 5V, 12V, -12V

Feature	Detail
Connector Type	ATX (20+4 pin, 4+4 pin EPS/ATX 12V, SATA, PCIe, Molex)
Compliance	RoHS
Item Weight	12.99 pounds
Manufacturer	Advantech Co
ASIN	B08SMRH5V8
UPC	040048829683


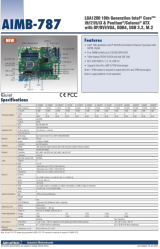
WARRANTY AND SUPPORT




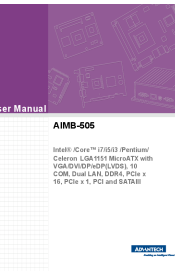
ADVANTECH products are designed for reliability and performance. For warranty information and technical support, please refer to the official ADVANTECH website or contact their customer service department.

- **Official Website:** www.advantech.com
- **Customer Support:** Refer to the "Contact Us" section on the official website for regional support details.

Please retain your proof of purchase for warranty claims.

Related Documents - PS8-500FATX-GB

	<p>Advantech ACP-4020 4U Rackmount Chassis - Specifications and Features</p> <p>Detailed specifications, features, ordering information, and visual descriptions for the Advantech ACP-4020, a 348mm depth 4U rackmount chassis designed for half-size SBC or ATX motherboards.</p>
	<p>Advantech AIMB-787 LGA1200 Industrial ATX Motherboard - Intel 10th Gen Core</p> <p>Detailed specifications, features, and connectivity options for the Advantech AIMB-787 industrial ATX motherboard. This board supports 10th Generation Intel Core, Pentium, and Celeron processors on the LGA1200 socket, featuring the Intel Q470E chipset, DDR4 memory support up to 128GB, multiple display outputs (DP/DVI-D/VGA), dual GbE LAN, M.2 slot, and comprehensive I/O.</p>

	<p>Advantech RouterApp Samba Manual</p> <p>User manual for the Samba application module on Advantech RouterApp devices. Details module description, web interface navigation, global configuration settings, OSS licenses, and related documentation. Covers installation and setup of the Samba server functionality.</p>
	<p>Advantech ICR-4233 LTE Advanced Industrial Router Hardware Manual</p> <p>The Advantech ICR-4233 is an LTE Advanced Industrial Router hardware manual, detailing its features, installation, and technical specifications. This robust router supports LTE Cat.6, dual SIM, dual-band WiFi 6/6E, GNSS, multiple interfaces (Ethernet, USB 3.0, RS232/RS485, digital I/O), and advanced network functionalities for demanding IoT and industrial applications.</p>
	<p>Advantech ICR-3231 LTE Industrial Router User Manual</p> <p>User manual for the Advantech ICR-3231 LTE Industrial Router, detailing its features, technical specifications, installation, and troubleshooting for industrial and IoT applications.</p>
	<p>Advantech AIMB-505 User Manual: Intel LGA 1151 Micro ATX Industrial Motherboard</p> <p>Comprehensive user manual for the Advantech AIMB-505 industrial Micro ATX motherboard, detailing specifications, features, installation, BIOS setup, and software for Intel Core i7/i5/i3/Pentium/Celeron processors.</p>