

Corsair HX1000i (CP-9020074-NA)

CORSAIR HX1000i Digital Power Supply User Manual

Model: HX1000i (CP-9020074-NA) | Brand: Corsair

1. INTRODUCTION AND OVERVIEW

The CORSAIR HX1000i HXi Series Digital Power Supply is designed for high-performance personal computers, offering extremely tight voltage control and virtually silent operation. This fully modular power supply features all Japanese 105°C capacitors, ensuring reliability. Its 80 PLUS Platinum efficiency rating contributes to reduced operating costs and heat generation. The Zero RPM fan mode technology allows for silent operation under low loads. With CORSAIR Link Digital support, users can monitor power supply performance, toggle between single rail or multi-rail modes, and control fan speed directly from their desktop. The low-profile, fully modular cable set simplifies system builds and upgrades, promoting a clean internal aesthetic.



Image 1.1: Front view of the CORSAIR HX1000i Power Supply unit.

2. WHAT'S IN THE BOX

Upon opening the packaging, verify that all components are present:

- CORSAIR HX1000i Internal Power Supply Unit
- Modular Cable Set (various types for different connections)
- Power Cord
- Mounting Screws
- Cable Ties
- User Manual (this document)



Image 2.1: The retail packaging for the CORSAIR HX1000i Power Supply, showing the product name and key features.



Image 2.2: The rear of the CORSAIR HX1000i packaging, illustrating the various types of modular DC cables included with the power supply.

3. FEATURES

- **High Performance Design:** Engineered for demanding PC systems.
- **80 PLUS Platinum Certified Efficiency:** Delivers up to 92% energy efficiency, reducing heat and operating costs.
- **Flat Black, Low-Profile Modular Cables:** Facilitates clean cable management and improved airflow

within the PC case.

- **1000 Watts Continuous Power Delivery:** Provides stable and reliable power for high-end components.
- **Zero RPM Fan Mode:** The cooling fan remains off at low to medium loads for virtually silent operation.
- **CORSAIR Link Digital Support:** Allows for real-time monitoring of power supply performance and fan speed control via software.
- **All Japanese 105°C Capacitors:** Ensures long-term reliability and performance.

4. SPECIFICATIONS

| Specification | Value |
|----------------------------|---|
| Brand | Corsair |
| Series | HXi Series |
| Model Name | HX1000i |
| Item Model Number | CP-9020074-NA |
| Output Wattage | 1000 Watts |
| 80 PLUS Certification | Platinum |
| Form Factor | ATX12V / EPS12V |
| Connector Type | ATX |
| Cooling Method | Air (Fluid Dynamic Bearing Fan) |
| Item Weight | 1 Pounds (approx. 0.45 kg) |
| Product Dimensions (LxWxH) | 7 x 5.9 x 3.4 inches (approx. 17.8 x 15 x 8.6 cm) |
| Compatible Devices | Personal Computer |
| Date First Available | July 24, 2014 |

5. SETUP AND INSTALLATION

Proper installation of the power supply is crucial for system stability and safety. Follow these general steps:

1. **Preparation:** Ensure your computer is completely powered off and unplugged from the wall outlet. Discharge any residual power by holding the power button for a few seconds.
2. **Mounting the PSU:** Install the HX1000i into the power supply bay of your PC case. Secure it with the provided mounting screws. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards if your case has a bottom vent, or upwards if it's a top-mounted PSU).
3. **Connecting Modular Cables:**
 - Connect the necessary modular cables to the power supply unit first. The HX1000i is fully modular, allowing you to connect only the cables required for your components.
 - Connect the 24-pin ATX motherboard power cable.
 - Connect the 4+4 pin or 8-pin EPS/ATX 12V CPU power cable to your motherboard.

- Connect the 6+2 pin PCIe power cables to your graphics card(s).
 - Connect SATA power cables to your storage drives (SSDs, HDDs) and other SATA-powered devices.
 - Connect Molex power cables for any legacy peripherals if needed.
 - Connect the USB cable from the HX1000i to an available USB 2.0 header on your motherboard for CORSAIR Link functionality.
4. **Cable Management:** Route cables neatly behind the motherboard tray or in designated cable management areas of your case to improve airflow and aesthetics.
 5. **Final Checks:** Double-check all connections to ensure they are secure. Close your PC case.
 6. **Power On:** Plug the power cord into the HX1000i and then into a wall outlet. Flip the power switch on the PSU to the 'ON' position. You can now power on your computer.



Image 5.1: The CORSAIR HX1000i Power Supply showcasing its fully modular design and various cable connections.

6. OPERATING THE HX1000i

The CORSAIR HX1000i features advanced functionalities for optimized performance and monitoring:

- **Zero RPM Fan Mode:** The power supply's fan is designed to remain off at low to medium loads. This ensures virtually silent operation when your system is not under heavy stress. The fan will automatically activate when the load increases to maintain optimal temperatures.
- **CORSAIR Link Digital Support:** By connecting the included USB cable from the PSU to your

motherboard's USB 2.0 header, you can utilize the CORSAIR iCUE software (formerly CORSAIR Link) to:

- Monitor real-time power input and output.
- View efficiency and temperature readings.
- Adjust fan speed profiles or set custom fan curves.
- Toggle between single +12V rail mode and multi +12V rail mode. Multi-rail mode provides OCP (Over Current Protection) on individual cables, while single-rail mode provides the full output capacity on a single rail.

Note: Download the latest CORSAIR iCUE software from the official Corsair website for full functionality.

7. MAINTENANCE

To ensure the longevity and optimal performance of your CORSAIR HX1000i Power Supply, periodic maintenance is recommended:

- **Dust Removal:** Over time, dust can accumulate inside the power supply, affecting cooling efficiency. Periodically, with the system powered off and unplugged, use compressed air to gently clear dust from the fan grille and internal components. Do not open the power supply casing.
- **Fan Inspection:** Visually inspect the fan for any obstructions or signs of damage. Ensure it spins freely when the system is under load (and the Zero RPM mode is disengaged).
- **Cable Connections:** Occasionally check that all modular cables are securely seated in both the power supply and the connected components. Loose connections can lead to instability.

Warning: Do not attempt to open the power supply unit. High voltages are present inside, even when unplugged, and can cause serious injury or death. Opening the unit will also void your warranty.

8. TROUBLESHOOTING

If you encounter issues with your CORSAIR HX1000i Power Supply, consider the following troubleshooting steps:

- **System Not Powering On:**
 - Ensure the power cord is securely plugged into both the PSU and the wall outlet.
 - Verify the power switch on the back of the PSU is in the 'ON' (I) position.
 - Check all modular cable connections, especially the 24-pin ATX and 8-pin CPU power cables, to ensure they are fully seated.
 - Test the wall outlet with another device to confirm it has power.
- **System Instability or Random Shutdowns:**
 - This could indicate insufficient power or a faulty component. Ensure your system's power requirements do not exceed the HX1000i's capacity.
 - Check for loose cable connections.
 - Monitor temperatures using CORSAIR iCUE or other system monitoring software to rule out overheating.
- **Fan Not Spinning:**

- Remember the Zero RPM fan mode. The fan will not spin at low loads. Increase system load (e.g., by running a demanding application or benchmark) to see if the fan activates.
- If the fan never spins even under high load, ensure there are no physical obstructions. If the issue persists, contact Corsair support.

- **CORSAIR Link/iCUE Issues:**

- Ensure the USB cable from the PSU is correctly connected to a USB 2.0 header on your motherboard.
- Verify that CORSAIR iCUE software is installed and up to date.
- Try restarting the iCUE software or your computer.

If these steps do not resolve the issue, please refer to the Warranty and Support section for further assistance.

9. WARRANTY AND SUPPORT

The CORSAIR HX1000i Power Supply is backed by a **Ten-Year Warranty**, ensuring reliable operation across multiple system builds. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or additional information, please visit the official Corsair support website:

[Corsair Support Website](#)

Before contacting support, it is recommended to have your product model number (CP-9020074-NA) and purchase date available.