

ORICO e5000

ORICO e5000 512GB SSD M.2 NVMe 2280 PCIe Gen4 Instruction Manual

Model: e5000

INTRODUCTION

The ORICO e5000 M.2 NVMe 2280 PCIe Gen4 Solid State Drive offers high-speed storage for various devices including PS5, laptops, PCs, and desktops. This manual provides essential information for the proper installation, operation, and maintenance of your SSD.

KEY FEATURES

- **Blazing Speed Unleashed:** Utilizes the latest PCIe 4.0 protocol for read speeds up to 5200MB/s, enabling instant program launches, fast file transfers, and seamless multitasking.
- **Graphene Heat Spreader:** Features a graphene thermal pad that fully covers the main control chip and storage particles, significantly reducing heat and ensuring stable performance during demanding applications.
- **SLC Dynamic Cache:** Simulates single-level cell (SLC) mode within multi-level cells for smoother transfer speeds and enhanced performance, maximizing PCIe Gen3x4 interface capabilities.
- **Durable 3D NAND QLC Flash:** Advanced 3D NAND technology and QLC chip provide lightning-fast loading speeds, greater energy efficiency, and higher data durability.

Blazing Speed Unleashed

 Read Speed

5000 UP TO MB/s

 Write Speed

2800 UP TO MB/s

PCIe 4.0



9X
faster load times

ORICO e5000 SSD

⚡ Read up to 5000MB/s



SATA SSD

550MB/s

Image: The ORICO e5000 SSD highlighting its read speed of up to 5000MB/s and write speed of 2800MB/s, emphasizing its PCIe 4.0 capabilities.

WHAT'S IN THE BOX

- ORICO e5000 512GB NVMe SSD
- Instruction Manual
- Mounting Screws

- Screwdriver

Trustworthy Storage Brand

5 years coverage

Capacity	Read Speed	Write Speed	TBW
512GB	5000MB/s	2800MB/s	150TBW
1TB	5100MB/s	3600MB/s	300TBW
2TB	5200MB/s	3600MB/s	600TBW
4TB	5200MB/s	3600MB/s	1200TBW

* 5 years or TBW, whichever comes first.

Image: A visual representation of the ORICO e5000 SSD package contents, including the SSD, packaging box, screw, screwdriver, and user manual.

SETUP AND INSTALLATION

The ORICO e5000 SSD is designed for easy installation in compatible devices. Ensure your device supports M.2 2280 NVMe PCIe Gen4 SSDs before proceeding.

General Installation Steps:

1. Power off your computer or console and disconnect all power sources.
2. Open the casing of your device to access the M.2 slot. Refer to your device's manual for specific instructions on accessing internal components.
3. Locate an available M.2 2280 slot.
4. Carefully insert the ORICO e5000 SSD into the M.2 slot at an angle.
5. Gently push down the SSD and secure it with the provided screw.
6. Close the device casing and reconnect power.

Compatible with Multiple Devices



PCs



Laptop



M.2 Case



Image: The ORICO e5000 SSD being installed into an M.2 slot on a motherboard, showing the single notch design for PCIe compatibility.

Product Overview Video:

Your browser does not support the video tag.

Video: An overview of the ORICO PCIe 4.0 Drive - e5000 SSD, demonstrating its features and physical appearance.

OPERATING AND USAGE

After physical installation, new SSDs often require initialization and formatting before they can be used by your operating system. Follow the instructions below based on your operating system.

Formatting and Partitioning (Windows System):

1. Right-click on "This PC" (or "My Computer") and select "Manage".
2. In the Computer Management window, navigate to "Disk Management" under "Storage".
3. Locate the newly installed SSD, which will likely appear as "Unallocated" or require initialization.
4. Right-click the disk and select "Initialize Disk". Choose GPT (GUID Partition Table) for modern systems and click "OK".
5. Right-click the "Unallocated" space on the new disk and select "New Simple Volume".
6. Follow the New Simple Volume Wizard, clicking "Next" through the prompts. Assign a drive letter and choose NTFS as the file system.
7. Complete the wizard to format the drive. Once finished, the new volume will appear in "This PC".

Formatting and Partitioning (Mac OS System):

1. Click "Go" in the Finder menu, then select "Utilities".
2. Open "Disk Utility".
3. In Disk Utility, select your external SSD from the sidebar.
4. Click the "Erase" button in the toolbar.
5. In the dialog box, provide a name for the drive. For "Format", select "ExFAT" for compatibility with both Mac OS and Windows systems. If using only with Mac, you can choose APFS or Mac OS Extended (Journaled).
6. Click "Erase" to begin the formatting process. Once completed, the external disk will appear on your desktop.

Video Guide: Formatting New SSD Before Use

Your browser does not support the video tag.

Video: A step-by-step guide on how to format and partition a new SSD for use in both Windows and Mac OS systems.

MAINTENANCE

- Keep the SSD in a cool, dry environment to prevent overheating and moisture damage.
- Avoid physical shocks or drops, as this can damage the internal components.
- Regularly back up important data to another storage device.
- Ensure your operating system and drivers are up to date for optimal performance and compatibility.
- Avoid filling the SSD to its maximum capacity; leaving some free space can help maintain performance.

TROUBLESHOOTING

SSD Not Detected:

- Ensure the SSD is correctly seated in the M.2 slot and securely fastened.
- Check your BIOS/UEFI settings to confirm the M.2 slot is enabled and configured correctly (e.g., NVMe mode).

- For new SSDs, ensure it has been initialized and formatted via Disk Management (Windows) or Disk Utility (Mac OS) as described in the "Operating and Usage" section.
- Try connecting the SSD to a different M.2 slot or a different compatible device to rule out a faulty slot or device.

Slow Performance:

- Verify that your motherboard supports PCIe Gen4 speeds. If connected to a Gen3 slot, performance will be limited to Gen3 speeds.
- Ensure your operating system and drivers are up to date for optimal performance and compatibility.
- Check if the SSD is overheating. The integrated graphene heat spreader helps, but proper airflow in your system is also crucial.
- Avoid running too many demanding applications simultaneously that heavily utilize the SSD.

SPECIFICATIONS

Feature	Detail
Digital Storage Capacity	512 GB
Hard Disk Interface	PCIE x 4
Connectivity Technology	PCIe 4.0X4
Brand	ORICO
Special Feature	Backward Compatible
Hard Disk Description	Solid State Drive
Compatible Devices	Desktop, Gaming Console, Laptop
Installation Type	Internal Hard Drive
Color	Black
Hard Disk Size	512 GB
Read Speed	5000 Megabytes Per Second
Media Speed (Write Speed)	2800 Megabytes Per Second
Data Transfer Rate	5000 Megabytes Per Second
Form Factor	M.2
Hardware Connectivity	PCI
Item Weight	0.1 Kilograms
Model Name	e5000
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD
Enclosure Material	3D QLC NAND flash

Ultra-fast startup for a more comfortable work experience



Image: A table detailing the specifications of the ORICO e5000 SSD, including capacity, read speed, write speed, and TBW for various models.

WARRANTY AND SUPPORT

The ORICO e5000 SSD comes with a **5-Year limited service warranty** from ORICO. This warranty provides peace of mind regarding the product's quality and durability.

For any further questions, technical assistance, or warranty claims, please contact ORICO customer support. ORICO is committed to providing comprehensive storage application solutions and offers 24-hour technical support services.

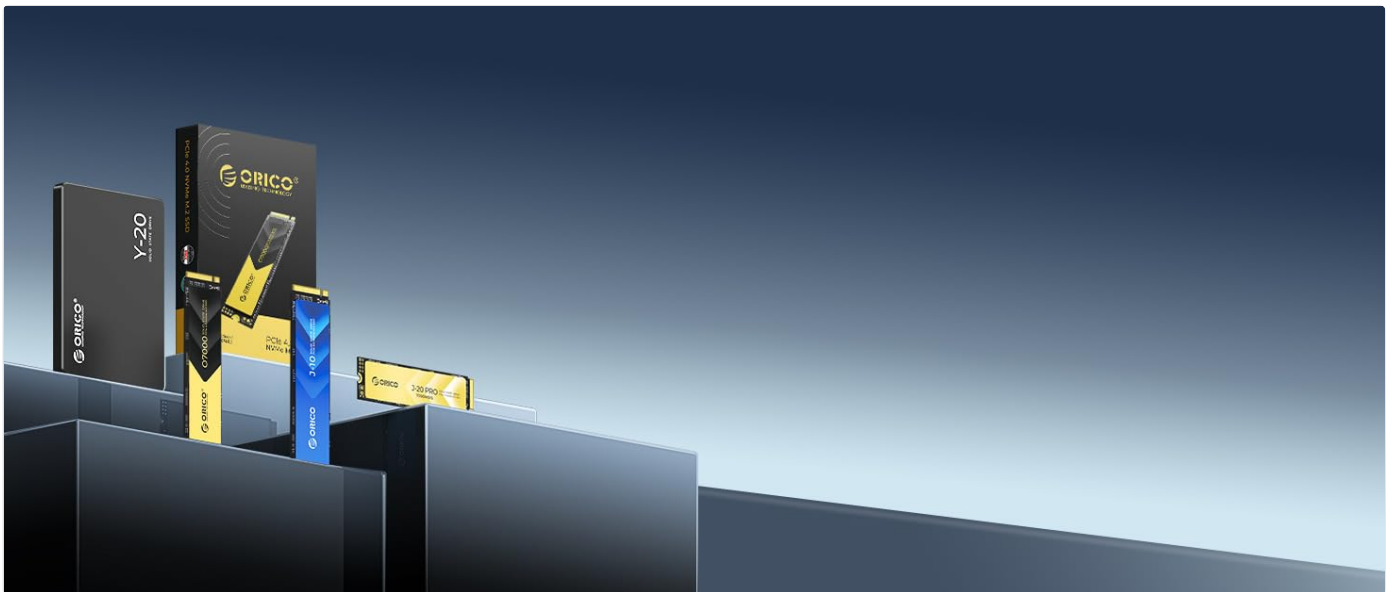


Image: A graphic illustrating the 5-year service warranty provided by ORICO for its SSD products.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question