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> ORICO NVMe SSD 1TB M.2 with Heatsink, Up to 3100MB/s PCIe Gen3x4 2280 Internal Solid State Drive, SLC Cache 3D NAND, Compatible with Laptop and PC Desktops -J10

ORICO J10-1TB

ORICO NVMe SSD J10 Series User Manual

Model: J10-1TB

Brand: ORICO

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ORICO NVMe SSD J10 Series. Designed for high performance and reliability, this M.2 2280 internal solid state drive offers read speeds up to 3100 MB/s and write speeds of up to 1900 MB/s, making it compatible with both laptops and PC desktops. It features SLC Cache and 3D NAND technology for enhanced efficiency and includes a heatsink for optimal thermal management.



Image: ORICO J10 NVMe SSD with its heatsink, showcasing its compact M.2 2280 form factor.

2. WHAT'S IN THE BOX

Please verify that all the following components are included in your package:

- 1 x 1TB NVMe SSD (ORICO J10 Series)
- 1 x Cooling Vest (Heatsink)
- 2 x Silicone Thermal Pad

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Video: An unboxing and overview of the ORICO J10 M.2 SSD with its included heat sink and accessories.

3. SETUP AND INSTALLATION

3.1 Physical Installation (PC/Laptop)

The ORICO J10 SSD is designed for easy installation into compatible M.2 slots on motherboards. Ensure your system supports the M.2 2280 form factor and PCIe Gen3x4 NVMe SSDs.

1. **Prepare your system:** Power off your computer and disconnect all power cables. For laptops, remove the battery if possible.
2. **Locate the M.2 slot:** Open your computer case or laptop cover and identify an available M.2 slot on the motherboard.
3. **Install the heatsink:**
 - Peel off the protective films from both sides of the silicone thermal pads.
 - Place one thermal pad on the SSD's controller/NAND chips side.
 - Place the other thermal pad on the underside of the SSD (if applicable).
 - Carefully align the cooling vest (heatsink) with the SSD and press gently to ensure good contact with the thermal pads.

Cooling Vest

Increase the heat dissipation surface of SSD

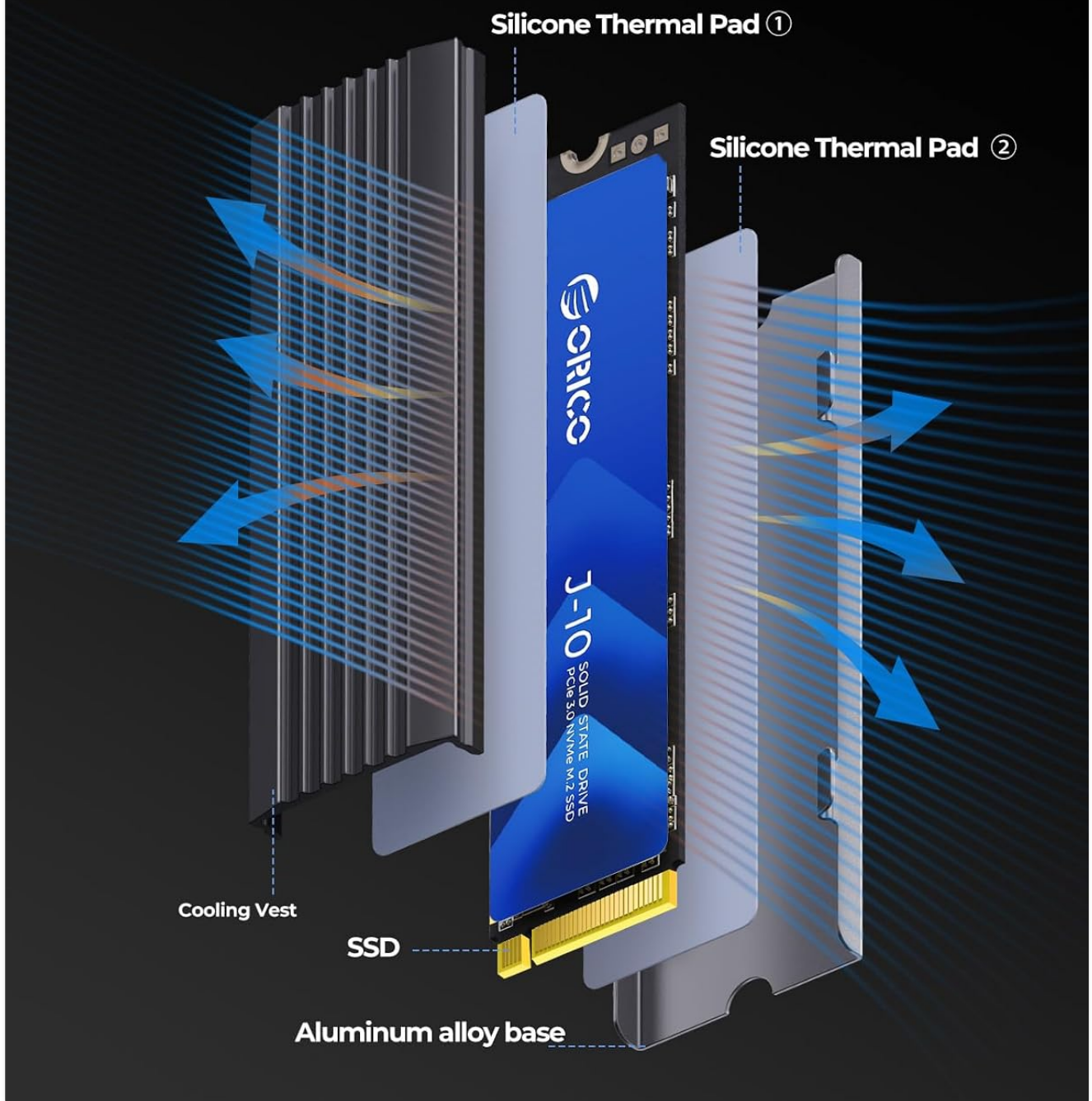


Image: Diagram illustrating the assembly of the cooling vest and silicone thermal pads onto the SSD for enhanced heat dissipation.

4. **Insert the SSD:** Gently slide the SSD into the M.2 slot at an angle. Once fully inserted, push down the end of the SSD and secure it with the provided screw or retention clip.
5. **Reassemble:** Close your computer case or laptop cover and reconnect all power cables.

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Video: A visual guide demonstrating the physical installation process of the ORICO J10 SSD into a computer system, including heatsink attachment.

3.2 Initializing and Formatting the SSD

After physical installation, new SSDs must be initialized and formatted before they can be used by your operating system. This

process creates a partition and a file system, making the drive accessible for data storage.

For Windows Systems:

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. You should see your new ORICO SSD listed as "Disk [Number]" and "Unallocated".
4. Right-click on the new SSD (Disk [Number]) and select "Initialize Disk". Choose GPT (GUID Partition Table) for modern systems and click "OK".
5. Right-click on the "Unallocated" space of the new SSD and select "New Simple Volume".
6. Follow the New Simple Volume Wizard. Assign a drive letter, choose NTFS as the file system (recommended for Windows), and perform a quick format.
7. Click "Finish" to complete the formatting process. Your new SSD will now appear in "This PC" and be ready for use.

For Mac OS Systems:

1. Go to "Finder" > "Applications" > "Utilities" > "Disk Utility".
2. In Disk Utility, select your new ORICO SSD from the sidebar (it might be listed as "External" or "Untitled").
3. Click the "Erase" button in the toolbar.
4. In the Erase dialog, provide a name for the drive. For "Format", choose APFS (for Mac-only use) or ExFAT (for compatibility with both Mac and Windows). For "Scheme", choose GUID Partition Map.
5. Click "Erase" again to confirm. The drive will be formatted and mounted on your desktop.

Your browser does not support the video tag.

Video: A detailed tutorial on how to format a new SSD for use in both Windows and Mac OS systems, addressing common issues like drives not being recognized.

4. OPERATING THE SSD

Once installed and formatted, your ORICO J10 SSD will function as a high-speed storage device. You can use it for:

- **System Drive:** Install your operating system for significantly faster boot times and application loading.
- **Game Storage:** Store large game files to reduce loading screens and improve overall gaming experience.
- **Data Storage:** Use it for general file storage, including documents, photos, videos, and large project files.
- **Content Creation:** Ideal for professionals working with large media files, offering rapid read/write speeds for video editing, graphic design, and 3D rendering.

Speed up Your System



Image: A visual representation of the ORICO J10 SSD enhancing system performance and speeding up operations on a laptop.

The J10 SSD supports S.M.A.R.T. function and includes a built-in smart algorithm management mechanism to ensure operational efficiency and data integrity.

Enhanced Data Integrity and Stability



Image: Graphic highlighting the enhanced data integrity and stability features of the ORICO J10 SSD, including S.M.A.R.T. support.

5. MAINTENANCE

To ensure the longevity and optimal performance of your ORICO NVMe SSD, consider the following maintenance tips:

- **Thermal Management:** The included cooling vest and thermal pads are crucial for dissipating heat. Ensure they are

correctly installed to prevent thermal throttling and maintain consistent performance.

- **TRIM Support:** Ensure your operating system has TRIM enabled. TRIM helps the SSD maintain performance over time by actively managing data blocks.
- **Avoid Full Capacity:** While SSDs perform well even when nearly full, leaving some free space (e.g., 10-15%) can help maintain optimal performance and extend the drive's lifespan.
- **Regular Backups:** Although SSDs are reliable, regular data backups to another storage device are always recommended to prevent data loss from unforeseen circumstances.

6. TROUBLESHOOTING

Here are some common issues and their solutions:

- **SSD Not Detected:**
 - Check physical connections: Ensure the SSD is securely seated in the M.2 slot.
 - Check BIOS/UEFI settings: Verify that the M.2 slot is enabled and configured correctly (e.g., NVMe mode).
 - Initialize and format: New SSDs need to be initialized and formatted via Disk Management (Windows) or Disk Utility (Mac OS) as described in Section 3.2.
- **Slow Performance:**
 - Ensure heatsink is properly installed: Poor thermal contact can lead to throttling.
 - Check system compatibility: Ensure your motherboard's M.2 slot supports PCIe Gen3x4 speeds. Using a slower slot or interface will limit performance.
 - Verify TRIM is enabled: TRIM helps maintain write performance over time.
- **Incompatible with PS5:**
 - The ORICO J10 SSD is PCIe 3.0 and is not compatible with PS5. PS5 requires a PCIe Gen4x4 NVMe SSD.

7. SPECIFICATIONS

Feature	Detail
Brand	ORICO
Model Series	J10-1TB
Hard Drive Capacity	1 TB Solid State Drive
Hard Drive Interface	NVMe (PCIe Gen3x4)
Form Factor	M.2 2280
Sequential Read Speed (Max)	Up to 3100 MB/s
Sequential Write Speed (Max)	Up to 1900 MB/s
Flash Memory Type	SLC Cache 3D NAND

Compatible Devices	Laptop, Desktop
Dimensions (LxWxH)	3.15 x 0.08 x 0.87 inches
Item Weight	0.212 ounces
Color	Blue
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD
Date First Available	February 29, 2024

Note: Performance may vary based on system hardware and configuration. 1GB = 1 billion bytes, 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

Product Specification



Model :	J10
Interface:	M.2 2280
Channel :	PCIe Gen3 x4
Capacity :	1TB
Seq Read Speed:	3100MB/s
Seq Write Speed:	1900MB/s
TBW:	300TBW
Operating Temp:	0°C-70°C
Storage Temp:	-40°C-85°C
Size :	80*22*2mm
Warranty :	5-Year Limited Warranty

Image: Official product specification table for the ORICO J10 SSD, detailing model, interface, capacity, and speeds.

8. WARRANTY AND SUPPORT

The ORICO NVMe SSD J10 Series comes with a **5-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further inquiries, please contact ORICO Direct US Store customer service through their

official channels or visit their website for detailed support information.

Our SSD undergoes 96 hours of rigorous testing, including sleep, read/write, high-temperature, performance, and boot tests, ensuring exceptional stability and reliability.

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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

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