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Yottamaster TR12-C3-GY

Yottamaster M.2 NVMe SSD Enclosure TR12-C3-GY User Manual

Model: TR12-C3-GY

1. PRODUCT OVERVIEW

The Yottamaster M.2 NVMe SSD Enclosure (Model TR12-C3-GY) provides a high-speed, portable solution for M.2 NVMe solid-state drives. Featuring a USB-C 3.1 Gen 2 interface, it supports data transfer speeds of up to 10Gbps, ideal for demanding applications and large file transfers. Its tool-free design and robust aluminum alloy construction ensure ease of use and efficient heat dissipation.



Image 1.1: Yottamaster M.2 NVMe SSD Enclosure with included USB-C to USB-A and USB-C to USB-C cables.

Key Features:

- **10Gbps Ultra-Fast Data Transfer:** Equipped with a USB-C 3.1 Gen 2 interface and UASP support for speeds up to 10Gbps.
- **NVMe M-Key Compatibility:** Designed for PCIe NVMe M.2 SSDs (M-Key and M+B Key) up to 4TB, supporting sizes 2230, 2242, 2260, and 2280. **Note:** Does not support M.2 SATA-based SSDs or M.2 PCIe AHCI SSDs.
- **Excellent Heat Dissipation:** One-piece aluminum alloy casing with an integrated aluminum heat sink and thermal pad for optimal thermal management.
- **Tool-Free Design:** Allows for quick and easy SSD installation without additional tools.
- **Broad Compatibility:** Supports Windows, macOS, Linux, and various devices including PCs, laptops, and servers.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- Yottamaster M.2 NVMe SSD Enclosure (TR12-C3-GY)
- USB Type-C to USB Type-A Cable
- USB Type-C to USB Type-C Cable
- User Manual



Image 2.1: Contents of the Yottamaster M.2 NVMe SSD Enclosure package.

3. SETUP AND INSTALLATION

Follow these steps to install your M.2 NVMe SSD into the enclosure:

1. **Open the Enclosure:** Gently slide open the enclosure to reveal the internal tray. The tool-free design allows for easy access.
2. **Insert the SSD:** Align your M.2 NVMe SSD (M-Key or M+B Key) with the slot on the internal tray. Insert the SSD firmly

into the slot at an angle, then gently press it down.

3. **Secure the SSD:** Use the provided rubber fastener or screw (if applicable) to secure the end of the SSD to the tray. Ensure the SSD is flat and stable.
4. **Apply Thermal Pad (Optional but Recommended):** If a thermal pad is included, remove its protective films and place it on top of the SSD's controller chip. This enhances heat dissipation.
5. **Close the Enclosure:** Slide the internal tray back into the aluminum casing until it clicks securely into place.

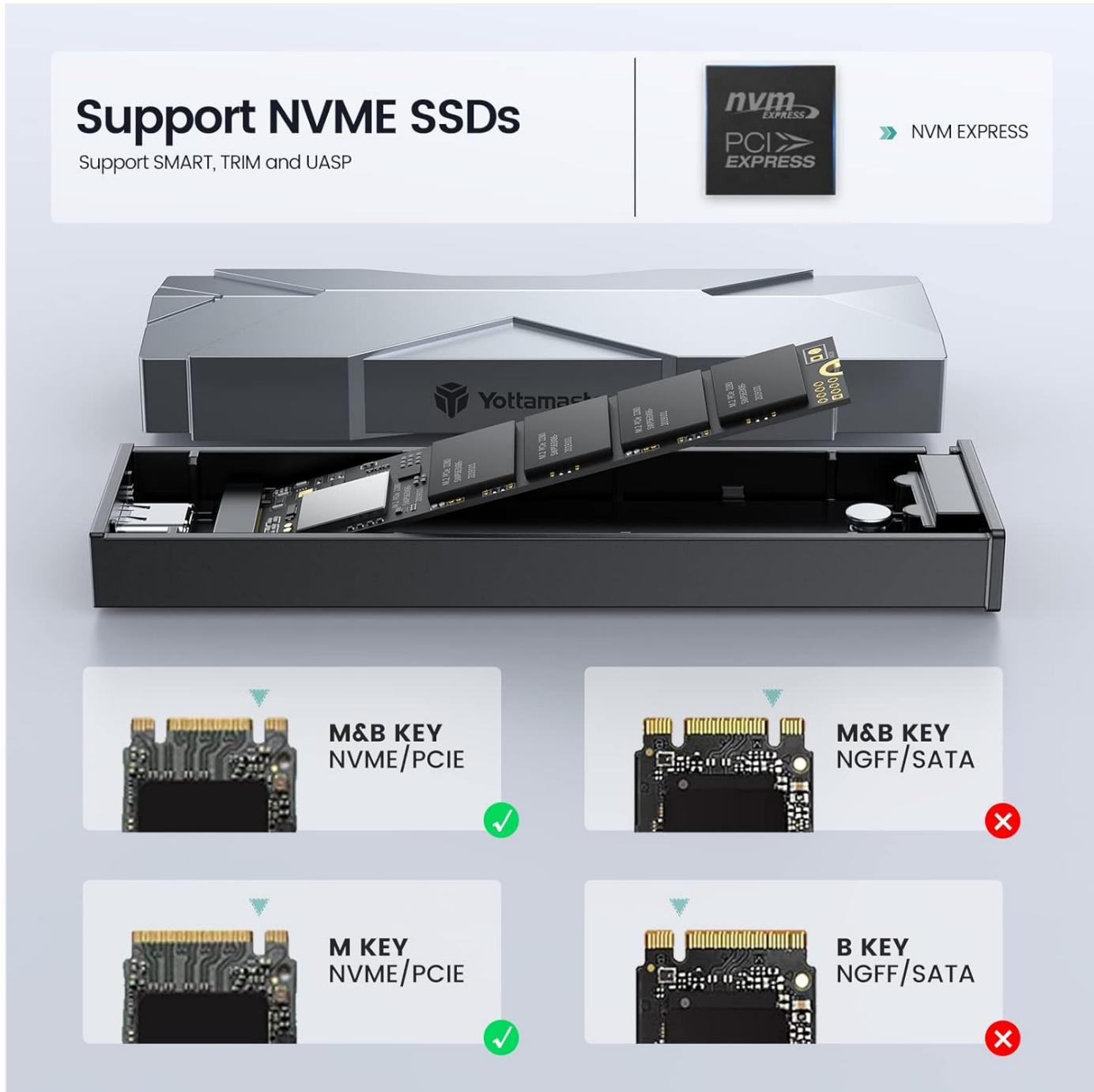


Image 3.1: Step-by-step illustration of M.2 NVMe SSD installation into the enclosure.



USB C 3.2 10Gbps M.2 NVMeEnclosure



Image 3.2: Exploded view of the enclosure showing the aluminum shell, thermal pad, and heatsink for effective heat dissipation.

Initial Disk Preparation (New SSDs Only):

For new SSDs, partitioning and formatting are required before the drive can be recognized and used by your operating system.

For Windows Systems:

1. Press the **Win + X** keys simultaneously on your keyboard.
2. From the menu that appears, select "**Disk Management**". Alternatively, type "**diskmgmt.msc**" in the Run dialog (Windows Key + R) and press Enter.
3. In the Disk Management window, locate your new SSD (it will likely appear as 'Unallocated Space').
4. Right-click on the unallocated space and select "**New Simple Volume**". Follow the on-screen wizard to partition and format the drive.

For Mac Systems:

1. Click on the **Apple menu** in the top left corner of your screen.
2. Select "**About This Mac**" from the drop-down menu.
3. In the window that opens, click on the "**Storage**" tab.
4. To access Disk Utility, go to **Applications > Utilities > Disk Utility**.
5. In Disk Utility, select your new SSD from the sidebar.
6. Click the "**Erase**" button. Choose a format (e.g., APFS or Mac OS Extended) and a scheme (e.g., GUID Partition Map), then click Erase.

4. OPERATING INSTRUCTIONS

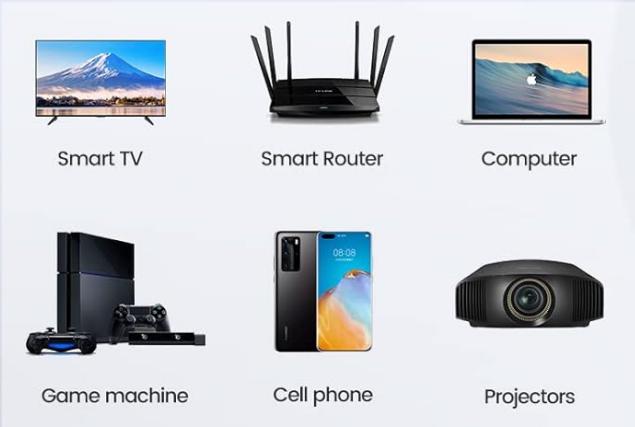
Once your SSD is installed and formatted, connect the enclosure to your device using one of the provided USB cables.

- 1. Connect to Device:** Plug the appropriate USB cable (USB-C to USB-A or USB-C to USB-C) into the enclosure's USB-C port and then into a compatible port on your computer, laptop, or other device.
- 2. Accessing Data:** The enclosure is plug-and-play, requiring no additional drivers. Your operating system should automatically detect the drive. You can access your data through File Explorer (Windows) or Finder (macOS).
- 3. Safe Removal:** Always safely eject the drive from your operating system before disconnecting the cable to prevent data corruption.

Broad Compatibility

Connects to PC, laptop, smartphone, game console, router, etc.

Devices



Smart TV Smart Router Computer

Game machine Cell phone Projectors

Operating system



Windows iPad Linux

Android Mac OS



Image 4.1: Broad compatibility of the enclosure with various devices and operating systems.

5. MAINTENANCE

The Yottamaster M.2 NVMe SSD Enclosure is designed for durability and efficient heat management, requiring minimal user maintenance.

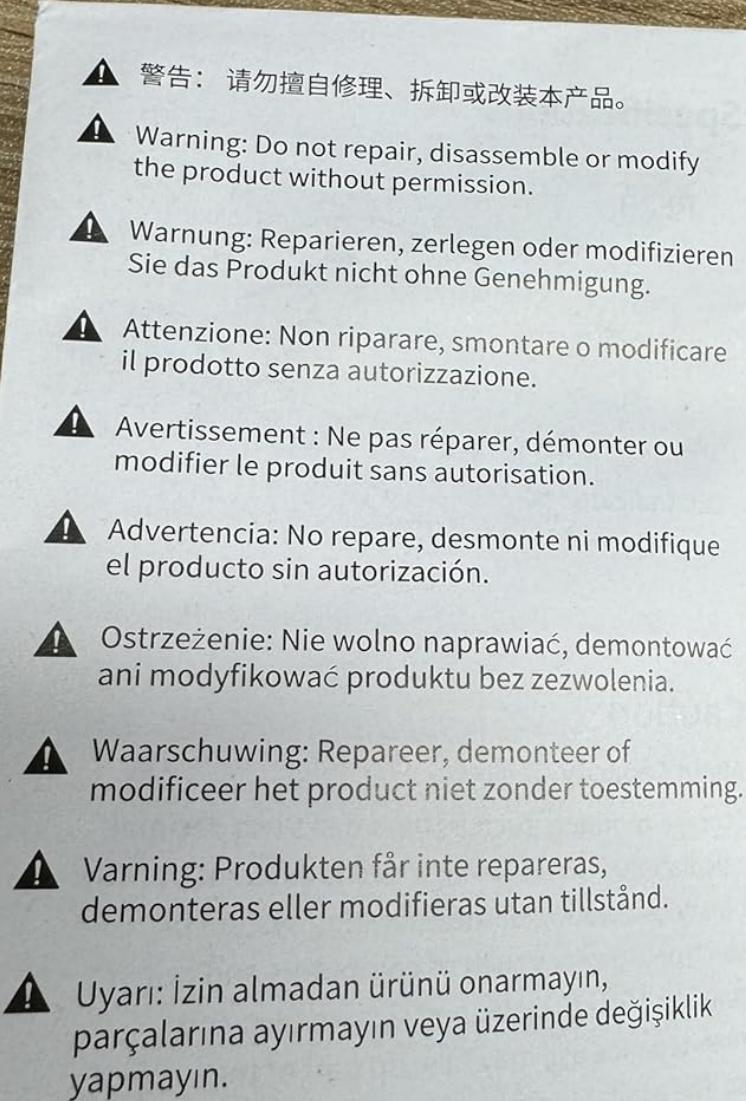
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid liquid cleaners or abrasive materials.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the enclosure with care to prevent physical damage.

6. TROUBLESHOOTING

If you encounter issues with your Yottamaster M.2 NVMe SSD Enclosure, please refer to the following common solutions:

- **Drive Not Detected:**
 - Ensure the SSD is correctly seated in the enclosure.
 - Try a different USB port or cable.
 - For new SSDs, ensure it has been partitioned and formatted (refer to Section 3: Setup and Installation).
 - Verify that your SSD is an NVMe M-Key type and not a SATA M.2 SSD.
- **Slow Transfer Speeds:**
 - Ensure your device's USB port supports USB 3.1 Gen 2 (10Gbps). Connecting to a USB 2.0 port will result in slower speeds.
 - The actual transfer speed is also dependent on the speed of the installed SSD.
 - Ensure UASP is enabled on your operating system (usually automatic).
- **Overheating:**
 - Ensure the thermal pad (if used) is correctly placed on the SSD controller.
 - Avoid placing the enclosure in enclosed spaces that restrict airflow.

Important Safety Warning: Do not repair, disassemble, or modify the product without permission. Unauthorized modifications can void your warranty and may cause damage to the device or data loss.



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Image 6.1: Product warning against unauthorized repair or modification.

7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	TR12-C3-GY
Brand	Yottamaster
Hard Drive Interface	USB 3.1 Gen 2 Type-C (10Gbps)
Supported SSD Type	M.2 NVMe SSD (M-Key / M+B Key, PCIe-based)
Supported SSD Sizes	2230, 2242, 2260, 2280
Max Capacity	Up to 4TB
Compatibility	Windows, macOS, Linux
Material	Aluminum Alloy
Dimensions (LxWxH)	4.41 x 1.5 x 0.83 inches
Item Weight	6.4 ounces

Note: This enclosure does not support M.2 SATA-based SSDs, M.2 PCIe AHCI SSDs, or any SSDs from Mac.

Support **2230/2242/2260/2280**
SSDs up to 4TB



Support up to 4TB

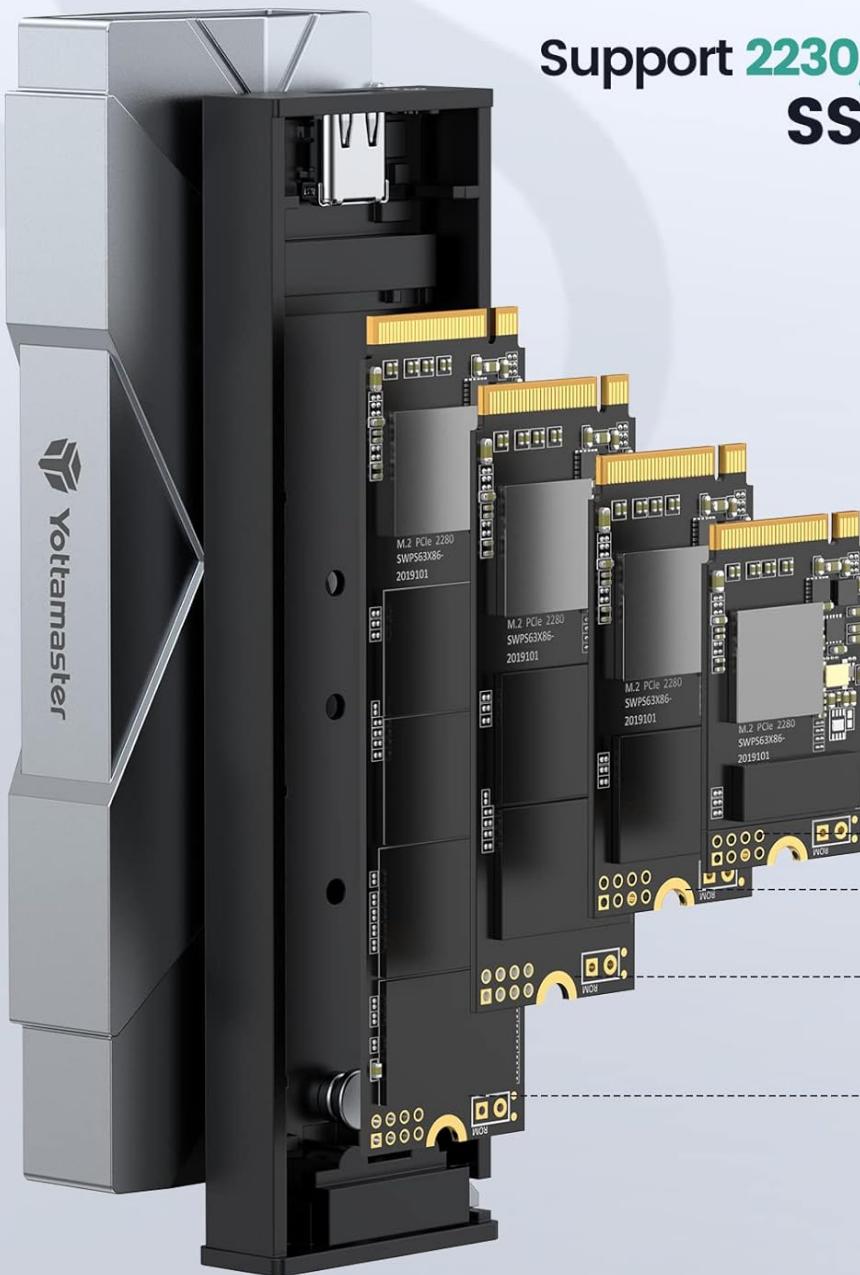


Image 7.1: Supported M.2 NVMe SSD form factors.

Cooler Than Ever

Optimized structure ensure stable performance



Heat Dissipation



Data Protection

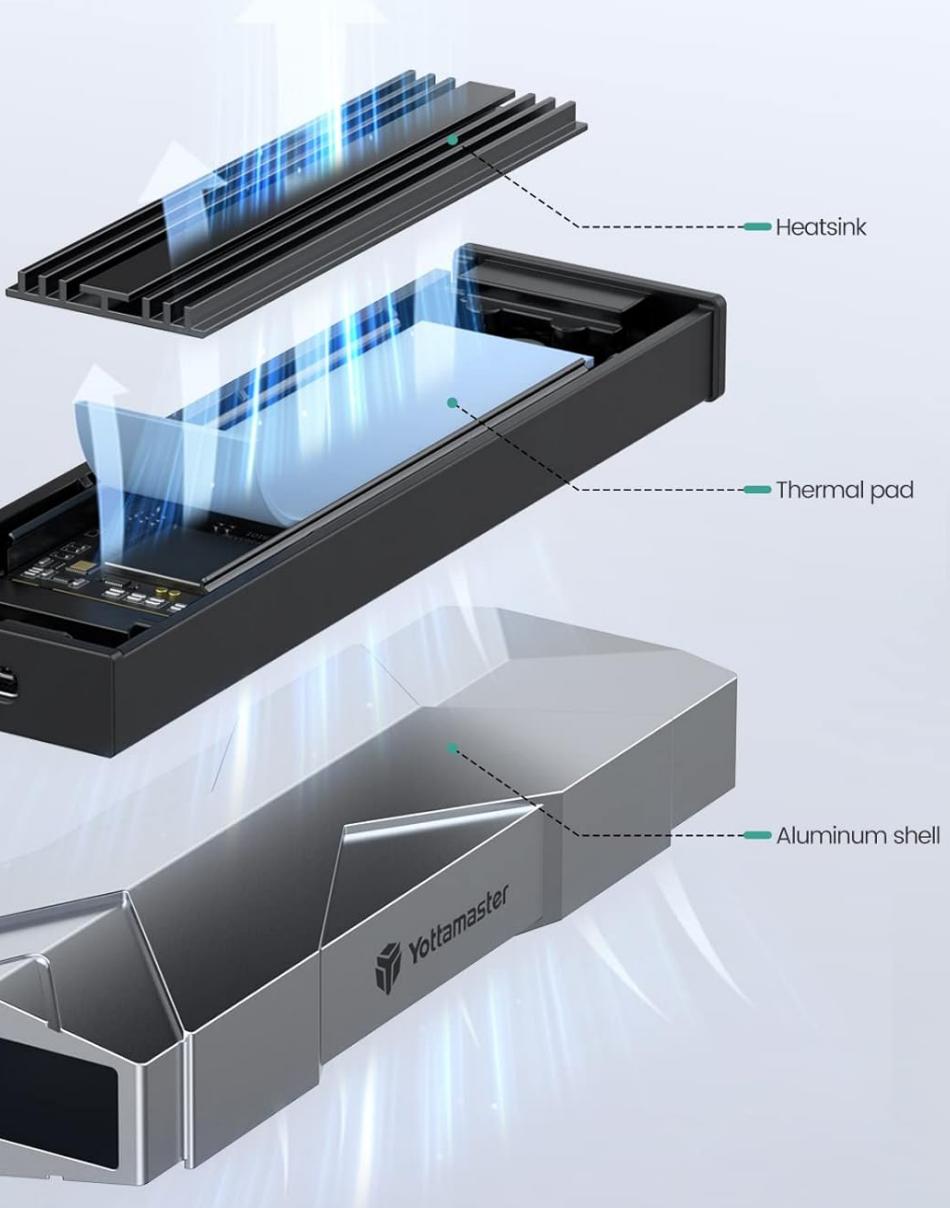


Image 7.2: Visual guide for compatible M.2 NVMe SSD key types.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Yottamaster website or contact your retailer. Keep your purchase receipt for warranty claims.

If you require further assistance or have questions not covered in this manual, please reach out to Yottamaster customer service through their official channels.