

Yottamaster TR6-C3

Yottamaster TR6-C3 40Gbps M.2 NVMe SSD Enclosure User Manual

Model: TR6-C3

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Yottamaster TR6-C3 40Gbps M.2 NVMe SSD Enclosure. Please read this manual thoroughly before use to ensure proper functionality and to maximize the performance of your device.



Image 1: The Yottamaster 40Gbps M.2 NVMe SSD Enclosure with its accompanying USB-C to USB-A/C cable.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Yottamaster M.2 NVMe SSD Enclosure
- USB-C to USB-A/C Cable
- Heatsink
- Thermal Pad
- Screwdriver
- Mounting Screws
- User Manual

Diamond Cut Surface



Image 2: All components included in the product package, laid out for inspection.

Your browser does not support the video tag.

Video 1: An unboxing and installation guide for the Yottamaster M.2 NVMe SSD Enclosure, demonstrating the contents and initial setup steps.

3. SETUP AND INSTALLATION

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

1. **Prepare the SSD:** Carefully attach the silicone thermal pad to the top surface of your M.2 NVMe SSD.
2. **Install the Heatsink:** Place the aluminum heatsink onto the thermal pad, ensuring it covers the SSD's main components for optimal heat dissipation.
3. **Open the Enclosure:** Use the provided screwdriver to unscrew and gently slide open the back cover of the enclosure.
4. **Insert the SSD:** Align your prepared M.2 NVMe SSD with the slot inside the enclosure and insert it firmly. Secure the SSD with the provided clip or screw, depending on the enclosure design.
5. **Close the Enclosure:** Slide the back cover back into place and secure it with the screw.

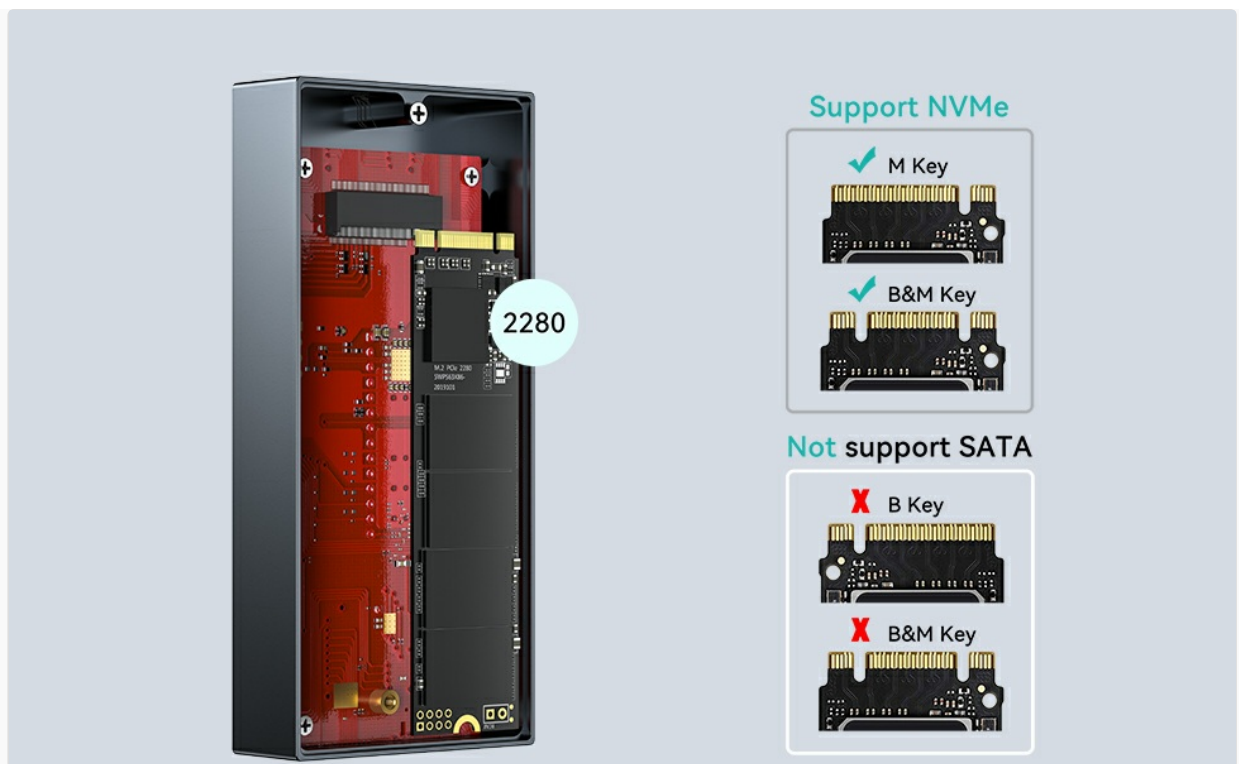


Image 3: Visual instructions for the easy installation of an M.2 NVMe SSD into the enclosure.

4. OPERATING INSTRUCTIONS

Once the SSD is installed, connect the enclosure to your computer or compatible device using the provided USB-C to USB-A/C cable. The enclosure is plug-and-play and should be recognized automatically by your operating system. For new SSDs, you may need to initialize and format the drive through your operating system's disk management utility before use.

Yottamaster USB 4.0 40Gbps M.2 NVME Enclosure



Image 4: The enclosure connected to a laptop, demonstrating its use with a computer.

5. COMPATIBILITY

5.1 SSD Compatibility

The Yottamaster TR6-C3 enclosure supports M.2 NVMe SSDs with M Key and B&M Key interfaces, specifically in the 2280 form factor. It does **not** support M.2 SATA SSDs (B Key or B&M Key SATA).

Widely Compatibility

The 2-in-1 cable comes with the USB-A & USB-C connector to easily connect various terminal devices.

System compatible:



Windows



Mac



Linux



Android

Device compatible:



Laptop



Tablet



Phone



Gaming devices



Image 5: Visual guide to compatible M.2 NVMe SSD types and incompatible M.2 SATA SSD types.

5.2 System and Device Compatibility

The enclosure is widely compatible with various operating systems and devices:

- **Operating Systems:** Windows, macOS, Linux, Android
- **Devices:** Laptops, Tablets, Phones, Gaming devices



Image 6: Overview of the enclosure's compatibility with different operating systems and electronic devices.

6. HEAT DISSIPATION

The Yottamaster TR6-C3 enclosure features a triple heat dissipation design to maintain optimal operating temperatures for your NVMe SSD, enhancing performance and longevity. This design includes:

- Aluminum Alloy Case
- Cooling Vest (Heatsink)
- Silicone Thermal Pad

Compatible SSD



2280



M.2 NVMe



M Key ✓

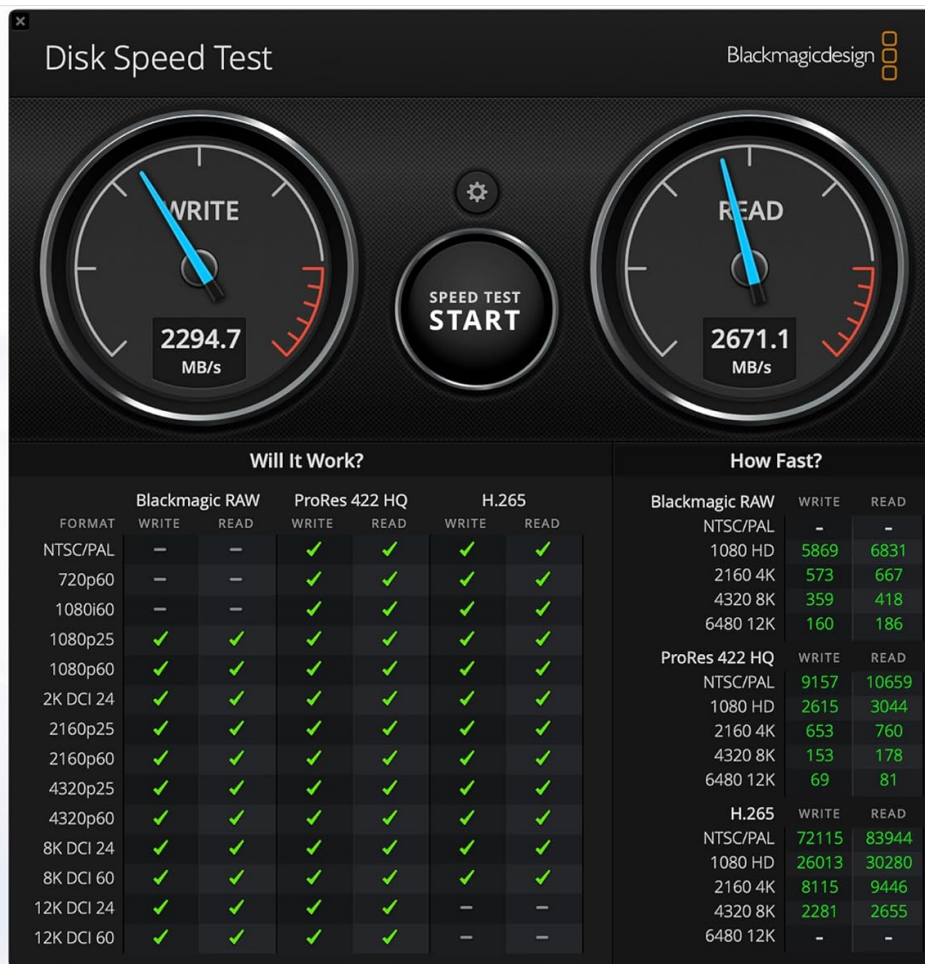
B&M Key ✓



Image 7: An exploded view showing the aluminum alloy case, cooling vest, and silicone thermal pad working together for heat dissipation.

7. PERFORMANCE INFORMATION

The Yottamaster TR6-C3 enclosure is designed for high-speed data transfer, supporting up to 40Gbps. Actual speeds may vary depending on the SSD model, host device, and operating system. For optimal performance, ensure your host device supports USB4 or Thunderbolt 3/4.



SSD:

Samsung 980 PRO 1TB

Computer:

MacBook Pro 2021 M1

Note: The actual speed of SSDs varies with different SSDs and computers used.

Image 8: A Blackmagicdesign Disk Speed Test showing example read and write speeds (e.g., 2294.7 MB/s write, 2671.1 MB/s read).

Yottamaster 40Gbps M.2 Enclosure (TR6-40Gbps) Test Report

NVMe SSD	Computer Model	Read (MB/s)	Write (MB/s)	Speed Testing Software	Recommend
Samsung 980 PRO	HP Windows11	2749 Mb/s	2264 Mb/s	Bench32	✓
Samsung 980 PRO	HP Windows11	2945 Mb/s	2312 Mb/s	DiskMark	✓
Samsung 980 PRO	2021 M1 MacBook Pro	2671 Mb/s	2294 Mb/s	Disk Speed Test	✓
Cosair MP400	HP Windows11	2864 Mb/s	2783 Mb/s	Bench32	✓
Cosair MP400	HP Windows11	3069 Mb/s	1177 Mb/s	DiskMark	✗
Cosair MP400	2021 M1 MacBook Pro	2645 Mb/s	2190 Mb/s	Disk Speed Test	✓
WD BLACK SN750	HP Windows11	1968 Mb/s	1259 Mb/s	Bench32	✗
WD BLACK SN750	HP Windows11	3126 Mb/s	1304 Mb/s	DiskMark	✗
WD BLACK SN750	HP Windows11	2724 Mb/s	1031 Mb/s	Disk Speed Test	✗
Kingston NV1	2021 M1 MacBook Pro	1677 Mb/s	1190 Mb/s	Bench32	✗
Kingston NV1	HP Windows11	1704 Mb/s	1473 Mb/s	DiskMark	✗
Kingston NV1	2021 M1 MacBook Pro	1177 Mb/s	1023 Mb/s	Disk Speed Test	✗
1. Recommended SSDs for Mac devices are Samsung 980PRO and Cosair MP400.					🔒
2. WD BLACK SN750, Kingston NV1 and other non-mainstream SSDs are NOT recommended					⚠️

Image 9: A test report detailing read and write speeds for the Yottamaster 40Gbps M.2 Enclosure (TR6-40Gbps) using various NVMe SSDs and computer models.

8. SPECIFICATIONS

Feature	Detail
Model Number	TR6-C3
Interface	USB4 / Thunderbolt 4 / Thunderbolt 3
Data Transfer Rate	Up to 40Gbps
Compatible SSDs	M.2 NVMe (M Key, B&M Key) 2280 form factor
Unsupported SSDs	M.2 SATA (B Key, B&M Key)
Connector Type	USB Type C
Material	Aluminum Alloy
Dimensions	8.03 x 4.33 x 1.34 inches (Package)
Item Weight	8.8 ounces
Compatible Devices	Laptop, Tablet, Phone, Gaming devices
Operating System Support	Windows, macOS, Linux, Android

9. TROUBLESHOOTING

- **Device Not Recognized:**
 - Ensure the SSD is correctly installed and secured within the enclosure.
 - Try connecting the enclosure to a different USB-C or Thunderbolt port on your device.
 - Test with a different USB-C cable if available.
 - For new SSDs, check Disk Management (Windows) or Disk Utility (macOS) to initialize and format the drive.
- **Slow Transfer Speeds:**
 - Verify that your host device's port supports USB4 or Thunderbolt 3/4 for maximum speed. Connecting to a slower USB port will limit performance.
 - Ensure your NVMe SSD is capable of high speeds.
 - Confirm that the thermal pad and heatsink are properly installed to prevent thermal throttling.
- **Enclosure Overheating:**
 - Ensure the heatsink and thermal pad are correctly applied to the SSD.
 - Avoid placing the enclosure in enclosed spaces that restrict airflow.
 - Prolonged heavy usage can generate heat; this is normal for high-performance NVMe SSDs.

10. WARRANTY AND SUPPORT


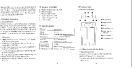
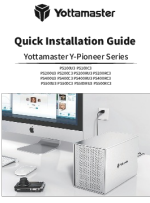



Yottamaster products come with a standard manufacturer's warranty. For specific warranty terms, technical

support, or customer service inquiries, please refer to the warranty card included in your package or visit the official Yottamaster website. You can also contact Yottamaster customer support through the retailer where you purchased the product.

For more information, visit the [Yottamaster Store on Amazon](#).

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Related Documents - TR6-C3

	Yottamaster T7400 PCIe Gen4 NVMe M.2 SSD Enclosure User Manual Comprehensive user manual for the Yottamaster T7400 M.2 NVMe SSD enclosure, detailing installation, usage, features, troubleshooting, and specifications for PCIe Gen4 performance.
	Yottamaster HC1-C3 M.2 NVMe SSD Clone Duplicator User Manual User manual for the Yottamaster HC1-C3, an M.2 NVMe SSD clone duplicator with offline cloning capabilities, USB 3.1 Gen2 10Gbps interface, and tool-free installation. Includes product overview, specifications, operating instructions, notes, warranty, and FCC compliance.
	Yottamaster Y-Pioneer Series Quick Installation Guide A comprehensive quick installation guide for the Yottamaster Y-Pioneer Series external hard drive enclosures, covering appearance, hard drive installation, connection, formatting, RAID setup, drive management, and initialization for Windows and macOS.
	Guida rapida all'installazione Yottamaster Y-Focus Series Questa guida rapida fornisce istruzioni dettagliate per l'installazione e la configurazione dei dispositivi Yottamaster Y-Focus Series, inclusa la gestione dei dischi rigidi e le impostazioni RAID.
	Yottamaster HDD Enclosure Sleep Mode Adjustment Guide Instructions and firmware download guide for adjusting or canceling the auto-sleep mode on Yottamaster multi-bay HDD enclosures, including support models and download links.
	Yottamaster DM NAS Yottamaster DM NAS Samba DLNA 2.5/3.5 SATA HDD/SSD