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Yottamaster Thunderbolt 3 dock with dual m.2 & fan

Yottamaster Thunderbolt 3 Dock User Manual

Model: Thunderbolt 3 dock with dual m.2 & fan

Brand: Yottamaster

Introduction

This manual provides detailed instructions for the Yottamaster Thunderbolt 3 Dock with M.2 NVMe/NGFF Enclosure and Cooling Fan. This 9-in-1 docking station offers high-speed data transfer up to 40Gbps, dual M.2 NVMe/SATA SSD slots, and comprehensive port expansion for your devices. It is designed to enhance your productivity by providing versatile connectivity and efficient cooling for your M.2 drives.

Key Features

- **9-in-1 Multifunction Ports:** Includes 2x Thunderbolt 3 (5V/3A), 1x USB-C Gen 2 (10Gbps, 5V/3A), 1x USB-A Gen 2 (10Gbps, 5V/1.5A), 2x USB-A (5Gbps), 1x HDMI, 1x 3.5mm Headphone Jack, 1x Gigabit Ethernet.
- **High-Speed Data Transfer:** Up to 40Gbps via Thunderbolt 3, ensuring rapid data exchange.
- **Dual M.2 SSD Enclosure:** Supports M-Key/B&M-Key 2280 NVMe SSD (up to 4TB, 40Gbps max) and B&M-Key 2280 SATA (NGFF) SSD (up to 4TB, 6Gbps max).
- **Integrated Cooling Fan:** Optimizes ventilation to maintain optimal operating temperatures for M.2 drives and the dock itself.
- **Power Delivery (PD60W):** Thunderbolt 3 input port supports PD60W charging for your laptop.
- **High-Resolution Display Support:** Supports single 8K@60Hz or dual 4K@30Hz display output via HDMI and DisplayPort (DP1.4+Thunderbolt 3 for multi-task screen display).
- **Wide Compatibility:** Compatible with Windows 8 and above, Mac OS 10.12 and above (including MacBook M1), Thunderbolt 4/USB4. Plug and Play, no drivers required.

Package Contents

Please ensure all items are present and in good condition upon unboxing.

- Yottamaster Thunderbolt 3 Dock
- Thunderbolt 3 Cable
- Power Adapter
- User Manual
- Screwdriver and Screws for M.2 installation



Image: The Yottamaster Thunderbolt 3 Dock shown with various connecting cables, including power, Ethernet, HDMI, USB-C, and audio jack, illustrating the comprehensive connectivity options.

Setup Guide

Connecting the Dock

1. **Connect Power:** Plug the power adapter into the DC-IN port on the dock and then into a power outlet.
2. **Connect to Computer:** Use the provided Thunderbolt 3 cable to connect the dock's Thunderbolt 3 (In) port to your computer's Thunderbolt 3/4 or USB4 port. Ensure your computer has a Thunderbolt 3 port for full functionality.
3. **Connect Peripherals:** Connect your external monitor(s) to the HDMI or DisplayPort, Ethernet cable to the Gigabit Ethernet port, and other USB devices (keyboard, mouse, external drives) to the available USB-A and USB-C ports.
4. **Audio Connection:** Connect headphones or speakers to the 3.5mm audio jack if needed.



Image: A detailed view of the Yottamaster Thunderbolt 3 Dock, highlighting all available ports including DC-IN, Gigabit Ethernet, Thunderbolt 3 (In/Out), DisplayPort, USB-A, USB-C, and Audio In & Out.

Installing M.2 SSDs

The dock features two M.2 slots for storage expansion. One slot supports NVMe SSDs, and the other supports SATA (NGFF) SSDs.

1. **Open Enclosure:** Locate the M.2 enclosure cover on the bottom of the dock. Use the provided screwdriver to remove the screws and open the cover.
2. **Identify Slots:** The enclosure has clearly marked slots for NVMe (M-Key/B&M-Key 2280) and SATA (B&M-Key 2280) SSDs.
3. **Insert SSD:** Gently insert your M.2 SSD into the corresponding slot at a slight angle, then press down and secure it with the provided screw.
4. **Close Enclosure:** Replace the cover and secure it with the screws.



Image: An exploded view diagram of the Yottamaster dock's underside, illustrating the dual M.2 NVMe and SATA SSD enclosure slots and their respective key types and protocols.

Operating Instructions

Data Transfer

The Thunderbolt 3 connection provides a blazing fast 40Gbps bandwidth, allowing for quick transfer of large files to and from connected storage devices, including the internal M.2 SSDs.



Image: A laptop connected to the Yottamaster dock via a Thunderbolt 3 cable, with an arrow indicating 40Gbps data transfer speed, emphasizing the high-speed capability.

Video Output

The dock supports high-resolution video output. For optimal performance, ensure your computer and monitor support the desired resolution and refresh rate.

- **Single Display:** Up to 8K@60Hz via DisplayPort.
- **Dual Display:** Up to Dual 4K@30Hz using HDMI and DisplayPort simultaneously.
- **Note for MacBooks:** MacBook models do not support MST (Multi-Stream Transport). M1 MacBook models can only extend a single monitor due to M1 chip limitations.



Image: A laptop connected to the Yottamaster dock, which in turn is connected to two external monitors, demonstrating the dual display output capability for multi-tasking.

Charging Functionality

The Thunderbolt 3 input port supports Power Delivery (PD) up to 60W, allowing you to charge your compatible laptop while using the dock. Additionally, the dock provides power to connected USB devices.

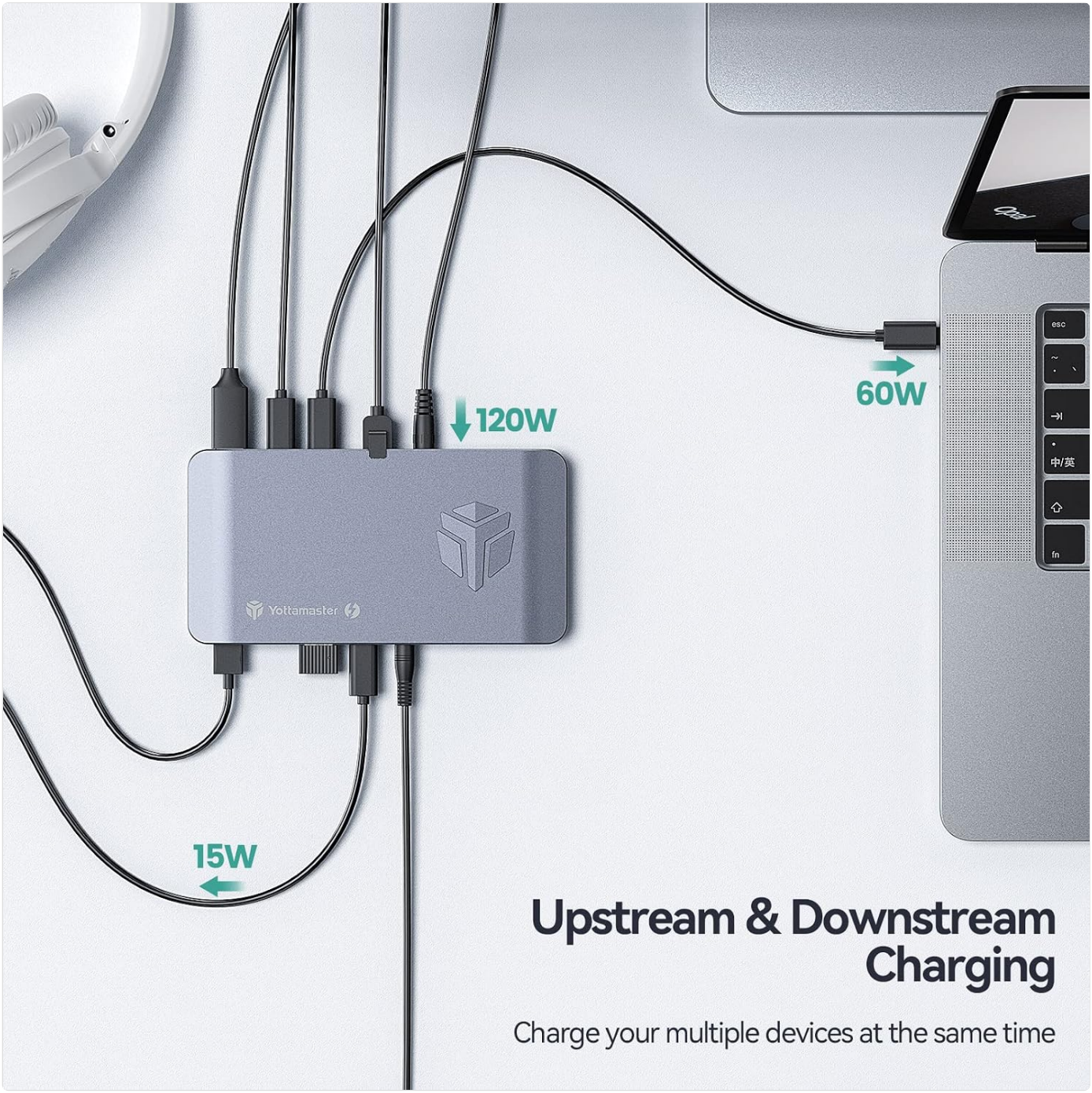


Image: A diagram illustrating the power distribution from the Yottamaster dock, showing 120W input, 60W output to a laptop, and 15W output to a connected USB device, indicating upstream and downstream charging.

Maintenance

Cleaning

To maintain the dock's performance and appearance, regularly wipe its exterior with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.

Fan Maintenance

The integrated cooling fan helps dissipate heat, especially from the M.2 SSDs. Ensure the ventilation holes are not obstructed to allow proper airflow. While the fan is designed for optimal cooling, some noise may be audible during operation.



Image: A transparent view diagram of the Yottamaster dock, highlighting the internal cooling fan and its airflow path, demonstrating the optimized ventilation structure.

Troubleshooting

- **No Power/Dock Not Responding:**
  - Ensure the power adapter is securely connected to both the dock and a working power outlet.
  - Verify the power outlet is functional.
- **Device Not Recognized/No Data Transfer:**
  - Confirm your computer has a Thunderbolt 3 port and that the Thunderbolt 3 cable is securely connected to the correct port on both the dock and your computer.
  - Try a different Thunderbolt 3 cable.
  - Restart your computer and the dock.
  - For M.2 SSDs, ensure they are correctly installed and formatted. Check Disk Management (Windows) or Disk Utility

(macOS).

- **Display Issues (No Signal, Incorrect Resolution):**
  - Check all display cable connections (HDMI/DisplayPort) between the dock and your monitor(s).
  - Ensure your monitor is set to the correct input source.
  - Update your computer's graphics drivers.
  - Verify your computer and monitor support the desired resolution and refresh rate.
  - Remember M1 MacBooks only support single extended display.
- **Fan Noise:**
  - The dock includes an active cooling fan. Some fan noise is normal, especially under heavy load or when M.2 SSDs are actively used.
  - Ensure the dock is placed in a well-ventilated area and that the fan vents are not blocked.

Technical Specifications

Feature	Detail
Brand	Yottamaster
Model Number	Thunderbolt 3 dock with dual m.2 & fan
Interface	Thunderbolt 3
Data Transfer Rate	Up to 40Gbps
USB Ports	2x Thunderbolt 3, 1x USB-C Gen 2 (10Gbps), 1x USB-A Gen 2 (10Gbps), 2x USB-A (5Gbps)
Video Output	1x HDMI, 1x DisplayPort (DP1.4)
Max Resolution (Single)	8K@60Hz
Max Resolution (Dual)	Dual 4K@30Hz
Ethernet Port	Gigabit Ethernet
Audio Port	3.5mm Headphone Jack
M.2 SSD Slots	1x NVMe (M-Key/B&M-Key 2280), 1x SATA (B&M-Key 2280 NGFF)
Max M.2 Capacity	Up to 4TB per slot (8TB total)
Power Delivery	PD60W (via Thunderbolt 3 input)
System Compatibility	Windows 8+, Mac OS 10.12+ (including M1 MacBooks), Thunderbolt 4/USB4
Weight	1020 Grams

Warranty and Support

Yottamaster offers an **18-month warranty** for this product, covering manufacturing defects and malfunctions under normal use. Additionally, lifetime technical support is provided to assist you with any issues or questions you may encounter.

If you experience any problems during use, please contact Yottamaster customer support via the platform where you purchased the product (e.g., Amazon). We aim to respond to inquiries within 12 hours.
For the latest drivers, firmware updates, or additional support resources, please visit the official Yottamaster website.

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Question

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

Details

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