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> WAVLINK WL-UHP3420 8-in-1 USB C Hub with M.2 NVMe/SATA SSD Enclosure - Instruction Manual

WAVLINK WL-UHP3420

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Instruction Manual

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1. OVERVIEW

The WAVLINK WL-UHP3420 is an 8-in-1 USB C Hub designed to expand the connectivity and storage capabilities of your devices. It integrates an M.2 SSD enclosure with multiple high-speed ports, including 4K@144Hz HDMI, 10Gbps USB-A and USB-C data ports, 100W Power Delivery input, and SD/TF card slots. This compact and portable hub is ideal for users seeking enhanced functionality and storage expansion for laptops, desktops, and other compatible devices. This multi-functional hub provides a tool-free SSD installation for a hassle-free experience, making it easy to expand your storage on the go.

Hub USB-C 8 em 1

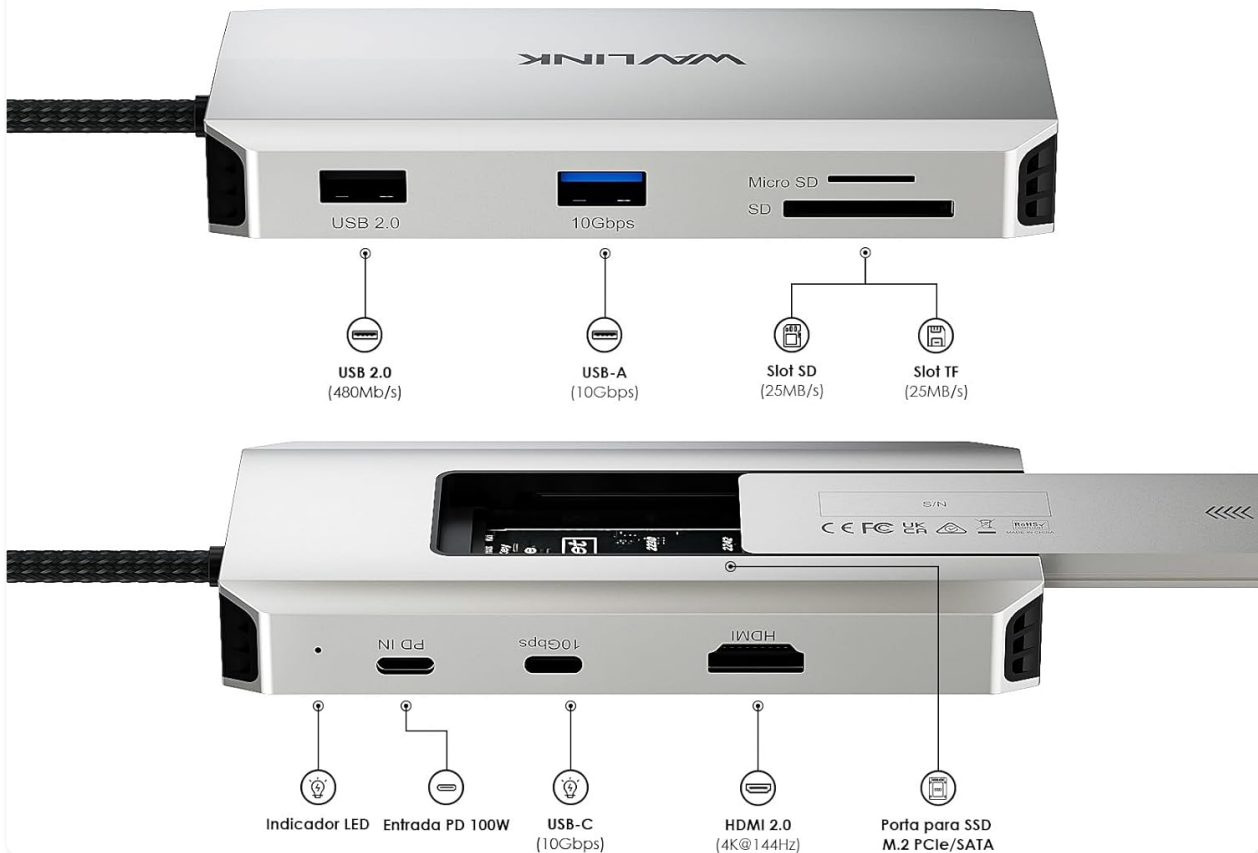


Figure 1: WAVLINK 8-in-1 USB C Hub with all ports labeled, showing USB 2.0, USB-A 10Gbps, Micro SD, SD, LED indicator, 100W PD input, USB-C 10Gbps, HDMI 2.0, and M.2 PCIe/SATA SSD port.

2. KEY FEATURES

- **M.2 SSD Enclosure:** Supports M.2 PCIe SSD (M-Key/B&M Key) up to 10Gbps and M.2 SATA SSD (B&M Key) up to 6Gbps, with a maximum capacity of 4TB. Features tool-free installation.
- **4K@144Hz HDMI Output:** Connect to an external display for high-resolution video output, suitable for demanding tasks like gaming and video editing (requires DP1.4 support from host).
- **USB-C 10Gbps Data Port:** High-speed USB-C port for rapid data transfer and backup.
- **USB-A 10Gbps Data Port:** High-speed USB-A port for rapid data transfer and backup.
- **USB-A 2.0 Port:** Ideal for connecting wireless devices such as keyboards and mice.
- **100W Power Delivery (PD) Input:** Provides up to 87W charging power to your laptop while using the hub. (Requires a 20V/5A/100W charger, not included).
- **SD & TF Card Slots:** Enables easy reading and seamless transfer of data from SD and Micro SD cards.
- **Aluminum Alloy Casing:** Durable and stylish design with enhanced heat dissipation.

Enjoy Immersive Visual Feast

Single display reaches to 4K@144Hz with HDMI(DP1.4)



Figure 2: The hub supports single display output up to 4K@144Hz via HDMI, providing an immersive visual experience for compatible host devices.

3. SETUP

3.1. M.2 SSD Installation

1. Gently slide open the SSD enclosure cover on the bottom of the hub.
2. Align your M.2 SSD (NVMe PCIe M Key/B&M Key or SATA B&M Key) with the slot inside the enclosure.
3. Insert the M.2 SSD into the slot at a 45-degree angle.
4. Gently push down the SSD until it is flat and secure. Use the provided rubber buckle to fix the SSD in place.
5. Place the thermal silicone pad (if provided or desired for optimal heat dissipation) onto the SSD.
6. Slide the enclosure cover back into place until it clicks securely.

Carregamento Ultra-Rápido

A porta Type-C do seu computador deve suportar carregamento.
O carregador e o cabo de carregamento não estão incluídos. (20V/5A/100W)
A porta USB-C PD é apenas para carregamento, não para conexão de periféricos.



Figure 3: The enclosure slides open easily for quick and tool-free SSD installation. Ensure the SSD type is compatible.

3.2. Connecting to Host Device

1. Connect the integrated USB-C cable of the hub to a compatible USB-C port on your laptop, desktop, or smartphone.
2. Ensure your host device's USB-C port supports video output (DP Alt Mode) and charging for full functionality.
3. The blue LED indicator on the hub will illuminate when connected, signifying power and connection status.

Please Note



1.The type-C port of your host should support video output and charging, please use 20V/5A/100W charger(not include).



2.ONLY compatible with M.2 NVMe PCIe M Key/ B&M Key, M.2 SATA B&M Key; Not compatible with M.2 SATA B Key SSDs, mSATA SSDs, or M.2 PCIe AHCI SSDs.



If your M.2 SSD is being used for the first time, you should go to disk management to complete the New Simple Volume Wizard.

Figure 4: The hub features a blue LED indicator for connection status and includes a thermal silicone pad for improved heat dissipation from the M.2 SSD.

Your browser does not support the video tag. Please update your browser.

Video 1: An overview of the WAVLINK USB C Hub, demonstrating its M.2 SSD enclosure and various ports, including HDMI, USB-C, and USB-A. It highlights the ease of SSD installation and connectivity options.

4. OPERATION

4.1. Using Data Ports

- Connect your USB-A or USB-C devices to the respective 10Gbps data ports for high-speed file transfers.
- Use the USB-A 2.0 port for connecting peripherals like wireless mice, keyboards, or printers.
- Insert SD or TF cards into their dedicated slots to access and transfer media files.

4.2. Display Output

- Connect an HDMI cable from the hub's HDMI port to your external monitor or TV.
- Ensure your host device's USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) for video output.
- Adjust display settings on your host device to extend or mirror your screen.

4.3. Power Delivery

- Plug your 20V/5A/100W USB-C power adapter (not included) into the hub's PD IN port.
- The hub will pass through up to 87W of power to charge your connected laptop.
- Verify your computer's charging power requirements; if it exceeds 87W, it may not charge or charge slowly.

Universal Compatibility/Systems/Host Devices

Compatible with Windows, Mac OS, Chrome OS, Linux, iPad OS, Android, iOS, and Harmony OS;



Figure 5: The hub supports up to 100W Power Delivery input, providing 87W for laptop charging. A separate 100W charger is required.

5. COMPATIBILITY

5.1. Operating Systems

- macOS (M1/M2/M3/M4 systems, OS 11 or later)
- Chrome OS (134 or later)
- Windows (10/11)
- Linux (Mint 1 or later)
- iPad OS
- Android
- iOS
- Harmony OS

5.2. Host Device Requirements

- Laptop/PC with at least one Thunderbolt 3/4 or full-functional USB-C port with Video Alt Mode and Data Transfer.
- CPU i7 or higher, RAM 8GB or above recommended for optimal performance.

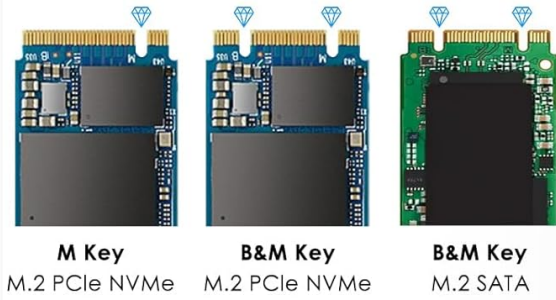
5.3. M.2 SSD Compatibility

- **Compatible:** M.2 NVMe PCIe M Key/B&M Key, M.2 SATA B&M Key.
- **Not Compatible:** M.2 SATA B Key SSDs, mSATA SSDs, or M.2 PCIe AHCI SSDs.

Gabinete para SSD M.2 Perfeito

Certifique-se de que a interface corresponde antes de comprar.

✓ SSDs Suportados



✗ SSDs Não Suportados



Figure 6: Supported M.2 SSD types include M Key PCIe NVMe and B&M Key M.2 SATA. M.2 SATA B Key, mSATA, and M.2 PCIe AHCI SSDs are not supported.



Note Before Purchase:

Please make sure the type-c port of the host support video output(dp alt mode), or the adapter could not work

Examples for Supported Type-C		Examples for Unsupported Type-C	
Thunderbolt 3/4 Full Function		Only Data Transfer	
Data+ Displayport Alt		Only Charging	
Data+PD+ Displayport Alt		Only Data+ Power Delivery	
Others.....		Others.....	

Figure 7: Ensure your host device's Type-C port supports video output (DP Alt Mode) for the hub to function correctly. Examples of supported (Thunderbolt 3/4, Data+DisplayPort Alt Mode, Data+PD+DisplayPort Alt Mode) and unsupported (Only Data Transfer, Only Charging) ports are shown.

6. MAINTENANCE

- The aluminum alloy casing and integrated thermal silicone pad (included) are designed to improve heat dissipation for stable performance of M.2 SSDs.
- Keep the device in a clean, dust-free environment.
- Avoid contact with liquids.

7. TROUBLESHOOTING

- **SSD Not Recognized:** If your M.2 SSD is being used for the first time, you should format it before use. Only then can the SSD be recognized by computers. For Windows, go to Disk Management to complete the New Simple Volume Wizard.
- **No Video Output/Charging:** Ensure the Type-C port of your host device supports video output (DP Alt Mode) and charging. Not all USB-C ports have full functionality.
- **Charging Issues:** Use a 20V/5A/100W charger (not included). Check your computer's charging power; if it requires more than 87W, it may not charge or charge slowly.
- **Incompatible SSD:** Verify that your M.2 SSD is compatible with the enclosure (M.2 NVMe PCIe M Key/B&M Key, M.2 SATA B&M Key). Incompatible types include M.2 SATA B Key SSDs, mSATA SSDs, or M.2 PCIe AHCI SSDs.

Your browser does not support the video tag. Please update your browser.

Video 2: This video demonstrates the installation process of an M.2 NVMe/SATA SSD into the WAVLINK USB C Hub enclosure, highlighting the tool-free design and how to secure the SSD.

8. SPECIFICATIONS

Attribute	Value
Brand	WAVLINK
Model Number	WL-UHP3420
Color	Silver
Enclosure Material	Plastic
Hardware Interface	HDMI, MicroSD, USB 3.0

Special Feature	Fast Charging, Fast Data Transfer
Compatible Devices	Cameras, Desktops, Gaming Consoles, Laptops, Smartphones
Total USB Ports	8
Data Transfer Rate	10 Gigabits Per Second
Number of Ports	8
Operating System	macOS, Chrome OS, Windows, Linux
Minimum Required OS Version	ChromeOs 134, Linux Mint 1, Mac OS X 10.0 Cheetah, Windows 2000 Professional

9. WARRANTY & SUPPORT

This WAVLINK product comes with a **1-Year Warranty**.

For further assistance, technical support, or to download drivers and manuals, please visit the official WAVLINK product page:

[WAVLINK Product Support Page](#)