MOKiN UC6101B

MOKiN UC6101B USB C to USB C Dual Monitor Hub Instruction Manual

Model: UC6101B | Brand: MOKiN

1. PRODUCT OVERVIEW

The MOKiN UC6101B USB C to USB C Dual Monitor Hub is a versatile 5-in-1 adapter designed to expand the connectivity of your USB-C enabled devices. It features dual 4K@60Hz video output via DisplayPort Alt Mode 1.4, high-speed 10Gbps data transfer, and 100W Power Delivery (PD) charging. This hub transforms a single USB 4/Thunderbolt 4 port into a multi-functional workstation, ideal for enhancing productivity across various operating systems and devices.

Key Features:

- **Dual 4K@60Hz Video Output:** Supports two external USB-C monitors with 4K resolution at 60Hz refresh rate via DP Alt Mode 1.4.

- **10Gbps Data Transfer:** Two USB-C 3.1 ports provide data transfer speeds up to 10Gbps.

- **100W Power Delivery:** Features a dedicated PD charging port, allowing up to 87W pass-through charging for your host device.

- **5-in-1 Connectivity:** Combines video output, data transfer, and power delivery in a compact design.

- **Wide Compatibility:** Designed for Thunderbolt 4/USB 4 laptops, compatible with Windows PCs, Steam Deck, Android devices, and USB-C monitors.

2. PRODUCT DIAGRAM AND PORTS

Familiarize yourself with the ports and indicators on your MOKiN UC6101B hub.

5-IN-1 USB C Hub

Video + Data Type C Port
(4K@60Hz & 10Gbps Data Transfer)

PD3.0
(100W Fast Charging)
only charging

USB 3.1
(10Gbps)
only data transfer

Image: Top-down view of the MOKiN UC6101B USB C Hub, highlighting its compact design and the MOKiN logo.

USB-C Ports Satisfy All Your Needs

4.5W Charging
(5V/0.9A Max. Output)

10Gbps
(High-speed Data Transfer)

4K@60Hz
(HD Video Output)

Image: Close-up view of the MOKiN UC6101B USB C Hub, showing the two USB-C DP Alt Mode ports (4K@60Hz & 10Gbps Data Transfer), two USB 3.1 (10Gbps data only) ports, and the PD3.0 (100W Fast Charging) port.

Port Descriptions:

- **2 x USB-C DP Alt Mode Ports:** These ports support dual 4K@60Hz video output, 10Gbps data transfer, and 4.5W charging (5V/0.9A Max Output). Connect your USB-C monitors here.

- **2 x USB-C 3.1 Data Ports:** These ports are for data transfer only, offering speeds up to 10Gbps. They do not support video output or charging for external devices.

- **1 x 100W PD Charging Port:** Connect your laptop's power adapter to this port to provide up to 87W pass-through charging to your host device while using the hub.

3. SETUP INSTRUCTIONS

Follow these steps to set up your MOKiN UC6101B hub:

1. **Connect the Hub to Your Host Device:** Plug the integrated USB-C cable from the MOKiN hub into a fully functional USB-C port (Thunderbolt 3/4 or USB 4) on your laptop, desktop, or compatible device.

2. **Connect External Monitors:** Connect your USB-C monitors to the two USB-C DP Alt Mode ports on the hub. Ensure your monitors support USB-C video input.

3. **Connect Power Adapter (Optional but Recommended):** For stable performance and to charge your host device, connect your laptop's power adapter (not included) to the 100W PD charging port on the hub.

4. **Connect Data Devices:** Plug any USB-C data devices (e.g., external SSDs, flash drives) into the two USB-C 3.1 data ports.

Your browser does not support the video tag.

Video: This video demonstrates the setup process of the MOKiN USB C to USB C Dual Monitor Hub, showing how to connect it to a laptop and external monitors.

4. OPERATING MODES

4.1. Windows Operating System:

For Windows laptops with Thunderbolt 4/USB 4 ports, the hub supports both MST (Multi-Stream Transport) and SST (Single-Stream Transport) modes, allowing for extended dual displays.

NOTE: Only applicable to laptops with fully functional USB-C ports, Thunderbolt 3/4, and USB4 ports

Image: Diagram illustrating a Windows laptop connected to two external monitors, demonstrating an extended display setup (A+B+C).

- **Extended Mode:** Each external monitor can display different content, extending your desktop workspace.
- **Mirror Mode:** Both external monitors can display the same content as your laptop screen.

4.2. macOS Operating System:

Due to limitations of the macOS system, dual-monitor MST (Multi-Stream Transport) is not supported. macOS will only support mirror mode for external displays.

Image: Diagram illustrating a macOS laptop connected to two external monitors, showing that only mirror mode (A+B+B) is supported, and extended mode (A+B+C) is not available.

- **Mirror Mode Only:** All connected external monitors will display the same content as your MacBook screen.

4.3. Other Compatible Devices:

The hub is compatible with devices like Steam Deck and Android smartphones/tablets that support DisplayPort Alt Mode. Functionality may vary based on the device's capabilities and operating system.

Wide Compatibility with Thunderbolt4/USB4

| Devices

All-in-one PC

Laptop

iPad

iPhone

| Systems

Windows

macOS

iPadOS

ChromeOS

Android

Image: Visual representation of the hub's wide compatibility with devices like All-in-one PCs, Laptops, iPads, iPhones, and systems including Windows, macOS, iPadOS, ChromeOS, and Android.

5. POWER DELIVERY (PD)

The MOKiN UC6101B hub supports 100W Power Delivery 3.0, allowing you to charge your host device while using the hub's other functions.

- **Input:** The PD port can receive up to 100W from a compatible USB-C power adapter.

- **Output:** The hub provides up to 87W pass-through charging to your connected laptop or host device. The remaining wattage is used to power the hub itself and any connected peripherals.

- **Note:** The power adapter and USB-C to USB-C charging cable are not included and must be purchased separately.

Image: Illustration of a laptop being charged via the MOKiN hub's PD port, showing 100W input from a wall charger and 85W output to the laptop.

Your browser does not support the video tag.
Video: This video demonstrates the 100W Power Delivery feature of the MOKiN USB C Hub, showing a laptop charging while connected to the hub.

6. DATA TRANSFER

The two USB-C 3.1 data ports on the MOKiN UC6101B hub provide high-speed data transfer capabilities.

- **Speed:** Enjoy data transfer speeds of up to 10Gbps, which is significantly faster than USB 2.0.
- **Usage:** Ideal for quickly transferring large files from external SSDs, flash drives, or other USB-C storage devices.

Image: A laptop connected to the MOKiN hub, demonstrating fast file transfer speeds of 10Gbps to an external storage device.

7. Compatibility Notes

For optimal performance, ensure your host device meets the following requirements:

- **Fully Functional USB-C Port:** Your laptop must have a fully functional USB-C port that supports DisplayPort Alt Mode (DP Alt Mode) and Power Delivery. This includes Thunderbolt 3/4 and USB 4 ports.

- **macOS Limitations:** Dual-monitor MST (extended display with different content on each external monitor) is not supported on macOS systems. Only mirror mode is available.

- **Windows Systems:** Supports MST/SST dual-display modes for extended 4K/60Hz output on two USB-C monitors.

- **Other Devices:** Compatible with USB-C monitors, AR glasses, Steam Deck, Windows PCs, and Android devices that support DP Alt Mode.

Warm tip: Only applicable to laptops with fully functional USB-C ports, Thunderbolt 3/4, and USB4 ports

Thunderbolt 3/4 ✅

Full Function USB C Port ✅

USB4 Port ✅

Only Data Transfer ⛔

Only Charging ⛔

Only Data Transfer & Charging ⛔

Image: A visual guide explaining the difference between Thunderbolt 3/4, Full Function USB-C, and USB4 ports, indicating which support data, charging, and video.

Image: A compatibility chart listing various laptop brands (Dell, HP, Lenovo, Apple, ASUS) and operating systems (Windows, macOS, Chrome OS, iPad OS, Android) compatible with the hub.

8. TROUBLESHOOTING AND IMPORTANT TIPS

- **Power Supply Suggestions:** Considering the power consumption of the product and the limited maximum output of your laptop's USB-C port, connecting multiple ports to the dock can result in a relatively high load. To prevent insufficient power allocation, it is recommended to connect a 100W power supply to the dock. Using a power supply lower than 65W may result in slow charging or no charging of the computer.

- **About 4 Displays:** When using DP1.4, it is possible to extend to 3 displays, depending on the processor's support for 3 monitors. However, if the laptop does not have a dedicated graphics card, the laptop's screen may go black when extending to 3 displays.

- **About Apple:** Due to the limitation of only allowing a single video signal output, MacBooks do not support MST (Multi-Stream Transport).

- **After Connecting:** Make sure to connect the power supply to the docking station to ensure proper functionality.

- **Compatibility:** We do not recommend using any other converters with the docking station as we cannot guarantee compatibility.

Image: A summary of warm tips covering power supply, 4-display considerations, macOS limitations, connection procedures, and general compatibility warnings.

9. Specifications

Feature	Detail
Model Number	UC6101B
Brand	MOKiN
Color	Grey
Hardware Interface	USB Type C
Total USB Ports	5 (2x USB-C DP Alt Mode, 2x USB-C 3.1 Data, 1x 100W PD)
Video Output	Dual 4K@60Hz (DP Alt Mode 1.4)
Data Transfer Speed	10Gbps (USB-C 3.1)
Power Delivery	100W PD (up to 87W pass-through)
Item Weight	2.46 ounces
Package Dimensions	7.91 x 2.56 x 0.75 inches
Date First Available	December 9, 2024

10. Warranty and Support

MOKiN products are designed for reliability and performance. For any questions, operational problems, or support needs, please contact MOKiN customer service. Refer to your product packaging or the official MOKiN

website for specific warranty details and contact information.

Note: This manual provides general instructions. Product features and specifications are subject to change without notice.