SSK SC221

SSK Powered USB 3.2 Hub SC221 User Manual

Model: SC221

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your SSK Powered USB 3.2 Hub (Model SC221). Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

PRODUCT FEATURES

- **7-Port Connectivity:** Equipped with two 10Gbps USB-A ports, two 10Gbps USB-C ports, dual 4K HDMI ports, and one 100W PD 3.0 charging port.

- **Super-Fast Data Transfer:** Four data ports (2x USB-A, 2x USB-C) support up to 10Gbps, allowing rapid transfer of large files.

- **100W Power Delivery:** The dedicated USB-C PD 3.0 port provides efficient charging for compatible laptops and devices.

- **Dual 4K HDMI Display:** Supports dual monitor output at 4K@30Hz simultaneously, or a single monitor at up to 4K@60Hz.

- **Wide Compatibility:** Compatible with various operating systems including Windows, Mac OS, Linux, Android, and Chromebook, and devices such as MacBook Pro/Air, Dell XPS, ASUS laptops, HUAWEI MateBook, HP Spectre Notebook, LENOVO ThinkPad, iPad, iPhone 15, and more.
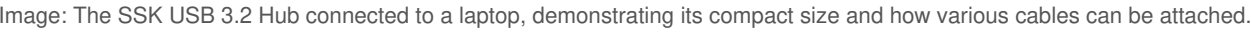
Image: Overview of the SSK 7-in-1 USB 3.2 Hub, highlighting its various ports including USB 3.2 Gen 2 Type-C, USB 3.2 Gen 2 Type-A, HDMI 1 (4K@60Hz), HDMI 2 (4K@30Hz), and Type-C PD (100W).

PACKAGE CONTENTS

- SSK Powered USB 3.2 Hub (Model SC221)
- User Manual

SETUP INSTRUCTIONS

1. **Connect to Host Device:** Plug the integrated USB-C cable from the SSK Hub into a full-function USB-C port on your laptop, tablet, or smartphone. Ensure the host device's USB-C port supports Power Delivery, DisplayPort Alternate Mode, and Data transfer.

2. **Connect Power Adapter (Optional but Recommended):** For optimal performance, especially when using multiple peripherals or charging your host device, connect a USB-C PD power adapter (not included) to the hub's 100W PD charging port.

3. **Connect Peripherals:** Connect your USB devices (flash drives, external hard drives, keyboards, mice, etc.) to the available USB-A and USB-C data ports.

4. **Connect Displays:** Connect your HDMI monitors to the HDMI 1 and HDMI 2 ports on the hub.

Image: The SSK USB 3.2 Hub connected to a laptop, demonstrating its compact size and how various cables can be attached.

Check Your Laptop Before Purchase

Before purchase,please ensure your laptop's USB C port supports
Power Delivery,DisplayPort,and Data transfer

✔ Full Function	✖ Data Only
✔ Data Video Outpu	✖ Data only
✔ Data+DisplayPort Alt	✖ Charging Only
✔ Data+Charging+ DisplayPort Alt	✖ Data+Charging Only

Image: A diagram illustrating various USB-C port types on laptops, indicating which support full functionality (Power Delivery, DisplayPort, Data) and which only support data, charging, or data+charging. Ensure your laptop's USB-C port is full-function for optimal hub performance.

OPERATING INSTRUCTIONS

Data Transfer

The hub features two USB-A 3.2 Gen 2 ports and two USB-C 3.2 Gen 2 ports, each capable of data transfer speeds up to 10Gbps. Simply connect your compatible storage devices (e.g., flash drives, external SSDs) to these ports for high-speed data access.
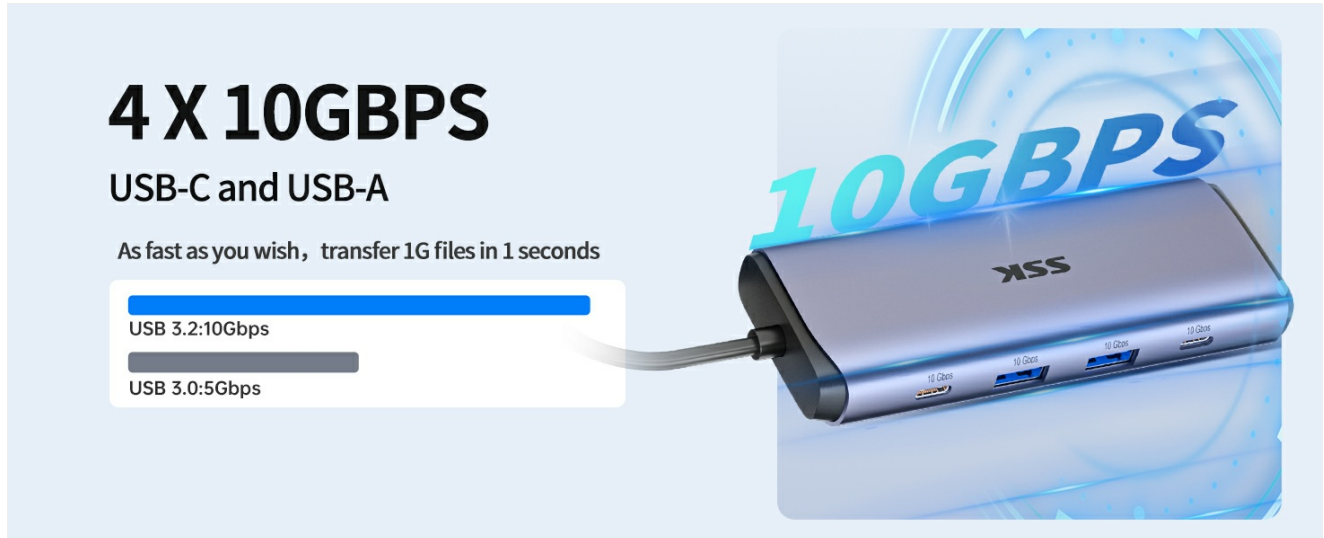

Image: Illustration of the four 10Gbps USB-C and USB-A data ports, emphasizing their high-speed data transfer capabilities.

Power Delivery (PD)

The dedicated USB-C PD port supports up to 100W power input. When a compatible USB-C PD charger is connected to this port, the hub can pass through power to charge your host laptop or device, while also powering connected peripherals. Note that a portion of the power is used by the hub itself.
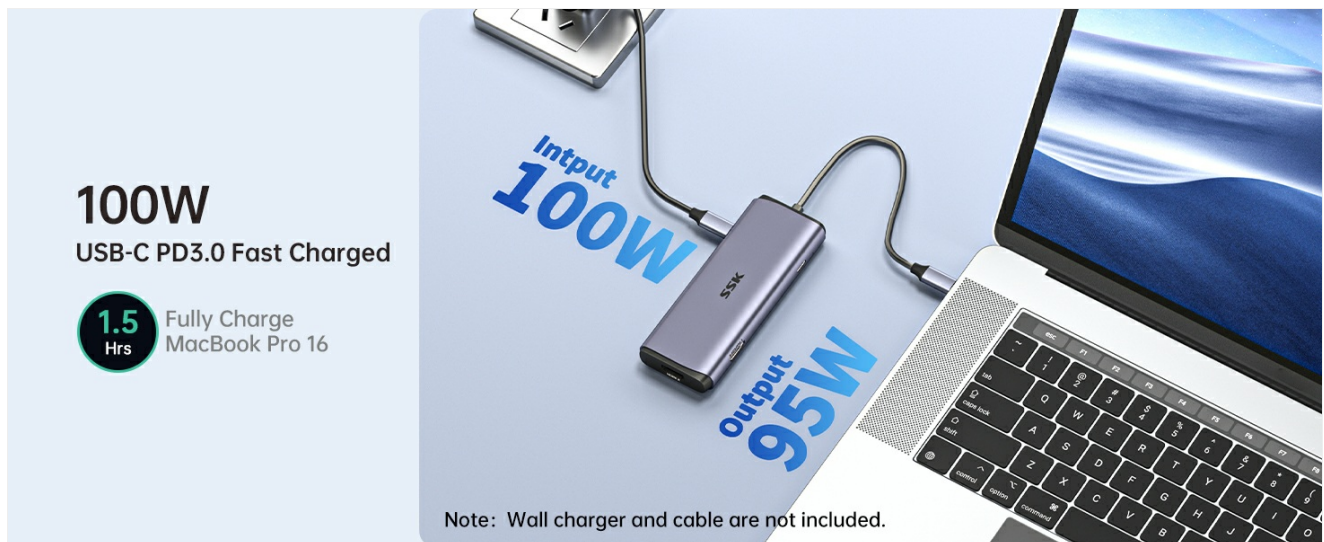

Image: A visual representation of the 100W USB-C PD3.0 charging feature, showing power input to the hub and output to a MacBook Pro.

Display Configuration

The hub supports connecting up to two external monitors via its dual HDMI ports. The HDMI 1 port supports up to 4K@60Hz when used alone, while both HDMI 1 and HDMI 2 ports support up to 4K@30Hz when used simultaneously.
Windows OS:

- **Extend Mode:** Allows for an extended desktop across your laptop screen and two external monitors (A+B+C).
- **Mirror Mode:** Displays the same content on all connected screens (A+A+A).

macOS:

- **Extend Mode:** Due to macOS limitations, extended monitors will display the same content (A+AA or A+BB). True MST (Multi-Stream Transport) for independent extended displays is not supported on macOS.
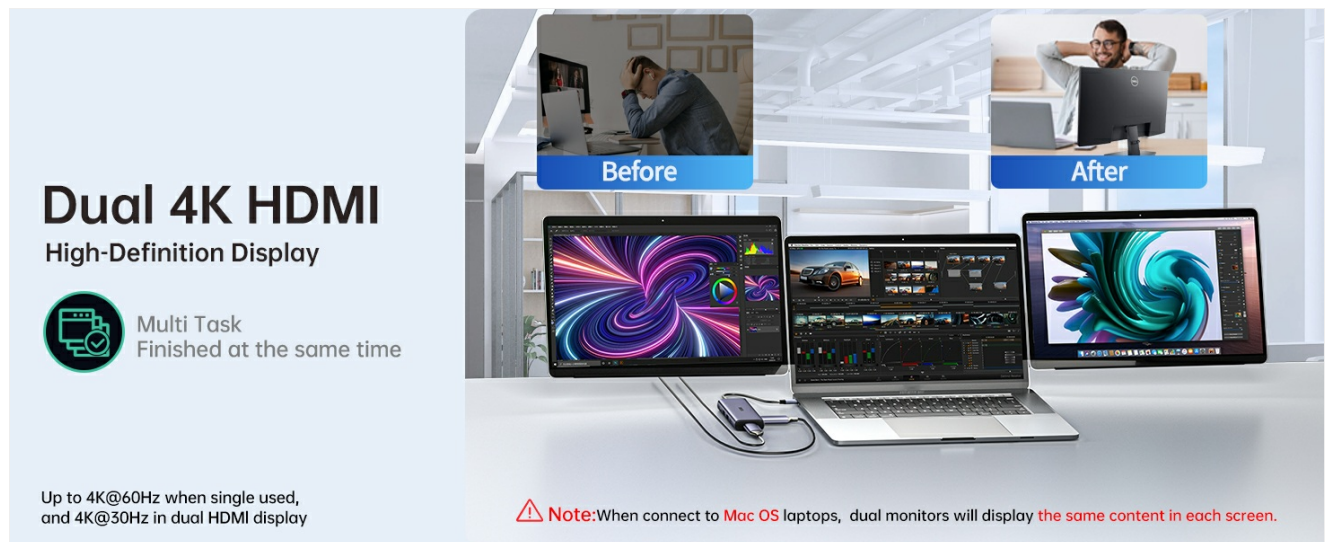- **Mirror Mode:** Displays the same content on all connected screens (A+A+A).

Image: A workstation setup demonstrating a laptop connected to two external monitors via the SSK Hub, enabling dual 4K HDMI high-definition display for multitasking.
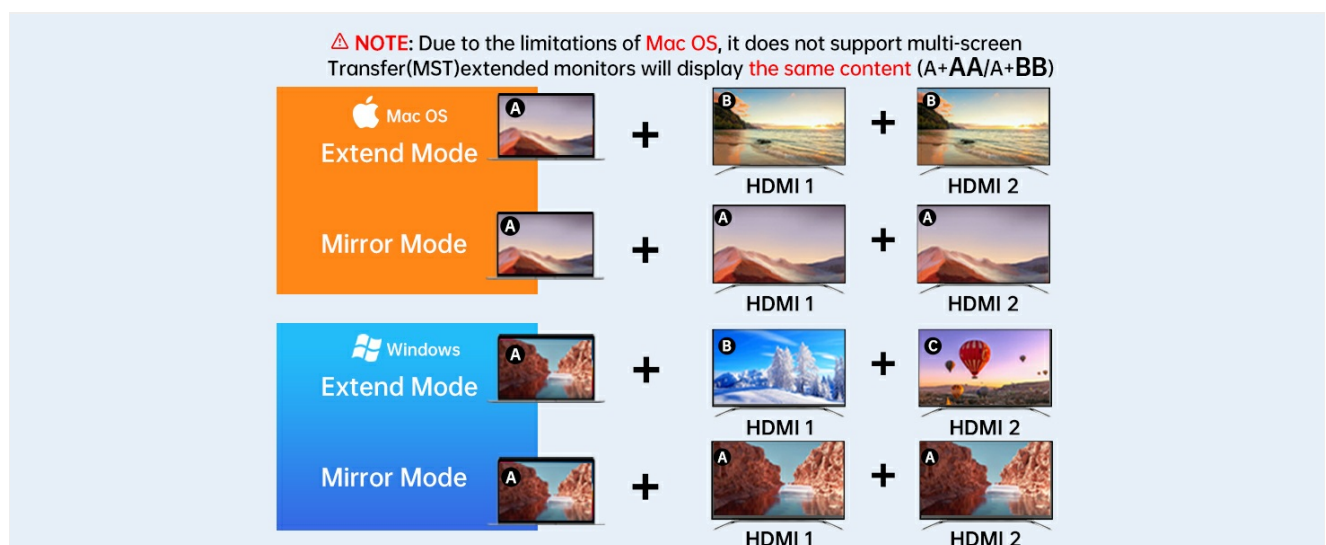

Image: A detailed diagram showing the differences in multi-display modes (Extend and Mirror) between Mac OS and Windows when using the hub, specifically noting macOS limitations regarding MST.

COMPATIBILITY

The SSK USB 3.2 Hub is designed for broad compatibility with devices featuring a full-function USB-C port. This includes:

- **Laptops:** MacBook Pro, MacBook Air, Dell XPS, ASUS laptops, HUAWEI MateBook, HP Spectre Notebook, LENOVO ThinkPad, and other laptops with USB-C.
- **Tablets:** iPad Pro, iPad Air, and other tablets with USB-C.

- **Smartphones:** iPhone 15 series, HUAWEI P20/30, LG G5, HTC 10, and other smartphones with USB-C.
- **Operating Systems:** Windows, Mac OS, Linux, Android, Chromebook.

Note: Before purchasing, please verify that your laptop's USB-C interface supports Power Delivery, DisplayPort Alternate Mode, and Data transfer for full functionality.

Image: A visual guide to the universal compatibility of the SSK Hub, showing various devices (USB flash drives, laptops, tablets, smartphones, HDDs, TVs) and operating systems (Windows, Mac OS, iPad OS, Android) it supports.

MAINTENANCE

- Keep the hub clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the hub to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to disassemble or repair the device yourself. This will void the warranty.
- Disconnect the hub from your host device and power source when not in use for extended periods.

TROUBLESHOOTING

Issue	Possible Solution
No display output / Display flickering	Ensure your host device's USB-C port supports DisplayPort Alternate Mode. Check all HDMI cable connections. Try connecting one monitor at a time to isolate the issue. For macOS users, remember that extended monitors will mirror each other (A+AA or A+BB), not provide independent extended displays. Ensure the hub is receiving sufficient power, especially when using multiple displays. Connect a PD charger to the hub.
USB devices not recognized or slow transfer speeds	Ensure your host device's USB-C port supports data transfer. Reconnect the USB device and the hub. Try connecting the USB device directly to your host device to confirm functionality. Ensure the hub is powered, especially for power-hungry USB devices.

Issue	Possible Solution
Host device not charging via PD port	Ensure your host device's USB-C port supports Power Delivery. Verify that the power adapter connected to the hub's PD port is functional and provides sufficient wattage (e.g., 100W). Check the USB-C cable connecting the power adapter to the hub.
Hub feels warm during operation	It is normal for the hub to generate some heat during operation, especially when multiple ports are in use or when charging. Ensure adequate ventilation around the device.

SPECIFICATIONS

Feature	Detail
Model Number	SC221
Total USB Ports	7
USB Data Ports	2 x USB-A 3.2 Gen 2 (10Gbps), 2 x USB-C 3.2 Gen 2 (10Gbps)
HDMI Ports	2 x HDMI (HDMI 1: up to 4K@60Hz single, HDMI 2: up to 4K@30Hz dual)
Power Delivery Port	1 x USB-C PD 3.0 (up to 100W input)
Hardware Interface	USB
Item Weight	4.6 ounces (130 grams)
Package Dimensions	7.91 x 3.98 x 0.94 inches
Compatible Devices	MacBook Pro, Dell XPS, ASUS laptops, HUAWEI MateBook, HP Spectre Notebook, LENOVO ThinkPad, HUAWEI P20/30, LG G5, HTC 10, etc.
Operating Systems	Windows, Mac OS, Linux, Android, Chromebook

WARRANTY AND SUPPORT

SSK products are designed for reliability and performance. For warranty information or technical support, please refer to the official SSK website or contact their customer service directly. Keep your purchase receipt for warranty claims.