

SIIG JU-DK0K11-S1

SIIG Thunderbolt 3 Dock (JU-DK0K11-S1) User Manual

Model: JU-DK0K11-S1 | Brand: SIIG

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SIIG Thunderbolt 3 Dock, model JU-DK0K11-S1. This docking station is designed to expand the connectivity and storage capabilities of your Thunderbolt 3-enabled computer, offering multiple ports for peripherals, high-resolution display outputs, and dual M.2 NVMe SSD slots.

Please read this manual thoroughly before using the product to ensure proper setup and functionality.

PRODUCT FEATURES

- **Advanced Connectivity:** Transforms a single Thunderbolt 3 port into a comprehensive workstation with additional Thunderbolt 3, DisplayPort 1.4, USB 3.1 10Gbps Type A/C, USB 3.1 Gen1 Type-A with BC 1.2, Gigabit Ethernet, SD (UHS-II) memory card reader, and stereo audio/microphone ports.
- **Power Delivery:** Supports Power Delivery 3.0, providing up to 96 watts of charging to your host laptop.
- **High-Resolution Video Output:** Connect two 4K@60Hz Ultra HD displays simultaneously via Thunderbolt 3 and DisplayPort. A single 8K@30Hz display is supported through the source Thunderbolt 3 DP 1.4 port.
- **Dual M.2 NVMe Storage:** Features two M Key 2280 form factor SSD slots, allowing for up to 8TB per SSD (total 16TB) and data transfer speeds up to 1500Mbps per installed SSD. Compatible with M Key PCIe NVMe/AHCI M.2 SSDs only (SSD not included).
- **USB 3.1 Ports:** Includes two USB-A 3.1 Gen1 with BC 1.2 (5V/2.4A) ports (up to 5Gbps), one USB-A 3.1 Gen2 BC 1.2 (5V/2.4A) port (up to 10Gbps), and one USB-C 3.1 Gen2 port (5V/3A) (up to 10Gbps).
- **SD Memory Card Reader:** SD (UHS-II) compatible, supporting data transfer up to 270Mbps and a maximum capacity of 2TB.

PACKAGE CONTENTS

The package for the SIIG Thunderbolt 3 Dock (JU-DK0K11-S1) typically includes the following items:

- SIIG Thunderbolt 3 Dock (JU-DK0K11-S1)

- Power Adapter (150W)
- Thunderbolt 3 Cable
- User Manual
- M.2 SSD mounting screws (typically in a separate bag)



Image: Contents of the SIIG Thunderbolt 3 Dock package.

PRODUCT OVERVIEW

Familiarize yourself with the ports and indicators on your SIIG Thunderbolt 3 Dock.

Interface Connection



Image: Front and rear panel connections of the SIIG Thunderbolt 3 Dock.

Front Panel Ports:

- **3.5mm Microphone Jack:** For connecting a microphone.
- **3.5mm Stereo Audio Jack:** For connecting headphones or speakers.
- **SD (UHS-II) Card Reader:** For reading SD memory cards.
- **USB-A 3.1 Gen 1 (5Gbps / BC 1.2):** For connecting USB-A devices and charging.
- **USB-C 3.1 Gen 2 (10Gbps / 15W Charging):** For connecting USB-C devices and charging.
- **Power LED:** Indicates power status.

Rear Panel Ports:

- **Thunderbolt 3 Host (PD 87W / DP 1.4 Alt Mode):** Connects to your computer. Provides power delivery and display output.
- **Thunderbolt 3 (Daisy Chain Port):** For connecting additional Thunderbolt devices.
- **DisplayPort 1.4 Video Output:** For connecting an external display.
- **USB-A 3.1 Gen 2 (10Gbps / BC 1.2):** For connecting USB-A devices and charging.
- **USB-A 3.1 Gen 1 (5Gbps / BC 1.2):** For connecting USB-A devices and charging.

- **Gigabit LAN:** For wired network connection.
- **Power Jack (150W):** Connects to the included power adapter.

SETUP INSTRUCTIONS

1. **Connect Power:** Connect the included 150W power adapter to the Power Jack on the rear of the docking station, then plug the adapter into a power outlet. The Power LED on the front panel should illuminate.
2. **Connect to Host Computer:** Use the provided Thunderbolt 3 cable to connect the "Thunderbolt 3 Host" port on the rear of the dock to a Thunderbolt 3 port on your laptop or desktop computer.
3. **Install NVMe SSDs (Optional):** If you plan to use the internal M.2 NVMe storage, refer to the "NVMe SSD Installation" section for detailed instructions before connecting other peripherals.
4. **Connect Displays:**
 - For a single display, connect your monitor to the DisplayPort 1.4 output or use a Thunderbolt 3 to DisplayPort/HDMI adapter with the Thunderbolt 3 daisy chain port.
 - For dual displays, connect one monitor to the DisplayPort 1.4 output and the second monitor to the Thunderbolt 3 daisy chain port using an appropriate adapter or a Thunderbolt 3 monitor.
5. **Connect Peripherals:** Connect your USB devices (keyboard, mouse, external drives), Ethernet cable, and audio devices to the corresponding ports on the dock.
6. **Driver Installation:** In most cases, the dock is plug-and-play. However, ensure your computer's Thunderbolt 3 drivers and firmware are up to date for optimal performance.

OPERATING INSTRUCTIONS

Once the SIIG Thunderbolt 3 Dock is set up, it operates automatically with your connected computer. Here are some key operational aspects:

- **Power On/Off:** The dock powers on automatically when connected to power and a host computer. Disconnecting the host computer or power adapter will power it off.
- **Charging:** Your host laptop will receive up to 96W of power through the Thunderbolt 3 host connection. USB ports also provide charging capabilities as specified in the "Product Overview" section.
- **Hot-Swapping:** Most USB and audio devices can be connected or disconnected while the dock is in operation. For external displays and NVMe SSDs, it is recommended to disconnect them safely through your operating system before physically removing them.
- **Daisy Chaining:** The Thunderbolt 3 daisy chain port allows you to connect up to five additional Thunderbolt devices, expanding your connectivity further.

DISPLAY CONFIGURATION

The SIIG Thunderbolt 3 Dock supports various display configurations:

8K@30Hz Resolution Supported

Extends up to two 4K@60Hz monitors to gain more productivity



DP 1.4 Alt Mode Host

DP 1.2 Alt Mode Host

Either DisplayPort or TBT3 Connector

Single 8K@30Hz

Single 4K@60Hz

Simultaneously DisplayPort and TBT3 Connector

Dual 4K@60Hz

Dual 4K@30Hz

Image: Display resolution capabilities of the SIIG Thunderbolt 3 Dock.

- **Single Display (8K@30Hz):** Connect a single 8K monitor to the DisplayPort 1.4 output. Ensure your host computer's Thunderbolt 3 port supports DP 1.4 Alt Mode.
- **Dual Displays (4K@60Hz):** Connect one 4K monitor to the DisplayPort 1.4 output and a second 4K monitor to the Thunderbolt 3 daisy chain port (using a compatible adapter or monitor).
- **Compatibility:** For Mac M1/M2/M3 Pro/Max, the dock supports single extended video output.

Adjust display settings (resolution, arrangement, mirroring/extending) through your operating system's display preferences.

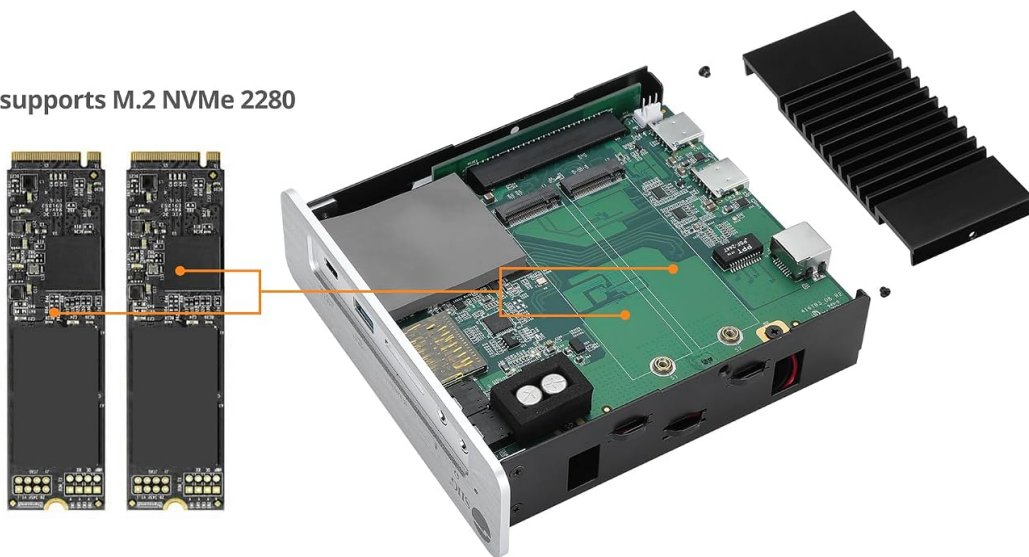
NVMe SSD INSTALLATION

The dock supports two M Key 2280 form factor PCIe NVMe/AHCI M.2 SSDs. Follow these steps to install an SSD:

Dual M.2 PCIe NVMe Supported

Supports up to 8TB capacity for each SSD, total 16TB combined,
ultra high-speed data transfer rate up to 1500Mbps each

Only supports M.2 NVMe 2280



PCIe NVMe SSD



B+M KEY

PCIe NVMe SSD



M KEY

PCIe AHCI SSD



M KEY

15x FASTER data transfer speed



Image: Internal structure showing dual M.2 NVMe SSD slots and compatible SSD types.

1. **Power Off:** Ensure the docking station is disconnected from power and your host computer.
2. **Access Internal Slots:** Loosen the two thumb screws on the rear of the dock. Gently slide the internal tray out from the front of the enclosure.
3. **Remove Cover:** Remove the two Phillips screws securing the internal cover to access the M.2 slots.
4. **Install SSD:** Carefully insert your M Key 2280 PCIe NVMe/AHCI M.2 SSD into an available slot at a slight angle. Push down gently and secure it with the provided M2.5 screw.
5. **Reassemble:** Replace the internal cover and secure it with the Phillips screws. Slide the internal tray back into the enclosure and tighten the thumb screws.
6. **Format SSD:** After connecting the dock to your computer, the new SSD(s) will appear as unformatted drives. Use your operating system's disk management utility to initialize and format the SSD(s) before use.

Note: Only M Key PCIe NVMe/AHCI M.2 SSDs are supported. B+M Key SATA SSDs are not compatible.

SPECIFICATIONS

Brand	SIIG
Model Number	JU-DK0K11-S1

Hardware Interface	Thunderbolt 3, DisplayPort 1.4, Ethernet, USB 3.1 Type A, USB Type C, Headphone, MicroSD
Compatible Devices	Desktop or Laptop with an available Thunderbolt 3 port
Total USB Ports	4 (2x USB-A 3.1 Gen1, 1x USB-A 3.1 Gen2, 1x USB-C 3.1 Gen2)
Number of Ports	9 (excluding M.2 slots)
Power Delivery	Up to 96W to host
Power Adapter	150W
Video Output	Single 8K@30Hz (DP 1.4 Alt Mode) or Dual 4K@60Hz
M.2 NVMe Slots	2x M Key 2280 PCIe Gen3 NVMe/AHCI (up to 1500Mbps per SSD)
SD Card Reader	UHS-II (up to 270Mbps, max 2TB)
Product Dimensions	5.86"L x 5.55"W x 1.67"H
Item Weight	1.98 Pounds
Minimum OS	Windows 10

TROUBLESHOOTING

No Power / Power LED Off:

- Ensure the 150W power adapter is securely connected to the dock and a working power outlet.
- Verify the power outlet is functional.

No Display Output:

- Confirm the Thunderbolt 3 cable is securely connected between the dock and your host computer.
- Ensure your monitor is powered on and set to the correct input source.
- Check display cables (DisplayPort, Thunderbolt to DisplayPort/HDMI) for secure connections.
- Update your computer's graphics drivers and Thunderbolt 3 drivers/firmware.
- Verify your computer's Thunderbolt 3 port supports DP Alt Mode for video output.
- For Mac M1/M2/M3, remember that only single extended display output is supported.

USB Devices Not Working:

- Try connecting the USB device to a different USB port on the dock.
- Connect the USB device directly to your computer to confirm it is functional.
- Ensure the dock is properly connected to your host computer via Thunderbolt 3.

Ethernet Connection Issues:

- Check the Ethernet cable connection between the dock and your router/modem.
- Verify network settings on your computer.
- Test the Ethernet cable with another device or directly connect your computer to the network.

NVMe SSD Not Detected:

- Ensure the SSD is correctly installed and secured within the dock (refer to "NVMe SSD Installation").
- Verify the SSD is an M Key PCIe NVMe/AHCI M.2 2280 type. SATA M.2 SSDs are not compatible.
- Check your computer's Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but unformatted. Initialize and format if necessary.
- Ensure your computer's Thunderbolt 3 drivers are up to date.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid liquid cleaners or solvents.
- **Ventilation:** Ensure the dock has adequate airflow around it to prevent overheating, especially when multiple devices are connected or NVMe SSDs are in use.
- **Firmware Updates:** Periodically check the SIIG website for any available firmware updates for the docking station to ensure optimal performance and compatibility.

OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official overview of the SIIG JU-DK0K11-S1 Thunderbolt 3 Docking Station, demonstrating its features and connectivity options.

WARRANTY AND SUPPORT

SIIG provides a Manufacturer Warranty for its products. For technical support or warranty inquiries, please contact SIIG directly through their official channels. You can typically find contact information on the SIIG website or through the retailer where the product was purchased.

For further assistance, you may visit the [SIIG Store on Amazon](#).