

cablecc SF-056-CC

Cablecc Oculink SFF-8612 SFF-8611 to PCI-E 16x 4x Adapter User Manual

1. INTRODUCTION

This manual provides detailed instructions for the Cablecc Oculink SFF-8612 SFF-8611 to PCI-Express 16x 4x Adapter. This adapter facilitates the connection of various PCI-E devices, such as graphics cards, USB cards, LAN cards, and audio cards, to a host system equipped with an Oculink SFF-8611/8612 interface. It is designed for internal system integration.

Oculink 4x connectors are small form factor PCI-E connectors and cables optimized for client and market applications, enabling high-speed data transfer.

2. PRODUCT FEATURES

- Supports standard PCI-E 16x, 8x, and 4x cards.
- Compatible with various PCI-E devices including USB, LAN, 1394, Audio, and Graphics Cards.
- Internal installation via SFF-8611/8612 Oculink interface.
- Integrated SATA power port for supplemental power (12V 2A max).

3. PRODUCT OVERVIEW

The Cablecc Oculink SFF-8612 SFF-8611 to PCI-E 16x 4x Adapter is a compact board designed to bridge Oculink connections to standard PCI-Express slots.

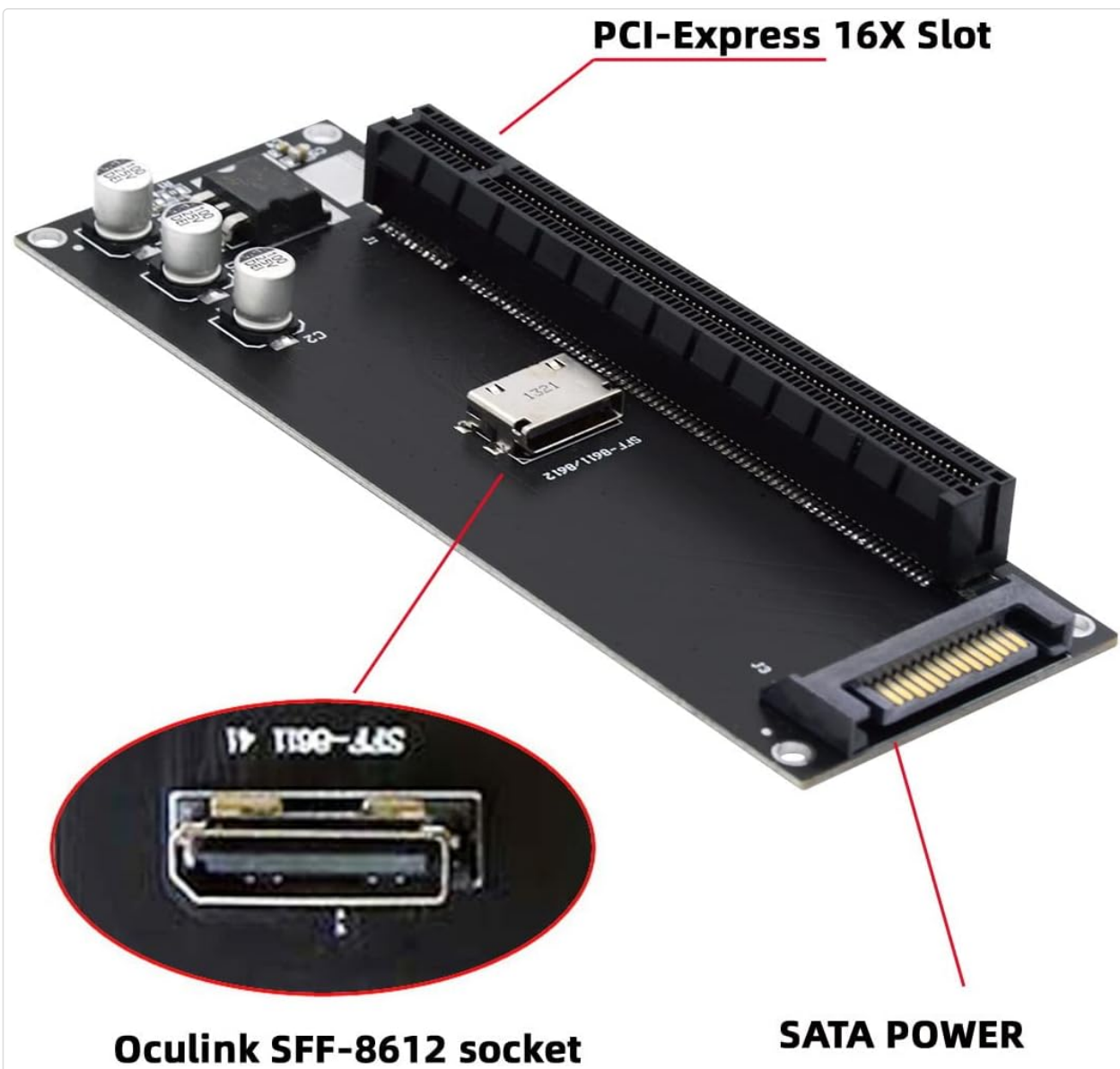
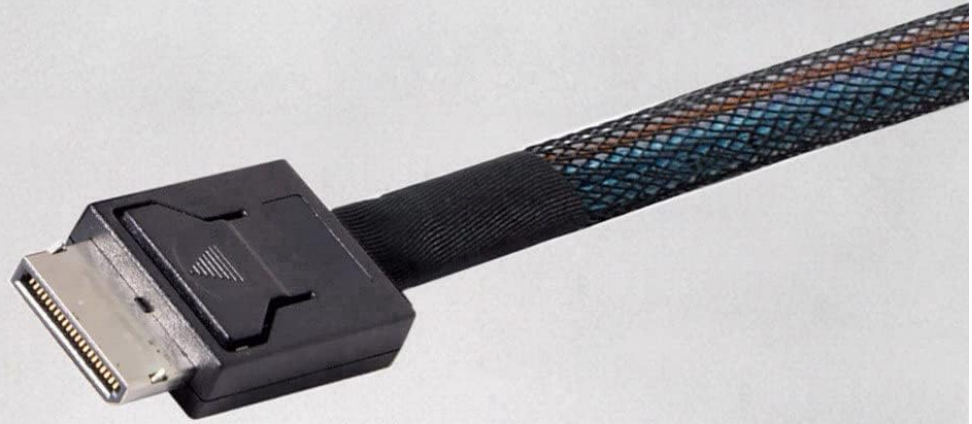


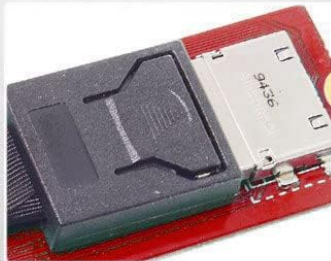
Image 3.1: Adapter with key components labeled. This image shows the PCI-Express 16X Slot, the Oculink SFF-8612 socket, and the SATA Power port.

SFF-8611 Oculink

OCuLink connectors are internal and external Small Form Factor PCIe connectors and cables optimized for the client and market.



SFF-8611 Female



Mating



SFF-8611 Plug

Image 3.2: SFF-8611 Oculink connector types. This diagram illustrates the SFF-8611 Female port, the mating connector, and the SFF-8611 Plug.



PCI EXPRESS

CONNECTOR

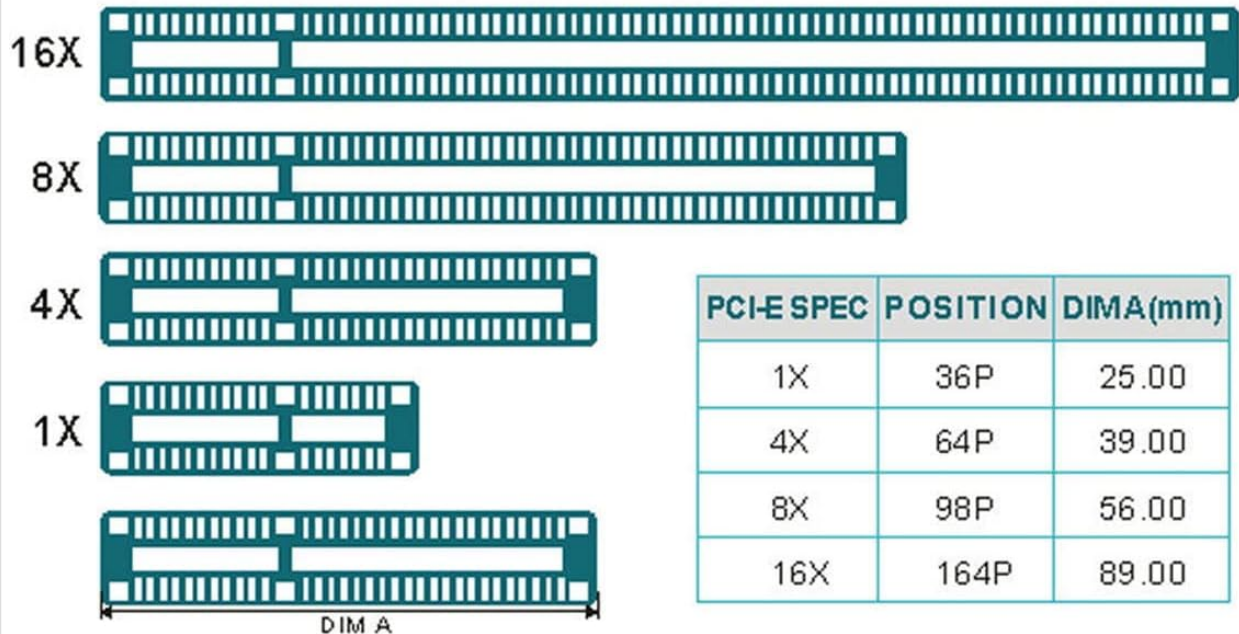


Image 3.3: PCI Express Connector types. This image details the physical dimensions and pin counts for 1X, 4X, 8X, and 16X PCI-E connectors.

4. SETUP INSTRUCTIONS

Follow these steps to correctly install and connect your Cablecc Oculink adapter and PCI-E device.

- 1. Prepare the Adapter:** Connect the Oculink cable (not included) to the SFF-8612 socket on the adapter board. Ensure a secure connection.
- 2. Install PCI-E Card:** Carefully insert your desired PCI-E 16x, 8x, or 4x card into the PCI-Express slot on the adapter. Ensure it is fully seated.
- 3. Connect Power:** If your PCI-E card requires additional power, connect a SATA power cable from your power supply unit (PSU) to the SATA power port on the adapter. **Note:** The SATA power port supports a maximum of 12V 2A. If your PCI-E card requires more power, ensure it receives sufficient external power directly.
- 4. Connect to Host System:** Connect the other end of the Oculink cable to the Oculink port on your mainboard or host system.

Connection Guide

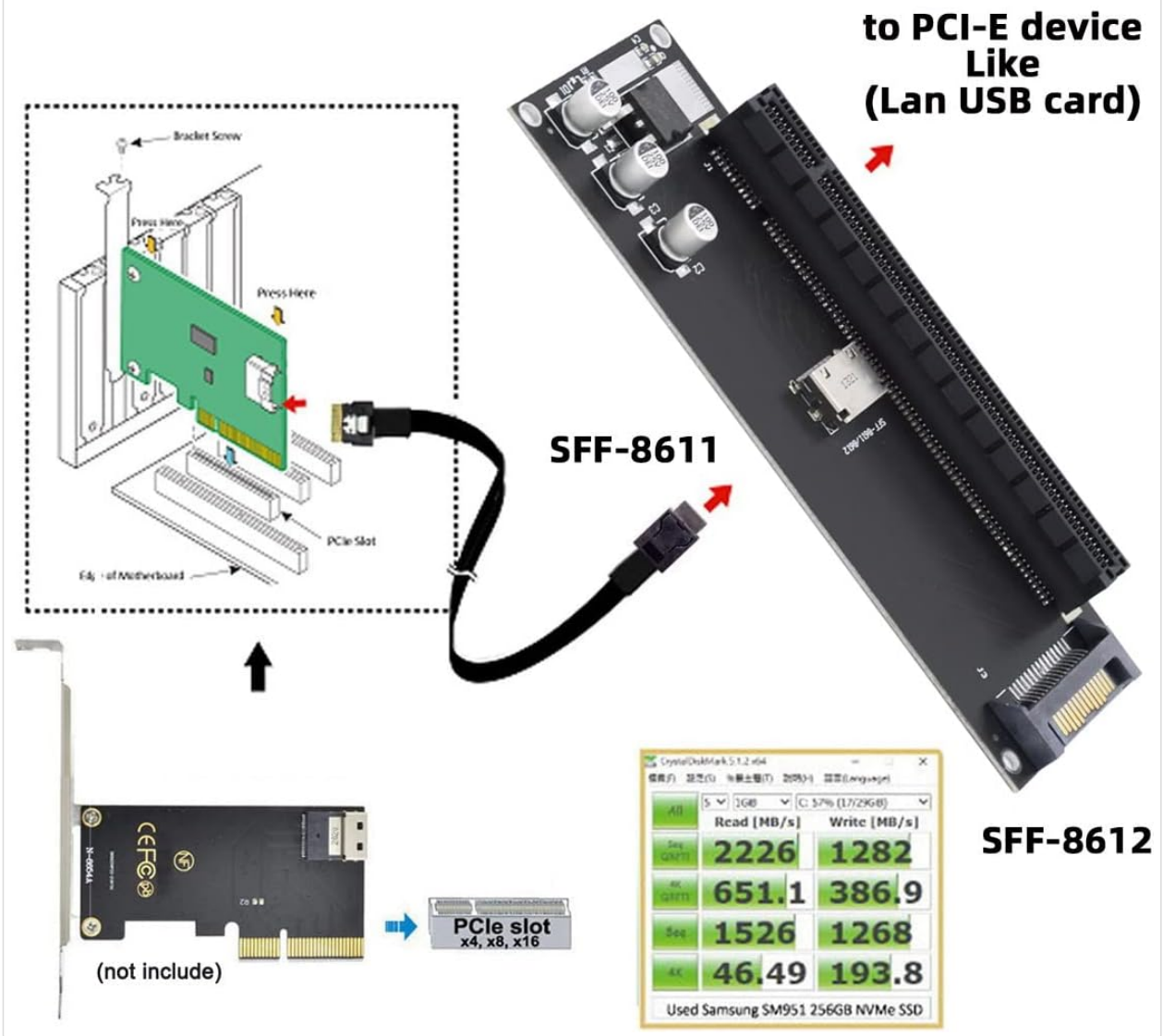
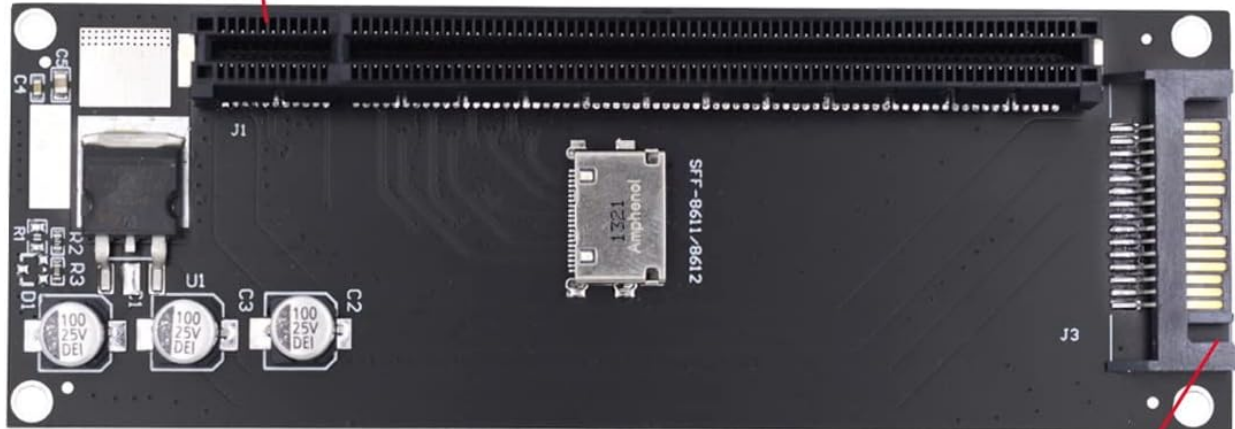


Image 4.1: Connection Guide. This diagram shows how to connect an SFF-8611 cable from a host system (e.g., via an M.2 adapter) to the SFF-8612 adapter, and then connect a PCI-E device like a LAN USB card.

**You can connect all PCI-E device at this port.
Like PCI-E USB,1394,LAN,Audio,Video Card.
Also can work for Graphics card.**



**The SATA port only support 12V 2A power max.
Please connect the extral power for your PCI-E card,
If the power is insufficient.**

Image 4.2: PCI-E Device Compatibility and Power Note. This image reiterates that the adapter supports all PCI-E devices at its port, including graphics cards, and emphasizes the 12V 2A maximum power limit for the SATA port, advising external power for high-demand PCI-E cards.

Video 4.1: Installation demonstration of the SFF-8612 SFF-8611 to PCIE PCI-Express 16x 4X Adapter. This video illustrates the physical connection process of the Oculink cable to the adapter and the insertion of a graphics card into the PCI-E slot.

5. OPERATING INSTRUCTIONS

Once the adapter and PCI-E card are physically connected and powered, the host system should recognize the newly installed hardware. Depending on the PCI-E device, you may need to install specific drivers provided by the device manufacturer. Refer to your operating system's device manager or system information utility to confirm proper detection and functionality.

- Ensure your operating system (Windows, Linux, macOS) is up-to-date.
- Download and install the latest drivers for your specific PCI-E card from the manufacturer's website.
- Verify the device status in your system's device manager.

6. SPECIFICATIONS

Feature	Detail
Brand	cablacc
Model Number	SF-056-CC

Feature	Detail
Hardware Interface	PCI-Express (Oculink SFF-8612 to PCI-E 16X)
Operating System Compatibility	Windows, Linux, macOS
Item Weight	0.03 Kilograms (approx. 0.986 ounces)
Product Dimensions (LxWxH)	3.94 x 3.94 x 0.39 inches
SATA Power Port Output	12V 2A Max

7. TROUBLESHOOTING

- **Device Not Detected:**

- Ensure all cables (Oculink, PCI-E card, SATA power) are securely connected.
- Verify that the PCI-E card is fully seated in the adapter slot.
- Check if your host system's Oculink port is enabled in the BIOS/UEFI settings.
- Confirm that the necessary drivers for your PCI-E device are installed.

- **Insufficient Power:**

- If your PCI-E card (especially a graphics card) requires more than 12V 2A, ensure it is connected to an external power supply. The adapter's SATA power port is for supplemental power only.
- Verify the SATA power cable is connected correctly from your PSU to the adapter.

- **System Instability/Crashes:**

- Ensure all components are receiving adequate power.
- Update your system's BIOS/UEFI to the latest version.
- Test the PCI-E card directly in a motherboard slot (if possible) to rule out card issues.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the Cablecc official website or contact your retailer. Keep your purchase receipt for warranty claims.