


SUPERMICRO AOC-SLG4-4E4T 4-Port NVMe Host Bus Adapter Instruction Manual

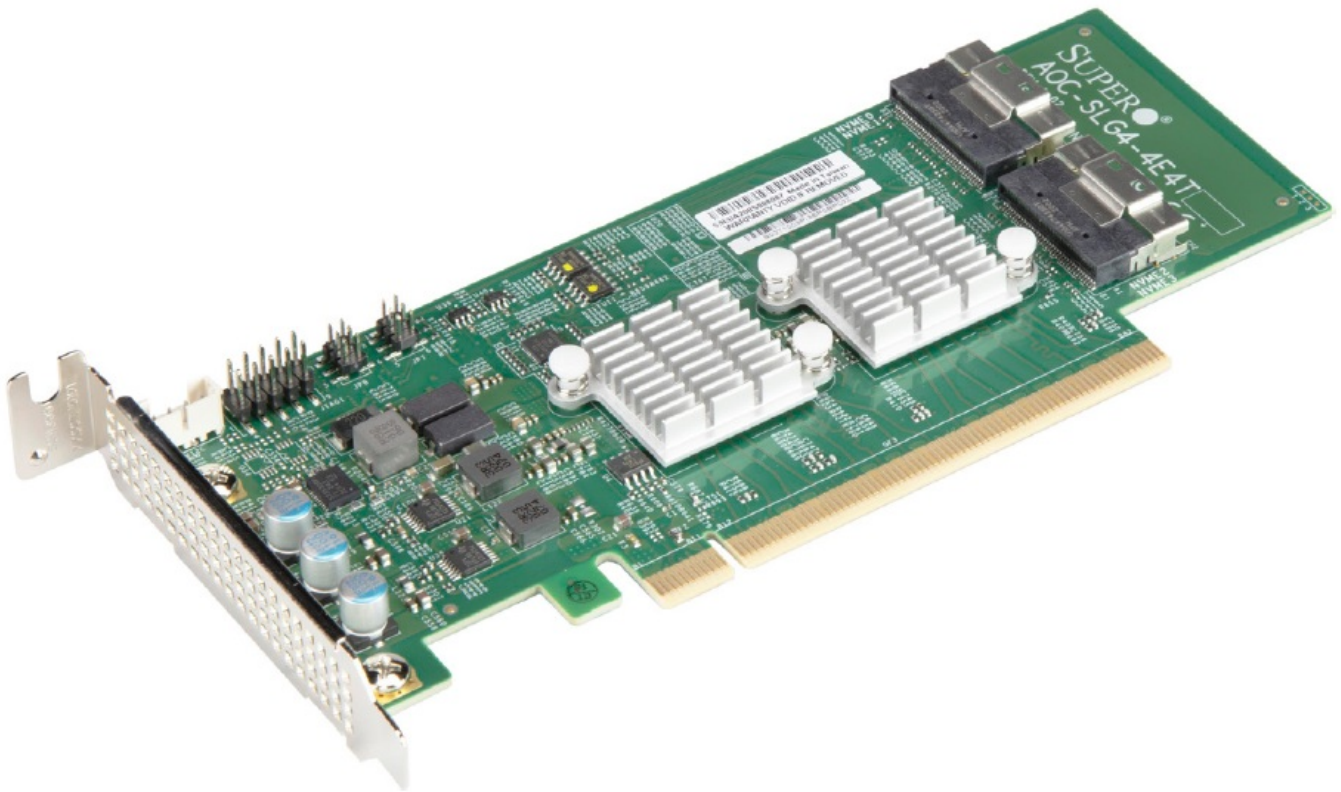
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SUPERMICRO AOC-SLG4-4E4T 4-Port NVMe Host Bus Adapter



Overview

Congratulations on purchasing your expansion card from an acknowledged leader in the industry. Supermicro products are designed with the utmost attention to detail to provide you with the highest standards in quality and performance. For product support and updates, please visit our website at <http://www.supermicro.com/>

Technical Specifications

General

- Quad port PCIe x16 Gen4 standard low profile NVMe controller
- SlimSAS white connectors
- Supports up to four physical NVMe devices
- Ambient operating temperature is system dependent (55°C or higher if there is sufficient airflow)

OS Support

- Windows, Linux, VMWare

Physical Dimensions

- Card PCB dimensions: 6.6" x 2.71" (L x H)

Power Consumption

- 14.3 Watts

Compatible Systems

- X12/H12-based systems (Check the product page for a validated platform list.)

Hardware Components

Expansion Card Layout and Components

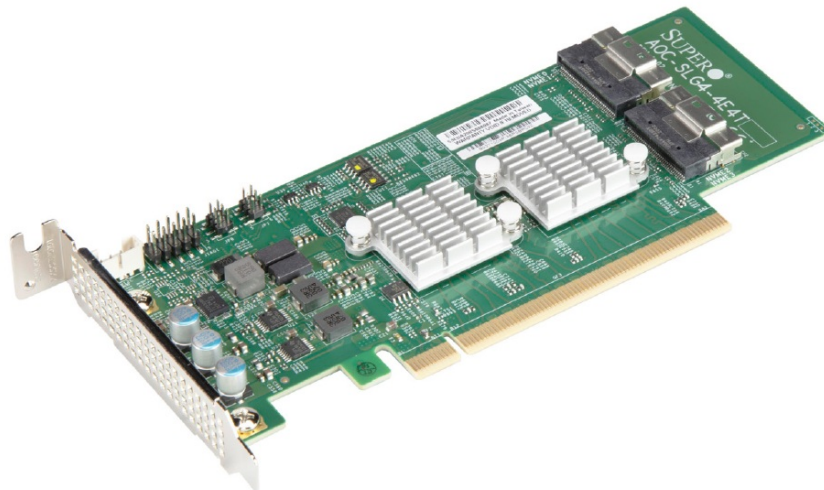


Figure 2-1. AOC-SLG4-4E4T

The AOC-SLG4-4E4T is a low-profile expansion card with an aggregate four-port NVMe internal Host Bus Adapter. The following pages describe the components and settings for the AOC-SLG4-4E4T

Major Components

The following are the major components that make up the AOC-SLG4-4E4T expansion card:

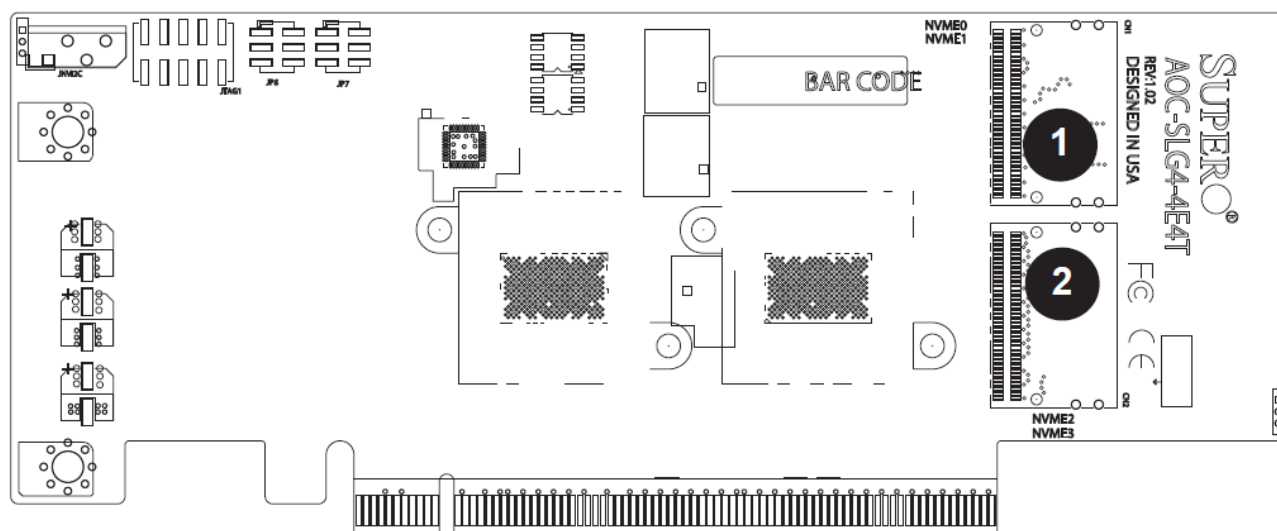


Figure 2-2. AOC-SLG4-4E4T Layout

AOC-SLG4-4E4T	
Component	Description
1	NVMe Connector NVMe 0 and NVMe 1
2	NVMe Connector NVMe 2 and NVMe 3

Connectors and LEDs

NVMe Connectors

There are two NVMe connectors on the expansion card.

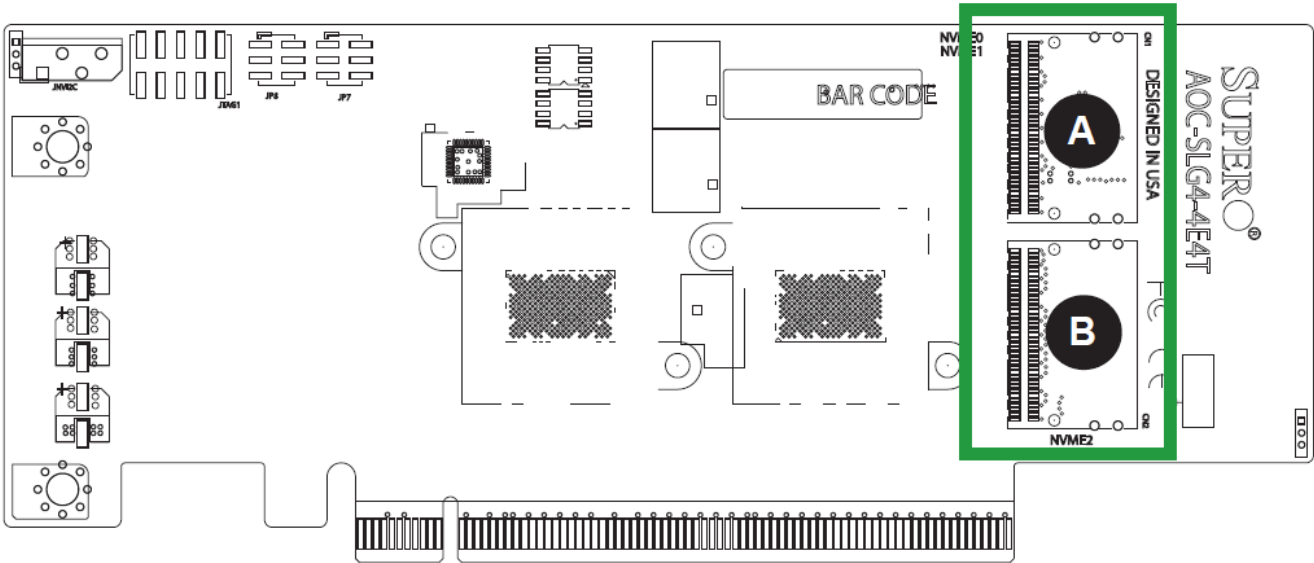


Figure 2-3. NVMe Connectors

AOC-SLG4-4E4T	
Component	Description
A	NVMe connector, designated NVMe 0 and NVMe 1
B	NVMe connector, designated NVMe 2 and NVMe 3

Installation

Static-Sensitive Devices

Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your expansion card, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

Precautions

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing the expansion card from the antistatic bag.

- Handle the expansion card by its edges only; do not touch its components or peripheral chips.
- Put the expansion card back into the antistatic bags when not in use.
- For grounding purposes, make sure that your system chassis provides excellent conductivity between the power supply, the case, the mounting fasteners and the expansion card.

Unpacking

The expansion card is shipped in antistatic packaging to avoid static damage. When unpacking your component, make sure you are static protected.

Note: To avoid damaging your components and to ensure proper installation, be sure to always connect the power cord last, and always remove it before adding, removing or changing any hardware components.

Before Installation

To install the expansion card properly, follow the steps below.

Prior to Installation

1. Power down the system and unplug the power cord.
2. Use industry-standard anti-static equipment (such as gloves or wrist strap) and follow the precautions on page 3-1 to avoid damage caused by ESD.

Installing the Expansion Card

Depending upon which motherboard is used and which slot in the motherboard is selected, a riser card may or may not be required to install the AOC-SLG4-4E4T.

1. Power down the system, remove the power cords from the rear of the power supply and remove the system cover.
2. The AOC-SLG4-4E4T expansion card has a low-profile bracket pre-installed. A full-length bracket is included in the packaging if needed.
3. Consult your motherboard manual for any special instructions regarding expansion card installation.
4. Connect the white (85-ohm characteristic impedance) SlimSAS cables to the expansion card. The cable latch will click into the locked position when connected properly.

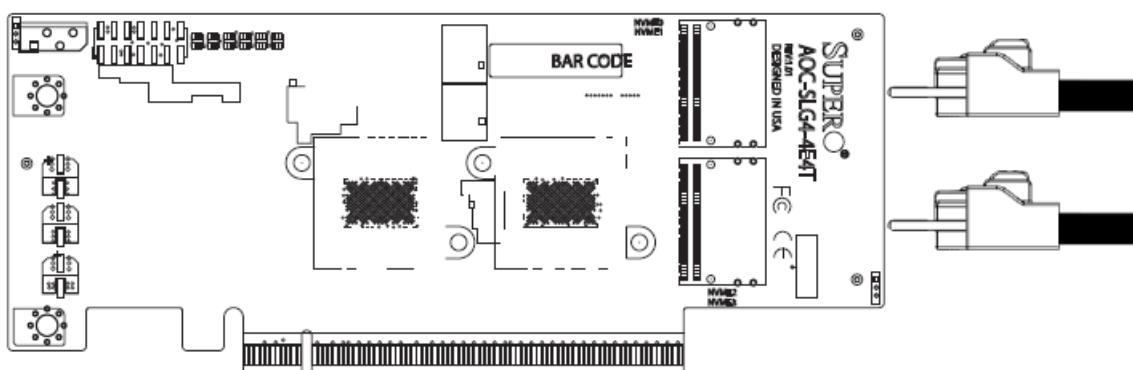


Figure 3-2. Connecting the Cables

Static-Sensitive Devices

Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your expansion card, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

Precautions

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing the expansion card from the antistatic bag.
- Handle the expansion card by its edges only; do not touch its components or peripheral chips.
- Put the expansion card back into the antistatic bags when not in use.
- For grounding purposes, make sure that your system chassis provides excellent conductivity between the power supply, the case, the mounting fasteners and the expansion card.

Unpacking

The expansion card is shipped in antistatic packaging to avoid static damage. When unpacking your component, make sure you are static protected.

Note: To avoid damaging your components and to ensure proper installation, be sure to always connect the power cord last, and always remove it before adding, removing or changing any hardware components.

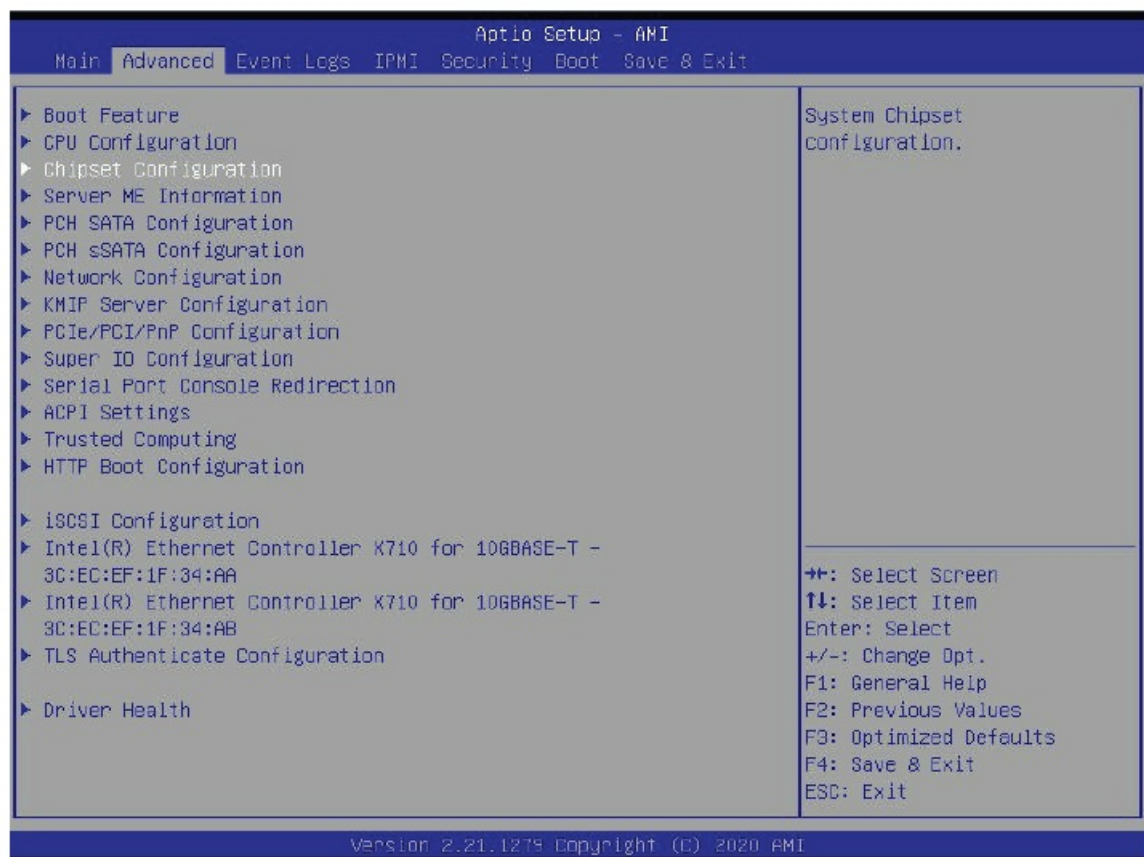
BIOS Settings

Depending on the system, motherboard, and BIOS version, the following BIOS settings may be necessary for the proper operation of NVMe drives.

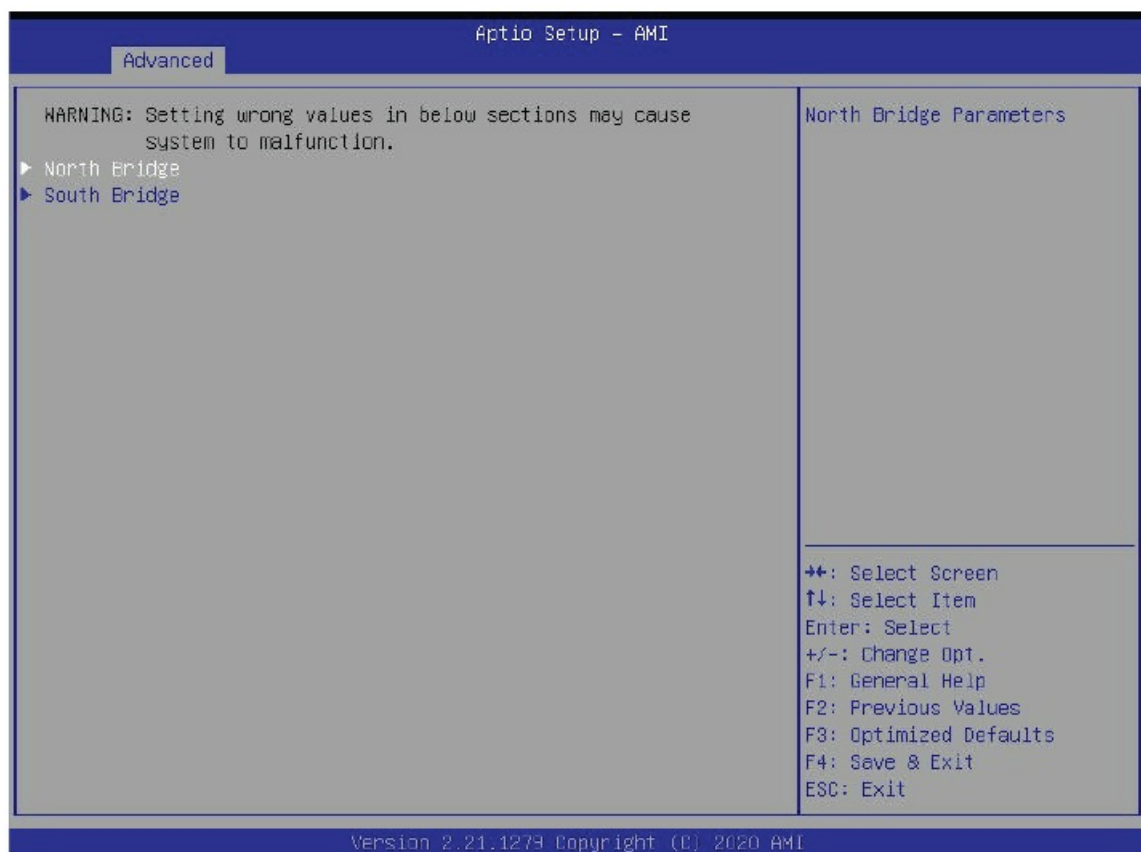
Changing Retimer Settings

Follow the steps below to use the Configuration Utility.

1. Reset the system.
2. Press to enter the BIOS Setup Utility.
3. Navigate to the Advanced menu.
4. Enter the Chipset Configuration submenu.



5. Select North Bridge.



6. Select IIO Configuration.



7. Select the appropriate IOU option and then select x4x4x4x4.



8. Enter the IIO DFX Configuration menu.
9. Select CPU1 Configuration.
10. Select the appropriate port option.
11. Under Preset Settings, select DN Tx Preset and modify it to P7.

The information in this user's manual has been carefully reviewed and is believed to be accurate. The vendor

assumes no responsibility for any inaccuracies that may be contained in this document, and makes no commitment to update or to keep current the information in this manual, or to notify any person or organization of the updates.

Please Note: For the most up-to-date version of this manual, please see our website at www.supermicro.com.

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This equipment has been tested and found to comply with the limits for a Class A or Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in industrial environment for Class A device or in residential environment for Class B device. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer’s instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

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About this User's Guide.

This user's guide is written for system integrators, IT technicians, and knowledgeable end users. It provides information for the installation and use of the AOC-SLG4-4E4T expansion card.

About this Expansion Card

The Supermicro NVMe AOC-SLG4-4E4T features two internal NVMe SlimSAS connectors for high-performance storage connectivity. This card is built on the latest PCIe NVMe retimer technology. Streamlined for the growing demand for increased data throughput and scalability requirements across enterprise-class server platforms, this is a cost-effective storage solution that delivers maximum performance and reliability.

An Important Note to the User

All images and layouts shown in this user's guide are based upon the latest PCB revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this user's guide.

Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning the AOC-SLG4-4E4T card to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and the shipping package is mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete. For faster service, you can also request a RMA authorization online <http://www.supermicro.com/RmaForm/>. This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alternation, misuse, abuse, or improper maintenance of products.

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Documents / Resources

 <p>AOC-SLG4-4E4T</p> <p>User's Guide</p> <p>Revision 1.0</p>	<p>SUPERMICRO AOC-SLG4-4E4T 4-Port NVMe Host Bus Adapter [pdf] Instruction Manual AOC-SLG4-4E4T, 4-Port NVMe Host Bus Adapter, AOC-SLG4-4E4T 4-Port NVMe Host Bus Adapter, Host Bus Adapter, Adapter</p>
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References

- dtsc.ca.gov/hazardouswaste/perchlorate
- [P65Warnings.ca.gov](https://p65warnings.ca.gov)
- [Supermicro Data Center Server, Blade, Data Storage, AI System](#)
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