4-Port 25G SFP28 Network Adapter for OCP 3.0

User Manual

Ver. 1.00

Contents:

Chapter 1: Introduction

1.1 Product Introduction

This 4-Port 25G SFP28 OCP 3.0 Network Adapter is a flexible and scalable 25GbE solution providing 4 SFP28 ports. Based on Intel E810-CAM1 network controller with performance-enhancing features and power management technologies, this adapter provides a quality networking choice for data centers while reducing CPU utilization and power consumption. With the added NC-SI feature, this adapter can also function as a secure networking port for server remote management.

1.2 Features

- OCP 3.0 Form Factor
- Four 25GbE with SFP28
- Intel E810-CAM1 Controller
- PCIe Gen4 x16 host interface
- Compliant with OCP NIC 3.0 specification
- Supports 4C+ connector
- Supports OCP 3.0 scan chain, FRU NVM and NC-SI
- OCP 3.0 SFF form factor with Pull Tab (Internal Lock option by demand)
- Supports 25GBASE-SR/LR, AOC and DAC modules

● Supports UEFI preboot

1.3 Requirements

● Windows Server 2019/2022

● Windows 11

1.4 Product Diagram

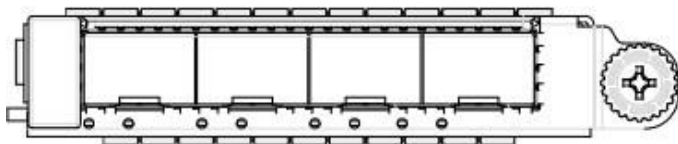
1.5 Package Contents

● 1 x 4-Port 25G SFP28 Network Adapter for OCP 3.0

● 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout

Link/Activity Indicator:

LED	Description
Link Speed LED	Indicates Link Speed: • Green = 25Gbps • Amber = Less than 25Gbps • OFF = No Link
Activity LED	Indicates Network Card Activity: • Blinking Green = Network port is active • OFF = No Link

2.2 Hardware Installation

1. Turn off the power to your computer.

2. Unplug the power cord.

3. Remove the slot bracket from the available OCP slot.

4. To install the OCP, carefully align the card's bus connector with the selected OCP slot on the motherboard. Push the OCP firmly into the motherboard.

5. Reconnect the set screws of the OCP card bracket to secure the card.

6. Reconnect the power cord.

2.3 Driver Installation

The following section shows you how to install 4-Port 25G SFP28

Ethernet Adapter for OCP 3.0 driver on different operating systems.

2.3.1 Installation for Windows

1. Go to URL http://www.sunrichtech.com.hk/

2. Search N-910, download the driver.

3. Follow the on-screen instructions to finish installing the driver.
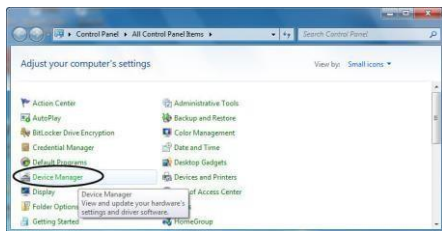
2.3.2 Installation for Linux

1. Go to URL http://www.sunrichtech.com.hk/

2. Search N-910, download the driver.

3. Follow Readme.txt which is in the driver folder to finish installing the driver.

2.4 Verifying the installation

2.4.1 Verifying for Windows

1. Click on the **"Device Manager"** tab in the Windows Control Panel.

   Start > Control Panel > Device Manager

2. Expand **"Network adapters"** item, and you can read **"Intel(R)Ethernet Network Adapter E810-XXV-4 for OCP3.0"** in the Device Manager.

- Network adapters
  - Intel(R) Ethernet Network Adapter E810-XXV-4 for OCP 3.0
  - Intel(R) Ethernet Network Adapter E810-XXV-4 for OCP 3.0 #2
  - Intel(R) Ethernet Network Adapter E810-XXV-4 for OCP 3.0 #3
  - Intel(R) Ethernet Network Adapter E810-XXV-4 for OCP 3.0 #4
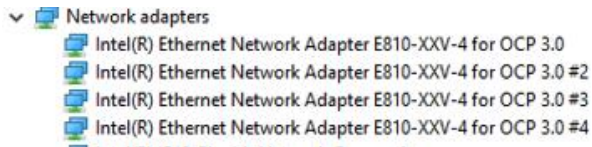
2.4.2 Verifying for Linux

1. You can check whether the driver is loading by using following commands:

   # lsmod | grep i40evf-x.x.x

   # ifconfig –a

   If there is a device name, ethX, shown on the monitor, the linux driver is load. Then, you can use the following command to activate the ethX.

   # ifconfig ethX up, where X=0,1,2,…