

2-Port 10G Network Adapter for OCP 3.0

User Manual

Ver. 2.00

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Chapter 1: Introduction

1.1 Product Introduction

OCP 3.0 card is the latest form factor designed to provide a wide range of networking options as well as other I/O technologies. Our 2-Port 10G OCP 3.0 Network Adapter is a flexible and scalable GbE solution providing two RJ45 ports. Based on Broadcom network controller BMC57416 with performance-enhancing features and power management technologies, this OCP 3.0 Network Adapter provides a quality networking choice for data centers while reducing CPU utilization and power consumption. With the TruFlow feature, VM density is increased by up to 50%, freeing more CPU cycles for additional virtual machines.

1.2 Features

- OCP 3.0 Form Factor
- PCIe Gen3 x8 host interface
- Compliant with OCP NIC 3.0 specification
- 2x 10GbE RJ45 connectors
- TruFlow™ engine for intelligent flow processing to increase server VM density and accelerate vSwitch processing
- Industry's most secure PCIe NIC solution leveraging Broadcom's BroadSAFE® technology to provide unparalleled platform security via Silicon Root of Trust
- TruManage™ enhances server manageability and security for data center deployments
- Support for advanced networking technologies including RoCE, SDN, NFV and virtualization
- Supports SR-IOV Based Virtualization
- 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)

1.3 System Requirements

- Windows® Server 2022/2025
- Linux kernel versions 2.6 or newer
- Airflow Requirements : 150 LFM at 55°C

1.4 Product Diagram

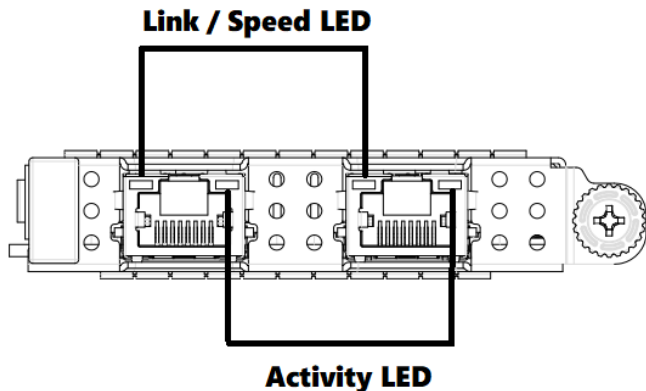


1.5 Package Contents

- 1 x 2-Port 10G 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: <ul style="list-style-type: none">• Green=10 Gb/s; Amber=1Gb/s• Not illuminated=No link
Activity LED	Indicates Network Card Activity: <ul style="list-style-type: none">• Blinking = Active• Off= No activity

2.2 Hardware Installation

1. Power down your server.
2. Unplug the power cord.
3. Remove the OCP 3.0 adapter blank from the available OCP slot.
4. To install the OCP, carefully align the card's bus connector with the selected OCP slot on the server. Push the OCP firmly into the server.
5. Tighten the thumb screw to secure the card.
6. Reconnect the power cord.

2.3 Driver Installation for Windows

The following section shows you how to install 2-Port 10G OCP 3.0 Network Adapter driver on Windows operating systems.

2.3.1 Installation for Windows

1. Go to URL <http://www.sunrichtech.com.hk/>
2. Search N-1130, download the driver.
3. Follow the on-screen instructions to finish installing the driver.

2.3.2 Installation for Linux

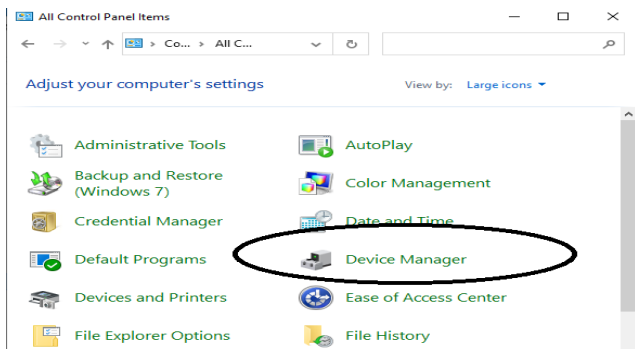
1. Go to URL <http://www.sunrichtech.com.hk/>
2. Search N-1130, download the driver.
3. Follow Readme.txt which is in the driver folder to finish installing the driver.

2.4 Hardware Verify

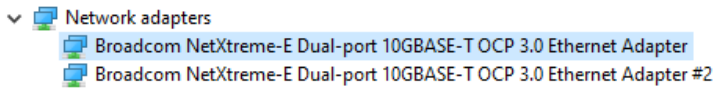
2.4.1 Verifying for Windows

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 “**Broadcom NetXtreme E Dual-port 10GBASE-T OCP 3.0 Ethernet Adapter**” in the Device Manager.



2.4.2 Verifying for Linux

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

```
# lsmod | grep bnxt_en
```

```
# 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,...
```