USB 20Gbps Type-C 10GbE Ethernet Adapter

User Manual

Ver. 2.00

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Chapter 1: Introduction

1.1 Product Introduction

The U-2740 is a high-performance yet cost-effective solution for upgrading to next-generation wired networking. Powered by the Realtek RTL8159 controller, it delivers blazing-fast 10 Gigabit Ethernet connectivity through a USB 3.2 Gen 2x2 Type-C interface, ensuring seamless data transfer for demanding applications such as high-resolution media streaming, large file transfers, and enterprise workloads.

1.2 Features

- Supports USB 3.2 Gen 2x2 data rate of up to 20Gbps
- Backward compatible with USB 3.2 Gen 1/2 and USB 2.0
- Supports 10G/5G/2.5G/1G/100M Ethernet network over Cat6a cable of length up to 100 meters
- Supports CDC-ECM and CDC-NCM device class
- Supports 100 meters Cat6a at all speeds
- Supports IEEE802.1p QoS and IEEE802.1q VLAN tagging
- Supports IEEE802.3az Energy Efficient Ethernet

- Supports Wake-On-LAN (WoL)
- Supports Auto-Negotiation and auto MDI/MDIX detection
- Bus-powered device - no external power is needed
- Max. 16K jumbo frame
- IP checksum and Segmentation Task offload

1.3 System Requirements

- Windows® 10/11(64 bit)
- Linux OS for kernel up to 7.x

1.4 Product Diagram

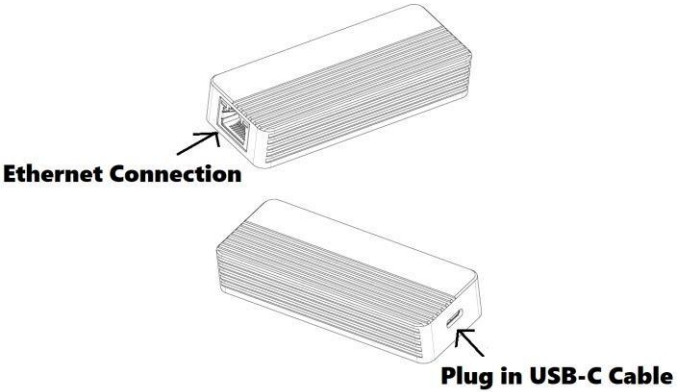


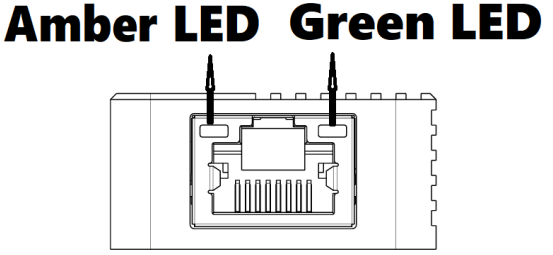
1.5 Package Contents

- 1 x USB 20Gbps Type-C 10GbE Ethernet Adapter
- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout





Link/Activity Indicator:

LED	Description
Green LED	Indicates Link /Activity/Speed: • Solid Green = 10 Gbps
Amber LED	Indicates Link /Activity/Speed: • Solid Amber = 5, 2.5, 1 Gbps or 100Mbps

2.2 Hardware Installation

1. Plug the USB 20Gbps 10GbE Ethernet Adapter directly into an available USB port on your computer.
2. Connect one end of your network cable into the RJ45 port of USB 20Gbps 10GbE Ethernet Adapter.
3. Connect the other end of the network cable into an available Ethernet port on your router, switch, or any other networking device.

2.3 Driver Installation

The following section shows you how to install the USB 20Gbps Type-C 10GbE Ethernet Adapter driver on different operating systems.

2.3.1 Installation for Windows

1. Visit https://www.sunrichtech.com.hk/
2. Search for U-2740, and download the corresponding driver.
3. Follow the on-screen instructions to finish installing the driver.

2.3.2 Installation for Linux

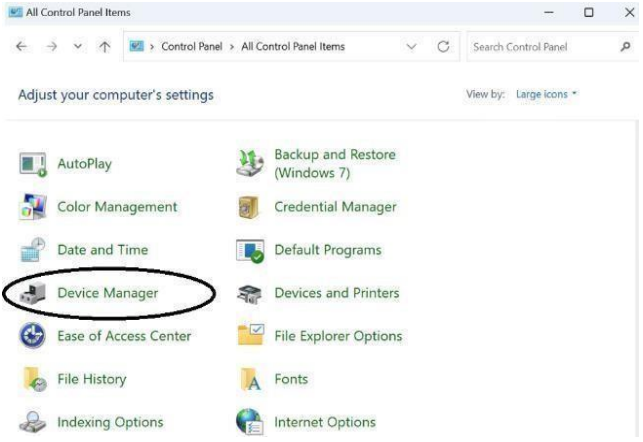
1. Visit https://www.sunrichtech.com.hk/
2. Search for U-2740, and download the corresponding driver.
3. Open the downloaded driver folder and follow the instructions in the Readme.txt file to complete the installation.

2.1 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 **"Realtek USB 10GbE Family Controller"** in the Device Manager, as shown.



2.4.2 Verifying for Linux

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

lsmod | grep r81xx

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,…