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- > 10Gtek /
 - > 10Gtek 10Gb PCI-E NIC Network Card User Manual

10Gtek 8541551539

10Gtek 10Gb PCI-E NIC Network Card User Manual

Brand: 10Gtek | Model: 8541551539

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your 10Gtek 10Gb PCI-E NIC Network Card. This high-performance network adapter is equipped with an original Intel 82599EN controller, supporting I/O virtualization for enhanced server stability. It features a single SFP+ port, designed for 10 Gigabit SFP+ module/DAC/AOC connections, meeting the demands of modern data center environments.

The card is compatible with a wide range of operating systems, including Windows Server 2003/2008/2012, Windows 7/8/10/Vista, Linux, and ESX/ESXi. It supports storage over Ethernet protocols such as iSCSI, FCoE, and NFS. Please note that this card supports 10G speeds and is not compatible with 1G, 2.5G, or 5G connections.

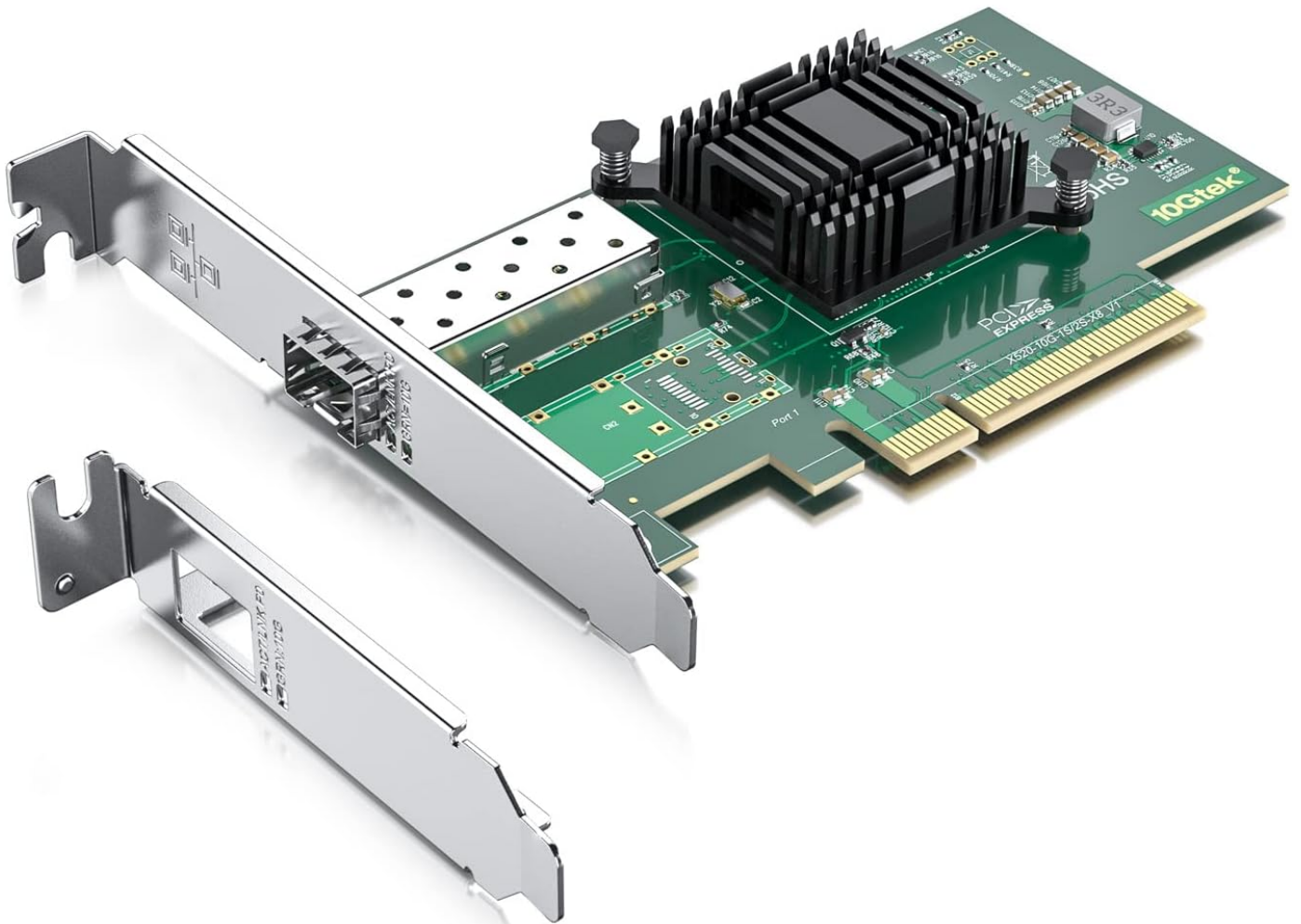


Image 1.1: The 10Gtek 10Gb PCI-E NIC Network Card, showcasing its single SFP+ port and heatsink design.

2. SETUP AND INSTALLATION

2.1 Hardware Installation

The 10Gtek 10Gb PCI-E NIC Network Card is designed for easy installation. It comes with both a standard profile bracket and an additional low-profile bracket, allowing for installation in various computer cases and server chassis, including small form factor systems. The PCI-E X8 Lane is compatible with both PCI-E X8 and PCI-E X16 slots.

Compatible with PCIe X8/X16

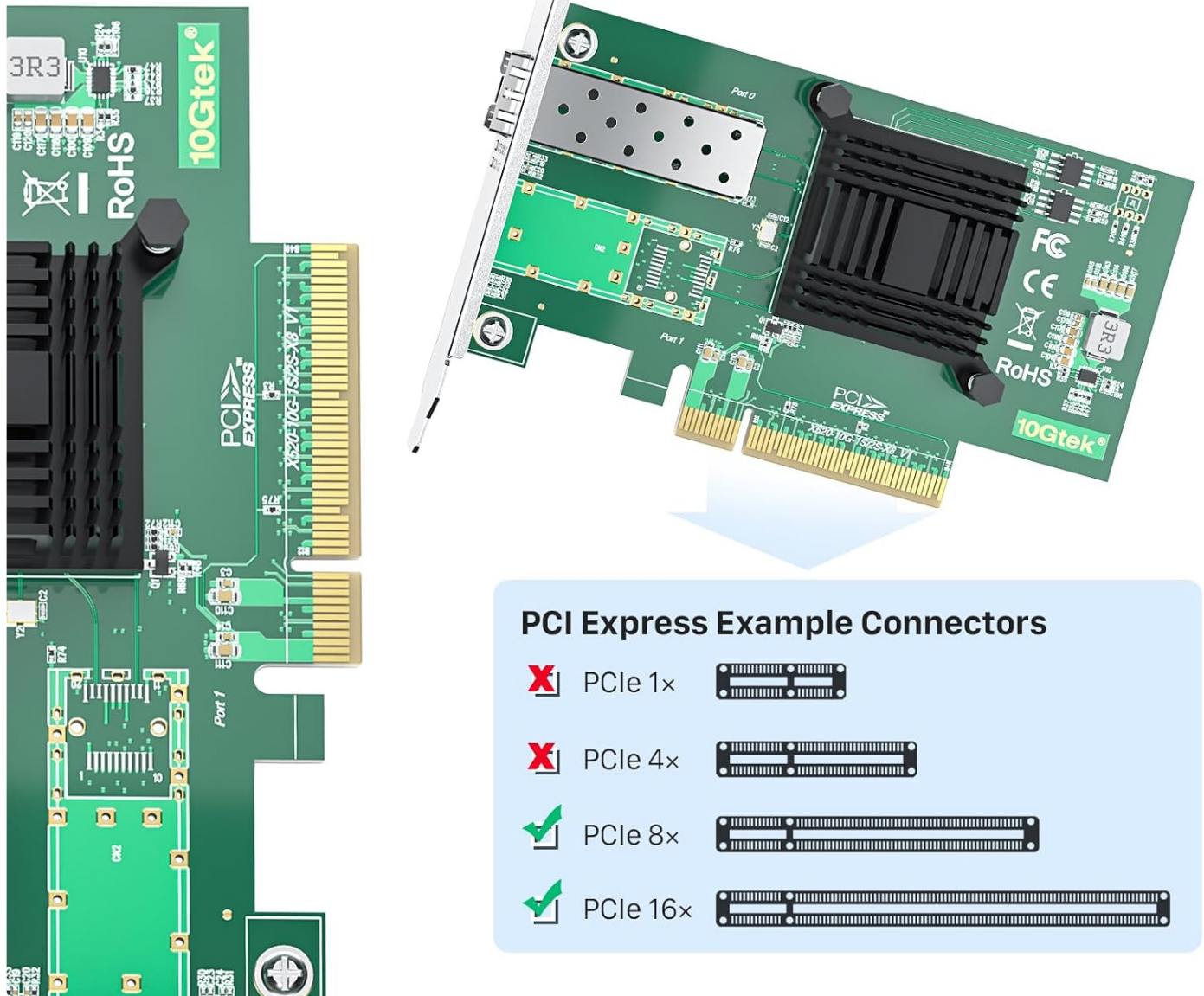


Image 2.1: Compatibility diagram illustrating the network card's fit into PCIe X8 and X16 slots.

2.2 Driver Installation

For optimal performance and compatibility, especially with Windows 11, it is crucial to install the correct drivers. While Intel does not provide a dedicated driver for Windows 11 for this chipset, the Windows 10 driver can be used effectively.

1. Insert the NIC into an available PCI-E X8 or X16 slot on your motherboard.
2. Boot your system and confirm that the Ethernet Controller is recognized by your operating system (e.g., in Device Manager for Windows).
3. Download the appropriate Windows 10 driver for the Intel X520/X540 NIC from the official Intel website [Intel Network Adapter Driver for Windows 10](#).
4. After downloading, extract the driver package. For manual installation via Device Manager, navigate to the `Wired\_driver\_x64\PROXGB\Winx64\NDIS65` folder within the extracted files.
5. Follow the on-screen instructions or use the Device Manager's "Update driver" option to install the driver.

How to set up Win11 to work with X520/X540:

**Only by Setting up Windows 10 Driver Correctly
The NIC Can Work on Windows 11!**

Download and Installation:

1. Insert the NIC and select Win11.
2. Confirm the Ethernet Controller is recognized by Win11.
3. Download the **Windows 10 driver** for the X520/X540 NIC.
*Because Intel does not provide driver for Win11, we use Win10 driver instead.
4. Follow the video to complete the installation.



Driver for
Win 10

<http://l.10gtek.com/laZTXC8>



Video for
installation

<http://l.10gtek.com/09EZmGU>

Image 2.2: Visual guide for Windows 11 driver setup, emphasizing the use of Windows 10 drivers.

2.3 Video Guide for Installation

For a visual walkthrough of the installation process, please refer to the official product video:

Video 2.1: Official 10Gtek video demonstrating the installation of the 10Gb PCI-E SFP+ Port NIC Network Card.

3. OPERATING INSTRUCTIONS

Once installed and drivers are configured, the 10Gtek network card will function as a standard network interface, providing 10 Gigabit Ethernet connectivity. Connect your SFP+ transceivers or direct attach cables (DAC) to the SFP+ port(s) on the card, and then connect to your 10Gb-compatible switch or other network devices.

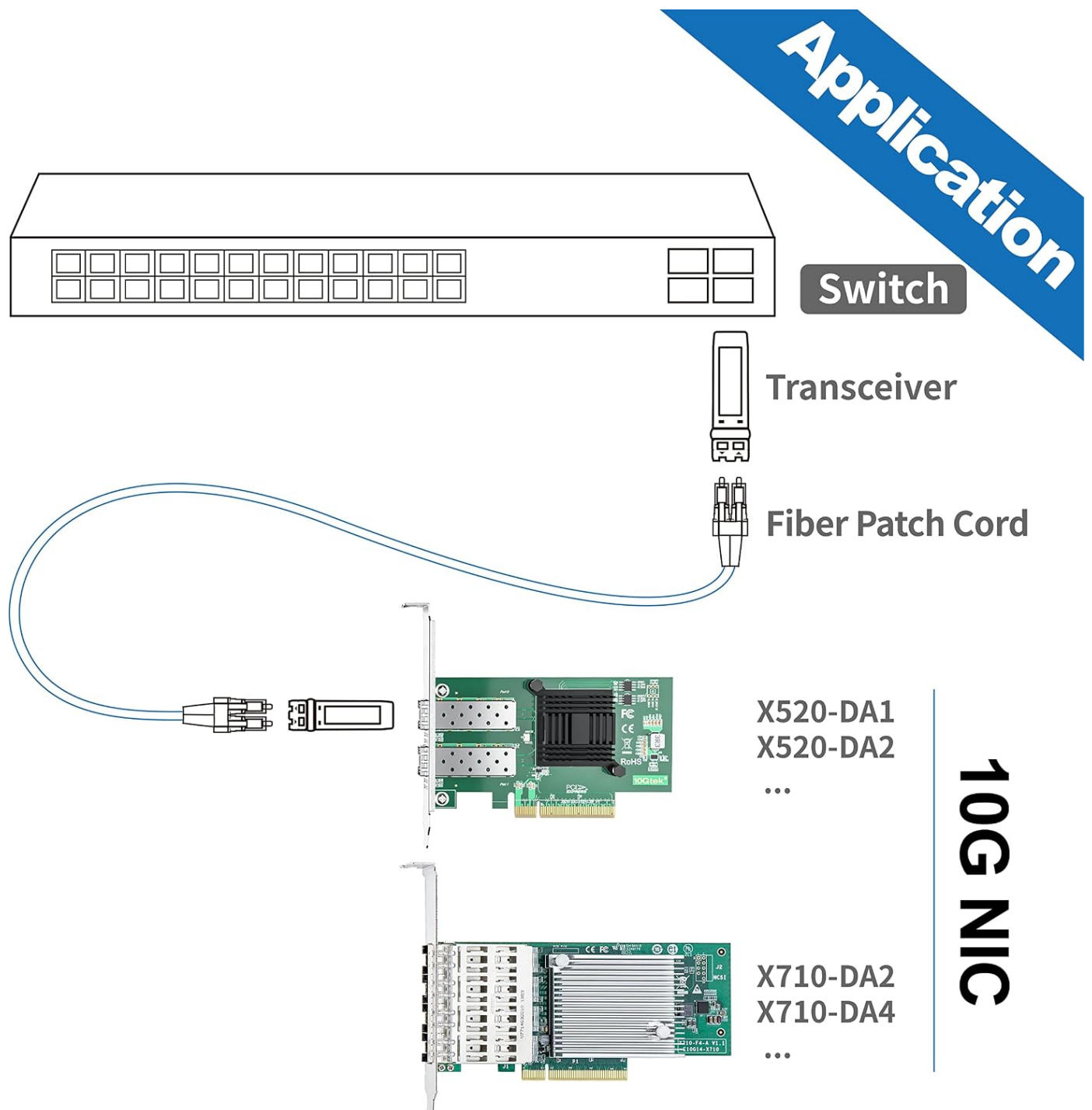
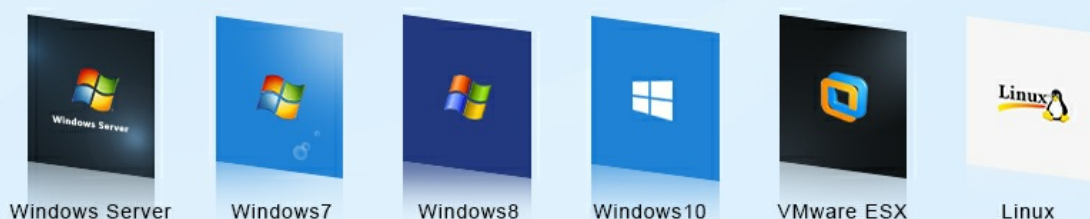


Image 3.1: Example application of the 10Gtek NIC, showing connection to a switch via a transceiver and fiber patch cord. The card supports various operating systems, ensuring broad compatibility for different server and desktop environments. For specific network configurations (e.g., IP settings, VLANs, teaming), refer to your operating system's network configuration guides.

Multi-system compatibility



4. MAINTENANCE

The 10Gtek 10Gb PCI-E NIC Network Card is designed for durability and reliable operation. It features an efficient heatsink to manage thermal performance, preventing overheating during prolonged use. No routine user maintenance is typically required for the card itself.

To ensure continued optimal performance:

- Ensure adequate airflow within your computer case or server chassis to prevent heat buildup.
- Keep the internal components of your system free from dust accumulation, which can impede cooling.
- Regularly check for updated drivers from the Intel website to benefit from performance improvements and bug fixes.

5. TROUBLESHOOTING

5.1 Driver Recognition Issues (Windows 10/11)

If the network card is not automatically recognized or drivers fail to install on Windows 10 or 11, follow these steps:

1. Download the Intel network adapter driver package for Windows 10 from Intel's official website (link provided in Section 2.2).
2. Open Device Manager (right-click Start button > Device Manager).
3. Locate the unrecognized device, typically listed as "Ethernet Controller" under "Other devices" with a yellow exclamation mark.
4. Right-click on the "Ethernet Controller" and select "Update driver."
5. Choose "Browse my computer for drivers" and then "Let me pick from a list of available drivers on my computer."
6. Click "Have Disk..." and browse to the extracted driver folder: `Wired\_driver\_x64\PROXGB\Winx64\NDIS65`. Select the appropriate `.inf` file and proceed with the installation.

5.2 QNAP/Synology Compatibility

Due to specific hardware and software configurations in QNAP and Synology NAS devices, compatibility with third-party network cards can vary. If you intend to use this network card with a QNAP or Synology system, it is highly recommended to contact 10Gtek customer support before purchase to verify compatibility and receive specific guidance.

5.3 No 10G Link

Ensure that all connected devices (switch, transceivers, cables) are 10 Gigabit compatible. This card does not support 1G, 2.5G, or 5G speeds. Verify that the SFP+ module or DAC/AOC cable is correctly seated and compatible with both the network card and the connected device.

6. SPECIFICATIONS

Feature	Detail
Brand	10Gtek
Model Number	8541551539
Hardware Interface	PCIE x 8
Data Link Protocol	Ethernet
Data Transfer Rate	10 Gigabytes Per Second
Compatible Devices	Server, Desktop
Controller	Intel 82599EN
Port Type	Single SFP+
Item Weight	6.4 ounces
Package Dimensions	8.9 x 6.02 x 1.26 inches
First Available Date	September 13, 2016

Product Size

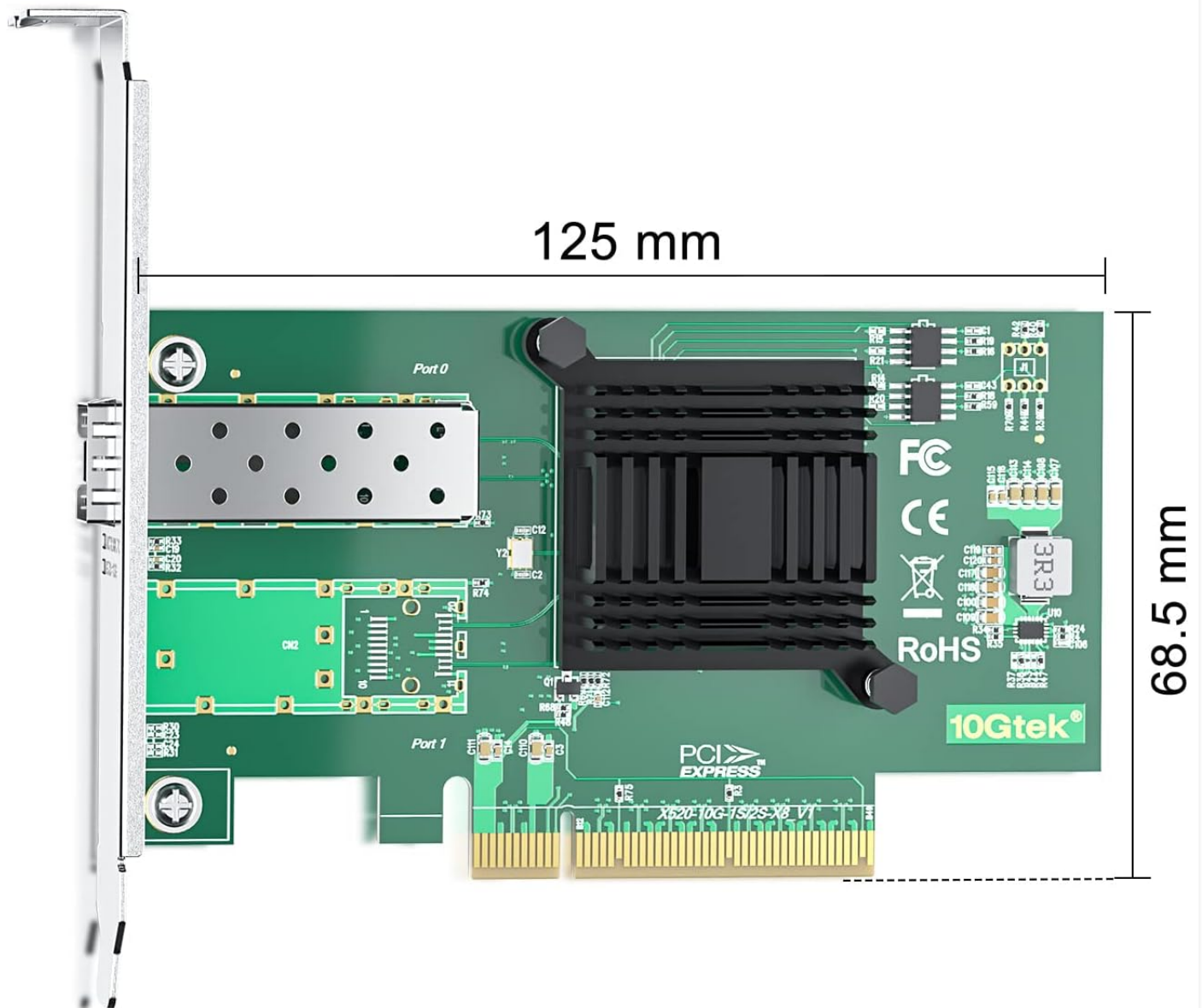


Image 6.1: Product dimensions of the 10Gtek 10Gb PCI-E NIC Network Card.

7. WARRANTY AND SUPPORT

Your 10Gtek 10Gb PCI-E NIC Network Card comes with a 3-year warranty, ensuring peace of mind regarding product defects and performance. Additionally, 10Gtek provides lifetime technology support to assist you with any technical inquiries or issues you may encounter during the product's lifespan.

The product also includes a 30-day free return policy. For warranty claims, technical assistance, or support, please contact 10Gtek customer service through their official channels or the platform where the product was purchased.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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