User Guide

TG-3468

Gigabit PCI Express Network Adapter
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http://www.tp-link.com
FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.
DECLARATION OF CONFORMITY

For the following equipment:

Product Description: **Gigabit PCI Express Network Adapter**

Model No.: **TG-3468**

Trademark: **TP-LINK**

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 2004 / 108 / EC, Directives 2006 / 95 / EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents:

- **EN 55022:2006+A1:2007**
- **EN 61000-3-3:2008**

*The product carries the CE Mark*

![CE Mark]

Person is responsible for marking this declaration:

![Signature]

**Yang Hongliang**

**Product Manager of International Business**

Date of Issue: 2012
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Package Contents

The following contents should be found in your box:

- One TG-3468 Gigabit PCI Express Network Adapter
- Quick Installation Guide
- One Resource CD for TG-3468, including:
  - Drivers
  - User Guide
  - Other Helpful Information

☞ Note:
Make sure that the package contains the above items. If any of the listed items is damaged or missing, please contact your distributor.

Conventions

The “Adapter” mentioned in this user guide stands for TG-3468 Gigabit PCI Express Network Adapter without any explanations.
Chapter 1. Introduction

1.1 Overview of the product

The TG-3468 10/100/1000Mbps PCI EXPRESS Gigabit Network Adapter is a highly integrated and cost-effective Gigabit Ethernet Adapter which is fully compliant with IEEE 802.3, IEEE 802.3u and IEEE 802.3ab specifications.

TG-3468 keeps low cost and eliminates usage barriers. It is the easiest way to upgrade a network from 10/100Mbps to 1000 Mbps. It supports 10/100Mbps network speed automatically both in Half-Duplex and Full-Duplex transfer modes, and 1000Mbps in Full-Duplex transfer mode using Auto-Negotiation technology to detect the network speed.

1.2 Features

- Integrated 10/100/1000Mbps transceiver
- Support PCI Express 1.1
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE802.3ab
- Auto-Negotiation with Next Page capability
- Support pair swap/polarity/skew correction
- Crossover Detection & Auto-Correction
- Wake-on-LAN and remote wake-up support
- Microsoft NDIS5, NDIS6 Checksum Offload (IPv4, IPv6, TCP, UDP) and Segmentation Task-offload (Large send v1 and Large send v2) support
- Support Full Duplex flow control (IEEE802.3X)
- Support IEEE 802.1p Layer 2 Priority Encoding and IEEE802.1Q VLAN tagging
- Support power down/link down power saving
- Support drivers for Windows XP (32bit/ 64bit), Windows Vista (32bit/ 64bit), and Windows 7 (32bit/ 64bit)

1.3 LED Status

There are three LEDs, including a 10Mbps Link/Act LED, a 100Mbps Link/Act LED, a 1000Mbps Link/Act LED.

- The Link/Act LEDs of TG-3468 PCI EXPRESS 10/100/1000M LAN Card indicates Link/Act status. They will light when connection has been built, and glitter when the adapter transmits or receives data.
Chapter 2. Installation Guide

2.1 Hardware Installation

To install the adapter, please follow these steps listed below:

1. Turn off your computer and unplug the power cord and all cables.
2. Remove your computer’s case cover.
3. Locate an available PCI Express slot.
4. Remove the screw that secures the back plate (the small piece of metal that covers the opening for PCI Express card on the back panel of your computer), then remove the back plate.
5. Carefully insert the adapter into the PCI Express slot. Do not touch the metal connector on the adapter.
6. Secure the adapter to the case using the screw you removed from the back plate.
7. Reinstall your computer’s case cover.
8. Plug in the power cord and other cables, and then turn on your computer.

Note:

When the hardware has been successfully installed on your computer, you will be prompted 'Found New Hardware Wizard' (as shown in Figure 2-1 and Figure 2-2); please click Cancel, and then follow the Software Installation steps to install driver for your adapter.

![Found New Hardware Wizard](image)

Figure 2-1 Found New Hardware Wizard in Windows XP
2.2 Software Installation

The section will guide you through the installation procedures for Windows XP, Windows 7, and Windows Vista. Please carefully follow the steps.

2.2.1 For Windows XP

1. Insert the TP-LINK Resource CD into the CD-ROM drive.

2. Right-click the icon **My Computer** on the desktop, and then click **Manage**.

![Figure 2-2 Found New Hardware Wizard in Windows Vista](image_url)

![Figure 2-3](image_url)
3. The **Computer Management** screen will appear as shown in Figure 2-4. Click **Device Manager**, and then you will see the various options on the right. Click **Other devices**, and then from the drop-down list please find **Ethernet Controller**. Right-click it, and then select **Update Driver**.

![Figure 2-4](image)

4. The **Hardware Update Wizard** window will show up as in Figure 2-5. Select **No, not this time**, and then click **Next**.
5. Select Install from a list or specific location [Advanced], and then click Next.

6. Select Don’t search. I will choose the driver to install, and then click Next.
7. Select **Network adapters**, and then click **Next**.
8. Click **Have Disk**.

*Note:* Please do not select any network adapter which is listed in the window.

![Hardware Update Wizard](image1)

**Figure 2-9**

9. Click **Browse**.

![Install From Disk](image2)

**Figure 2-10**
10. Find the right product model (TG-3468) and operation system (Windows XP) in the resource CD directory and choose the .inf file, and then click Open.

11. Back to the Install From Disk screen, click OK.
12. Click **Next**.

![Hardware Update Wizard](image1)

**Figure 2-13**

13. There will pop up Figure 2-14; select **Continue Anyway**.

![Hardware Installation](image2)

**Figure 2-14**
14. Wait a few seconds for the installation.

![Figure 2-15](Image)

15. Click **Finish** to complete the installation.

![Figure 2-16](Image)
2.2.2 For Windows 7

1. Insert the TP-LINK Resource CD into the CD-ROM drive.

2. Right-click the icon Computer on the desktop, and then click Manage.

![Image](image1.png)

Figure 2-17

3. The Computer Management screen will appear as shown in Figure 2-18. Click Device Manager, and then you will see the various options on the right. Click Other devices, and then from the drop-down list please find Ethernet Controller. Right-click it, and then select Update Driver Software....

![Image](image2.png)

Figure 2-18

4. The next screen will appear as shown in Figure 2-19. Select Browse my computer for driver software.
5. Select **Let me pick from a list of device drivers on my computer**, and then click **Next**.

6. Select **Show All Devices**, and then Click **Next**.
7. Click **Have Disk**… in the screen as shown in Figure 2-22.

8. Click **Browse**… in the **Install From Disk** window as shown in Figure 2-23.
9. Find the right product model (TG-3468) and operation system (Windows 7 32 bits or Windows 7 64 bits) in the resource CD directory and choose the .inf file, and then click Open.

Note:
If you have no idea about your operating system being Windows 7 32 bits or Windows 7 64 bits, please refer to Appendix B: Troubleshooting- T3.
10. Back to the **Install From Disk** window as shown in Figure 2-25, click **OK**.

![Figure 2-25](image)

11. Click **Next** in the next screen as shown in Figure 2-26.

![Figure 2-26](image)
12. There will appear Figure 2-27 indicating the installation process.

13. During the above installation process, you will be prompted Figure 2-28. Select **Install** to continue with the above installation process.
14. A few moments later, Figure 2-29 will appear showing your successful installation of the driver software. Click Close to complete it.

![Figure 2-29](image1.png)

**Figure 2-29**

### 2.2.3 For Windows Vista

1. Insert the TP-LINK Resource CD into the CD-ROM drive.

2. Right-click the icon Computer on the desktop, and then click Manage.

![Figure 2-30](image2.png)

**Figure 2-30**

3. The Computer Management screen will appear as shown in Figure 2-31. Click Device Manager, and then you will see the various options on the right. Click Other devices, and then from the drop-down list please find Ethernet Controller. Right-click it, and then select Update Driver Software....
4. The next screen will appear as shown in Figure 2-32. Select **Browse my computer for driver software**.
5. Select **Let me pick from a list of device drivers on my computer**, and then click **Next**.

![Figure 2-33](image)

6. Select **Show All Devices**, and then Click **Next**.

![Figure 2-34](image)
7. Click **Have Disk**… in the screen as shown in Figure 2-35.

![Figure 2-35](image)

8. Click **Browse**… in the **Install From Disk** window as shown in Figure 2-36.

![Figure 2-36](image)

9. Find the right product model (**TG-3468**) and operation system (**Window Vista 32 bits** or **Windows Vista 64 bits**) in the resource CD directory and choose the .inf file, and then click **Open**.
Note:
If you have no idea about your operating system being Windows Vista 32 bits or Windows Vista 64 bits, please refer to Appendix B: Troubleshooting- T3.

10. Back to the Install From Disk window as shown in Figure 2-38, click OK.
11. Click **Next** in the next screen as shown in Figure 2-39.

![Select Network Adapter](image)

**Figure 2-39**

12. There will appear Figure 2-40 indicating the installation process.

![Installing driver software](image)

**Figure 2-40**
13. During the above installation process, you will be prompted Figure 2-41. Select **Install** to continue with the above installation process.

![Figure 2-41](image1)

14. After a few moments, Figure 2-42 will appear showing your successful installation of the driver software. Click **Close** to complete it.

![Figure 2-42](image2)
# Appendix A: Specifications

## Normal

<table>
<thead>
<tr>
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<th>Details</th>
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<tbody>
<tr>
<td>Interface</td>
<td>Support PCI Express 1.1</td>
</tr>
<tr>
<td>Buffer Size</td>
<td>Transmit/Receive On Chip Buffer(48K)support</td>
</tr>
<tr>
<td>Standards</td>
<td>IEEE802.3ab 1000Base-T, IEEE802.3x, IEEE802.1q, IEEE802.1p</td>
</tr>
<tr>
<td>Transmission Rate</td>
<td>10/100/1000Mbps</td>
</tr>
<tr>
<td>Connector supported</td>
<td>one 10/100/1000M Auto-Negotiation RJ45 port</td>
</tr>
<tr>
<td>Software</td>
<td>Support drivers for Windows 7 (32bit / 64bit), Windows Vista (32bit / 64bit), Windows XP</td>
</tr>
<tr>
<td>LEDs</td>
<td>one 10M Link/Act LED, one 100M Link/Act LED, one 1000M Link/Act LED</td>
</tr>
<tr>
<td>Safety &amp; Emission</td>
<td>FCC, CE</td>
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## Environmental and Physical

<table>
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<th></th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 °C 70 °C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>10% ~ 90%</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5% ~ 90%</td>
</tr>
</tbody>
</table>
Appendix B: Troubleshooting

T1. What should I do if PC cannot find the new hardware?

Check to see if the network adapter is inserted in the PCI Express slot properly; otherwise, please reinsert the adapter.

If the problem remains, please try to change another PCI Express slot.

T2. What should I do if I could not find “Ethernet Controller” under “(My) Computer >Device Manager >Other Devices”?

In such circumstance, you are recommended to go to “(My) Computer >Device Manager >Network adapters” to find “Realtek PCIe GBE Family Controller” instead, and continue with the rest steps of installation.

![Image of Device Manager](image.png)

Figure B-1

T3. How could I know whether the operating system of my computer is 32-bit or 64-bit?

1) Right-click Computer on the desktop, and then select Properties, as shown in Figure B-2 (for OS Windows 7) and Figure B-3 (for OS Windows Vista) below.
Figure B-2 (for Windows 7)

Figure B-3 (for Windows Vista)
2) You can find out whether your operating system is 32-bit or 64-bit, as shown below.

Figure B-4 (for Windows 7)

Figure B-5 (for Windows Vista)