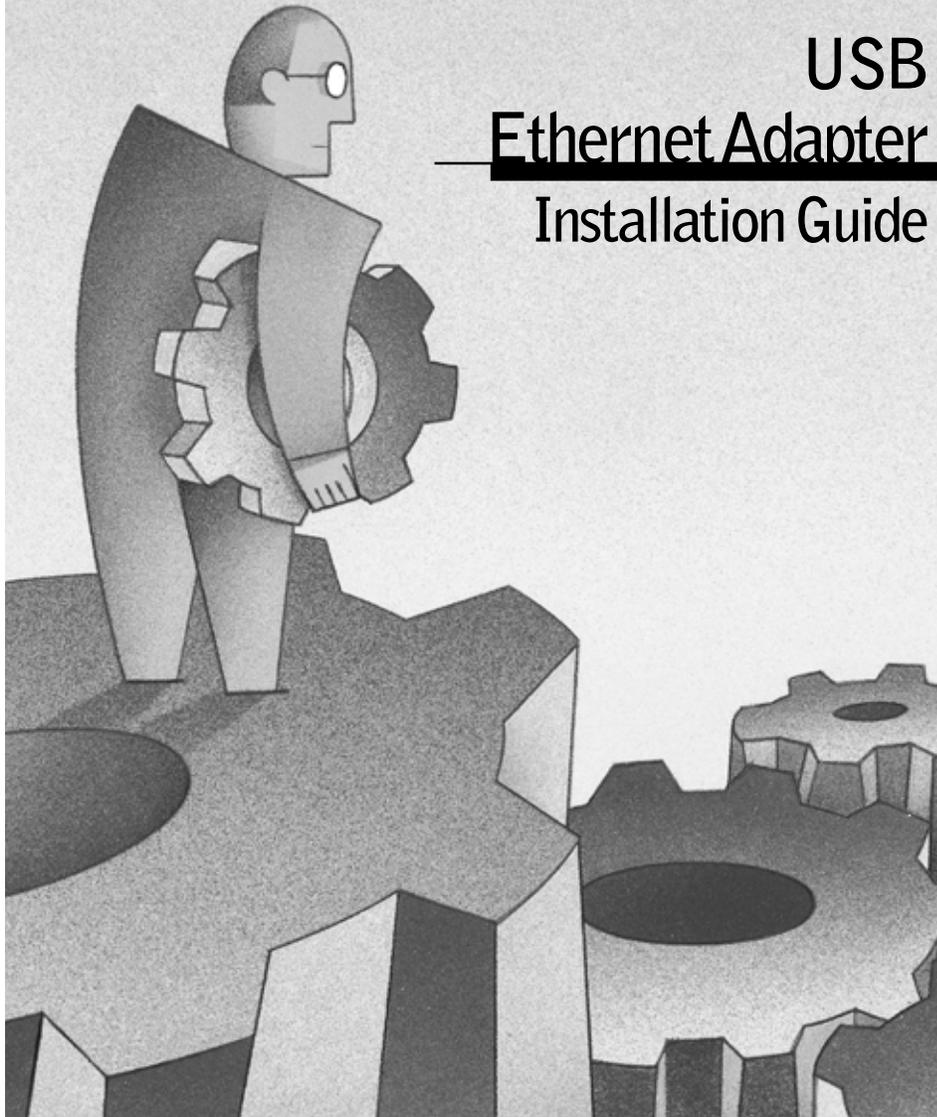# NETGEAR

USB
Ethernet Adapter
Installation Guide

► Start Here

Instructions in this guide are for users of Windows® who are installing the Model EA101 USB Ethernet Adapter. For instructions on installing and verifying the Windows network driver, refer to "Install the Network Driver" on the other side of this guide.

These four easy steps provide information for installing your Model EA101 USB Ethernet Adapter:

1. Verify Package Contents
2. Install the Network Adapter
3. Connect the Network Adapter and Cables
4. Install the Network Driver

As a last step, be sure to fill out and send in your warranty card.

To register online, direct your Web browser to the Web page at:

http://www.netgear.com

1 Verify Package Contents

Unpack the contents of the package and make sure that you have everything.

Model EA101 USB Ethernet Adapter

Category 5 10/100 Mbps UTP cable (provided with Model EA101C Ethernet Adapter)

Drivers and Diagnostics Disk

Installation guide, Warranty & Owner Registration Card, and Support Information Card
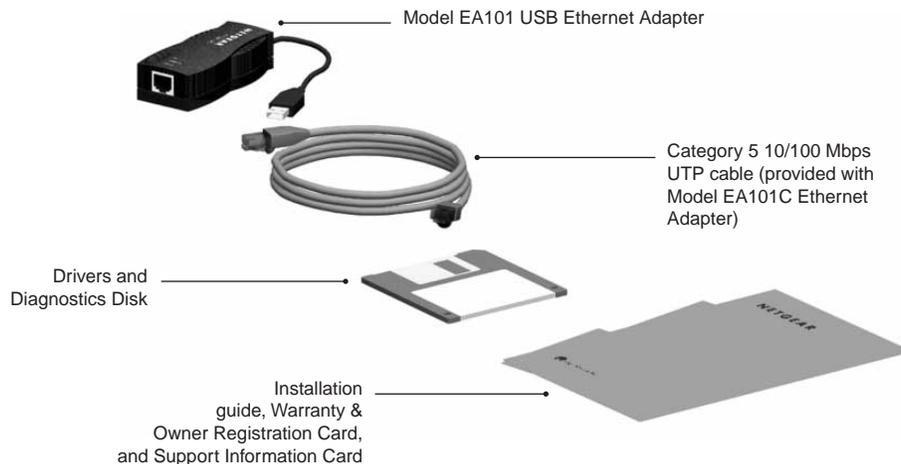
9309FA

Verify PC Requirements

The instructions given in this guide are for using the NETGEAR™ Model EA101 USB Ethernet Adapter in a PC that has a Microsoft® Windows 98® operating system.

② Install the Network Adaptere

The Model EA101 USB Ethernet Adapter is hot swappable, which means it can be inserted into a PC that is either turned off or powered on.

1. **Insert the Model EA101 USB Ethernet Adapter into the USB (universal serial bus) as shown in the illustration below.**

    Some PCs have two USB ports. The Model EA101 USB Ethernet Adapter can be inserted into either port.

2. **Insert the Category 5 10/100 Mbps UTP cable into the RJ-45 plug at the end of the Model EA101 USB Ethernet Adapter.**

Model EA101
USB Ethernet
Adapter
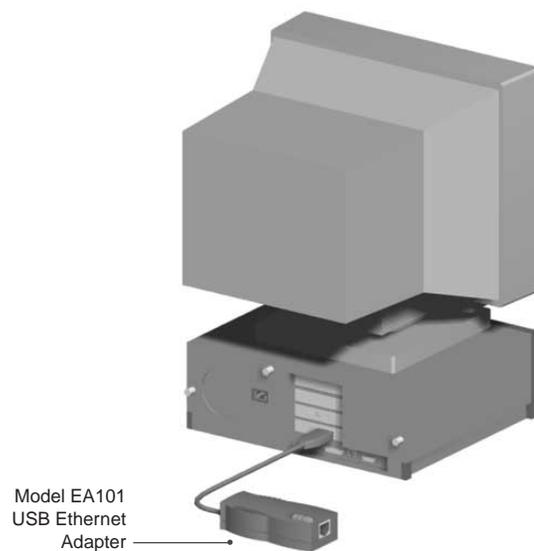
9308FA

3. **Turn on power to the PC, if you have chosen to install the adapter with the power turned off.**

3   Connect the Network Adapter and Cables

1. **Using a UTP cable, connect any port on the hub to the RJ-45 port on the adapter.**

2. **Follow the illustration below to connect the network cables.**

PC with network card installed

Power adapter

PC with USB port

Hub

Model EA101 USB Ethernet Adapter

USB connector

Category 5 10/100 Mbps UTP cables*
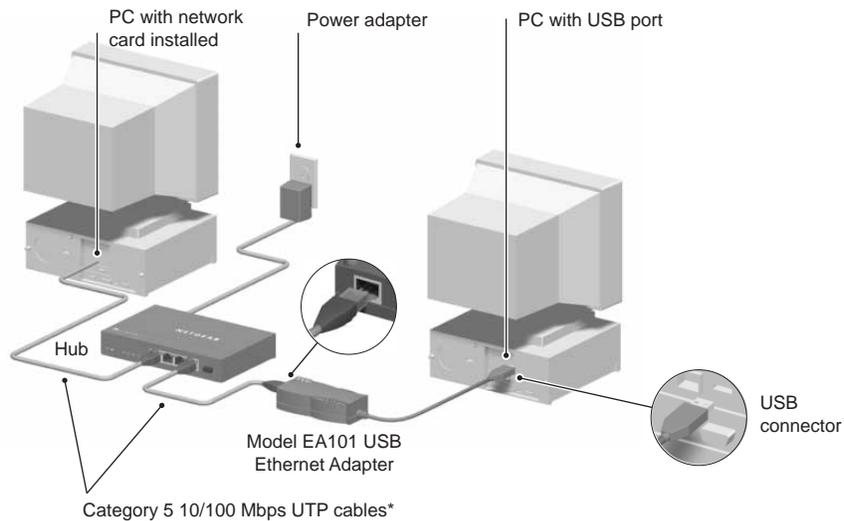
*Use the cables provided or any Category 5 UTP cable.
Maximum length = 100 meters (300 feet)

9310FA

➡️ **Note:** One of the ports on NETGEAR hubs is switchable between Normal (MDI-X) and Uplink (MDI) with a Normal/Uplink push button. If you are using this switchable port on a NETGEAR hub to connect to a PC, a network card, or to the Model EA101 USB Ethernet adapter, make sure the Normal/Uplink push button is set to Normal.

4   Install the Network Driver

This guide provides you with instructions for installing the Windows network driver. The steps given in these instructions are for users of Windows 98.

> **➡**   **Note:** You must install the Ethernet adapter (instructions on other side of this guide) before installing the network driver.

Before you proceed with the installation steps, decide on a name for your network and for each PC (each name must be only one word and the name of each PC must be different). You also need to have the Windows CD-ROM and the NETGEAR EA101 Drivers and Diagnostics Disk ready to use in the installation process.

> **➡**   **Note:** If the "Insert Disk" window opens and the "Please insert the disk labeled Windows 98..." message appears at any time during the following process, insert the Windows 98 CD-ROM in Drive D (the CD-ROM drive) and click on "OK." Then follow the next step in the instructions.

1. **Turn on the power to the computer and start Windows 98.**

   The new hardware is found.

2.


```
Add New Hardware Wizard

           This wizard searches for new drivers for:

           NETGEAR EA101 USB Ethernet Adpater

           A device driver is a software program that
           makes a hardware device work.


                        < Back    Next>    Cancel
```

   Click on "Next."

3.

Add New Hardware Wizard

What do you want windows to do?

(•) Search for the best driver for your device (Recommended).

(○) Display a list of all the drivers in a specific location, so you can select the driver you want.

[< Back] [Next>] [Cancel]

Select "Search for the best driver....."

Click on "Next."

4.

Add New Hardware Wizard

Windows will search for new drivers in its driver database on your harddrive, and in any of the following selected locations. Click Next to start the search.

☑ Floppy disk drives

☐ CD-ROM drive

☐ Microsoft Windows Update

☑ Specify a Location:

A:\ ▼

[Browse...]

[< Back] [Next>] [Cancel]

Select "Floppy disk drives" and insert the NETGEAR EA101 Ethernet Adapter Drivers and Diagnostics Disk into the floppy drive.

Select "Specify a Location" and make sure the location is "A:\."

Click on "Next."

5.

Add New Hardware Wizard

Windows driver file search for the device:

NETGEAR EA101 USB Ethernet Adapter

Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.

Location of driver:

A:\

[< Back] [Next>] [Cancel]

Click on "Next."

6.

```
┌────────────────────────────────────────────────────┐
│ Insert Disk                                      [×]│
├────────────────────────────────────────────────────┤
│  ╱╲    Please insert the the disk labeled          │
│ (  ✕ ) 'NETGEAR EA101 USB Ethernet Adapter Drivers │
│  ╲╱    Disk' and then click OK.                     │
│                                                    │
│              ┌──────────────┐                      │
│              │      OK       │                      │
│              └──────────────┘                      │
└────────────────────────────────────────────────────┘
```

Click on "OK."

7.

```
┌────────────────────────────────────────────────────────────┐
│ Copying Files...                                         [×] │
├────────────────────────────────────────────────────────────┤
│  ┌──┐   The file 'EA101ND4.SYS' on        ┌──────────────┐  │
│  │  │   NETGEAR EA101 USB Ethernet Adapter │     OK       │  │
│  └──┘   Drivers Disk could not be found.   └──────────────┘  │
│                                            ┌──────────────┐  │
│         Insert NETGEAR EA101 USB Ethernet  │   Cancel     │  │
│         Adapter Drivers Disk in the        └──────────────┘  │
│         selected drive and click OK.                         │
│                                            ┌──────────────┐  │
│                                            │  Skip File   │  │
│         Copy files from:                   └──────────────┘  │
│                                            ┌──────────────┐  │
│         ┌──────────────────────────────┐   │  Details...  │  │
│         │ A:\                          │   └──────────────┘  │
│         └──────────────────────────────┘   ┌──────────────┐  │
│                                            │  Browse...   │  │
│                                            └──────────────┘  │
└────────────────────────────────────────────────────────────┘
```

Make sure that the location and the correct driver are displayed (for example, A:\).

Click on "OK."

> ➡ **Note:** If you copied the Windows 98 CD-ROM to your hard drive, the next two windows may not appear.

8.

```
┌────────────────────────────────────────────────────┐
│ Insert Disk                                      [×]│
├────────────────────────────────────────────────────┤
│  ╱╲    Please insert the the disk labeled          │
│ (  ✕ ) 'Windows 98 CD-ROM' and then click OK.      │
│  ╲╱                                                 │
│              ┌──────────────┐                      │
│              │      OK       │                      │
│              └──────────────┘                      │
└────────────────────────────────────────────────────┘
```

Click on "OK."

9.

```
Copying Files...                                              [X]

   ┌──┐   The file 'choosusr.dll' on Windows 98
   │  │   CD-ROM could not be found.                     ┌──────────┐
   └──┘                                                  │    OK    │
                                                         └──────────┘
           Insert Windows 98 CD-ROM into the drive       ┌──────────┐
           selected below, and click OK.                 │  Cancel  │
                                                         └──────────┘

                                                         ┌──────────┐
                                                         │ Skip File│
                                                         └──────────┘
           Copy files from:                              ┌──────────┐
                                                         │ Details..│
         ┌────────────────────────────────────┐         └──────────┘
         │ D:\WIN98                            │         ┌──────────┐
         └────────────────────────────────────┘         │ Browse...│
                                                         └──────────┘
```
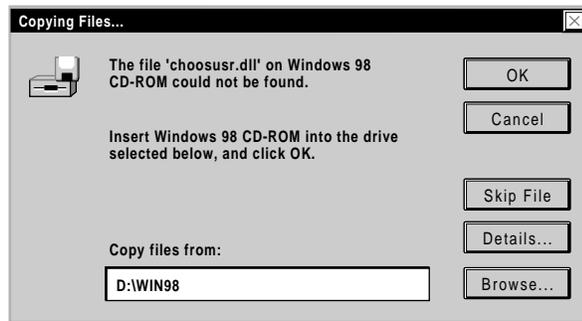
Insert the Windows 98 CD-ROM.

Make sure the designated path to the Windows 98 CD-ROM is displayed in the "copy files from" prompt line (for example, D:\WIN98).

Click on "OK."

10.

```
Update Device Driver Wizard

                              ┌──┐┌──┐
                              │  ││  │  NETGEAR EA101 USB Ethernet Adapter
                              └──┘└──┘

                              Windows has finished installing the software that your new
                              hardware device requires.



                                      ┌────────┐ ┌────────┐ ┌────────┐
                                      │ < Back │ │ Finish │ │ Cancel │
                                      └────────┘ └────────┘ └────────┘
```

Click on "Finish."

11.

```
Network                                                        [X]

   ┌──┐   To finish setting up your new hardware, you must restart
   │? │   your computer.
   └──┘
           Do you want to resatrt your computer now?

                    ┌──────────┐      ┌──────────┐
                    │   Yes    │      │    No    │
                    └──────────┘      └──────────┘
```

Remove the NETGEAR EA101 Drivers and Diagnostics Disk and the Windows 98 CD-ROM.

Click on "Yes" to restart your computer.
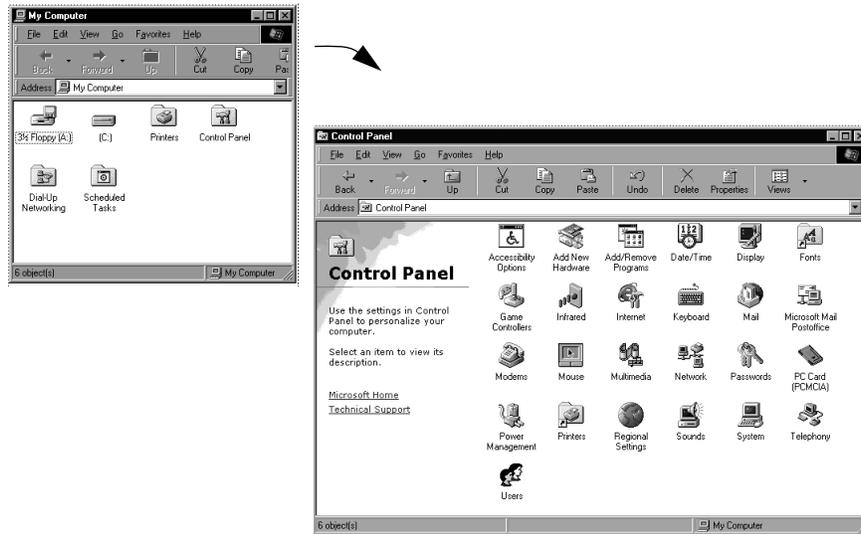
You must restart your computer to complete the installation of the driver.

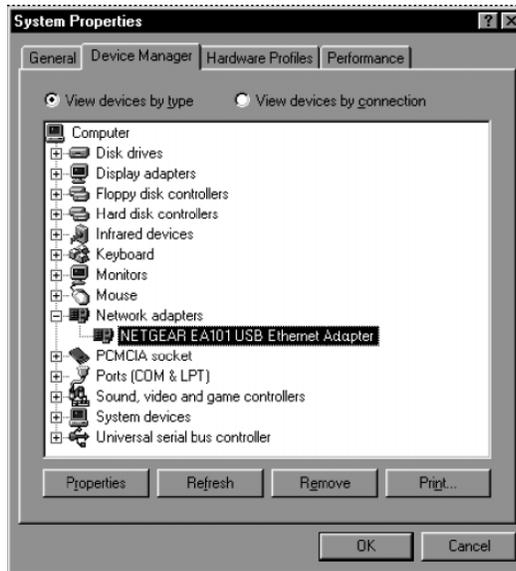**12. Proceed to "Verify Installation."**

▶ Verify Installation

1.

Double-click on "My Computer" on your desktop, double-click on "Control Panel," and then double-click on "System."

2.

Click on "Device Manager."

3.

System Properties screen:

General | **Device Manager** | Hardware Profiles | Performance

⦿ View devices by type   ○ View devices by connection

- 🖥 Computer
  - ⊞ 🖴 Disk drives
  - ⊞ 🖵 Display adapters
  - ⊞ 🖴 Floppy disk controllers
  - ⊞ 🖴 Hard disk controllers
  - ⊞ 📡 Infrared devices
  - ⊞ ⌨ Keyboard
  - ⊞ 🖵 Monitors
  - ⊞ 🖱 Mouse
  - ⊟ 🖧 Network adapters
    - 🖧 **NETGEAR EA101 USB Ethernet Adapter**
  - ⊞ PCMCIA socket
  - ⊞ Ports (COM & LPT)
  - ⊞ 🔊 Sound, video and game controllers
  - ⊞ 🖥 System devices
  - ⊞ 🔌 Universal serial bus controller

Properties | Refresh | Remove | Print...

OK | Cancel

Double-click on "Network adapters" and then double-click on "NETGEAR EA101 USB Ethernet Adapter" to open the "Properties" window that displays a message regarding the status of the device.

If there is a problem with the driver installation, an exclamation point appears next to "NETGEAR EA101 USB Ethernet Adapter."

4.

NETGEAR EA101 USB Ethernet Adapter Properties

General | Driver | Resources

🖧 NETGEAR EA101 USB Ethernet Adapter

Device type: Network adapters
Manufacturer: NETGEAR
Hardware version: 065

┌ Device status ─────────────────────
  This device is working properly.

└────────────────────────────────────

┌ Device usage ──────────────────────
  ☐ Disable in this hardware profile
  ☑ Exists in all hardware profiles
└────────────────────────────────────

OK | Cancel

Continue to click on "OK" or click on the "X" in the right-hand corner to close any open windows and return to the Windows 98 desktop.

▷ Technical Specifications

Model FA510 Network Card	
Standards Compatibility	Microsoft Windows 98 compatible IEEE 802.3i, 10BASE-T Ethernet
Interface Options	RJ-45 connector
IRQ Options	Assigned by Plug-and-Play system
Power Consumption	2.0 W
Physical Specifications	
Dimensions	
Weight	0.14 lb (63 g)
Environmental Specifications	
Operating temperature	0° to 45° C
Operating humidity	10% to 90% noncondensing
Agency Compliance	CE mark, commercial
	FCC, Part 15, Class B
	EN 55 022 (CISPR 22), Class B
	Canada ICES-003, Class B
	VCCI Class B

Trademarks

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Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products described in this document without notice.

NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Certificate of the Manufacturer/Importer

It is hereby certified that the Model EA101 USB Ethernet Adapter has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions.

Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice

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

Declaration of Conformity
NETGEAR Model EA101 USB Ethernet Adapter
FC Tested to comply with FCC Standards

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.
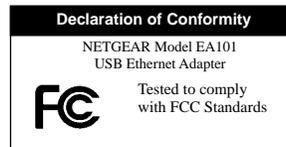
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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: (1) Reorient or relocate the receiving antenna, (2) Increase the separation between the equipment and receiver, (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, (4) Consult the dealer or an experienced radio/TV technician for help.

EN 55 022 Statement

This is to certify that the Model EA101 USB Ethernet Adapter is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22).

Compliance is dependent upon the use of shielded data cables.

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Model EA101 USB Ethernet Adapter) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (Model EA101 USB Ethernet Adapter) respecte les limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

NETGEAR

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Model EA101 USB Ethernet Adapter Installation Guide