



ATTO Technology, Inc.

FastFrame™ 10GBASE-T Network Interface Card Getting Started Guide

Thank you for purchasing the ATTO FastFrame 10GBASE-T Network Interface Card (NIC). This guide gives you the basics for installing and configuring your adapter. For more information, please visit our website at www.attotech.com

1 Overview

This guide covers hardware and software installation, setup procedures, and troubleshooting tips for ATTO FastFrame 10GBASE-T Ethernet adapters.



Note

This guide refers to drivers and features available on IA-32-based computer platforms and platforms based on Intel® Extended Memory 64 Technology. These drivers are not compatible with Itanium®-based computers.

Ensure you have the equipment and software you need for the installation:

- FastFrame 10GBASE-T NIC
- A computer with an available PCIe or PCIe 2.0 expansion slot
- Cables

2 System Requirements:

Before installing the ATTO FastFrame 10GBASE-T Ethernet Adapter, check your system for the following minimum configuration requirements.

Supported Operating Systems

- Microsoft Windows Vista®, 8.1®
- Microsoft Windows Server® 2008, 2008 R2, 2012
- Mac OS® X 10.8 or later
- Red Hat Enterprise Linux® 9.x
- SUSE Linux Enterprise® Server 12
- openSUSE™ 13.2
- CentOS 7

The installer for the adapter drivers will only list the drivers that are compatible with the currently running operating system.

3 Installing Drivers

Configure your system to recognize and use your FastFrame NIC by installing drivers for

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Windows

- 1 Power on your system and log in as the administrator or a user with proper administrative privileges
- 2 Go to www.attotech.com
- 3 Click on **downloads**.
- 4 Register or log in if previously registered.
- 5 Click on **Ethernet Adapters** in the left dialog.
- 6 Navigate to your HBA model/family in the right dialog and click on it.
- 7 Scroll down to and click the desired driver depending on the operating system.
- 8 A download window appears. Choose **Save File**.
- 9 Double-click the downloaded file to extract and launch the driver setup program.
- 10 Follow the on-screen instructions to complete the driver installation.

Mac OS X

- 1 Power on your system and log in as the administrator or a user with proper administrative privileges
- 2 Go to www.attotech.com
- 3 Click on **downloads**.
- 4 Register or log in if previously registered.
- 5 Click on **Ethernet Adapters** in the left dialog.
- 6 Navigate to your HBA model/family in the right dialog and click on it.
- 7 Scroll down to and click the desired driver depending on the operating system.
- 8 A download window appears. Choose **Save File**.
- 9 Launch the installer package.
- 10 Follow the on-screen instructions.

Linux



Note

These steps assume a basic knowledge of Linux terminal commands. You must also have the correct kernel source files for the appropriate kernel already installed.

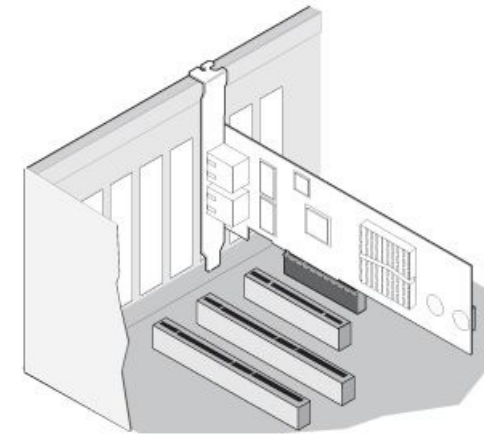
- 1 Power on your system and log in as the administrator or a user with proper administrative privileges
- 2 Go to www.attotech.com
- 3 Click on **downloads**.
- 4 Register or log in if previously registered.
- 5 Click on **Ethernet Adapters** in the left dialog.
- 6 Navigate to your HBA model/family in the right dialog and click on it.
- 7 Scroll down to and click the desired driver depending on the operating system.
- 8 A download window appears. Choose **Save File**.
- 9 After the download has completed, open the FastFrame volume on the desktop.
- 10 Open the **Linux** folder.
- 11 Open the **Drivers** folder.
- 12 Copy the .tgz file to a temporary folder.
- 13 Open a terminal window and change to the location of the copied tgz.
- 14 Extract the file using the command **tar -xzf <filename.tgz>**.
- 15 Change to the directory created above then run the installer script **./install.sh**.

4 Hardware Installation



Note

If you are replacing an existing adapter with a new adapter, you must re-install the driver.



Insert a PCI Express Adapter in the Server

- 1 Turn off the server and unplug the power cord, then remove the server's cover.



CAUTION

Turn off and unplug the server before removing the server's cover. Failure to do so could endanger you and may damage the adapter or server.

- 2 Remove the cover bracket from a PCI Express slot (v1.0a or later).

PCI-Express slots and adapters vary in the number of connectors present, depending on the data lanes being supported.

- 3 Insert the adapter in an available, compatible PCI Express slot. Push the adapter into the slot until the adapter is firmly seated. The adapter can be installed in x8 or x16 mechanical PCIe slot.



CAUTION

Some PCI-Express adapters may have a short connector, making them more fragile than PCI adapters. Excessive force could break the connector. Use caution when pressing the board in the slot.

- 4 Repeat steps 2 through 3 for each adapter you want to install.
- 5 Replace the server cover and plug in the power cord.
- 6 Turn the power on.

Connect a 10GBASE-T Network Cable



Note

Verify Category 6 or better Ethernet cable is used for 10GBASE-T connections. See Table 1 below.

Table 1: Cable Types and Lengths

Category	Speed	Max Distance
Cat7	10GBASE-T	100 Meters
Cat6a	10GBASE-T	100 Meters
Cat6	10GBASE-T	55 Meters
Cat5e	1000BASE-T	100 Meters
Cat5e	100BASE-TX	100 Meters

5 Configure Network Settings

To configure your network settings, consult your System Administrator or System Documentation.

6 Configure your Adapter

Default settings are appropriate for most systems but you may change settings using the Device Manager in Windows, EthTool in Linux or Network section of System Preferences in OS X.