

PXIE module

Software Installation
Quick Start Guide



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Table of contents

1 Conventions	4
2 Installing software	5
2.1 Install the Cohesion Installer software package	6
2.2 Cohesion Manager	8
2.3 Cohesion Firmware Updater	9

1 Conventions

Please make yourself familiar with these conventions; we use them throughout this user manual:



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in **death or serious injury**.

Do not proceed unless the required conditions are met and understood.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in **minor or moderate injury** or **component damage**.

Do not proceed unless the required conditions are met and understood.

NOTE

Indicates relevant information that requires your attention.

2 Installing software

The Cohesion Installer software package enables communication between the PXle controller and Quantifi Photonics modules installed in a chassis.

The Cohesion Installer contains all required drivers and software:

CohesionDriver	Driver Service for Quantifi Photonics PXle modules
CohesionSCPI	VXI11 compliant server for remote SCPI communication
CohesionUI	Web-based Graphical User Interface
Cohesion Manager	Single-window utility application that shows the status of all Cohesion Software Services running on the system.
Cohesion Firmware Updater	Single-window utility application that shows the current firmware status of all Quantifi Photonics PXle modules installed in the chassis.

2.1 Install the Cohesion Installer software package

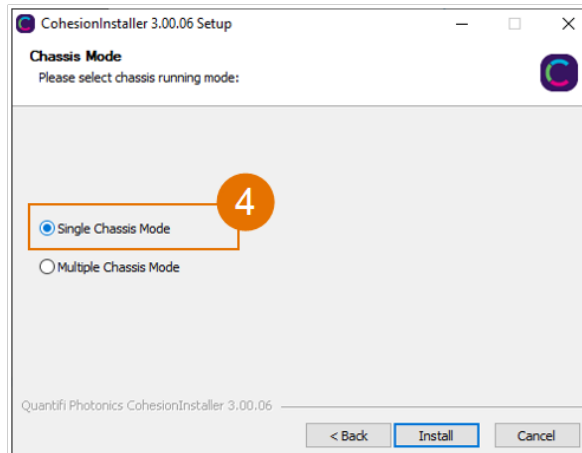
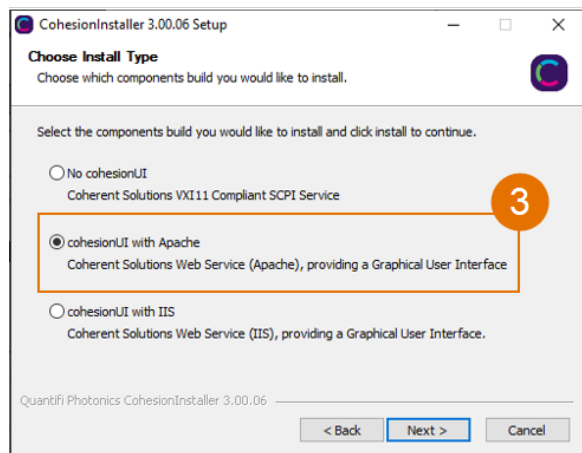
Install Cohesion Installer on:

- the PXle controller of the PXle Chassis in which the Quantifi Photonics module(s) will be installed, or
- the controller PC (multi-chassis MXI setup)

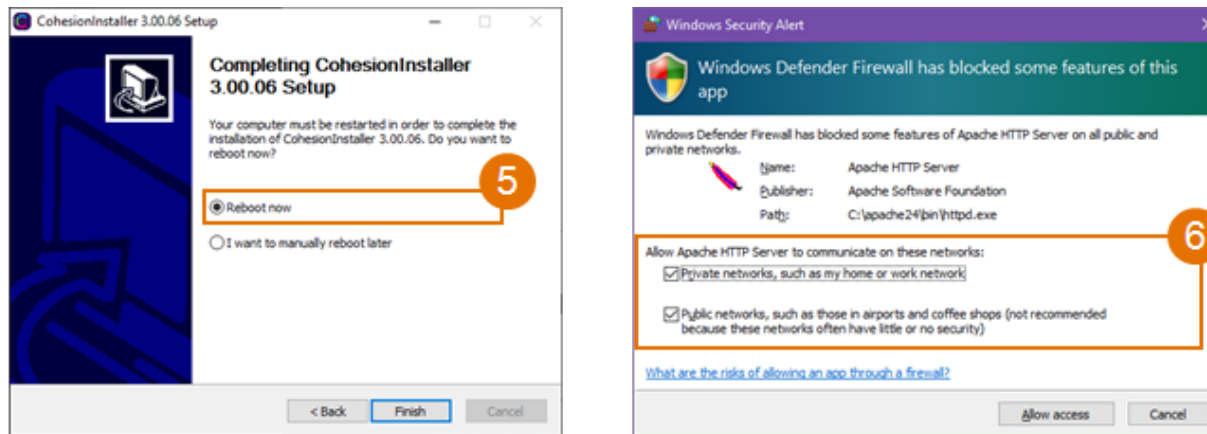
► To install Cohesion Installer:

1. We recommended that you save your work and close open programs before installing Cohesion Installer.
2. Locate and run **CohesionInstaller-<version_number>.exe** from the provided USB media device (or download it from the Quantifi Photonics website) and follow the on-screen installation prompts.
3. Select the Installation Type: **CohesionUI with Apache** (this is the default setting)
4. Select the Chassis Mode: **Single Chassis Mode** (this is the default setting). If unsure, select this default setting.

To operate in Multiple Chassis Mode, additional hardware modules are required. As you can change the Chassis Mode later, we recommend to select **Single Mode** unless all other configuration requirements have been met.



5. At the end of the installation, we recommend you select the **Reboot now** option, and click **Finish** to complete the installation process.
6. A Windows Security Alert may prompt the user for network access. We recommend that **both options are ticked**, to allow any network configuration.



7. On startup after rebooting the system a User Account Control prompt might be displayed. Click **Yes** to allow running of the **Cohesion Firmware Updater Utility** and proceed with the application.

2.2 Cohesion Manager

Cohesion Manager is a single-window utility application that shows the status of all Cohesion Software Services running on the system.

By default, these Cohesion Software Services will start automatically on startup of Windows and need to be running to facilitate proper communication with the Quantifi Photonics PXIe modules.

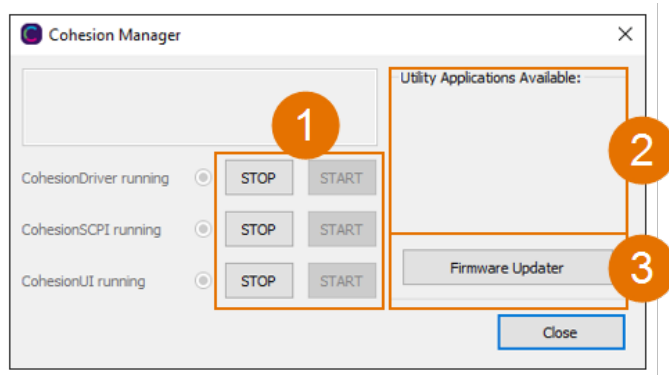
CohesionDriver	required	manages installed Quantifi Photonics modules
CohesionSCPI	required	VXI11 compliant SCPI interface for TCP communication with the installed Quantifi Photonics modules
CohesionUI	optional	web service providing a graphical interface for simplified operation of installed Quantifi Photonics modules

► To open Cohesion Manager:

- Search for Cohesion Manager in the Windows Start Menu.

► From Cohesion Manager you can:

1. Start or stop the CohesionDriver service, CohesionSCPI service, or CohesionUI service independently.
2. View all installed Quantifi Photonics system utilities.
3. In this example you can open the Cohesion Firmware Updater application.



► If you can't detect or communicate with modules:

- Open Cohesion Manager.
- Check the status of software services, and start a service if required.

2.3 Cohesion Firmware Updater

Cohesion Firmware Updater launches automatically when you install a new version of Cohesion Installer on the system and reboot. Or, you can open it via the Cohesion Manager application.

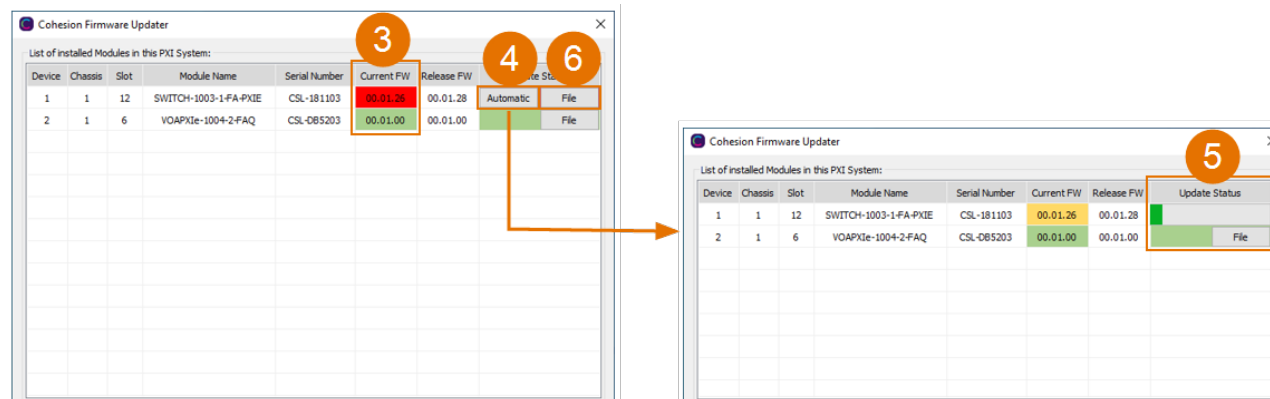
It is a single-window summary application that enables you to:

- view the current firmware status of all Quantifi Photonics PXIe modules installed in the chassis.
- update firmware to a new version if available.

We recommend that you update firmware if a new version is available.

► To upgrade firmware:

1. Open **Cohesion Manager**, for example by searching for it in the Windows Start Menu.
2. In **Cohesion Manager**, click **Firmware Updater**.
3. Modules with out-of-date firmware are highlighted red.
4. Click **Automatic** to update automatically.
5. Progress will be displayed in **Update Status**.
6. Click **File** to update to a specific firmware package.



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General Enquiries	sales@quantifiphotonics.com
Technical Support	support@quantifiphotonics.com
Phone	+64 9 478 4849
North America	+1-800-803-8872