



Windows Getting Started Guide

Intel® QuickAssist Technology

Hardware Version 2.0

Production Release

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Intel® QuickAssist Getting Started Guide for Windows*

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INTRODUCTION

1.1 About This Document

This getting started guide documents the instructions to obtain, install, and exercise the Intel® QuickAssist Technology (Intel® QAT) Windows* software for the Hardware Version 2.0 package.

In this document, for convenience:

- Software package is used as a generic term for the Intel® QAT Software Package for Hardware Version 2.0.
- Acceleration driver is used as a generic term for the software that allows the Intel® QAT Software Library APIs to access the Intel® QAT Endpoint(s).

Note: Please refer to the Windows* QAT Release Notes for a list of supported platforms.

1.2 Features Implemented

Implemented features are listed in Windows* QAT Release Notes or Windows* QAT Technical Guide.

1.3 Package Release Structure

After unpacking the zip file, the directory should contain the following:

Table 1.1:: Windows* Package Release Structure

Files/Directory	Comments
QAT2.0.<version>.zip	Top-level Intel® QAT package
./filelist	List of files in this package
./versionfile	The version of this package; this should match the package version
./QuickAssist	Primary folder containing the files necessary for installation, development, license files, and the README.txt
./QuickAssist/Compression	The Windows* QATzip files necessary for data compression development and the compression sample application (parcomp.exe)
./QuickAssist/Crypto	The binaries necessary to register the QAT device for CNG and the crypto sample application (cngtest.exe)
./QuickAssist/Driver	The Windows* QAT base driver and counter manifest file
./QuickAssist/Firmware	The Windows* QAT firmware files and license manifest file
./QuickAssist/Setup	The Windows* QAT driver installation binary file (Qat-Setup.exe)

1.4 System Configuration

This section describes the process of configuring the system prior to the Intel® QuickAssist Technology (Intel® QAT) driver installation.

1.4.1 Configuring BIOS

The BIOS configuration may differ depending on the platform used. This step is not necessary in a virtual environment.

Depending on the hardware SKU, there can be up to 4 QAT endpoints per socket. It is possible to disable individual QAT endpoints by following the instructions below:

1. Enter BIOS setup.
2. Navigate to the following path where <n> corresponds to the socket containing the QAT endpoint(s) to be disabled:

EDKII Menu > Socket Configuration > IIO Configuration > IOAT Configuration > Sck<n> > IOAT Configuration

1. Update the CPM value to Disable for each QAT endpoint to be disabled for each socket.
2. Save changes.
3. Reboot the system

1.4.2 Configuring Windows*

For the supported Windows* Operating Systems, there should be no additional steps or packages required to use the QAT devices.

SOFTWARE INSTALLATION

2.1 Unpacking the Driver Package

The driver package is in a zip package. By default, all supported Windows* Operating Systems can extract this driver package.

Note: To install the QAT drivers, you must have Administrator privileges.

2.2 Installation Overview

The installer requires the Microsoft* VC Redistributable. If the redistributable is not available, it will automatically be installed.

The recommended installation method for Windows* is to use the QatSetup.exe binary. The QatSetup.exe binary can be found in the relative directory mentioned in *Package Release Structure*.

For other methods of installation of the QAT driver in Windows, see the Windows* QAT Technical Guide.

2.3 Configure Acceleration Software

For detailed overview on how to configure the QAT device in Windows*, see the Windows* QAT Technical Guide.

2.4 Uninstall Driver Package

From the Windows* Desktop, the QAT driver can be uninstalled from the Control Panel via the “Uninstall a Program” submenu. Select the entry with Name “*Intel® QuickAssist Technology*”.

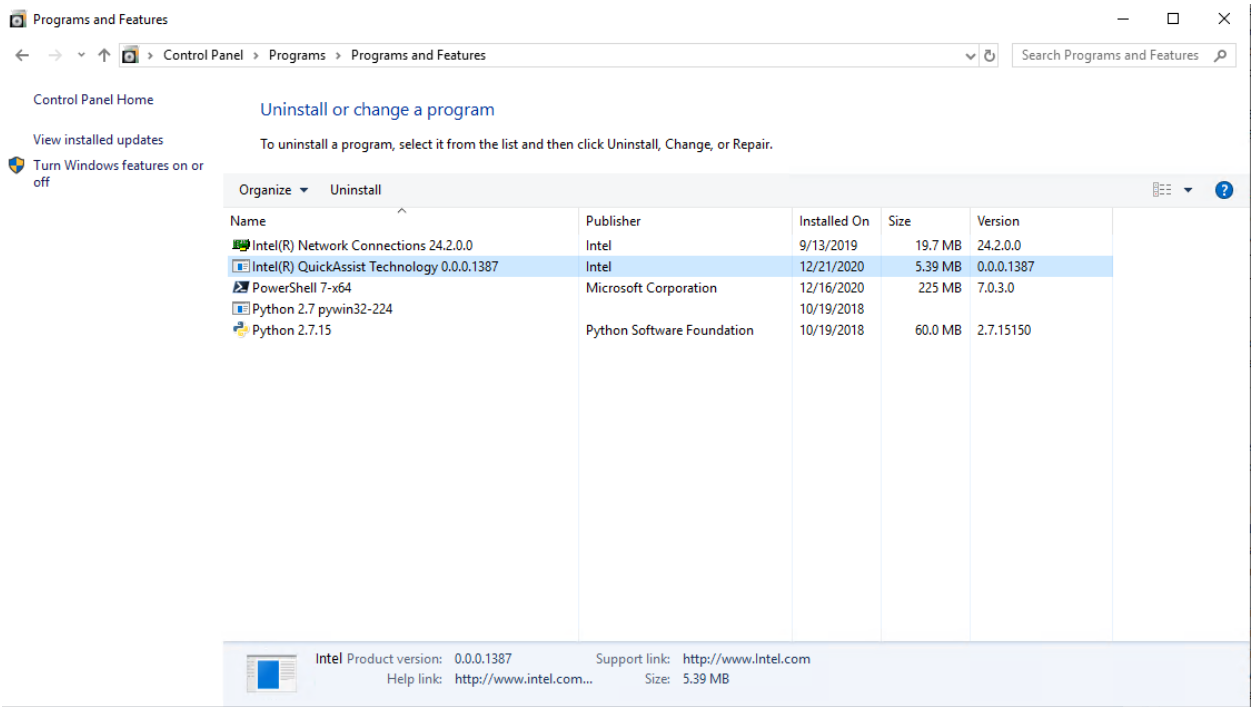


Figure 2.1:: Windows* QAT Uninstallation

SAMPLE APPLICATIONS

3.1 Compression Test Application

A compression test application, parcomp, is included in this package. For more information on how to use the parcomp application, refer to the Readme file included in the package. You can find the README file in the following folder upon completion of the installation:

```
<Program Files>\Intel\Intel(R) QuickAssist Technology
```

3.2 Cryptography (PKE) Test Application

A cryptography test application for PKE operations, Cngtest, is included in this package. For more information on how to use the Cngtest application, please refer to the README file included in the package. You can find the README file in the following folder upon completion of the installation:

```
<Program Files>\Intel\Intel(R) QuickAssist Technology
```