QEEXO AUTOML INSTALLATION GUIDE FOR WINDOWS* (AWS VERSION)

Jan 10, 2022 -- v.4.0.0

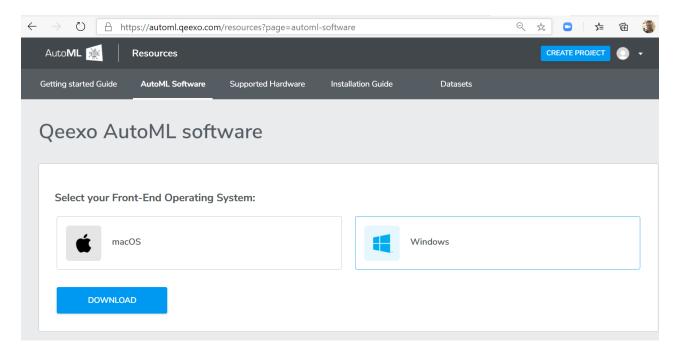
This document details the installation and upgrade process for the AWS version of Qeexo AutoML, where its backend runs on a private instance of the AWS cloud.

*Tested on Windows 10 Build 2004 Version 19041.630

STEP 1: Install Qeexo AutoML

A. Download Qeexo AutoML

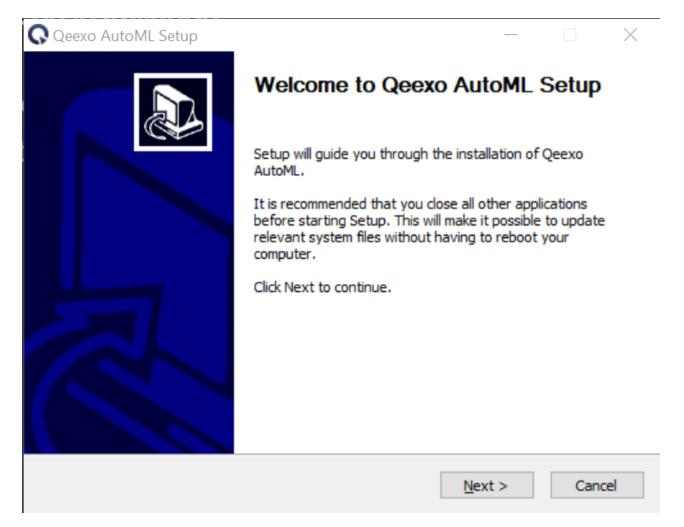
After registering and logging in on https://www.qeexo.com, please visit this <u>link</u> to download the Windows installer.



B. Frontend Installation

Once the installer is downloaded, double-clicking **QeexoAutoML-installer-Windows.exe** to install the frontend.

Then the welcome screen will be presented which begins the installation process:



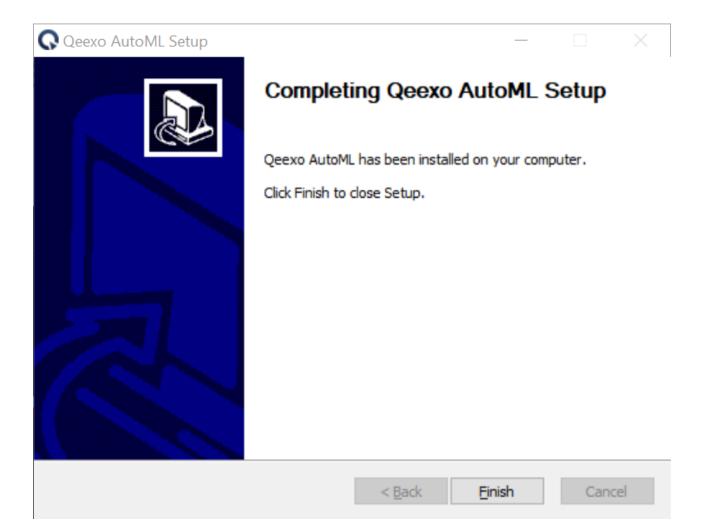
After clicking "Next" button, read and accept the agreement to continue installing.

Qeexo AutoML Setup —	\times
License Agreement Please review the license terms before installing Qeexo AutoML.	Q
Press Page Down to see the rest of the agreement.	
MASTER SUBSCRIPTION AGREEMENT THIS MASTER SUBSCRIPTION AGREEMENT GOVERNS CUSTOMER'S ACQUISITION AND USE OF QEEXO AUTO ML SERVICES. CAPITALIZED TERMS HAVE THE DEFINITIONS SET FORTH HEREIN. IF CUSTOMER REGISTERS FOR A FREE TRIAL OF QEEXO AUTOML SERVICES OR FOR FREE SERVICES, THE APPLICABLE PROVISIONS OF THIS AGREEMENT WILL ALSO GOVERN THAT FREE TRIAL OR THOSE FREE SERVICES. BY ACCEPTING THIS AGREEMENT, BY (1) CLICKING A BOX INDICATING ACCEPTANCE, (2) EXECUTING AN ORDER FORM THAT REFERENCES THIS AGREEMENT, OR (3) USING FREE SERVICES, CUSTOMER AGREES TO THE TERMS OF THIS AGREEMENT. IF THE INDIVIDUAL ACCEPTING THIS AGREEMENT IS ACCEPTING ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, SUCH INDIVIDUAL REPRESENTS THAT THEY HAVE THE	<
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Qeexo AutoML. Nullsoft Install System v3.06.1	
< <u>B</u> ack I <u>A</u> gree Can	cel

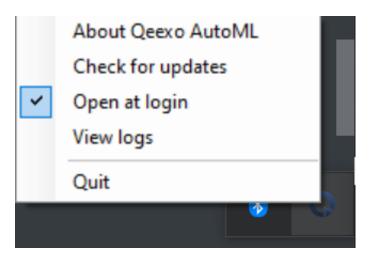
We recommend to leave the Destination Folder as default path. Click "Install" button to proceed.

🕟 Qeexo AutoML Setup	-		×
Choose Install Location			
Choose the folder in which to install Qeexo AutoML.			Q
Setup will install Qeexo AutoML in the following folder. To install in a dif Browse and select another folder. Click Install to start the installation.	ferent fol	der, dick	
Destination Folder C:\Program Files (x86)\Qeexo AutoML	Brov	vse]
Space required: 0.0 KB Space available: 98.1 GB			
Nullsoft Install System v3.06.1 < Back Inst	tall	Can	cel

After installation, click "Finish" to close Setup.



You should see Qeexo AutoML application running on the menu bar.



STEP 2: Setup STWINKT1B

A. Prepare Hardware

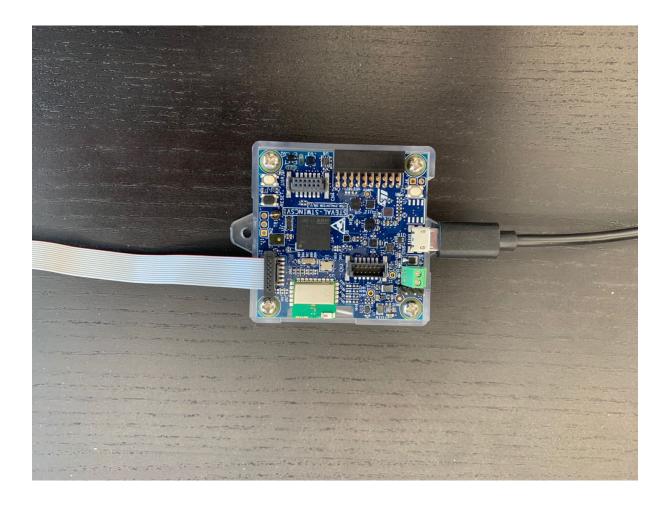
- 1. You should have received the STWIN Starter Kit with the following components:
 - STWINKT1B (A)
 - STLINK-V3MINI (B)
 - Programming cable(14-pin) (C)
 - Battery (D)
 - Blue Plastic case and four pairs of screws and nuts (E)



- 2. You will require an additional micro-USB cable to connect the STWINKT1B to your laptop.
- 3. Unbox the STWINKT1B. On the back of the board, plug in the battery cable. You should hear a small click as it snaps into place. (Connecting the battery is recommended but optional, as the STWINK1B can be powered via USB while connected to your client machine.)



- 4. Screw the STWINKT1B board onto the blue plastic case.
- 5. The final setup should look similar to this:



B. Install dfu-util

- 1. Navigate to this tools folder on sourceforge.net.
- 2. Download the latest binary archive. For instance, dfu-util-0.11-binaries.tar.xz
- 3. In order to extract the archive, please download <u>7-zip</u>. Choose 32 bit or 64 bit depneding on your Windows 10. Double click the 7-zip EXE file to install this utility on your computer.
- 4. In File Explorer, enter **%PROGRAMFILES%** in the address bar.
- 5. Right click, New \rightarrow Folder. Name it **dfu-util**.
- 6. Use 7-zip to uncompress the dfu-util binary that end with tar.xz.
- 7. Extract the **dfu-util-static.exe** file from the archive. Make sure the detaination folder is the newly created **dfu-util** folder.
- 8. Go back to File Explorer, and rename **dfu-util-static.exe** to **dfu-util.exe**. For Qeexo AutoML to work with this hardware, dfu-util must be named properly in the aforementioned folder.

C. Update USB Driver

- 1. Please visit this link to download Zadig.
- 2. Plugin STWIN board while holding down the USR button.

A red LED on STWINKT1B should blink when the device is connected to your laptop. This indicates the device is powered and in normal status.



- 1. Let Windows finish searching for drivers.
- 2. Start Zadig

Zadig	- 🗆 X
Device Options Help	
Driver WinUSB (v6. 1. 7600. 16385)	✓ Edit More Information WinUSB (libusb) libusb-win32 libusbK WinUSB (Microsoft)
0 devices found.	Zadig 2.5.730

3. Select "Options" -> "List All Devices"

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Device	Opt	ions Help				
	~	List All Devices	1			
STM3	~	Ignore Hubs or Composite Parents			~	Edit
Driver	× ×	Create a Catalog File Sign Catalog & Install Autogenerated Certificate	•		nformati (libusb)	ion
USB II		Advanced Mode		libusb-v		
WCID	-	Log Verbosity >]	<u>libusbK</u> <u>WinUSB</u>	(Microsof	t)
7 devices	four	ıd.		1	Zadig 2.5	.730

4. Select "STM32 BOOTLOADER" from the device dropdown

Zadig –	- 🗆 🗙
Device Options Help	
STM32 BOOTLOADER	✓ ☐ Edit
Synaptics WBDI USB Receiver (Interface 0) USB Receiver (Interface 1) STM32 BOOTLOADER 英特尔(R) 无线 Bluetooth(R)	ation
USB Receiver (Interface 2) Integrated Camera (Interface 0)	
WCID ¹ X	inUSB (Microsoft)
7 devices found.	Zadig 2.5.730

If "STM32 BOOTLOADER" is not available as a dropdown, ensure that the battery is disconnected from SensorTile.box and repeat step C.2. above (plugin USB cable while holding down "BOOT" button). If you need additional support, contact us by fillin in this <u>form</u>.

5. Select "WinUSB (v6.1.7600.16385)" as new driver

Zadig	- 🗆 ×
Device Options Help	
STM32 BOOTLOADER	∽ □Edit
Driver WinUSB (v6.1.7600.16385) USB ID 0483 DF11 WCID ² X WCID ²	More Information <u>WinUSB (libusb)</u> <u>libusb-win32</u> <u>libusbK</u> <u>WinUSB (Microsoft)</u>
7 devices found.	Zadig 2.5.730

6. Click "Replace Driver". After installation, You can see "The drive was installed successfully". Click "Close".

Zadig			
Device Option Driver Installation			
STM32 BOOT The driver was installed	ed successfully.		∽ □Edit
Driver WinU USB ID 0483		Close	nformation (libusb) in32
	Reinstall Driver	libusbK WinUSE	
Driver Installation: SUCCESS			Zadig 2.5.730

7. Please restart your laptop.

D. Connect Hardware

Note: This process is only necessary for first time set up.

- 1. Connect one end of the micro-USB cable to laptop first. DO NOT CONNECT the cable to STWINK1B yet.
- 2. Locate and hold the USR button on the STWINK1B.
- 3. While holding the USR button, connect STWINK1B to the other end of the micro-USB cable.

A red LED on STWINKT1B should blink when the device is connected to your laptop indicating the device is powered and in normal status. Your device is now ready to flash in Qeexo AutoML.

STEP 3: Run Qeexo AutoML

You should now have everything you need to run Qeexo AutoML.

Open your browser, navigate to <u>Qeexo AutoML</u>, and log in with the account you registered in "Step 1B Download Qeexo AutoML".

For help on using Qeexo AutoML, refer to the <u>QeexoAutoML User Guide</u>.

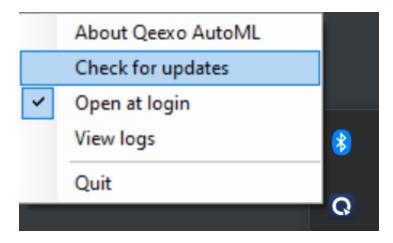
STEP 4: Update Qeexo AutoML

Qeexo may periodically release software updates to fix bugs, improve performance, or add features. There are a few ways to check for Qeexo AutoML updates:

 Automatically: The application will detect if there is an older version installed and will send a warning when you log in to Qeexo AutoML. When notified of new release, please refer to "STEP 1: Install Qeexo AutoML" (and skip section A, "Prerequisites") in this guide above.

Data	Models Data Collection				1	h (
Models									
Model History									
DATE	BUILD ID		HYPERPARAMETER OPTIMIZATION	INSTANCE LENGTH (MS)	CLASSIFICATION INTERVAL (MS)	BUILD STATUS	TRAINING DETAILS	DELETE	
			No training his	tory found					

1. **Manually**: You can also check if there is a newer version available by clicking on **Check for updates** under the Qeexo AutoML icon in the menu bar.



Click Install Update if a newer version is detected

2. Email notification: Qeexo team may send email to users about new software update.