

USER GUIDE

UG024 | Using the QSPICE Model Libraries

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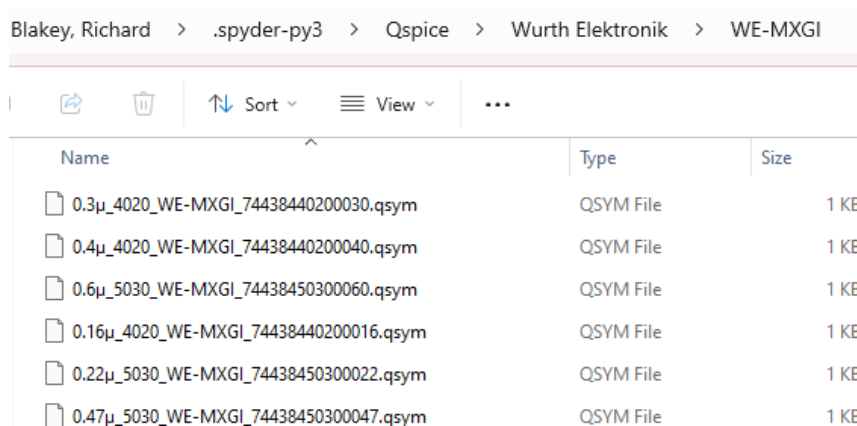
1. INTRODUCTION

For any new users of a tool, the basic functionalities must be learned before the tool can be put to use. For QSPICE, knowing how to correctly install and find the models is crucial. It is necessary to manually install QSPICE models in the software. Our QSPICE models consist of a symbol file (*.qsym). Our models are available in our GitHub repository, <https://github.com/WurthElektronik/QSPICE-Library.git>.

2. INSTALLING THE MODELS

2.1 To Install the Model

You can download some or all of the model folder libraries, or a single model from the GitHub repository, to a location of your choice on your computer.



Name	Type	Size
0.3μ_4020_WE-MXGI_74438440200030.qsym	QSYM File	1 KB
0.4μ_4020_WE-MXGI_74438440200040.qsym	QSYM File	1 KB
0.6μ_5030_WE-MXGI_74438450300060.qsym	QSYM File	1 KB
0.16μ_4020_WE-MXGI_74438440200016.qsym	QSYM File	1 KB
0.22μ_5030_WE-MXGI_74438450300022.qsym	QSYM File	1 KB
0.47μ_5030_WE-MXGI_74438450300047.qsym	QSYM File	1 KB

Figure 1: Save netlist files into a folder of your choice.

Now open QSPICE and simply drag the folder that contains the model library into QSPICE (see Figure 2).

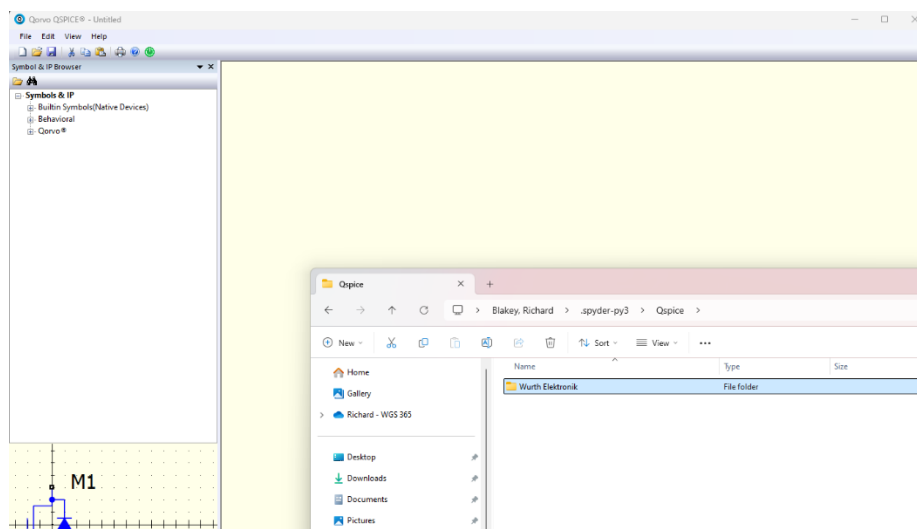


Figure 2: Dragging the folder into QSPICE.

After dragging the folder into QSPICE, you will see the folder, including any subfolder structure within this folder in the Symbol & IP Browser. Any additions, deletions or changes to the files or folder structure within this imported folder will be visible the next time QSPICE is opened (Figure 3).

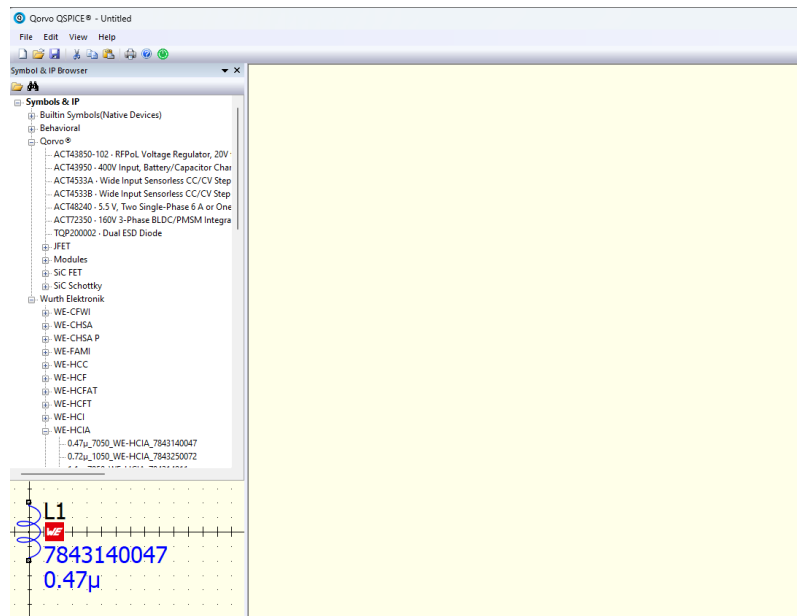


Figure 3: Part models are now available to use in QSPICE.

3. INSTALL FROM GITHUB REPOSITORY

3.1 Install GitHub Desktop

GitHub Desktop is the most user-friendly tool for working with GitHub projects, and we recommend you use it for keeping your library files up to date.

Go to <https://desktop.github.com/> to download the appropriate package for your operating system and install it on your computer.

During the Desktop installation, register or sign in with your GitHub Account and click next. On the opening GitHub Browser webpage authenticate yourself and give permission to the GitHub desktop application. Then the process jumps back to the Desktop tool/application.

3.2 Clone the Library

From GitHub Desktop, click the button Clone a repository from the Internet as shown in the following screen in Figure 4.

Let's get started!

Add a repository to GitHub Desktop to start collaborating

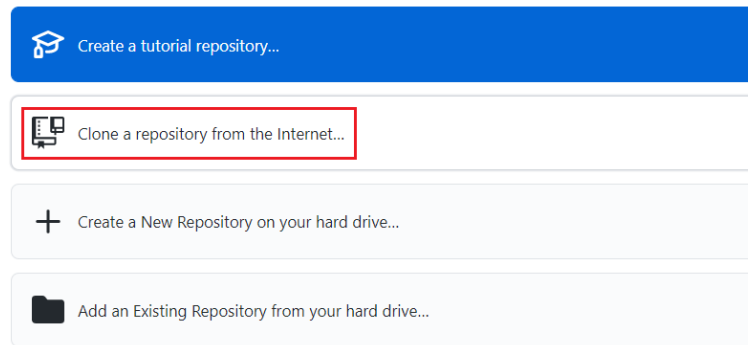


Figure 4: Clone a repository from the Internet.

Enter the URL of Würth Elektronik QSPICE Library repository <https://github.com/WurthElektronik/QSPICE-Library.git> and define the local directory to clone the repository.

Then click the **Clone** button, and all the files from the online repository will begin to synchronize into the local.

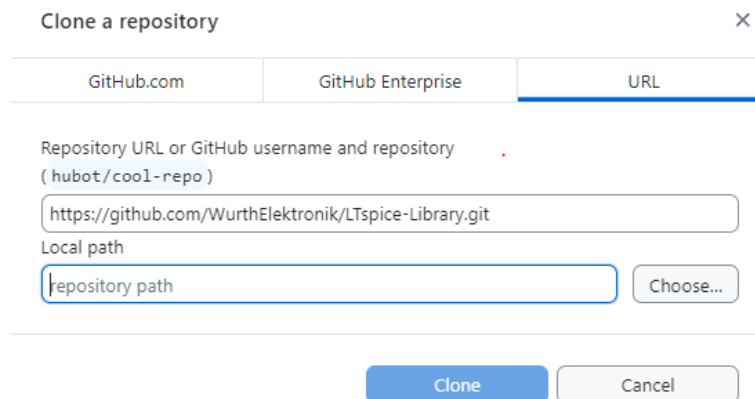


Figure 5: Clone Setup.

Cloning the repository will take some time.

Cloning LTspice-Library

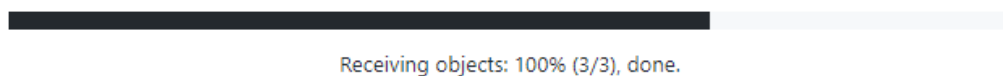


Figure 6: Clone in progress.

3.3 Synchronize Local Library from GitHub

If there are any updates in the GitHub repository, GitHub Desktop will detect it and you can “Pull” the update to your local. If there are any new commits on the online master repository, you’ll receive the update information automatically from GitHub Desktop.

Click **Pull origin** button to fetch the updates to the local folder immediately.

If there is an update in the GitHub repository, GitHub Desktop will detect it and you can “Pull” the update to your local. Once there are any new commits on the online master repository, you’ll receive the update information automatically from GitHub Desktop.

Click **Pull origin** button to fetch the updates to the local folder immediately.

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Pull 1 commit from the origin remote

The current branch (`main`) has a commit on GitHub that does not exist on your machine.

Always available in the toolbar when there are remote changes or `Ctrl` `Shift` `P`

Pull origin

View the files of your repository in Explorer

Repository menu or `Ctrl` `Shift` `F`

Show in Explorer

Open the repository page on GitHub in your browser

Repository menu or `Ctrl` `Shift` `G`

View on GitHub

Figure 7: Clone Setup.

Click **View on GitHub** to explore more details of the latest updates (Figure 8).

hywu-eisos Upload User Manual		ee32c61 · 1 minute ago	🕒 4 Commits
sub	create folder	14 minutes ago	
sym	create folder	14 minutes ago	
README.md	Create README.md	2 days ago	
User Manual - WE LTspice Library.pdf	Upload User Manual	1 minute ago	

Figure 8: View the updates on GitHub.

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