

Try Out the KS833A2A PathWave Event-Based Power Analysis Software for Free!

The enhanced software powering the X8712A IoT Device Battery Life Optimization Solution

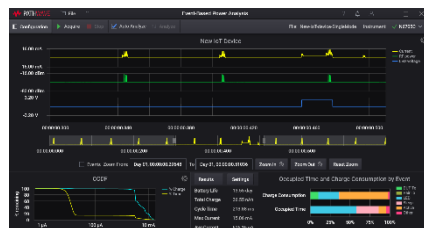
Introduction

The KS833A2A Event-based Power Analysis Software shows the RF power of your IoT device along with voltage and current measurements and maps this data to the current consumption in a single graph.

Its capabilities include:

- Automated correlation between RF or DC signals to power consumption in a single display
- Three types of waveform capture modes; single, triggered and continuous
- Individual event's post data analysis
 - Current consumption in percentage
 - Occupied time in percentage
- Battery life estimation
- CCDF statistical analysis
- User defined measurement duration time (for continuous mode only)
- Save and recall settings which includes instrument settings
- Export data points from UI and measurement results in .csv format

You can try out the KS833A2A event-based power analysis software free of charge for 30 days using a trial license and the readily available offline data files which come with the software package. The data is from an IoT sensor device. There are two data files; one from single mode and another simulates a 10-minute data scenario.



Using this pre-loaded data file, you can perform post measurement analysis without the X8712A hardware, where you can further analyze the current consumption by selecting a particular section you are interested in, make changes in battery capacity to see how it impacts battery life, and more!



Take advantage of the 30-day trial license, free of charge

See how the KS833A2A provides event-based power analysis to enable you to gain insights into RF and sub-circuit events, as well as insights into charge consumption for each event.



How to obtain and install the trial license

1. Download and install the KS833A2A software and its pre-requisites.

Go to www.keysight.com/find/KS833A2A to access the KS833A2A software page. Select the 'Trials & Licenses' tab and click on the 'Details and Download' button. You will now see the KS833A2A installer page as shown below.

KS833A2A PathWave Event-based Power Analysis Software

Current Version

Previous Versions

KS833A2A Install Wizard

Release Date	Version	Version Description
2021-01-06	2.0.8	KS833A2A PathWave Event-based Power Analysis Software Installer

How to Download

1. Click the 'Download' button
2. Run the installer

How to Install

1. Follow through the Keysight Install Wizard setup instructions
2. Check the 'Launch Keysight Install Wizard' box and click 'Finish' to launch the install wizard
3. Check the 'Keysight Event-based Power Analysis' and all the pre-requisite boxes, click 'Install' button and follow the instructions

Licensing

- Requires a License
- Request Free Trial License

Download

Installs on:
PC

Operating System

- Windows 10

Prerequisites

- Keysight IO Libraries Suite (18.1.24715)
- Keysight PathWave Desktop Edition 2020B (1.1.5)

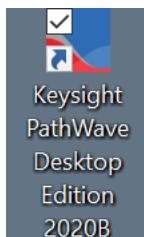
Supported Instruments

- X8712A

Free Trial Available

Figure 1. The KS833A2A software installer page

2. Click 'Download' and follow the instructions on the page to install the KS833A2A and its pre-requisites. You will need to come back to this page again to request for trial license, so do not close the browser of this page.
3. Upon the successful completion of the installation, go to your desktop and locate the Keysight PathWave Desktop Edition 2020B. Double click on it to launch PathWave.



4. In PathWave, click on 'Software'.

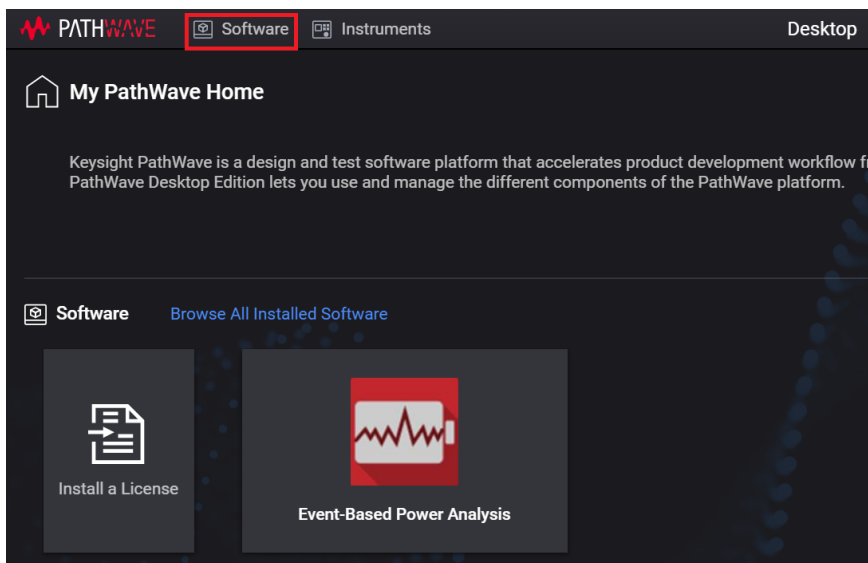
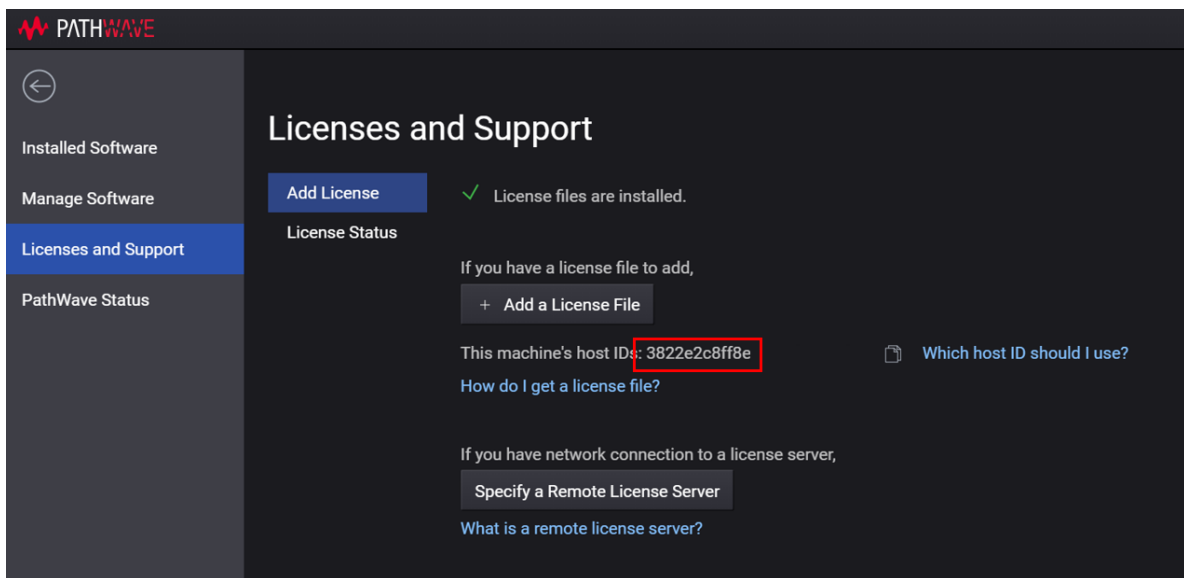


Figure 2. The Keysight PathWave Desktop Edition.

Next, click on 'Licenses and Support'. Locate your machine's host ID and click on the icon on its right to copy it.



5. Next, return to the KS833A2A installer page to request for a free trial license. Click on the 'Request Free Trial License' under 'Licensing'.

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• Windows 10

Prerequisites
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• Keysight PathWave Desktop Edition 2020B (1.1.5)

Supported Instruments
• X8712A

6. You will see this page. Paste your PC's Host ID to the box and follow the rest of the instructions to fill out the information required.



myKeysight

Keysight Software Manager : Request Free Trial License

1

2

3

Assign LicensesContact InformationReview and Submit

Assign licenses to hosts, then click Continue to proceed.

Select the host to assign licenses to

Enter new host information: ? How do I find my Host ID?

Computer/Instrument Ethernet Address :

Enter the computer/instrument's MAC address (12 hex characters)
Example:
123456abcdef

Select the licenses to assign

☒	Line Number	License	Version	Quantity Available	Quantity to Assign
☒		KS833A2A-TRL Event-Based Power Consumption Analysis software, 30 day trial license		1	1

Figure 3. Free trial license request page.

7. You will receive an email from Keysight with the trial license as an attachment. Save it to a temporary folder.
8. Go back to the PathWave Desktop Edition 2020B. Click on 'Software → Licenses and Support → Add a license file'. Locate your trial license and click on 'Apply'.

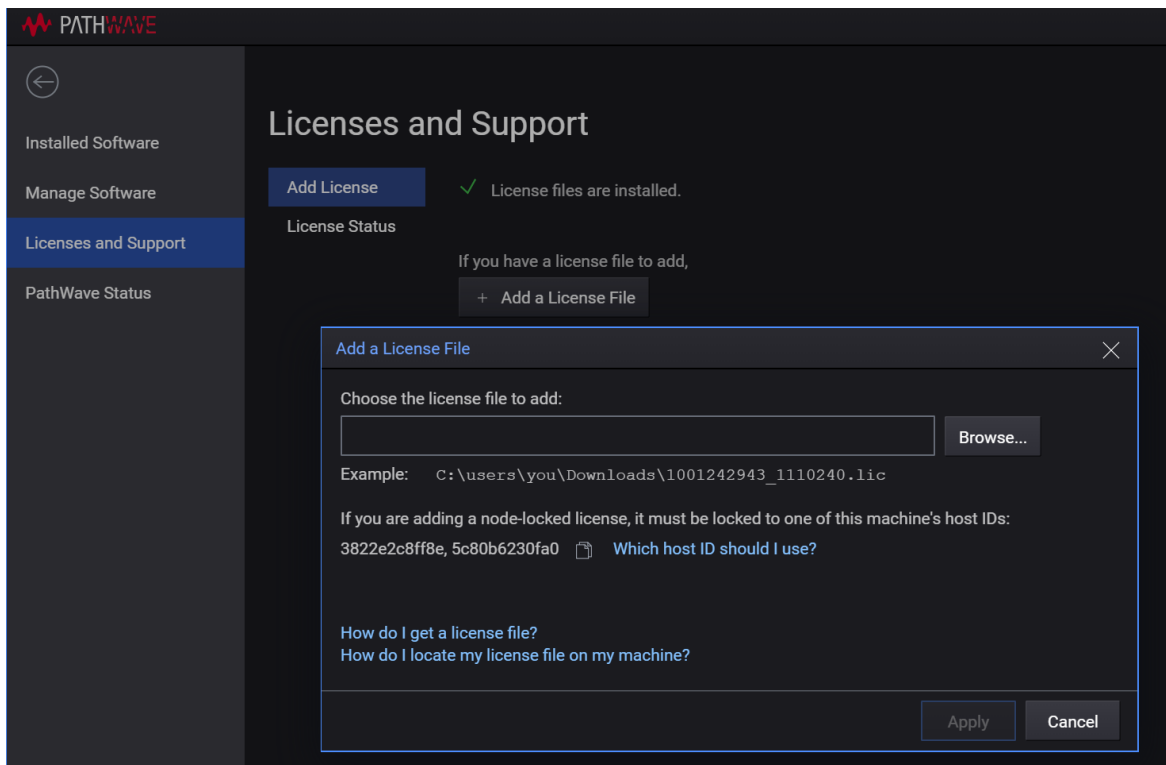
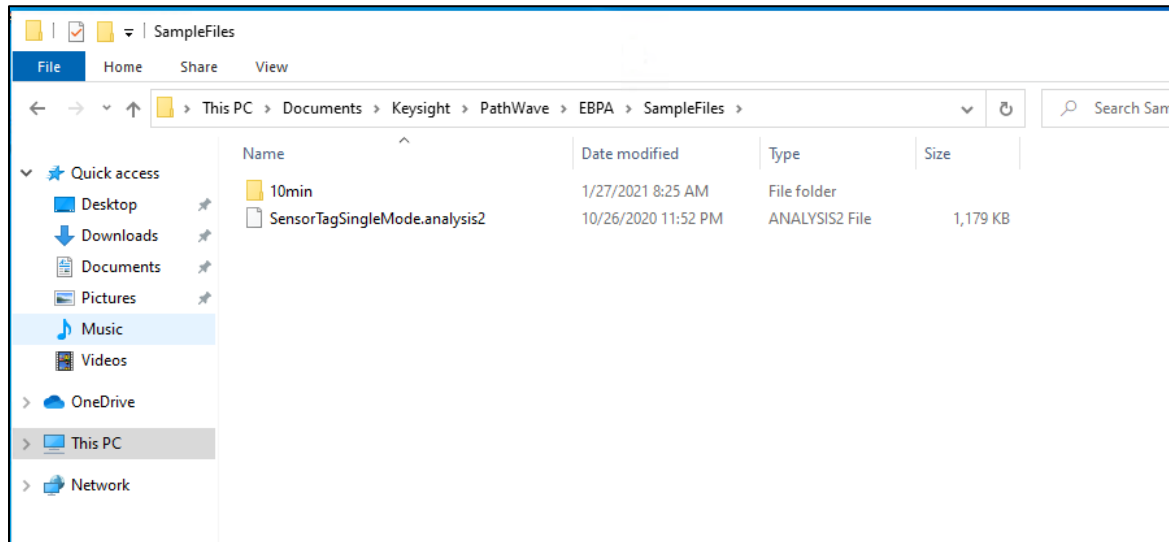


Figure 4. Install your trial license here in the PathWave Desktop Edition before use.

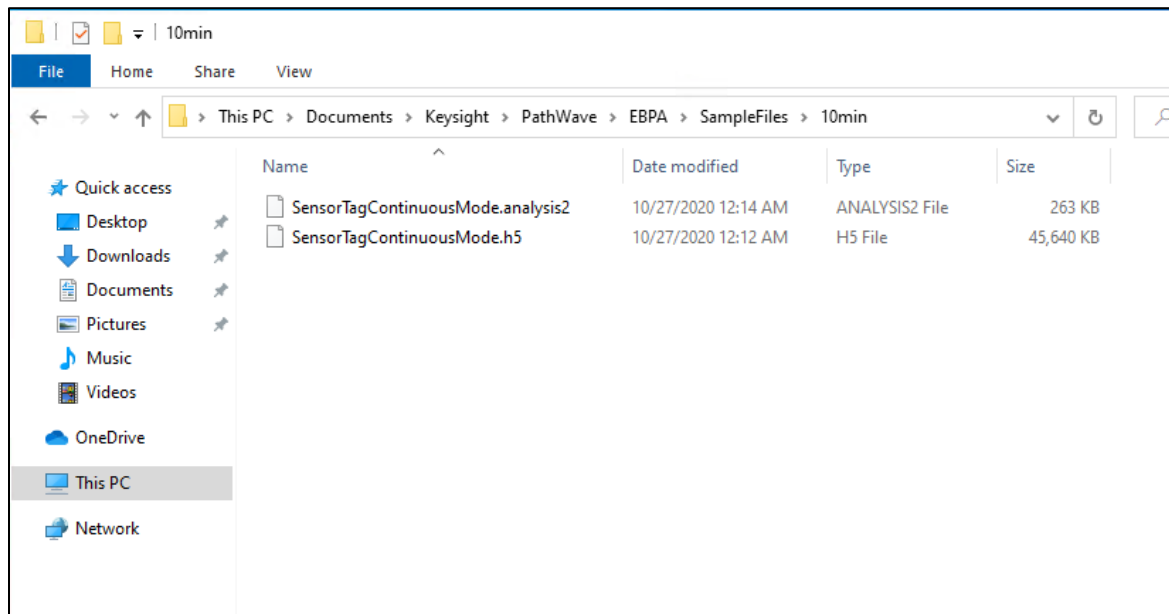
How to use the offline data files in the KS833A2A software

The offline data files will be available in your Documents\Keysight\PathWave\EBPA\SampleFiles directory.

There are two types of data files; the 'SensorTagSingleMode.analysis2' is to simulate data capture using the single mode.



The 'SensorTagContinuousMode.analysis2' represents a 10-minute waveform capture using the continuous mode.



1. From the PathWave Desktop Edition 2020B, you will see the (KS833A2A) Event-based Power Analysis software as shown below.

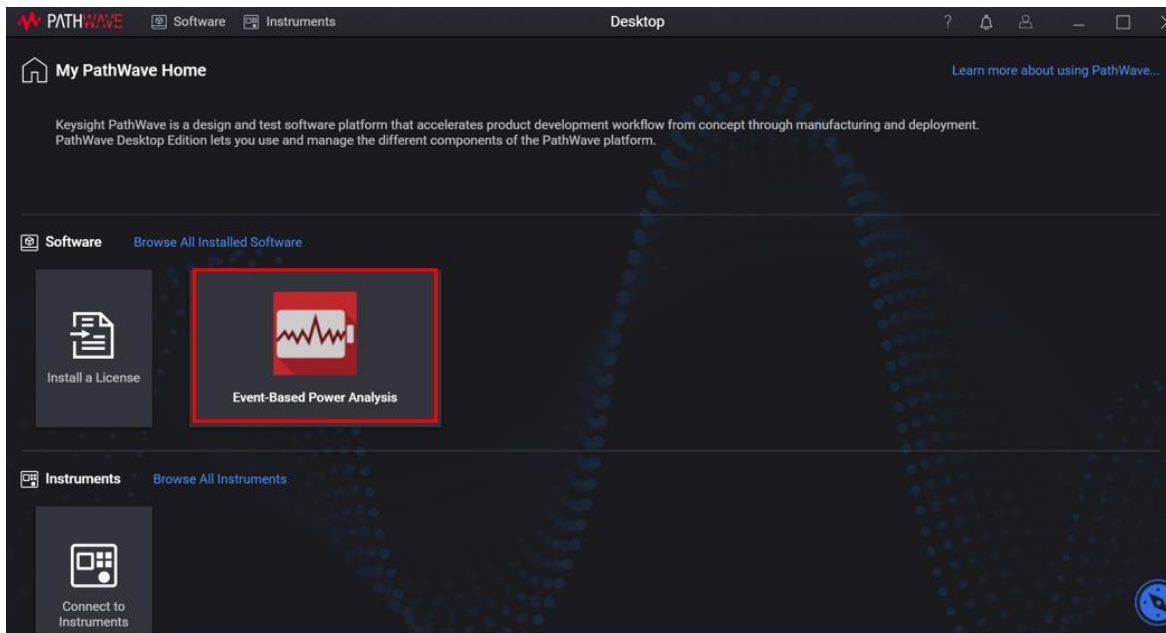


Figure 5: The PathWave Desktop Edition platform with the event-based power analysis software (KS833A2A)

2. Click on it to launch the software.
3. Go to 'File → Open' and load either the 'SensorTagSingleMode.analysis2' file or the 'SensorTagContinuousMode.analysis2' file.

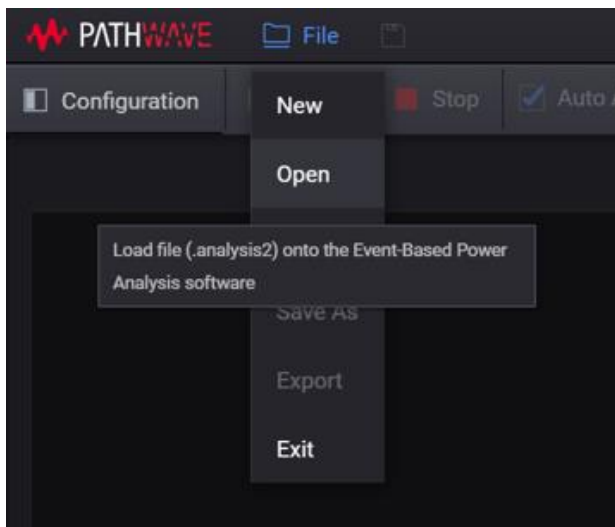




Figure 6. The offline data file is successfully uploaded.

For more information on the software, please refer to the help file, located at the '?' icon at the top of the software.

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

