RENESAS ISIM:PE V8.4

TOOL UPDATE

APRIL 2021

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ISIM BACKGROUND

- Renesas has offered simulation tools for its analog and power products for well over a decade.

- The simulation tools have included both online and offline aspects.

- iSim was Renesas' online simulation tool, where users could enter some basic input and output parameters for their circuit, and then create a schematic ready for simulation on the web. iSim also offered a download option, where a user could download their schematic for use in iSim:PE.

- iSim:PE is the offline aspect of Renesas' simulation tools. The program can be downloaded from the Renesas website.

- Renesas has discontinued the online presence of iSim.

- iSim:PE, the downloadable offline simulation tool will continue to be supported.

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iSIM:PE UPDATE

- A new version of iSim:PE is available for download. This new version continues to be based on the SIMetrix/SIMPLIS simulation suite. iSim:PE v8.4 can be downloaded here:
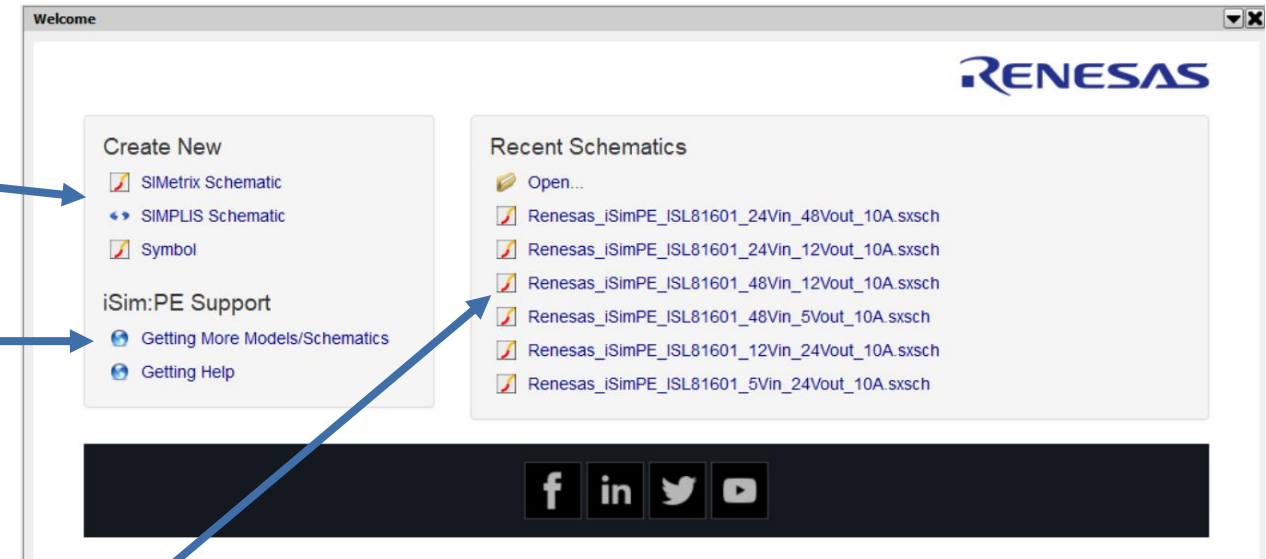
https://www.renesas.com/us/en/software-tool/isimpe-offline-simulation-tool

- The new version of iSim:PE is similar to the previous v8.2 version. The most notable differences are:

  - Welcome Page

  - Example schematics

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ISIM:PE NEW WELCOME PAGE

- The new Welcome page has quick links to allow you to start a new SIMetrix or SIMPLIS schematic, or access the Symbol library

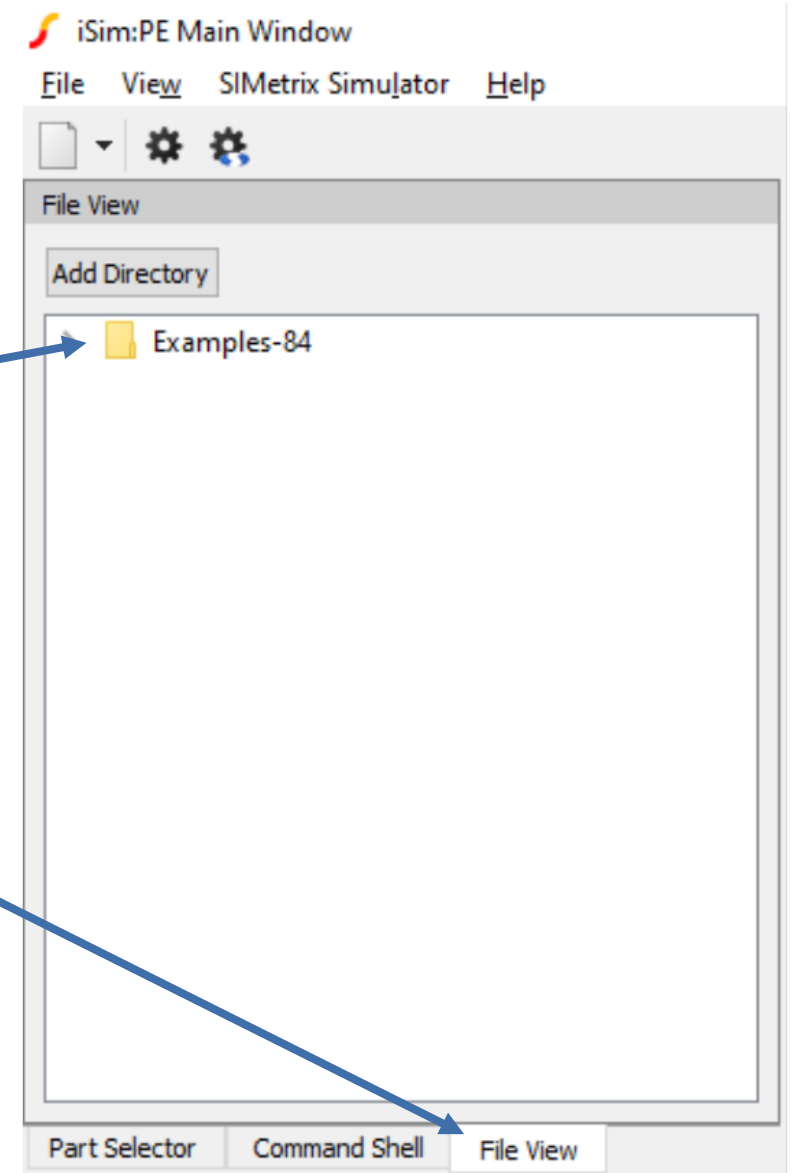- There are also links back to the iSim:PE webpage

- There is also a Recent Schematics link list, which gives you quick access to any schematics you have worked on recently

- We will be adding more content and tools to the Welcome page as we roll out future versions of iSim:PE.
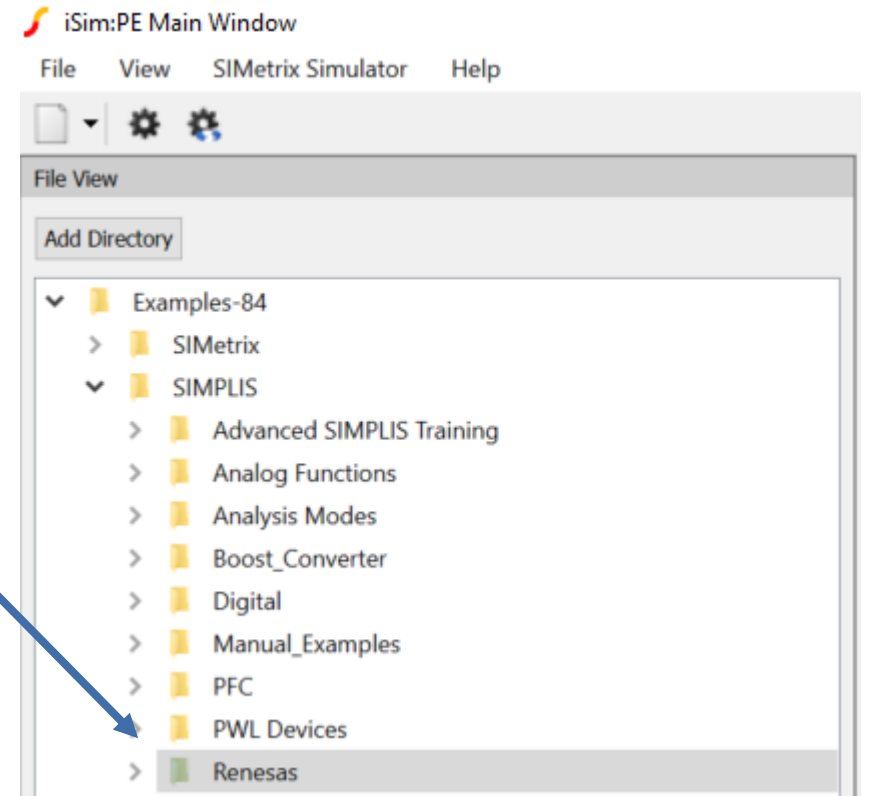
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ISIM:PE NEW EXAMPLE SCHEMATICS

- iSim:PE comes with over 100 example schematics. The example schematics folders are your best option to quickly get started with a simulation.

- The example schematics can be found in the Examples-84 folders in the File View window
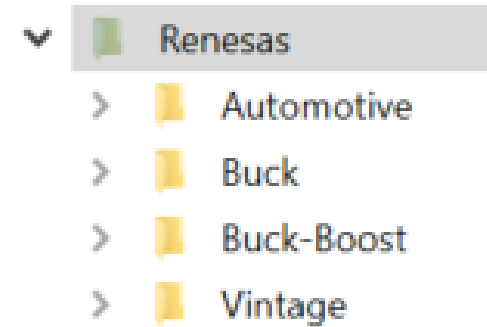
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ISIM:PE NEW EXAMPLE SCHEMATICS

- Expand the Examples-84 folder, and open it up to the Renesas folder

- Note that you can also access these files on your PC at C:\Users\<username>\Documents\iSim_PE\Examples-84\SIMPLIS\Renesas
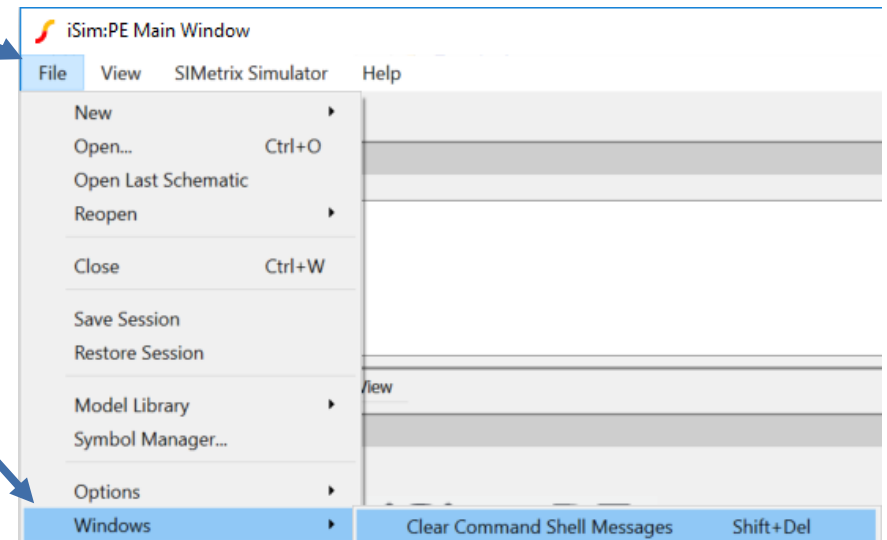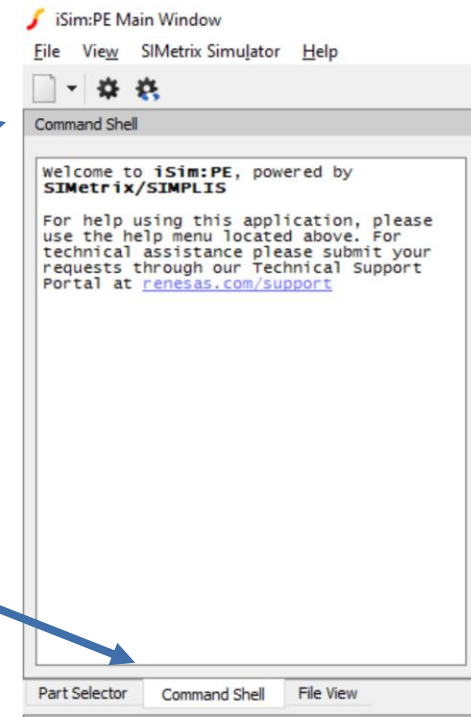
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ISIM:PE NEW EXAMPLE SCHEMATICS

- The Renesas folder opens up to 4 subfolders:

  - Automotive folder contains several example schematics of our Automotive focused controllers

  - Buck contains several recent buck controllers and regulators focused on the commercial and industrial markets

  - Buck-Boost contains controllers and regulators focused on the commercial and industrial markets, with several different input and output voltage examples

  - Vintage contains all of our more mature devices.

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ISIM:PE COMMAND SHELL

- iSim:PE's Command shell window is still available.

- It now shares a window with File View and Part Selector

- You can clear old messages from the Command Shell by using File-Windows-Clear Comand Shell Messages menu option (Shift – Del)

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ISIM:PE FINAL POINTS

- Old iSim schematics – if you have older schematics that you downloaded from iSim online, or you created schematics in older versions of iSim:PE, they will work in iSim:PE v8.4. Simply call them up from the File menu or double click on them in File Manager, or drag and drop them onto iSim:PE v8.4 to open them.

- Example schematics on Renesas website – we have posted links to iSim:PE example schematics on our website. If an example schematic exists, you will find a download link for it on the product landing page, in the Downloads area.

- Models in iSim – Renesas parts can also be found in the iSim:PE library (Place – From Model Library , then select *All Models*, then use Filter). However, the recommended approach is to use Example Schematics as was described earlier.

Documentation & Downloads

Title
Datasheets & Errata
HIP2210, HIP2211 Datasheet
User Guides & Manuals
HIP2211EVAL2Z User's Manual
HIP2211EVAL3Z User's Manual
Application Notes & White Papers
Five Easy Steps to Create a Multi-Load Power Solution
How Green is Your Cloud?
AN1116: CMOS Applications Information
Downloads
🔒 HIP2211 iSim:PE Model

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