

PathWave System Design (SystemVue) Configuration

More value, simple to choose, easy to configure

PATHWAVE

PathWave System Design Bundled Software

PathWave System Design software bundles provide system engineers with a choice of value-packed, pre-configured combinations of software built for specific system design challenges. These combinations provide up to three different simulation technologies: RF systems, communications/digital signal processing, and phased array analysis. There are also several add-on elements that add powerful features to the system design workflow as well as libraries that enable system-level design and verification for specific industry applications such as radar/EW and cellular communications.

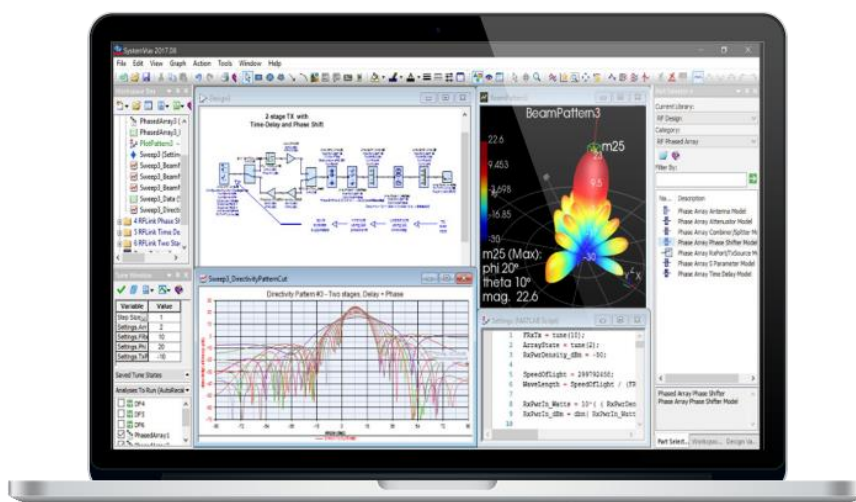
PathWave System Design bundles are comprised of the *W4800B PathWave System Design Core* environment and add separate PathWave System Design Simulation Elements, each of which provide specific design and simulation capabilities.

Simulation elements are themselves comprised of one or more separate modules, which add additional design and development functions. These modules, which were formerly sold separately, are now grouped together into very efficient and effective combinations.

Learn more about [PathWave System Design Simulation Elements](#)



Simpler all around, PathWave System design bundled software configurations with simplified licensing and support options make it easy to choose, download and setup your software.



Configure Your New Software

This step-by-step process will help you configure your new PathWave System Design software when making your initial order.

Step 1: Choose your software product

Base bundles

The W4800B PathWave System Design Core bundle is the foundation for all other PathWave System Design bundles. It contains the PathWave System Design user environment, data plotting, and MATLAB® code support. The remaining PathWave System Design bundles add powerful system simulators to the core environment.



Try before you buy!

Download PathWave System Design software and use it free for 30 days. Visit

www.keysight.com/find/system-design-evaluation

SD Core

W4800B

Model	Name	Description
W4800B	PathWave System Design Core	Base environment for PathWave System Design. Includes schematic entry, data plotting, and MATLAB code support
W4801B	PathWave System Design Core + RF	Adds the RF Analysis simulation element giving users access to the SPECTRASYS engine, WhatIF, linear simulation, and RF component model libraries
W4802B	PathWave System Design Core + Comms/DSP	A timed dataflow simulation engine to create communications and digital signal processing designs. Includes libraries of general DSP components, digital modulation, SerDes, MIMO, and legacy cellular standards
W4803B	PathWave System Design Core + RF + Comms/DSP	Combines both the RF and Comms/DSP analyses, allowing RF Link to connect timed dataflow analysis with accurate RF system models
W4804B	PathWave System Design Core + RF + Comms/DSP + Phased Array	Adds the advanced Phased Array Analysis simulator for both RF and Comms/DSP applications using beamforming
W4806B	PathWave System Design Algorithm Core	RF and Comms/DSP simulation engines for use by algorithm designers working in a MATLAB-centric environment. Does not include the PathWave System Design Core component
W4810B	PathWave System Design Core + AMI	Complete AMI model generation bundle. Includes the PathWave System Design Core, Comms/DSP simulator, AMI Modeling Kit, and C++ Code Generation Kit

MATLAB is a registered trademark of The MathWorks, Inc.

System design bundles

W4801B is built for RF system designers looking to replace their spreadsheet solutions with a true nonlinear RF system simulator. W4802B is for communications system and DSP developers looking for an algorithm and signal processing platform that can include realistic RF impairment modeling and powerful built-in communications libraries.

			Phased Array
		Comms/DSP	Comms/DSP
RF	Comms/DSP	RF	RF
SD Core	SD Core	SD Core	SD Core
W4801B	W4802B	W4803B	W4804B

Figure 1. PathWave System Design bundles.

Algorithm design bundle

Built for system designers working in alternative platforms such as MATLAB, the algorithm design bundle provides access to the simulation engines in PathWave System Design outside of the user environment. It is designed to enable system engineers to simulate designs and libraries from PathWave System Design from the host platform rather than from the PathWave System Design Core environment

Comms/DSP
RF
W4806B

Figure 2. PathWave System Design embedded algorithm design bundle.

High-speed digital bundle

For designers working in high-speed digital technologies, PathWave System Design offers a bundle containing all the required elements to create AMI models from schematics. Creates the C++ executable models for these systems for use in other platforms such as PathWave Advanced Design System (ADS).

C++ Code Gen
AMI Model
Comms/DSP
SD Core
W4810B

Figure 3. PathWave System Design high-speed digital bundle.

Step 2: Select desired license term

Table 1. License terms

License term	Description
Perpetual ¹	Perpetual licenses can be used indefinitely
Time-based	Time-based licenses can be used through the term of the license (6, 12, 24, or 36 months)

1. The purchase of EDA perpetual licenses will no longer be available beginning December 01, 2020. For more information, refer <https://www.keysight.com/find/eda-perpetual-license-letter>

Step 3: Select desired license type

Table 2. License types

License term	Description
Node-locked	License can be used on one specified instrument/computer
USB portable	License can be used on one instrument/computer at a time but can be transferred to another using a certified USB dongle (available for additional purchase, Keysight part number E8900-D10).
Floating	Networked instruments/computers can access a license from a server one at a time. Multiple licenses may be purchased for concurrent usage. Three types of floating license are available: N - Single site: 1-mile radius from the server; R - Single region²: Americas; Europe; Asia; W - Worldwide (export restriction identified in End User License Agreement (EULA))

2. Americas (North, Central, and South America, Canada); Europe (European Continent, Middle Eastern Europe, Africa, India); Asia (North and South Asia Pacific Countries, China, Taiwan, Japan).

Step 4: Choose your support subscription and duration

Table 3. KeysightCare software support subscription

Subscription	Description
KeysightCare support subscription	Perpetual licenses are sold with a 12 (default), 24, 36, or 60-month software support subscription. Support subscriptions can be renewed for a fee after that.
	Time-based licenses already include a software support subscription through the term of the license.

Floating License Server Requirements

The PathWave System Design floating license requires loading a vendor daemon on a license server. This server may be the same PC running the PathWave System Design software. Full installation instructions and support are provided for compatible server operating systems: Windows 7 Professional, Enterprise, Ultimate (64-bit); Microsoft Windows 8 Professional or Enterprise; or Microsoft Windows 10 Professional or Enterprise (64-bit).

Visit www.keysight.com/find/license-server

Resources

Learn more about:

- [PathWave Design Software](#)
- [Software Terms, Types and KeysightCare Software Support Subscriptions](#)



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