

PathWave Device Modeling (IC-CAP) Configuration

PATHWAVE

More value, simple to choose, easy to configure

PathWave Device Modeling Bundled Software

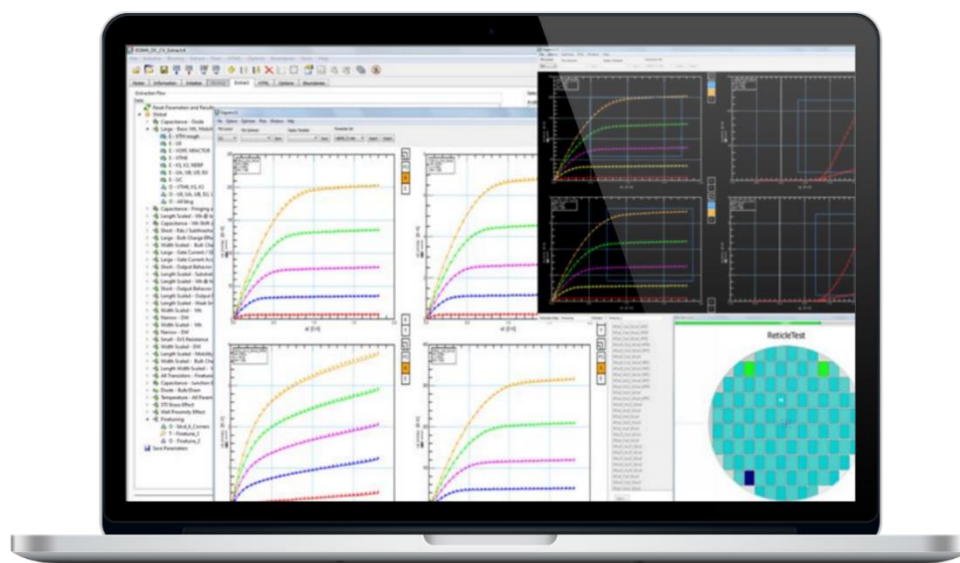
PathWave Device Modeling software bundles provide device modeling engineers with a choice of value-packed, pre-configured combinations of software built for specific device modeling design challenges. These combinations enable you to efficiently address your measurement and modeling needs.

PathWave Device Modeling and Measurement bundles are based on the *W7001E PathWave IC-CAP Core* and add separate PathWave Device Modeling or Measurement elements, each of which provide specific model extraction or measurement capabilities.

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



Simpler all around, PathWave Device Modeling 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 Device Modeling software when making your initial order.

Step 1: Choose your software product

Bundles

The *W7300B PathWave IC-CAP Device Modeling Platform* is our core bundle and allows users to run any custom model extraction or unlicensed extraction examples, including basic measurements. The *W7311B PathWave IC-CAP Wafer Professional Measurement* bundle supports wafer-level automated measurements and is designed for measurement only test benches. The *W7325B PathWave IC-CAP CMC GaN RF Modeling* adds the CMC GaN models extraction examples to the W7300B. The cross-platform *W6325B PathWave MBP/IC-CAP Device Model Extraction* is ideal for silicon users who plan to do baseband modeling with MBP and RF modeling with IC-CAP. Another cross-platform *W6347B PathWave MQA/IC-CAP Modeling Bundle* is suitable for the users who want to do RF model extraction with IC-CAP and RF model QA with MQA.



Try before you buy!

Download PathWave Device Modeling software and use it free for 30 days. Visit www.keysight.com/find/device-modeling-evaluation

Device Modeling (IC-CAP) Bundles

Model	Name	Description
W7300B	PathWave IC-CAP Device Modeling Platform	Includes the software environment, all measurement drivers, optimization, the Python/PEL programming environment and simulation links. The legacy W8503EP DataPro is also included in this bundle.
W7311B	PathWave IC-CAP Wafer Professional Measurement	IC-CAP WaferPro for automated wafer-level measurement. All measurement drivers are included. Python/PEL programming enables custom measurement algorithms and drivers. Does not include simulation.
W7325B	PathWave IC-CAP CMC GaN RF Modeling	Includes the W7300B and the GaN RF modeling extraction examples for the ASM-HEMT, MVSG and Angelov-GaN models.
W6325B	PathWave MBP/IC-CAP Device Model Extraction	Includes the IC-CAP Core Environment and Analysis elements and W6300B PathWave MBP core bundle.
W6347B	PathWave MQA/IC-CAP Modeling Bundle	Includes the IC-CAP Core Environment and Analysis elements and W6800B PathWave MQA core bundle.
W7398B	PathWave Power Electronics Model Generator	Enables simulations and modeling of Keysight IGBT and SiC models as well as the CMC standard model, ASM-HEMT for PE applications.

Model Builder (MBP) Bundle

Model	Name	Description
W6300B	PathWave Model Builder core bundle	PathWave Model Builder (MBP) core environment

Model QA (MQA) Bundle

Model	Name	Description
W6800B	PathWave Model QA core bundle	PathWave Model QA (MQA) core environment

Environment/Simulation Elements

Model	Name	Description
W7001E	PathWave IC-CAP Core Environment	Core, data display and PEL/Python Programming.
W7010E	PathWave IC-CAP Simulation and Analysis	Enable optimization, tuning and simulation with PathWave ADS (10-pack parallel simulations included) and all other supported simulators. Note that most commercial simulators require a license.
W7014E	PathWave IC-CAP Wafer Professional (WaferPro) Add-on	Adds IC-CAP WaferPro for automated wafer-level measurement. Requires W7015 Instrument Connectivity.
W7015E	PathWave IC-CAP Instrument Connectivity	Enables all supported instrument drivers.

GaN Model Element

Model	Name	Description
W7324B	PathWave IC-CAP CMC GaN RF Modeling Add-on	GaN RF modeling extraction examples for the ASM-HEMT and the MVSG models.

FET Model Elements

Model	Name	Description
W7012E	PathWave IC-CAP FET Plus Extraction Package	Modeling extraction flow examples for EEHEMT, EEFET, Curtice, Root FET/Diode/MOS and Angelov-GaN
W7013E	PathWave IC-CAP GaN Model Extraction Package Plus	GaN RF modeling extraction examples for ASM-HEMT, MVSG and Angelov-GaN models
W7019E	PathWave IC-CAP NeuroFET Extraction Package	Keysight Artificial Neural Network based model, NeuroFET Extraction Package for GaAs devices
W7020E	PathWave IC-CAP DynaFET Model Generation	Keysight Artificial Neural Network based model, DynaFET Extraction Package for GaN RF devices

BJT Model Element

Model	Name	Description
W7011E	PathWave IC-CAP BJT Plus Extraction Package Plus	Keysight HBT, VBIC, Gummel-Poon and MEXTRAM models

MOS Model Elements

Model	Name	Description
W7021E	PathWave IC-CAP PSP Model Extraction Package	Includes PSP Model Extraction Package, Target and Corner modeling packages
W7022E	PathWave IC-CAP HiSIM Model Extraction Package	Includes HiSIM Model Extraction Package, Target and Corner modeling packages
W7023E	PathWave IC-CAP BSIMSOI Model Extraction Package	Includes BSIMSOI Model Extraction Package, Target and Corner modeling packages
W7024E	PathWave IC-CAP BSIM3 Model Extraction Package	Includes BSIM3 Model Extraction Package, Target and Corner modeling packages
W7025E	PathWave IC-CAP BSIM4 Model Extraction Package	Includes BSIM4 Model Extraction Package, Target and Corner modeling packages
W7026E	PathWave IC-CAP HiSIM_HV Model Extraction Package	Includes HiSIM_HV Model Extraction Package, Target and Corner modeling packages

Power Electronics Elements

Model	Name	Description
W7016E	PathWave IC-CAP Power Electronics PowerMOS SiC Extraction Package Add-on	Keysight PowerMOS SiC model for SiC and Si power devices for power electronics applications
W7017E	PathWave IC-CAP Power Electronics IGBT Extraction Package Add-on	Keysight IGBT model for power electronics applications
W7018E	PathWave IC-CAP Power Electronics GaN Extraction Package Add-on	ASM-HEMT model for power electronics applications

Step 2: Select desired license term

Table 1. License terms

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

1. The purchase of EDA perpetual licenses is no longer available. For more information, refer to <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 region ²: 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.
	Subscription licenses already include a software support subscription through the term of the license.

Floating License Server Requirements

The PathWave Device Modeling floating license requires loading a vendor daemon on a license server. This server may be the same PC running the PathWave Device Modeling 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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