

Device Modeling MBP Configuration

More Value, Simple to Choose, Easy to Configure

Device Modeling MBP Software

Device Modeling MBP software provides device modeling engineers with a choice of value-packed, pre-configured combinations of software built for specific device modeling challenges. These combinations enable you to run SPICE simulation, extract model parameters, and generate a model library.

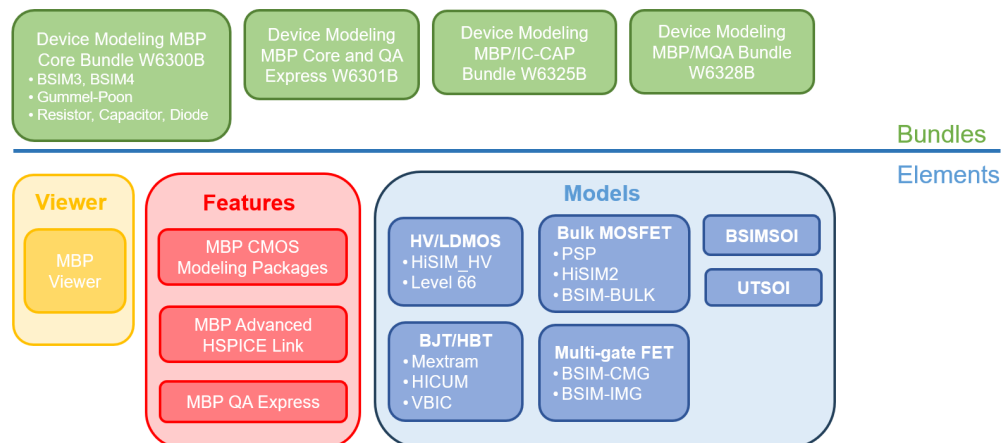
Device Modeling MBP software is based on the W6300B Device Modeling MBP core bundle. The separate Device Modeling MBP elements can be added, each of which provides specific modeling capabilities.

Device Modeling MBP elements comprise one or more separate modules, which add additional modeling functions. These modules, which were formerly sold separately, are now grouped into very efficient and effective combinations.



Configure Your New Software

Device Modeling MBP provides various bundles and elements to help engineers improve the modeling procedure based on different technologies. The bundles provide the core environment and essential functions needed to start model extraction. Bundles with other device modeling software are also available. The elements provide advanced modeling functionalities and various model extraction packages.



This step-by-step process will help you configure your new Device Modeling MBP software when making your initial order.

Step 1: Choose Your Software Product

Base bundle

The W6300B Device Modeling MBP core bundle is the foundation for all other Device Modeling MBP elements. It contains the Device Modeling MBP user environment.

Bundles

Model	Name	Description
W6300B	Device Modeling MBP core bundle	Includes Device Modeling MBP core environment
W6301B	Device Modeling MBP core and QA Express	Includes Device Modeling MBP core environment and QA Express
W6325B	Device Modeling MBP/IC-CAP modeling bundle	Includes Device Modeling MBP core environment and Device Modeling IC-CAP core environment, simulation and analysis module
W6328B	Device Modeling MBP/MQA modeling bundle	Includes Device Modeling MBP core environment and Device Modeling MQA core environment
W6329B	Device Modeling MBP core, QA Express and machine learning toolkit	Includes Device Modeling MBP core environment, QA Express and the machine learning toolkit

Elements

Model	Name	Description
W6011E	Device Modeling MBP Bulk MOSFET	Model extraction packages for PSP, HiSIM2 and BSIM-BULK
W6012E	Device Modeling MBP BJT/HBT	Model extraction packages for Mextram, HICUM and VBIC
W6013E	Device Modeling MBP HV/LDMOS	Model extraction packages for HiSIM_HV and Level 66 HVMOS
W6014E	Device Modeling MBP Multi-gate FET	Model extraction packages for BSIM-CMG and BSIM-IMG
W6015E	Device Modeling MBP BSIMSOI Model Generation	Model extraction package for BSIM-SOI
W6016E	Device Modeling MBP UTSOI Model Generation	Model extraction package for UTSOI
W6017E	Device Modeling MBP Viewer	A graphical user interface that enables you to view model fitting results and generate reports
W6018E	Device Modeling MBP Silicon Model Extraction Package	Model extraction packages for PSP, BSIM-SOI, HiSIM2, HiSIM_HV, HICUM, VBIC and Mextram
W6019E	Device Modeling MBP CMOS Modeling Package	Model extraction packages for Verilog-A, reliability, statistical, SRAM cell and re-centering
W6021E	Device Modeling MBP Advanced HSPICE Link	Enable a new and exclusive HSPICE link method, the new HSPICE link offers a much faster simulation speed and easier configuration
W6022E	Device Modeling MBP QA Express	Include an independent Add-on QA express to MBP, offer a one-click model qualification function during model parameter tuning
W6023E	Device Modeling MBP Machine Learning Toolkit	Include the machine learning optimizer and the extraction flow examples

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 Type	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. Four types of floating licenses are available: N – Single site : 1-mile radius from the server; Q – Telecommuter : A time-zone in Americas; a country in Europe/Asia; 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 Device Modeling MBP floating license requires loading a vendor daemon on a license server. This server may be the same PC running the Device Modeling MBP software. Full installation instructions and support are provided for compatible server operating systems: Windows 10/11 Enterprise (64-bit), RedHat Linux RHEL7 (64-bit), and RedHat Linux RHEL8 (64-bit).

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

Resources

Learn more about:

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