

System Requirements & Platform Availability by Product for R2018a

View general [system requirements](#).

Product	System Requirements	Windows (64 bit)	Mac (64 bit)	Linux (64 bit)
Aerospace Blockset	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Aerospace Toolbox - Control System Toolbox recommended 	✓	✓	✓
Aerospace Toolbox	<ul style="list-style-type: none"> - Requires MATLAB 	✓	✓	✓
Antenna Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - RF Toolbox recommended - Phased Array System Toolbox recommended 	✓	✓	✓
Audio System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires DSP System Toolbox - Requires Signal Processing Toolbox - Simulink recommended - Simulink Coder recommended - MATLAB Coder recommended - Simulink Real-Time recommended - Simulink required to use block library 	✓	✓	✓
Automated Driving System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Computer Vision System Toolbox - Requires Image Processing Toolbox - The <code>vehicleDetectorFasterRCNN</code> class requires Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. - Statistics and Machine Learning Toolbox recommended - Simulink recommended - Neural Network Toolbox recommended - Parallel Computing Toolbox recommended 	✓	✓	✓
Bioinformatics Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Statistics and Machine Learning Toolbox - On Red Hat Enterprise Linux 6.x and SUSE Linux Enterprise Desktop 11.x, use LIBZ version 1.2.3.3 or higher 	✓	✓	✓

Product	System Requirements	Windows (64 bit)	Mac (64 bit)	Linux (64 bit)
Communications System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Requires DSP System Toolbox - Fixed-Point Designer recommended - Simulink Coder recommended - Simulink recommended - RF Toolbox recommended - RF Blockset recommended - Parallel Computing Toolbox recommended - MATLAB Coder recommended - LTE System Toolbox recommended - WLAN System Toolbox recommended - HDL Coder recommended 	✔	✔	✔
Computer Vision System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Image Processing Toolbox - Signal Processing Toolbox recommended - Simulink recommended - DSP System Toolbox recommended - Fixed-Point Designer recommended - Image Acquisition Toolbox recommended - Simulink Coder recommended - MATLAB Coder recommended - Simulink required to use block library - Statistics and Machine Learning Toolbox recommended - Parallel Computing Toolbox recommended - Neural Network Toolbox recommended - The <code>trainImageCategoryClassifier</code> function and <code>imageCategoryClassifier</code> class require Statistics and Machine Learning Toolbox. - The <code>trainRCNNObjectDetector</code> function requires Neural Network Toolbox and Statistics and Machine Learning Toolbox. Parallel Computing Toolbox is required for GPU support. - The <code>trainFastRCNNObjectDetector</code> function requires Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. - The <code>trainFasterRCNNObjectDetector</code> function requires Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. - The <code>rcnnObjectDetector</code> class requires Neural Network Toolbox and Statistics and Machine Learning Toolbox. Parallel Computing Toolbox is required for GPU support. - The <code>fastRCNNObjectDetector</code> class requires Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. - The <code>fasterRCNNObjectDetector</code> class requires Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. - Functions for semantic segmentation (<code>semanticseg</code>, <code>segnetLayers</code>, <code>fcnLayers</code>, <code>pixelClassificationLayer</code>, <code>crop2dLayer</code>) require Neural Network Toolbox. Parallel Computing Toolbox is required for GPU support. 	✔	✔	✔

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Control System Toolbox	- Requires MATLAB	✓	✓	✓
Curve Fitting Toolbox	- Requires MATLAB - Statistics and Machine Learning Toolbox recommended	✓	✓	✓
Data Acquisition Toolbox	- Requires MATLAB - Requires a supported data acquisition hardware device and its associated driver software	✓		
Database Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Your system must have access to an installed database. Database Toolbox supports importing and exporting data from any ODBC- and JDBC-compliant database management system, including: <ul style="list-style-type: none"> - IBM DB2 - IBM Informix - Ingres - Microsoft Access - Microsoft Excel - Microsoft SQL Server - MySQL - Oracle - PostgreSQL - Sybase SQL Server - Sybase SQL Anywhere - Database Toolbox requires a database driver. You typically install a driver when you install a database. For instructions about how to install a database driver, consult your database administrator. - On Windows platforms, Database Toolbox supports Open Database Connectivity (ODBC) drivers and Java Database Connectivity (JDBC) drivers. On UNIX platforms, Database Toolbox supports JDBC drivers. See product documentation for more details. - Database Toolbox supports American National Standards Institute (ANSI) standard SQL commands. 	✓	✓	✓

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Datafeed Toolbox	<ul style="list-style-type: none"> - Requires MATLAB Datafeeds available only on Windows from: <ul style="list-style-type: none"> - Bloomberg - Haver Analytics - IQFeed 	✓	✓	✓
DO Qualification Kit	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink Report Generator (to execute tests for Simulink Check tool qualification) 	✓	✓	✓
DSP System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Simulink recommended - Fixed-Point Designer recommended - Communications System Toolbox recommended - Simulink Coder recommended - MATLAB Coder recommended - Simulink required to use block library 	✓	✓	✓
Econometrics Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Statistics and Machine Learning Toolbox - Requires Optimization Toolbox 	✓	✓	✓
Embedded Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires MATLAB Coder - Requires Simulink for generating code from Simulink - Requires Simulink Coder for generating code from Simulink - Requires Fixed-Point Designer for generating fixed-point code - Requires host platform C compiler. See list of supported host compilers. - Requires cross-compiler for the target processor if the code will execute on a platform different from the host. 	✓	✓	✓
Filter Design HDL Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Requires Fixed-Point Designer - Requires DSP System Toolbox - HDL Coder recommended - HDL Verifier recommended 	✓	✓	✓
Financial Instruments Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Financial Toolbox - Requires Statistics and Machine Learning Toolbox - Requires Optimization Toolbox - The <code>fitsmoothingspline</code> function requires Curve Fitting Toolbox - Econometrics Toolbox recommended - Datafeed Toolbox recommended - Curve Fitting Toolbox recommended - Global Optimization Toolbox recommended - Database Toolbox recommended 	✓	✓	✓

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Financial Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Statistics and Machine Learning Toolbox - Requires Optimization Toolbox 	✓	✓	✓
Fixed-Point Designer	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink for fixed-point design in Simulink 	✓	✓	✓
Fuzzy Logic Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink for using toolbox blocks 	✓	✓	✓
Global Optimization Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Optimization Toolbox - Parallel Computing Toolbox recommended 	✓	✓	✓
GPU Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires MATLAB Coder - Requires Parallel Computing Toolbox - Embedded Coder recommended - Requires Neural Network Toolbox to generate code from deep learning networks - Requires host platform C compiler. See list of supported host compilers. <p>Requirements for GPU Computing</p> <ul style="list-style-type: none"> - CUDA-enabled NVIDIA GPU with compute capability 3.2 or higher - CUDA toolkit 8.0 and driver (get latest toolkit) <p>Requirements for executing deep learning examples</p> <ul style="list-style-type: none"> - cuDNN 5.1 and newer (get latest library) - OpenCV 2.4.9 and newer (get latest library) 	✓		✓
HDL Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires Fixed-Point Designer - Requires MATLAB Coder - Simulink recommended - Signal Processing Toolbox recommended - DSP System Toolbox recommended - HDL Verifier recommended 	✓	✓	✓
HDL Verifier	<ul style="list-style-type: none"> - Requires MATLAB - Simulink recommended - Fixed-Point Designer recommended - MATLAB Coder required for DPI component generation 	✓		✓
IEC Certification Kit	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink Report Generator (to execute tests for Simulink Check tool qualification) 	✓	✓	✓
Image Acquisition Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Image Processing Toolbox - Computer Vision System Toolbox recommended 	✓	✓	✓

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Image Processing Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Signal Processing Toolbox recommended - Statistics and Machine Learning Toolbox recommended - Computer Vision System Toolbox recommended - Wavelet Toolbox recommended - Image Acquisition Toolbox recommended - Mapping Toolbox recommended 	✓	✓	✓
Instrument Control Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - For VISA and GPIB support, availability and installation of third-party platform-specific GPIB and VISA libraries are required 	✓	✓	✓
LTE HDL Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Communications System Toolbox - Requires Signal Processing Toolbox - Requires DSP System Toolbox - Requires Fixed-Point Designer - LTE System Toolbox recommended - HDL Coder recommended - HDL Verifier recommended 	✓	✓	✓
LTE System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Requires DSP System Toolbox - Requires Communications System Toolbox - Instrument Control Toolbox recommended - Parallel Computing Toolbox recommended - HDL Coder recommended - RF Blockset recommended 	✓	✓	✓
Mapping Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Statistics and Machine Learning Toolbox recommended - Image Processing Toolbox recommended 	✓	✓	✓
MATLAB	- Prerequisite for all other products	✓	✓	✓
MATLAB Coder	<ul style="list-style-type: none"> - Requires MATLAB - Simulink Coder recommended - Embedded Coder recommended - Requires Fixed-Point Designer for generating fixed-point code - Requires host platform C compiler. See list of supported host compilers. - Requires cross compiler for the target processor if the code will execute on a platform different from the host 	✓	✓	✓
MATLAB Compiler	- Requires MATLAB	✓	✓	✓
MATLAB Compiler SDK	<ul style="list-style-type: none"> - Requires MATLAB - Requires MATLAB Compiler - Creating libraries and components that will be integrated with other programming languages requires a compiler for those languages. See list of supported compilers. 	✓	✓	✓

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MATLAB Distributed Computing Server	<ul style="list-style-type: none"> - Requires Parallel Computing Toolbox on user desktop; MATLAB Distributed Computing Server is installed on cluster computers. - See additional system requirements 	✓	✓	✓
MATLAB Production Server	<ul style="list-style-type: none"> - Does not require MATLAB or Simulink - See additional system requirements. 	✓	✓	✓
MATLAB Report Generator	<ul style="list-style-type: none"> - Requires MATLAB 	✓	✓	✓
Model Predictive Control Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Control System Toolbox - Requires Simulink for using toolbox blocks - Simulink Control Design recommended 	✓	✓	✓
Model-Based Calibration Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Optimization Toolbox - Requires Statistics and Machine Learning Toolbox - Requires Symbolic Math Toolbox - Neural Network Toolbox recommended - Parallel Computing Toolbox recommended - Global Optimization Toolbox recommended 	✓		
Neural Network Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Simulink recommended - Parallel Computing Toolbox recommended 	✓	✓	✓
OPC Toolbox	<ul style="list-style-type: none"> - Requires MATLAB 	✓		
Optimization Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Parallel Computing Toolbox recommended 	✓	✓	✓

Parallel Computing Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - MATLAB Distributed Computing Server is required for running computations on remote machines. - Requirements for Parallel Computing on the Desktop (using local workers available with Parallel Computing Toolbox) <ul style="list-style-type: none"> - Maximum of 1 MATLAB worker per CPU core is recommended. - Minimum of 1 GB RAM per MATLAB worker is recommended while running workers locally on the desktop. A worker consumes memory equivalent to a MATLAB session running without the MATLAB desktop. - Minimum of 5 GB of disk space is recommended to accommodate temporary data directories. - Requirements for GPU Computing <ul style="list-style-type: none"> - CUDA-enabled NVIDIA GPU with compute capability 2.0 or higher. For releases 14a and earlier, compute capability 1.3 is sufficient. In a future release, support for GPU devices of compute capability 2.x will be removed. At that time, a minimum compute capability of 3.0 will be required. (Is my GPU supported?) - Latest graphics driver (Get the latest driver.) 	✔	✔	✔
Partial Differential Equation Toolbox	<ul style="list-style-type: none"> - Requires MATLAB 	✔	✔	✔
Phased Array System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires DSP System Toolbox - Requires Signal Processing Toolbox - Simulink recommended - MATLAB Coder recommended - Simulink Coder recommended 	✔	✔	✔
Polyspace Bug Finder	<ul style="list-style-type: none"> - Requires MATLAB - Polyspace Code Prover recommended 	✔	✔	✔
Polyspace Client for Ada	<ul style="list-style-type: none"> - Polyspace Server for Ada required - Does not require MATLAB or Simulink 	✔		✔
Polyspace Code Prover	<ul style="list-style-type: none"> - Requires MATLAB - Requires Polyspace Bug Finder - Requires MATLAB Distributed Computing Server 	✔	✔	✔
Polyspace Server for Ada	<ul style="list-style-type: none"> - Polyspace Client for Ada recommended - Does not require MATLAB or Simulink 	✔		✔

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Powertrain Blockset	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Stateflow recommended - Simscape recommended - Model-Based Calibration Toolbox recommended 	✓	✓	✓
Predictive Maintenance Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Requires Statistics and Machine Learning Toolbox - Requires System Identification Toolbox - Text Analytics Toolbox recommended - Simulink recommended - Neural Network Toolbox recommended 	✓	✓	✓
RF Blockset	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires RF Toolbox - Communications System Toolbox recommended - DSP System Toolbox recommended - Signal Processing Toolbox recommended 	✓	✓	✓
RF Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Communications System Toolbox recommended 	✓	✓	✓
Risk Management Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Financial Toolbox - Requires Statistics and Machine Learning Toolbox - Requires Optimization Toolbox - Financial Instruments Toolbox recommended - Econometrics Toolbox recommended - Datafeed Toolbox recommended - Global Optimization Toolbox - Database Toolbox recommended 	✓	✓	✓
Robotics System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Image Processing Toolbox recommended - Simulink Coder recommended - Computer Vision System Toolbox recommended - Simscape Multibody recommended - Stateflow recommended - Simulink recommended - Embedded Coder recommended 	✓	✓	✓
Robust Control Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Control System Toolbox - Requires Simulink for using toolbox blocks - Simulink Control Design recommended 	✓	✓	✓
Signal Processing Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - DSP System Toolbox recommended 	✓	✓	✓

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SimBiology	<ul style="list-style-type: none"> - Requires MATLAB - Global Optimization Toolbox recommended - Optimization Toolbox recommended - Parallel Computing Toolbox recommended - Statistics and Machine Learning Toolbox recommended 	✓	✓	✓
SimEvents	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Stateflow recommended - Statistics and Machine Learning Toolbox recommended 	✓	✓	✓
Simscape	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink 	✓	✓	✓
Simscape Driveline	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simscape 	✓	✓	✓
Simscape Electronics	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simscape - Simulink Control Design recommended - Optimization Toolbox recommended - Simscape Multibody recommended - Simscape Fluids recommended - Control System Toolbox recommended - Simulink Design Optimization recommended 	✓	✓	✓
Simscape Fluids	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simscape 	✓	✓	✓
Simscape Multibody	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simscape 	✓	✓	✓
Simscape Power Systems	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simscape 	✓	✓	✓
Simulink	<ul style="list-style-type: none"> - Requires MATLAB. - Requires Fixed-Point Designer for simulating fixed-point data types <p>Some features require the use of a C compiler. See the list of supported compilers.</p>	✓	✓	✓
Simulink 3D Animation	<ul style="list-style-type: none"> - Requires MATLAB - Simulink recommended - Simulink is required if using the blockset portion of the product 	✓	✓	✓
Simulink Check	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink 	✓	✓	✓
Simulink Code Inspector	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires host platform C compiler supported by MATLAB (for <code>loadlibrary</code> usage). See list of supported host compilers. 	✓		✓

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Simulink Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires MATLAB Coder - Embedded Coder recommended - Simulink Real-Time recommended - Requires Fixed-Point Designer for generating fixed-point code - Requires host platform C compiler. See list of supported host compilers. - Requires cross-compiler for the target processor if the code will execute on a platform different from the host. 	✔	✔	✔
Simulink Control Design	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Control System Toolbox - Simulink Design Optimization recommended 	✔	✔	✔
Simulink Coverage	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Simulink Test recommended - Simulink Design Verifier recommended - Embedded Coder recommended 	✔	✔	✔
Simulink Design Optimization	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Optimization Toolbox - Global Optimization Toolbox recommended - Parallel Computing Toolbox recommended - Simulink Control Design recommended - Control System Toolbox recommended - Statistics and Machine Learning Toolbox recommended 	✔	✔	✔
Simulink Desktop Real-Time	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Simulink Coder recommended - MATLAB Coder recommended 	✔	✔	
Simulink Design Verifier	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simulink Check - Requires Simulink Coverage 	✔	✔	✔
Simulink PLC Coder	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink 	✔		
Simulink Real-Time	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires Simulink Coder - Requires MATLAB Coder - Stateflow recommended - Requires a compiler (See supported compiler versions.) 	✔		
Simulink Report Generator	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires MATLAB Report Generator 	✔	✔	✔

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Simulink Requirements	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Simulink Test recommended 	✓	✓	✓
Simulink Test	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Simulink Design Verifier recommended - Simulink Report Generator recommended - Embedded Coder recommended - Simulink Check recommended - Stateflow recommended 	✓	✓	✓
Spreadsheet Link	<ul style="list-style-type: none"> - Requires MATLAB - Available on 32 bit Windows and 64 bit Windows only - Requires one of the following versions of Excel: <div style="display: flex; justify-content: space-around; width: 100%;"> Excel 2007 Excel 2010 Excel 2013 or later </div> 	✓		
Stateflow	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Requires C compiler when used in non-Windows or 64 bit environments. See the list of supported compilers. 	✓	✓	✓
Statistics and Machine Learning Toolbox	<ul style="list-style-type: none"> - Requires MATLAB 	✓	✓	✓
Symbolic Math Toolbox	<ul style="list-style-type: none"> - Requires MATLAB 	✓	✓	✓
System Identification Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink for using toolbox blocks - Signal Processing Toolbox recommended - Control System Toolbox recommended 	✓	✓	✓
Text Analytics Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Statistics and Machine Learning Toolbox - Parallel Computing Toolbox recommended - Neural Network Toolbox recommended 	✓	✓	✓
Trading Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Financial Toolbox recommended - Financial Instruments Toolbox recommended - Econometrics Toolbox recommended - Datafeed Toolbox recommended - Global Optimization Toolbox recommended - Windows only support: <ul style="list-style-type: none"> - X_TRADER® - CQG - Bloomberg EMSX - Interactive Brokers® 	✓	✓	✓

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Vehicle Dynamics Blockset	<ul style="list-style-type: none"> - Requires MATLAB - Requires Simulink - Simscape recommended - Stateflow recommended 	✓	✓	✓
Vehicle Network Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Simulink recommended - On Linux® platform, support is limited to encoding and decoding CAN and CAN FD messages using MathWorks virtual channels. This support does not include other vendors, hardware, or protocols. 	✓		✓
Vision HDL Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - HDL Coder recommended - Image Processing Toolbox recommended - Fixed-Point Designer recommended - Computer Vision System Toolbox recommended - HDL Verifier recommended - Simulink recommended 	✓		✓
Wavelet Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Signal Processing Toolbox recommended - Image Processing Toolbox recommended - Statistics and Machine Learning Toolbox recommended 	✓	✓	✓
WLAN System Toolbox	<ul style="list-style-type: none"> - Requires MATLAB - Requires Signal Processing Toolbox - Requires DSP System Toolbox - Requires Communications System Toolbox - Instrument Control Toolbox recommended - Parallel Computing Toolbox recommended - LTE System Toolbox recommended - HDL Coder recommended - RF Blockset recommended - MATLAB Coder recommended 	✓	✓	✓