

xPC Target Embedded Option 5.0

Run xPC Target applications on standalone target computers

xPC Target Embedded Option™ enables applications generated with [xPC Target™](#) to run on a target computer without being connected to a host computer. You can run your applications on a standalone target computer for data acquisition, calibration, testing, and small-batch production scenarios. You can distribute the applications royalty-free to any number of target computers.

xPC Target enables you to execute [Simulink®](#) and [Stateflow®](#) models on a target computer for rapid control prototyping, hardware-in-the-loop (HIL) simulation, and other real-time testing applications. It provides a library of I/O device drivers, a real-time kernel, and a host-target interface for real-time monitoring, parameter tuning, and data logging. You can program FPGA boards for xPC Target Turnkey systems using code generated by [Simulink HDL Coder™](#).

With xPC Target, you design your model in Simulink, generate application code with [Simulink Coder™](#) and download the application to a target computer running the xPC Target real-time kernel. The target computer then runs your application and communicates with your hardware under test in real time.

For complete real-time testing solutions, [xPC Target Turnkey](#) combines xPC Target with a high-performance real-time target machine configured to meet your computational and I/O requirements.

Key Features

- Standalone operation with xPC Target compatible systems, including xPC Target Turnkey systems, PC-compatible hardware, and single-board computers (SBCs)
- Automatic execution of the embedded application upon target computer startup
- Royalty-free deployment of applications generated by xPC Target



xPC Target Turnkey real-time testing solution. Once you connect to your hardware under test, you can run your Simulink and Stateflow models in real time and verify your designs.

Distributing Real-Time Applications

xPC Target Embedded Option is an extension to [xPC Target](#) that binds the code generated from your model and the xPC Target kernel into a single, real-time application. When this combined real-time application is installed

on your target computer, it automatically loads and runs at startup, without needing a connection to a host computer. You can distribute and run the real-time applications royalty-free to any number of target computers.

Resources

Product Details, Demos, and System Requirements

www.mathworks.com/products/xpcembedded

Trial Software

www.mathworks.com/trialrequest

Sales

www.mathworks.com/contactsales

Technical Support

www.mathworks.com/support

Online User Community

www.mathworks.com/matlabcentral

Training Services

www.mathworks.com/training

Third-Party Products and Services

www.mathworks.com/connections

Worldwide Contacts

www.mathworks.com/contact