MPLAB 16-Bit Device Blocks for Simulink
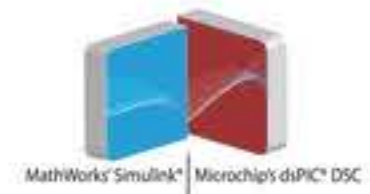### Part Number: SW007023

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The free edition offers all the same features as the regular version, except that the number of I/Os is limited to 8. There are six dsPIC products in which there are no restrictions. These include the following devices (and their "A" variant):

33EP256MC506

33FJ32MC204

33FJ128MC802

33EP512MU810

33FJ256MC710 / 33FJ256MC710A

33FJ256GP710 / 33FJ256GP710A

The MPLAB® Device Blocks for Simulink® provide a set of user interfaces and Simulink peripheral blocks for the dsPIC®30 and dsPIC®33 DSCs.
Standalone applications can be created from a Simulink discrete time model by adding blocks provided by Microchip. Code for the application is generated, compiled and loaded on a target in a single, one-push-button step.
Also provided are many examples in the form of demo models, including a complete BLDC motor control application included in the package.

The newest version, version 3.38 now has support for single-shunt motor control algorithms and also includes Simulink® models for several additional examples.

| Features | Package Contents | Host System Requirements | Related Tools | Supported Devices |

- Blocks for peripherals of dsPIC3x Family: Digital In/Out , ADC, PWM, Change Notification , Output Compare, Input Capture, QEI, I2C, SPI, UART, Interrupt, Reset
- Target configuration blocks: Master Block, Simulink Reset Config, Compiler Option, Data Sheet, MCU Overload, MCU Load, Task State, Scheduler Option (to define behavior on overload with multi-rate scheduler)
- Facility to invoke dsPIC3x dedicated functions written in C through a "C Function Call" block
- Real-time view/analyze or log variables within MATLAB® through a configurable, PICGUI interface
- PWM high speed override block
- Create a ready-to-use MPLAB X project
- Supports over 190 chips
- **Download the free version from the "Documentation/Software" tab below.**

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