

xPC Target Block Library Update 2.0.2

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Introduction

The xPC Target block library has a number of changes since version 2.0.1 (Release 13 SP1). If you have been using xPC Target version 2.0.1 (Release 13 SP1), check the following table for driver blocks you may be using. Some of the changes require you to make changes to your Simulink model.

Most changes are made by simply installing the update and rebuilding your model. Some changes require you to reestablish the library links. Library links are reestablished by deleting the old block, and then dragging and dropping the corrected block into your model.

Note that after you install the update, at the MATLAB Command Window, type the following to integrate the updates into your existing xPC Target installation.

```
rehash toolbox
```

Library Updates

This document lists the major library update changes. These changes are of the following category:

- New — These drivers include new boards that we now support. Color coded: **Blue: New**
- Enhanced — Enhanced functionality or new capability of existing boards. Color coded: **Green: Enhanced**
- Cosmetic fix — Most of these drivers have text changes on the driver blocks and in the parameter dialog boxes. Color coded: **Magenta: Cosmetic fix**
- Bug fix — Color coded: **Red: Bug fix**

In addition to the new drivers, this library update also has the following changes:

- The xPC Target block library now has a frame-based drivers group, A/D Frame.
- The LVDT and Synchro Resolver sublibraries contain both the input and output drivers.

Manufacturer	Board	Driver Types	Description
Adlink	PCI-8133	3-Phase PWM Generation	New
Apex/NAII	PCI-76CS1	Synchro/Resolver and Measurement Simulation	New
Apex/NAII	PCI-76CL1	LVDT/RVDT Measurement and Simulation	New
Apex/NAII	PCI-76LD1	LVDT/RVDT Measurement	New

Manufacturer	Board	Driver Types	Description
Apex/NAII	73SD3	Synchro/ Resolver Measurement	New
Computer Boards/ Measurement Computing	CIO-QUAD02	Incremental Encoder	Bug fix — Added Filter prescale factor dialog box parameter
Computer Boards/ Measurement Computing	CIO-QUAD04	Incremental Encoder	Bug fix — Added Filter prescale factor dialog box parameter
Computer Boards/ Measurement Computing	PCI-QUAD04	Incremental Encoder	Bug fix — Added Filter prescale factor dialog box parameter
Computer Boards/ Measurement Computing	PCI-DAS1602 16	D/A	Bug fix — The driver for this board no longer causes a simulation crash.
Contec	CNT24-4D	Incremental Encoder	New

Manufacturer	Board	Driver Types	Description
Diamond Systems	Diamond-MM	All drivers	Enhancement — All Diamond-MM blocks have been renamed to MM. If you have existing models with blocks named Diamond-MM, replace those blocks with the renamed equivalents.
Diamond Systems	Diamond-MM	A/D	Enhancement — Added Show error status output dialog box parameter
Diamond Systems	Diamond-MM	D/A	Enhancement — Added Reset vector and Initial value vector dialog box parameter

Manufacturer	Board	Driver Types	Description
Diamond Systems	Diamond-MM	DI	Bug fix — Changed dialog box parameter Number of channels to Channel vector
Diamond Systems	Diamond-MM	DO	Bug fix — Changed dialog box parameter Number of channels to Channel vector, added Initial value vector dialog box parameter
Diamond Systems	Emerald-MM	RS-232, RS-422/ RS-485	New
Diamond Systems	Emerald-MM-8	RS-232, RS-422/ RS-485	New
Diamond Systems	Garnet-MM	DI, DO	New
Diamond Systems	MM-16-AT	A/D, D/A, DI, DO	New
Diamond Systems	MM-32-AT	Frame-based A/D	New
Diamond Systems	Onyx-MM-DIO	DI, DO	New
Diamond Systems	Prometheus	A/D, D/A, DI, DO	New

Manufacturer	Board	Driver Types	Description
General Standards	PMC-ADADIO	DA Write, DO	Enhancement — Added Reset Vector and Initial Value Vector dialog box parameters
National Instruments	PCI-6023E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-6024E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-6025E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-6031E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-6052E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-6601	Incremental Encoder, Pulse Train Generation and Capture	New
National Instruments	PCI-6071E	Pulse Train Generation and Capture	Enhancement — New capabilities

Manufacturer	Board	Driver Types	Description
National Instruments	PCI/PXI-6713	D/A, DI, DO	New
National Instruments	PCI/PXI-6711	D/A, DI, DO	New
National Instruments	PCI-MIO-16E-1	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-MIO-16E-4	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PCI-MIO-16XE-10	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PXI-6040E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PXI-6070E	Pulse Train Generation and Capture	Enhancement — New capabilities
National Instruments	PXI-6071E	A/D, D/A, DI, DO, Pulse Generation, Pulse Train Generation and Capture	New
Qatech	ESC-100	RS-232	New
Qatech	QSC-100	RS-232	New
Qatech	QSC-200/300	RS-422/485	New

Manufacturer	Board	Driver Types	Description
Real Time Devices	DM6816	PWM Generation	New
Softing	CAN-AC2-PCI, CAN-AC2-104	All	Enhancement — General improvements
United Electronic Industries (UEI)	PD2-MF	Frame-based A/D	Enhancement — New capabilities
UEI	PD2-MFS	Frame-based A/D	Enhancement — New capabilities
UEI	PDXI-MF	Frame-based A/D	Enhancement — New capabilities
UEI	PDXI-MFS	Frame-based A/D	Enhancement — New capabilities
VMIC	5565	Shared Memory	New

Additional Change of Note

The behavior when you double-click the To xPC Target and From xPC Target blocks has changed. If you double-click a To xPC Target or From xPC Target block that has been properly configured, the target parameter or signal that the block refers to is highlighted. If the parameter or signal is in another model, xPC Target opens that model first, then highlights the parameter or signal. If the To xPC Target or From xPC Target block has not yet been configured, double-clicking the block has no affect. In previous releases, double-clicking on these blocks displayed the **Block Parameters** dialog for the block.

To edit the block parameters for the To xPC Target or From xPC Target blocks, right-click on the block and select **Mask parameters**.

