

Using PIC Firmware Version 1.4 of RapidPro PS-DINJ 2/1 Module (DS1664)

Valid for RapidPro PS-DINJ 2/1 module (DS1664) with PIC firmware version 1.4.

Checking the module's PIC firmware version



You can check the module's PIC firmware version on the property page of the module via ConfigurationDesk.

Documentation



For new features and technical data on the PS-DINJ 2/1 module with PIC firmware version 1.4, refer to *RapidPro System PS-DINJ 2/1 Module* (RapidProPsDinj21_PlugIn.pdf). You will find the PDF in %DSPACE_ROOT%\Doc\Print\ after installing add-on software.

Where to go from here

Information in this section

<i>Using PS-DINJ 2/1 Modules in Combination with dSPACE Release 5.4</i>	2
<i>Using PS-DINJ 2/1 Modules in Combination with dSPACE Release 5.2 and dSPACE Release 5.3</i>	3

Using PS-DINJ 2/1 Modules in Combination with dSPACE Release 5.4

Objective

As of PIC firmware version 1.4 the PS-DINJ 2/1 module provides new features. These can only be used with dSPACE Release 5.4 and the add-on software, or later dSPACE releases.

Installing add-on software for working with dSPACE release 5.4

Download the add-on software via: [http://www.dspace.com/goto?DS1664_addon_rls54](http://www.dsspace.com/goto?DS1664_addon_rls54), and install it on your host PC.

Updating the RapidPro system

Update your RapidPro system as described in the *How to Update RapidPro Firmware* in the *RapidPro System Hardware Installation Guide*. If your RapidPro system already provides the latest firmware for all components No update necessary is displayed.

- PS-DINJ 2/1 module **with** PIC firmware version 1.4:
You do not have to update the RapidPro firmware of your system.
- PS-DINJ 2/1 module with PIC firmware **earlier** than version 1.4:
Update your RapidPro firmware as described in *How to Update RapidPro Firmware* in the *RapidPro System Hardware Installation Guide*.



You can check the module's PIC firmware version on the property page of the module via ConfigurationDesk.

Further steps to do after installing the add-on software

If the add-on software is installed and the module's PIC firmware is version 1.4, you must generate a new HWT file for your RapidPro system so that you can work with the diagnostic information of the PS-DINJ 2/1 module in your Simulink® model(s).

Import the new HWT file via the RPCU_SETUP block to all the models which use the RPCU_DIAGNOSIS block.

Getting full functionality in the module's *Double control signal mode*



If you use the RPCU_INJ_IGN_TPU_BLx blockset of the RTI RapidPro Control Unit Blockset, you must clear the **Enable gate mode** checkbox to get the full functionality in the module's **Double control signal mode**. For further information, refer to *Injection Page (RPCU_INJ_IGN_TPU_BLx)* in the *RapidPro System – I/O Subsystem MPC565 RTI Reference*.

Using PS-DINJ 2/1 Modules in Combination with dSPACE Release 5.2 and dSPACE Release 5.3

Objective

The new features of the module with the PIC firmware version 1.4 are not available in combination with dSPACE Release 5.2 and dSPACE Release 5.3. Therefore, it is not necessary to update the PIC firmware of a module with PIC firmware **earlier** than version 1.4.



The add-on software (http://www.dspace.com/goto?DS1664_addon_rls54) cannot be installed for dSPACE Release 5.2 and dSPACE Release 5.3.

Installing a patch for working with dSPACE Release 5.2 and 5.3

You have to install a patch file to ensure correct operation if you use a PS-DINJ 2/1 module in combination with dSPACE Release 5.2 and dSPACE Release 5.3.

It is strictly recommended to install the patch file on your host PC (Internet download: http://www.dspace.com/goto?DS1664_upd_rls53) .

Further steps to do

- PS-DINJ 2/1 module **with** PIC firmware version 1.4:
You must generate a new HWT file for your RapidPro system so that you can work with the diagnostic information of the PS-DINJ 2/1 module in your Simulink model(s).
Import the new HWT file via the RPCU_SETUP block to all models which use the RPCU_DIAGNOSIS block.
Restriction: ConfigurationDesk cannot display the diagnostic message *Open load* anymore.
- PS-DINJ 2/1 module with PIC firmware **earlier** than version 1.4:
No further steps are necessary.

How to Contact dSPACE

Mail:	dSPACE GmbH Technologiepark 25 33100 Paderborn Germany
Tel.:	+49 5251 1638-0
Fax:	+49 5251 66529
E-mail:	info@dspace.de
Web:	http://www.dspace.com

This document contains proprietary information that is protected by copyright. All rights are reserved. Neither the documentation nor software may be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without the prior written consent of dSPACE GmbH.

© Copyright 2007 by:

dSPACE GmbH
Technologiepark 25
33100 Paderborn
Germany

This publication and the contents hereof are subject to change without notice.

ConfigurationDesk, ControlDesk, TargetLink and CalDesk are registered trademarks of dSPACE GmbH in the United States or other countries, or both. Other brand names or product names are trademarks or registered trademarks of their respective companies or organizations.