



ControlLogix Digital I/O Modules

Before You Begin

IMPORTANT

Do not backflash your module's firmware from firmware revision 3.x to 2.x. Attempting to backflash or downgrade a module's firmware from 3.x to 2.x will irreversibly damage the module.

You must return modules damaged by an attempt to backflash to firmware 2.x to Rockwell Automation.

In addition, attempting to upgrade a 2.x module to 3.x results in a ControlFlash error dialog. Upgrading a module's 2.x firmware to 3.x firmware is not supported.

About This Publication

This publication is for use with all 1756 Digital I/O modules. It contains important information about module revisions and their corresponding firmware.

AB Part

About This Digital I/O Module

Some 1756 ControlLogix Digital I/O modules, including this module, are transitioning to use a new, internal backplane ASIC. As a result, the module's Major Revision number has also been upgraded. Digital I/O modules with the new ASIC are identified at Major Revision 3.x.

Modules with the new internal backplane ASIC are form-fit, functional equivalents to the 2.x modules.

You can use Major Revision 3.x modules as direct replacements for Major Revision 2.x modules if the Electronic Keying of the module is specified as Compatible Keying or Disabled Keying. For more information, see *If Using an Compatible or Disabled Keying I/O Configuration*.

If the Electronic Keying of the module is specified as Exact Keying, you must complete additional steps. For more information, see *If Using an Exact Match Keying Configuration*.

The use of the upgraded ASIC also impacts the firmware revisions that may be flashed to the module. Digital I/O modules at Major Revision 3.x cannot be backflashed to any 2.x firmware revision. Digital I/O modules at firmware revision 2.x cannot be flash upgraded to any firmware revision 3.x.

If Using an Compatible or Disabled Keying I/O Configuration

If you are replacing a 2.x module with a 3.x module and have configured the 2.x module to use Compatible or Disabled Keying, further steps are not required.

If you use Compatible or Disabled Keying configurations, 3.x modules can be used as a direct replacements for a 2.x modules.

If Using an Exact Match Keying Configuration

If you are currently using a 2.x module configured at Exact Match keying, consider changing module Electronic Keying in the I/O configuration to Compatible or Disabled Keying.

If you are replacing a 2.x module with a 3.x module and must use exact match keying in the I/O configuration, take additional action depending on your version of RSLogix 5000 software.

If you use exact match keying and	Then you must
RSLogix 5000 software, version 13 or greater	<ol style="list-style-type: none"> 1. Delete the 2.x module from the I/O Configuration in the RSLogix 5000 project. 2. Add a new 3.x revision module to the I/O configuration.
RSLogix 5000 software, version 12 or lower	<p>Do one of the following:</p> <ul style="list-style-type: none"> • Change the module's configuration to Disable Keying. • Upgrade RSLogix 5000 software to version 13 or greater and complete the steps listed for RSLogix version 13 or greater.

Additional Resources

For more information about changing module's I/O configuration, see the Digital I/O User Manual, publication 1756-UM058.

You can view or download publications at <http://literature.rockwellautomation.com>. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

AB Par

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your module up and running.

United States	1.440.646.3223 Monday – Friday, 8am – 5pm EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning, it may need to be returned.

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for return procedure.

Allen-Bradley, ControlLogix, and RSLogix 5000 are trademarks of Rockwell Automation, Inc.

Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1756-RN632A-EN-P - November 2006

PN 953030-48

Copyright © 2006 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.