Allen-Bradley

ControlLogix-XT ControlNet Interface Module, Firmware Revision 20.013

Catalog Number 1756-CN2RXT/B

About This Publication

These release notes provide software compatibility requirements and other usage considerations for this module. See Additional Resources on page 12 for a list of publications that you should use with your module.

Software Compatibility

To use the 1756-CN2RXT/B module, you need the correct versions of RSLogix 5000 programming software and RSLinx Classic software.

Software	Compatible Version
RSLogix 5000	16.0 or later
RSLinx Classic	2.55 or later

If you do not use RSLinx Classic version 2.55, the module will not properly display in the network.

Corrected Anomalies with Revision 20.013

These anomalies have been corrected with communication module firmware revision 20.013.

Corrected Anomalies with Revision 20.013

Cat. No.	Description
1756-CN2RXT/B	**Corrected:** A communication fault occurred when the module was in an I/O chassis and configured as rack optimized. In RSLogix 5000 software, the outputs in the chassis go to the states configured for Program mode instead of Fault mode. The workaround previous to being corrected was to use a direct connection instead of a rack optimized connection for the I/O adapter. Lgx00105037; Product Notice 2010-04-002
	Corrected: The 1756-CN2RXT/B module returned an error to a `Hold Net Resource' request if the module received the request immediately after responding with success to a previous `Obtain Network Resource' request. This was not an issue for RSNetWorx software because it waits approximately 15 seconds after the `Obtain Network Resource' request before issuing a Hold request. The workaround previous to being corrected was to program a short delay between the two requests. Lgx00103680
	Corrected: Upon powerup, the OK status indicator of the 1756-CN2RXT/B module may have been red. The module status display indicated one of these messages because the 1756-CN2RXT/B module inaccurately detected the size of the redundant chassis: • CmdConnOpen.cpp Line 630 • RMEventLog.cpp Line 841 Lgx00082907

Restrictions

These restrictions exist for the 1756-CN2RXT/B communication module at firmware revision 20.013.

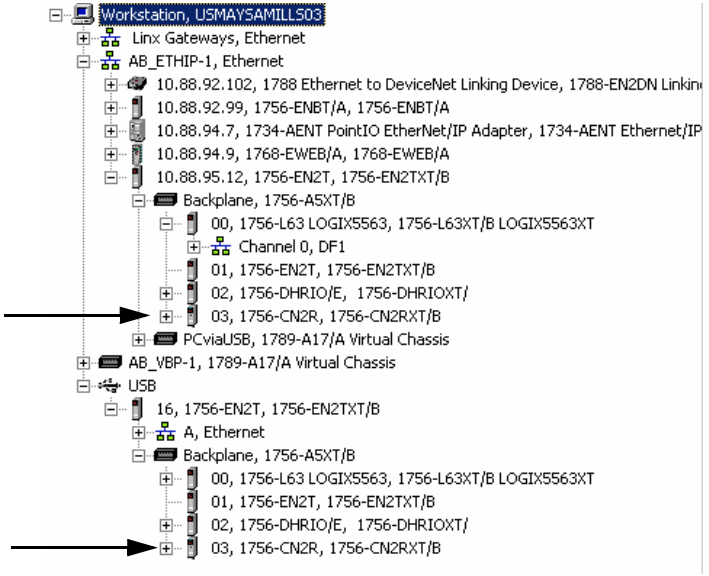
Restrictions with Revision 20.013

Cat. No.	Description
1756-CN2RXT/B	The 1756-CN2RXT/B communication module firmware revision 20.13 is not compatible with the 1756-CN2*x*/A communication module hardware. **IMPORTANT** Do not attempt to upgrade a 1756-CN2x/A communication module with 1756-CN2RXT/B firmware 20.13. If you attempt this update, the ControlFLASH software displays a severe incompatibility warning. **Number of Connections** The modules support a maximum of 131 connections. However, 3 of the 131 connections are always reserved for redundant control. Therefore, 128 connections are available for standard use. Because the connections are reserved, they will always appear in use even when no connections are open.

Browsing to the 1756-CN2RXT/B Module in RSLinx Software

Browse to the 1756-CN2RXT/B module by using RSLinx software, version 2.55 or later.

This is an example of how the 1756-CN2RXT/B module appears in RSLinx software. Notice that the module is accessible by browsing either the USB port or the network connection.

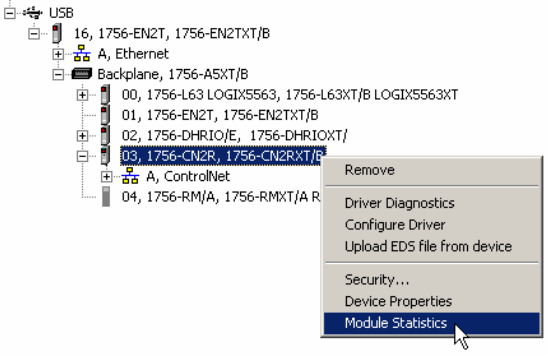


Number of Connections

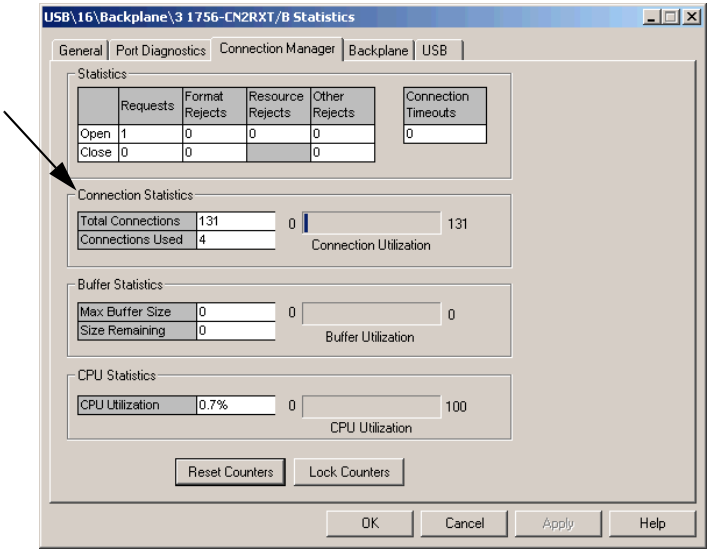
The 1756-CN2RXT/B module supports a maximum of 131 connections. However, 3 of the 131 connections are always reserved for redundant control. Therefore, 128 connections are available for standard use. Because the connections are reserved, they will always appear in use even when no connections are open.

To access the module's connection information, complete these steps.

1. Open RSLinx software and browse to the 1756-CN2RXT/B module.
2. Right-click the module and choose Module Statistics.



3. Click the Connection Manager tab and view the Connection Statistics.



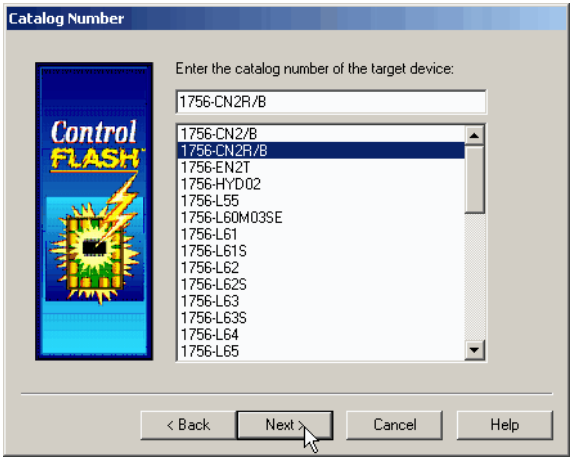
Update Module Firmware

IMPORTANT **Do not** update firmware for multiple modules at one time through the USB port.

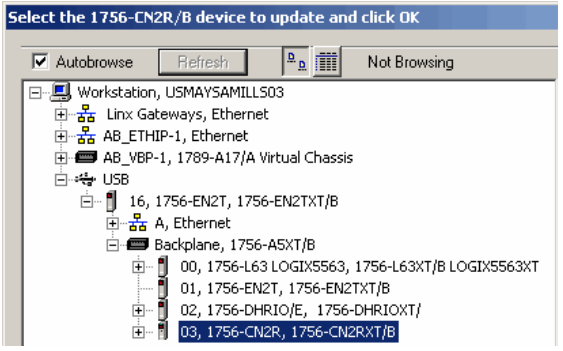
The 1756-CN2RXT/B module uses the same firmware as the 1756-CN2R/B module. Download 1756-CN2R/B firmware from http://www.rockwellautomation.com/support/ before you begin updating the firmware.

To update the 1756-CN2RXT/B module firmware with the ControlFLASH software, complete these steps.

1. Verify that the appropriate network connection is made and the network driver has been configured in RSLinx software.
2. Launch the ControlFLASH software and click Next to begin the firmware update.
3. Select the 1756-CN2R/B module and click Next.



4. Expand the network driver to locate the 1756-CN2RXT/B module you are upgrading.



5. Select the 1756-CN2RXT/B module and click OK.
6. Select the firmware revision to use for the update and click Next.
7. Click Finish.

   A confirmation dialog box appears.

8. Click Yes.

   When the update is complete, a dialog box appears indicating that the update has successfully completed.

9. Click OK to close the ControlFLASH software.

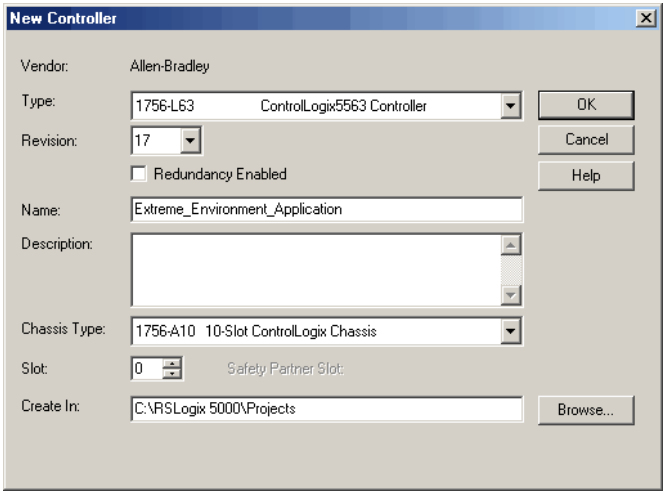
Configure the Module in RSLogix 5000 Software

Complete these steps to add and configure a 1756-CN2RXT/B module in RSLogix 5000 programming software.

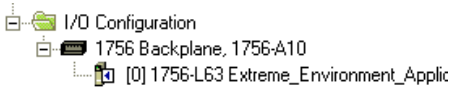
1. Launch RSLogix 5000 programming software and create a new project.
2. Use this table as a reference to specify the appropriate Controller Properties for your controller and chassis.

If using a	In field	Specify this value
1756-L63XT controller	Type	1756-L63 ControlLogix5563 Controller
1756-A5XT chassis	Chassis Type	Any ControlLogix chassis with more than four slots (that is, a 1756-A7 or larger)
1756-A7LXT chassis		

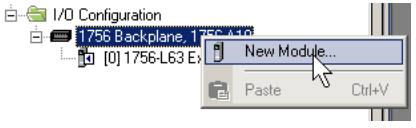
3. Specify the remaining controller properties according to your application requirements and click OK.



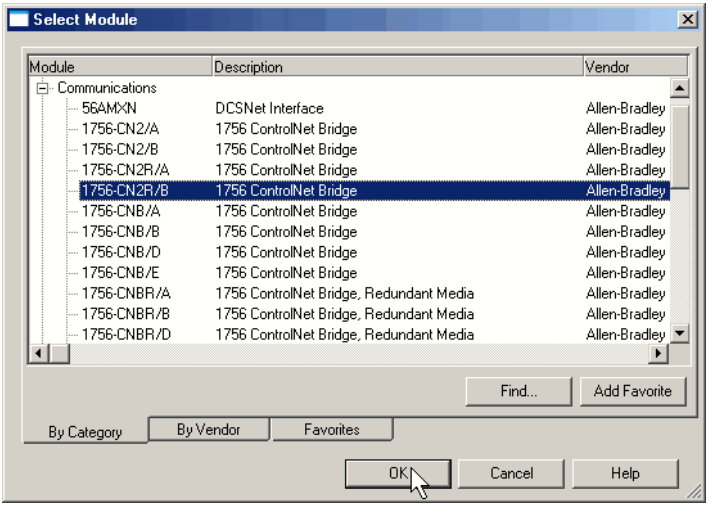
The resulting I/O Configuration tree is created as shown here.



4. Right-click the backplane and choose New Module.



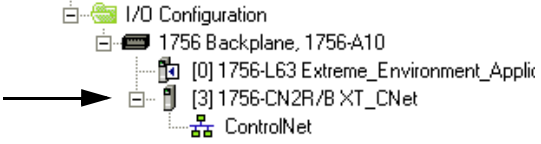
5. From the list of Communication modules, select the 1756-CN2R/B module and click OK.



6. Specify the remaining module properties as your application requires and click OK.

IMPORTANT	Specify the slot number that corresponds to the module's placement in your ControlLogix-XT chassis. For example, if you are using a 1756-A5XT chassis and have placed the 1756-CN2RXT/B module in slot 3 of the chassis, specify slot 3 in the module's properties. Any ControlLogix-XT module's slot should not be higher than the number of slots in the ControlLogix-XT chassis used. For example, if you are using a 1756-A5XT chassis and have specified a 1756-A10 chassis for your project, no modules should be configured for slots 5 and higher.

The 1756-CN2RXT/B module is now in the I/O Configuration tree and appears as a 1756-CN2R/B module.



The addition and configuration of your 1756-CN2RXT/B module in RSLogix 5000 programming software is complete.

Additional Resources

These documents contain additional information concerning related Rockwell Automation products.

Resource	Description
ControlLogix-XT ControlNet Module Installation Instructions, publication 1756-IN634	Provides procedures for installing and specifications specific to the 1756-CN2RXT/B module.
ControlNet Modules in Logix5000 Control Systems User Manual, publication CNET-UM001	Provides information about using and troubleshooting ControlNet modules.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

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

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