

ControlLogix EtherNet/IP Bridge Module, Firmware Revision 1.004

Catalog Number 1756-EN2T

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About This Publication

This release note provides software compatibility requirements and other usage considerations for this module, as well as corrected anomalies.

Before You Begin

To use the 1756-EN2T module, you need the correct versions of the following software.

Software	Compatible Version
RSLogix 5000	15.00 or later
RSLinx Classic	2.51 or later
ControlFlash	4.0 or later
USB CIP Driver	3.03 or later

Enhancements

This firmware revision contains these enhancements.

Enhancements	Description
TCP connections can be closed without affecting CIP connections	The enhancement with this revision decouples the link between a TCP connection and the associated CIP connection. As a result, TCP connections can be closed without affecting existing CIP connections.

Corrected Anomalies

This firmware revision contains these corrected anomalies.

Anomaly	Description
A safety task timeout occurs in the GuardLogix controller after it is powered up in the same rack as a 1756-EN2T module	A timing issue when power is applied to the 1756-EN2T module inhibits the GuardLogix controller from properly making I/O connections.
Rack optimized inputs may not update if change of state is disabled	If a rack optimized connection is setup, and the change of state checkboxes are cleared on the inputs, the inputs may not update.
Incorrect slot status is displayed in RSLogix 5000 software tags	This occurs when an I/O module times out in a rack-optimized rack using the 1756-EN2T module. The 1756-EN2T module does not send the correct status bits (0xffffffff) to the controller.
Module may not communicate on Ethernet after being configured for BootP or DHCP	When changing the configuration from BootP to DHCP (or vice versa), the module may not be able to communicate on Ethernet. Power cycling the module, or applying a static IP address will correct the problem.
Assert Error occurs when closing a listen-only connection	This occurs when a rack-optimized 1756-EN2T module tries to close an I/O connection with two or more listen-only connections.
Assert Error occurs when flash updating the module	This could occur when a module is being flash updated and is receiving an explicit message simultaneously.
Assert Error occurs when configuring the module IP address	This may occur when a module has I/O connections through it, and the IP address configuration is changed.
Assert Error occurs shortly after module powers up	When using domain names instead of IP addresses, the 1756-EN2T module may assert when trying to resolve the domain names.

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Anomaly	Description
Assert Error occurs when more than one module is connected to the same data	If more than one module is listening to the same data from the chassis, and the RPIs on the two connections are close, but not the same, the 1756-EN2T may assert.
Diagnostic web page shows the incorrect I/O packet rates when the module is used to bridge safety connections	The inaccuracy occurs due to the exclusion of safety packets in the counters.
Module faults if bad data is received from I/O modules on the backplane	This occurs if an I/O module on the backplane returned a CBID outside the normal range, resulting in data being overwritten.

Application Notes

We recommend the following when you use the module:

- Make sure the module is operating in full-duplex or auto-negotiate mode.

If your module is operating at half-duplex or auto-negotiates to half-duplex mode and there are a large number of collisions, the application may drop connections.

- Use Ethernet switches in your application.
- If you use various 1756 EtherNet/IP communication modules in the same chassis, for example, a 1756-ENBT module with a 1756-EN2T module, do not use the Rack Optimized communication format.

If you must use the Rack Optimized communication format, we recommend that you place the 1756-EN2T module in a separate chassis from the 1756-ENBT module.

- Do not flash upgrade the firmware for more than one module simultaneously through the USB port.

Install the Firmware Revision

Follow these steps to install firmware revision 1.004.

Locate the appropriate firmware and copy all the files to a temporary subdirectory on your hard drive.

- Firmware files are available on the RSLogix 5000 software CD.

Use the ControlFlash utility that ships with RSLogix 5000 programming software.

- You can also download the firmware files from <http://support.rockwellautomation.com>

Additional Resources

These documents contain additional information concerning related Rockwell Automation products.

Resource	Description
ControlLogix EtherNet/IP Bridge Module Installation Instructions, publication 1756-IN603	Provides details about how to install the module, how to upgrade firmware, and controller technical specifications.
EtherNet/IP Modules in Logix5000 Control Systems User Manual, publication ENET-UM001	Provides information about how to use your module after installation.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://ab.com	Provides declarations of conformity, certificates, and other certification details.

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.

Notes:

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 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 product up and running.

United States	1.440.646.3434 Monday – Friday, 8 a.m. – 5 p.m. EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell Automation 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 and needs to be returned, follow these procedures.

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 the return procedure.

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