

ArmorBlock EtherNet/IP Modules Firmware Revision 1.006

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Series A

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About This Publication

These release notes for Firmware Revision 1.006 supplement the existing documentation supplied with your product.

Before You Begin

Compatibility

Use RSLogix 5000 version 15 or greater.

Allen-Bradley A

Enhancements

Enhancements for Firmware Revision 1.006

Enhancement	Description
Improved power on time	Power On Self Test (POST) now executes in 2.5 s, as compared to 13 s in Firmware Revision 1.005. The Module status LED flashes red and green during Power On Self Test to indicate that self test is taking place.
Support for unicast I/O connections	This version now offers complete support for unicast I/O connections.

Corrected Anomalies

Corrected Anomalies for Firmware Revision 1.006

Anomaly	Description
Multicast connection requests from off-subnet originators are not rejected	Multicast connection requests from off-subnet originators should not be accepted because the ODVA EtherNet/IP specification limits multicast productions to the subnet (TTL = 1). This anomaly applies to owning and listen-only connections from off-subnet originators.
Minor Module fault does not get cleared in certain scenarios	In Firmware Revision 1.005, when a network switch connected to the 1732E module was power cycled, controllers were able to remake connections prior to the 1732E module detecting that the Ethernet link was reestablished. This resulted in a Minor Module fault that did not get cleared. Users may see a flashing red Module status LED on the product and a Minor Recoverable Fault on the Module Info tab in RSLogix 5000 or on the device web page.

Corrected Anomalies for Firmware Revision 1.006

Anomaly	Description
Anomalous behavior when using 1732E devices with non-Logix connection originators	In Firmware Revision 1.005, when using 1732E devices with non-Logix connection originators, the connections are configured using the 1732E EDS file and configuration software such as RSNetWorx for EtherNet/IP. The 1732E EDS files specify several connections that are not used by Logix controllers. The following connections do not update their input data: Open - Exclusive Owner, Open - Input Only, and Open - Listen Only.
Anomalous MOD Status LED behavior when IP address switches are used	The IP address switches can be used to select the last octet of the 1732E IP address (192.168.1.xxx, where xxx can be 1...254). In Firmware Revision 1.005, when the switches are used to address the module, the Module status LED flashes red to indicate a minor module fault.
Anomalous NET LED behavior when ethernet link is lost	When the Ethernet link is lost (for example, cable is cut or removed, or link partner disappears), the Network status LED should be Off and the Module status LED should flash red. In Firmware Revision 1.005, the Module status stays green and the Network status LED either continues to flash green (if no connections were present) or flash red (if a connection existed and timed out).
Anomalous LED behavior during NVS update	During an NVS update the Module status LED should flash red. In Firmware Revision 1.005, the Module status LED flashes red while the code is being downloaded but then goes dark toward the end of the update (erase and burn). This could cause confusion and concern to the user. If a user believes that the module is finished or locked up and removes power, the module will be rendered unusable.
Module is unable to maintain a connection via a 1756-EN2T firmware 3.001 build 402500 and later	In Firmware Revision 1.005, the 1732E module is unable to maintain a connection via a 1756-EN2T firmware 3.001 build 402500, and later. Bridges that support QoS populate the DSCP field with a non-zero number. 1732E code was corrected to properly calculate the IP header checksum when it contains non-zero DSCP values.

Additional Resources

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.

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