



8 Axis SERCOS interface Module Firmware v11.7 Release Note

Cat. No. 1756-M08SE

Introduction

This release note corresponds to revision 11.7 of the 8 Axis SERCOS interface™ Module. To use this firmware version, update your system as follows:

Update this software or firmware	Catalog Number:	Firmware/Software Version
Logix5550 Controller	1756-L1, -L1Mx	11
Logix5553 Controller	1756-L53	11
Logix5555 Controller	1756-L55Mx	11
RSLogix 5000 Software		11

Enhancements:

The following enhancements have been made to the firmware:

- 8 Mbaud SERCOS Support.
- High/Low optical power setting of SERCOS ring is enabled. (See corrections.)
- Automatic SERCOS baudrate recognition (Autobaud support).
- System Servo loop delay eliminated. Module does not perform interpolation when:

SERCOS Cycle Time = RSLogix Motion Group Coarse Update Rate

- An Excessive Distortion Error no longer indicates a data error on the SERCOS ring. To avoid nuisance ring breaks during cyclic operation the module no longer reports Excessive Distortion Error. Excessive data errors are indicated with an AT Miss Error. Two consecutive missed AT's or 65535 AT errors since the beginning of CP3 generates an AT Miss Error.

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Corrections

This revision includes the following corrections:

- Fixed issue with not performing NVS recover on module fatal during NVS update procedure. Could result in failure of module to function after NVS update.
- Removed revision string from module name string. Change made to be consistent with ControlLogix family of modules. Module properties tab in RSLinx should be used to read module product code and firmware revision.
- Fixed problem with memory leak that caused the module to display three red status LED's due to a module Fatal error after repeated open and close of connections.
- Eliminated duplicate/conflicting define for axis object revision string.
- The module would get a flashing red status LED indicating a sync fault after system reached CP4. This problem was a result of receiving a sequence count in the synchronous connection that was not equal to one. This limit has been removed from the module.
- Corrected the problem with the Registration Instruction error message 12 occurring when registration was closely followed redefine position or home instruction.
- Corrected Registration Event Armed flag so it no longer indicates that it is armed before the drive registration input is enabled .
- Added new Hard Overtravel fault action to IDN P0103.
- Module keying support upgraded to ASA standard definition.
- The Module now defaults the SERCOS Ring power setting to high. Version 2.xx was setting the SERCOS Ring Power to low.

Restrictions

This revision contains the following restrictions:

- SERCOS interface modules designated “Series B” or higher on the product label are not compatible with any v1.xx firmware release and therefore do not support ControlLogix v.5.02. If you update a module with incompatible firmware, the module becomes inoperable (solid red OK LED). It must be returned to the factory for reprogramming.
- Each drive on the SERCOS ring must have a unique SERCOS address. If two axes have the same address on the same ring, both respond to commanded motion. This could lead to damage to the equipment or product and could result in personal injury.

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For more information refer to our web site: www.ab.com/motion

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