



1771-SDN Series C DeviceNet Scanner Module Firmware

Cat. No. 1771-SDN/C, Revision 6.007

Purpose

These release notes describe enhancements, corrected anomalies and other important information for this revision and previous revisions of the 1771-SDN DeviceNet™ scanner module firmware.

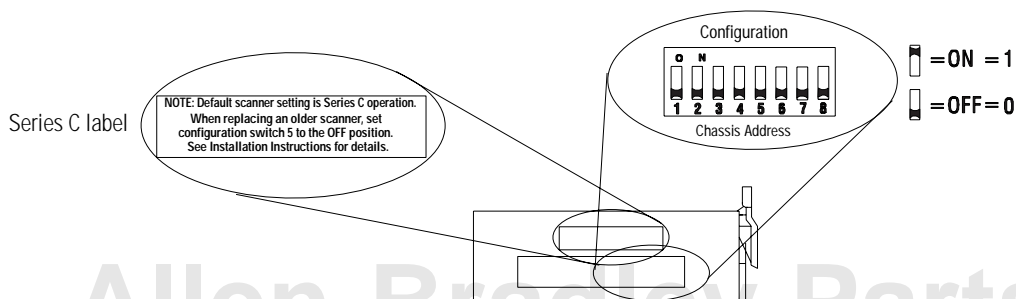
Use this document with the 1771-SDN DeviceNet Scanner Module User Manual, publication 1771-UM118, available online at www.rockwellautomation.com/literature.

What This Document Describes

For Information About:	See page:
Module Compatibility and Maintenance Requirements	1
Electronic Data Sheet Requirement	2
Software Requirement	2
Revision 6.007 Corrected Anomaly	2
Revision 6.006 Corrected Anomaly	2
Revision 6.005 Corrected Anomalies	3
Revision 6.004 Enhancement	3
Revision 6.004 Corrected Anomalies	3
Revision 6.003 Enhancements	3
Revision 6.003 Corrected Anomalies	4

Module Compatibility and Maintenance Requirements

The 1771-SDN/C DeviceNet Scanner Module is fully compatible with the Series A and Series B versions. You can use the Series C version as a spare or replacement module with one requirement: **you must change the position of Switch 5 to the off or “0” position in the Configuration switchbank as shown below:**



Allen-Bradley Parts

Electronic Data Sheet Requirement

To use new features, the scanner module may require the latest EDS file for RSNetWorx for DeviceNet™ software. If the software displays the device as an “unknown device,” you must download the current EDS file. You can get the latest EDS file online at:

<http://www.ab.com/networks/eds>

Once you are at this location:

1. Select `DeviceNet`
2. Enter the catalog number: `1771-SDN`
3. Enter Major Revision: `6`
4. Select `Search`

For more information, contact Rockwell Automation Technical Support at 440.646.3223.

Software Requirement

To use the new features of the 1771-SDN/C module, you must use RSNetWorx for DeviceNet, ver. 3.11 (or later) as your configuration tool.

Revision 6.007

Corrected Anomaly

Previously, when using explicit messaging, the scanner module could not communicate with slave devices that supported class numbers greater than 255. This anomaly has been corrected in this revision.

Revision 6.006

Corrected Anomaly

Previously, the scanner module was only able to store 32K bytes of configuration data per channel despite the specification that 64K bytes per channel was the maximum. This anomaly has been corrected in this revision so that the module supports 64K bytes per channel.

Revision 6.005

Corrected Anomalies

- previously, when a scanned device returned data that was larger than one byte, the scanner module may have mixed current data with older data. When the data was read from the scanner module, the mix of values from a current byte and an older byte may have resulted in data values that were incorrect or out-of-range. This anomaly was corrected in this revision.
- previously, after making a scanlist entry inactive, the node would still appear to be active while the programmable controller was in program mode. An error code of 78 would also appear for the removed node. This anomaly was corrected in this revision.

Revision 6.004

Enhancement

Quick Connect - this feature enables the scanner module to connect to slave devices in less than one second (previously up to 10 seconds). Slave devices must also have Quick Connect functionality. With this revision, this feature is usable through explicit messaging configuration.

Corrected Anomalies

- an explicit message to Block 64 that requested two transactions would return only one. This anomaly was corrected in this revision.
- Discrete Inputs would not work properly in 1/2 slot addressing mode. This anomaly was corrected in this revision.

Revision 6.003

Enhancements

This revision of firmware included the following updates to the DeviceNet Master Library:

Electronic Keying - added to include Major and Minor revision checking.

Shared Inputs - this enables multiple scanner modules to acquire inputs from a specific input device without using separate connections.

Auto Device Replacement (ADR) - consists of Node Recovery and Configuration Recovery:

- **Node Recovery** - this feature causes the node number of the replacement device to be automatically changed to the node number of the original device. The replacement device's node number must be writable over the DeviceNet network and must initially be set to 63.
- **Configuration Recovery** - this feature causes the replacement device's configuration to be made identical to the original device. The replacement device's configuration must be writable over the DeviceNet network. Configuration Recovery files are stored in the master scanner that is communicating with the original device through RSNNetWorx for DeviceNet.

Corrected Anomalies

- the Reset Transaction ID of the Client/Server message would not clear bit 15 of the Module Status Word. This anomaly was corrected in this revision.
- the scanner module could not consistently perform a 57-word Block Transfer Write. This anomaly was corrected in this revision.
- When the programmable controller transitioned from Program to Run mode, the scanner module would not go to Run until a valid Module Command Word was received via a Block Transfer Write. This anomaly was corrected in this revision.

DeviceNet is a trademark of ODVA, Open DeviceNet Vendors Association.
RSNetWorx for DeviceNet is a trademark of Rockwell Automation, Inc.

www.rockwellautomation.com

Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53202-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

Headquarters for Allen-Bradley Products, Rockwell Software Products and Global Manufacturing Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36-BP 3A/B, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 17741

Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 351 6723, Fax: (65) 355 1733