Allen-Bradley 1771-SDN

Complete Product Information

01 Product dashboard

Allen-Bradley 1771-SDN is a two-channel DeviceNet scanner for a compatible PLC-5 and 1771 I/O installation. The photographed unit is Series B, firmware revision G.

Identity	Position	Evidence
Allen-Bradley 1771-SDN	PLC-5 / 1771 DeviceNet	Rockwell Automation 1771-SDN DeviceNet Scanner Module Installation Instructions, 1771-IN014B-EN-P; offered 1771-SDN Series B nameplate

System context

This scanner bridges two DeviceNet networks to the PLC-5 through a 1771 I/O chassis; the pictured unit carries a Series B nameplate.

The 1771-SDN provides two DeviceNet channel connections. It exchanges field I/O information with the PLC through the 1771 backplane and requires a configured DeviceNet scan list and matching PLC logic. Treat the two channel networks independently when recording node addresses, data rates, trunk power and device configuration; the scanner is not itself a replacement for field network power.

02 Technical capability map

Catalog number	1771-SDN
Offered unit series	Series B
Offered firmware marking	Revision G
Function	Two-channel DeviceNet scanner
Processor interface	PLC-5 / 1771 backplane
Backplane supply	5 V DC
Backplane current	1.2 A at 5 V DC, nameplate
DeviceNet power limit	25 V DC maximum, nameplate
DeviceNet draw	90 mA maximum per channel, nameplate
Network connectors	Two DeviceNet channel connections
Chassis family	Compatible 1771 I/O chassis
Replacement boundary	Series C uses a B-compatibility switch setting

03 Applications and compatibility

Application	Engineering relationship
Dual network scanning	Use the two scanner channels for separately configured DeviceNet networks.
Mapped field I/O	Exchange configured field-device input and output data with PLC-5 logic through the chassis backplane.
Installed-base service	Retain the Series B node, rate, scan-list and block-transfer settings when replacing the photographed unit.
Series C replacement	Use Rockwell's compatibility-switch procedure before substituting a Series C scanner for Series B.

Compatibility boundary

The pictured 1771-SDN is Series B, firmware G; a Series C spare requires its documented earlier-series compatibility setting.

The offered label states CAT. NO. 1771-SDN, SERIES B and FIRMWARE REV. G. It specifies 1.2 A from the 5 V DC backplane, with DeviceNet power no higher than 25 V DC and a maximum 90 mA draw for each channel. These are the pictured Series B values; do not substitute the lower Series C backplane figure from a later manual.

04 Engineering decisions and precautions

Decision	Required check
Isolate the chassis	Follow the machine and chassis isolation procedure before removing the scanner.
Check nameplate	Confirm Series B and firmware G on the offered unit; record the installed revision.
Budget backplane power	Allow 1.2 A at 5 V DC for the photographed Series B unit.
Check network supply	Keep DeviceNet power within the nameplate maximum of 25 V DC.
Restore both channels	Record both sets of network addresses, rates, cabling and scan lists before exchange.
Prove PLC communication	Test both channel status displays and PLC I/O data after commissioning.

Question	Answer
What is the function of Allen-Bradley 1771-SDN?	It is a two-channel DeviceNet scanner that exchanges configured field I/O data with a compatible PLC-5 system through a 1771 chassis.
Which series is shown on the offered Allen-Bradley 1771-SDN label?	The photographed unit is marked Series B, firmware revision G.
How many DeviceNet channels does Allen-Bradley 1771-SDN have?	The offered scanner has two DeviceNet channel connections, each requiring its own network settings and checks.

05 Lifecycle and offered unit

1771-SDN Series B	A current manufacturing and support phase for the complete Series B execution is unconfirmed.
Support and replacement	Rockwell documents a Series C replacement path requiring the earlier-series compatibility switch setting. Preserve the Series B application configuration and verify the available revision before substitution.
Availability	Apter Power quoted availability is separate from the manufacturer lifecycle phase.

Condition	New, original product
Exact identity	The photographed label reads CAT. NO. 1771-SDN, SERIES B, FIRMWARE REV. G, part marking 96225675 A01. Confirm the supplied label against the quotation.
Included items	Confirm the Series B scanner and both DeviceNet connectors; chassis, network power and field cabling are separately specified.

Technical source

Rockwell Automation 1771-SDN DeviceNet Scanner Module Installation Instructions, 1771-IN014B-EN-P; offered 1771-SDN Series B nameplate

Discuss the complete reference

Allen-Bradley 1771-SDN

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