



AB Allen-Bradley
DeviceNet™ Scanner for
MicroLogix™ 1500 and
CompactLogix™

Product Profile

The 1769-SDN DeviceNet scanner is a new component of a comprehensive control strategy for DeviceNet applications. The 1769-SDN provides a low cost yet high performance control solution using either a MicroLogix 1500 or CompactLogix controller as DeviceNet masters, slaves, or as peer devices.

The 1769-SDN provides standard DeviceNet master functionality, as well as several new performance and ease-of-use features. Customers can now message between devices using one of two methods (described below, PCCC and Explicit messaging), and perform program upload, download, and monitoring through the scanner.

Feature	Benefit
DeviceNet Master	Own up to 180 input and 180 output words of data from up to 63 network slave devices. Full support of COS (change-of-state), Cyclic, Polled or Strobed services.
DeviceNet Slave	Up to 32 input and 32 output words of data within the 1769-SDN may be owned by another master. The 1769-SDN can simultaneously operate as a master and a slave device on DeviceNet.
PCCC Messaging	Allows the MicroLogix control program to initiate or receive standard messages on the DeviceNet network. Compatible devices: other controllers using the 1769-SDN or 1761-NET-DNI communications interface.
Explicit Messaging	Allows native DeviceNet get/set messages to be easily sent from the MicroLogix control program to any DeviceNet product on the network.
Easy Configuration	The 1769-SDN is completely supported by the RSNetworkx™ configuration tool. RSNetworkx is the most versatile and powerful DeviceNet configuration tool available.



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Feature	Benefit
Program upload/download	Using RSLogix™ 500 with a number of DeviceNet interfaces (1770-KFD, 1784-PCD, 1784-PCIDS), users can now perform program upload/download and control program monitoring over DeviceNet. This allows multiple controllers to be managed from one network location. This also frees the comm port(s) on your MicroLogix 1500 controller for other uses, including operator devices, bar code readers, weight scales, printers, etc.
1769 Compact™ I/O Compatibility	1769 I/O is the latest PLC-style modular I/O platform from Rockwell Automation. Its performance, size, and versatility make it a great choice as either local I/O for CompactLogix controllers, expansion I/O for MicroLogix 1500, or distributed I/O on DeviceNet.

Technical Data		
Feature	Y/N	Comment
Peer to Peer Messaging	Yes	
Explicit Messaging	Yes	
UCMM	Yes	
Configuration Consistency Value	No	Slave Only
Deferred Delete	Yes	Slave Only
Faulted Node Recovery	No	Slave Only
DeviceNet Auto-Baud	No	
Flash Upgradeable	Yes	
Baud Rate	All	125K, 250K, 500K
Master/Scanner	Yes	
I/O Slave	Yes	(Polled, Cyclic, COS)
Flat cable compatible	Yes	
Configuration tool	Yes	RSNetworkx
Standards		IEC801-2, 3, 4, 5, 6
Weight		
Temperature (operation/storage)		0 to 60° C / -40 to 85° C
Operating Humidity		55% to 95% non-condensing
Standards and Regulatory Approval		UL, C-UL, CE Class I Div 2

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