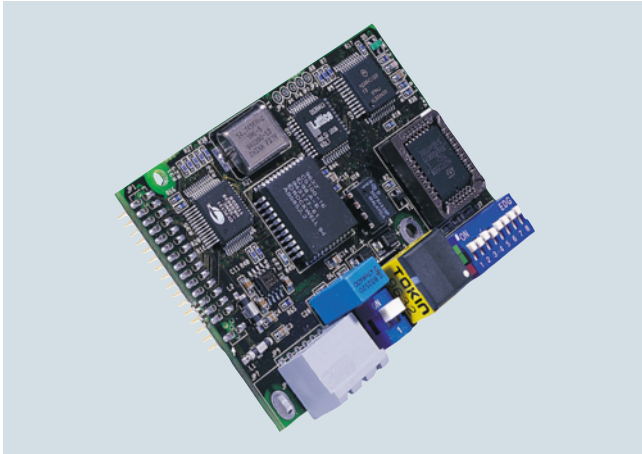


### Overview



SmartLinx modules provide direct digital connection to popular industrial communications buses with true plug-and-play compatibility with products manufactured by Siemens.

### Benefits

- Fast, easy installation
- Direct connection: no additional installation required
- Scalable application layer allows for optimized network bandwidth and memory requirements
- Modules available for PROFIBUS DP, Allen-Bradley Remote I/O and DeviceNet™, Modbus RTU

Modbus is a registered trademark of Schneider Electric.  
Allen-Bradley is a registered trademark of Rockwell Automation  
™DeviceNet is a trademark of Open DeviceNet Vendor Association

### Application

Many Siemens products include HART, PROFIBUS PA and Modbus communications. For additional communication modules, SmartLinx cards are the answer.

They're fast and easy to install, and can be added at any time. The module simply plugs into the socket on any SmartLinx-enabled product. They require no secondary private buses or gateways and no separate wiring. There are no extra boxes to connect to your network so there's a minimum load on engineering and maintenance staff.

SmartLinx provides all data from the instrument, including measurement and status, and allows changes to operation parameters to be done over the bus or telemetry link. The user can select which data in the application layer to transfer over the bus. This selection saves bandwidth and memory and optimizes data throughput and speeds up the network, enabling you to connect more instruments to your network.

### Technical specifications

Module type	Allen Bradley Remote I/O
• Interface	RIO
• Transmission rate	57.6, 115.2 or 230.4 Kbaud
• Rack address	1 ... 73, ¼ to full rack
• Connection	RIO slave
• SmartLinx module compatibility	<ul style="list-style-type: none"> <li>• MultiRanger 100/200</li> <li>• HydroRanger 200</li> </ul>

Module type	PROFIBUS DP
• Interface	RS 485 (PROFIBUS standard)
• Transmission rate	All valid PROFIBUS DP rates from 9 600 Kbps to 12 Mbps
• Rack address	0 ... 99
• Connection	Slave
• SmartLinx module compatibility	<ul style="list-style-type: none"> <li>• MultiRanger 100/200</li> <li>• HydroRanger 200</li> </ul>

Module type	Modbus RTU
• Interface	RS 232 or RS 485
• Transmission rate in bps	1 200, 2 400, 4 800, 9 600, 19 200, 38 400
• Rack address	1 ... 247
• Connection	Slave
• SmartLinx module compatibility	Included with product: <ul style="list-style-type: none"> <li>• MultiRanger 100/200</li> <li>• HydroRanger 200</li> </ul>

Module type	DeviceNet
• Interface	DeviceNet physical layer
• Transmission rate in kbps	125, 250, 500
• Rack address	0 ... 63
• Connection	Slave (group 2)
• SmartLinx module compatibility	<ul style="list-style-type: none"> <li>• MultiRanger 100/200</li> <li>• HydroRanger 200</li> </ul>

# Level measurement

## Communication

### SmartLinx module

Selection and Ordering data	Article No.
<b>SmartLinx module for MultiRanger 100/200 and HydroRanger 200</b>	
Allen-Bradley Remote I/O module	<b>7ML1830-1HS</b>
PROFIBUS DP module	<b>7ML1830-1HR</b>
DeviceNet module	<b>7ML1830-1HT</b>
<i>Operating Instructions</i>	
Allen-Bradley Remote I/O communications module, English	<b>7ML1998-1AP03</b>
PROFIBUS communications module	
• English	<b>7ML1998-1AQ03</b>
• French	<b>7ML1998-1AQ13</b>
• German	<b>7ML1998-1AQ33</b>
DeviceNet	<b>7ML1998-1BH02</b>
This device is shipped with the Siemens Milltronics manual DVD containing Quick Starts and Operating Instructions.	
• English	<b>7ML1998-1BH02</b>
• French	<b>7ML1998-1BH12</b>
<i>Spare SmartLinx software</i>	
Allen-Bradley data diskette	<b>7ML1830-1CK</b>
PROFIBUS DP data diskette	<b>7ML1830-1CL</b>
DeviceNet data diskette	<b>7ML1830-1CM</b>