

## EtherNet/IP™ Client/Server to BACnet/IP Client Edition 2 Gateway 5201-DFNT-BACNET

The ProLinx<sup>®</sup> EtherNet/IP Client/Server to BACnet/IP Client Edition 2 gateway creates a powerful connection between devices on an EtherNet/IP network and BACnet<sup>®</sup> devices. This stand-alone, DIN-rail-mounted, dual-protocol gateway works through a single Ethernet port.

The EtherNet/IP protocol supports the Explicit Messaging implementation of the protocol. User-configurable as both a Client and a server, the EtherNet/IP port is a very powerful data transfer tool.

The ProLinx BACnet/IP (Building Automation and Control networking) Client Edition 2 protocol implementation is designed specifically to meet the communication needs of building automation and control systems by providing limited BACnet/IP command support for such applications as heating, ventilating, and air-conditioning control, lighting control, access control, and fire detection systems.



Features	Benefits
Powerful network integration	<ul style="list-style-type: none"> <li>Allows movement of data between dissimilar networks using two communication protocols on one gateway</li> <li>Protocols share access to a common memory database to exchange data between networks</li> <li>View diagnostic data for both networks from a single configuration/debug port</li> </ul>
EtherNet/IP Client and server	<ul style="list-style-type: none"> <li>Integrate with widely available Rockwell Automation and 3rd party products and services worldwide</li> <li>Client/server Explicit Messaging communication supported</li> <li>5 simultaneous server connections</li> <li>3 simultaneous Client connections supporting 100 communication commands per Client</li> </ul>
BACnet/IP Client Edition 2	<ul style="list-style-type: none"> <li>Standard protocol for Building Automation and Control limited to Analog and Digital I/O commands</li> <li>Communicate with Building Automation controllers, HVAC, Fire and Safety equipment</li> <li>Support for Trane Building Control Unit (BCU)</li> </ul>
Backed by ProSoft Technology	<ul style="list-style-type: none"> <li>20-year history of delivering high-quality, reliable solutions designed with you in mind</li> <li>Free, unlimited, worldwide Technical Support by phone for pre-sale, set-up, or troubleshooting support helps you get going sooner and stay running longer</li> <li>Three-Year Warranty ensures reliability and protects against equipment failures</li> <li>Free ProSoft Software tools tightly integrate with our hardware...a simple and quick, total solution to help you make our products fit your applications</li> </ul>

### Configuration

ProSoft Configuration Builder (PCB) provides a PC-based software configuration solution for quick and easy management of gateway configuration files, as well as viewing communication and network diagnostics.

PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations into new projects.

## General Specifications - ProLinX

ProLinX® communication gateways provide connectivity for two or more dissimilar network types. The gateways, enclosed in sturdy extruded aluminum, are stand-alone, DIN-rail-mounted solutions that provide data transfer between many of today's most widely used industrial automation protocols.

## Functional Specifications

### EtherNet/IP™ Server

In server mode, the gateway accepts commands from one or more Clients to read/write data stored in the gateway's internal registers.

Supported PLC Types	PLC2, PLC5, SLC and ControlLogix file types supported
Internal Database	Data Table File Size: 100 or 1000 words Data Table File Start: N10 to N109 (based on file size set to 100) or N10 to N19 (based on file set to 1000)
CIP Services Supported	0x4C - CIP Data Table Read 0x4D - CIP Data Table Write

### EtherNet/IP Client

In Client mode, the gateway controls the read/write data transfer between the gateway and other EtherNet/IP devices.

Command List	Support for 100 commands per Client, each configurable for command type, IP address, register to/from addressing and word/bit count.
Polling of Command List	User-configurable polling of commands, including disabled, continuous and on change of data (write only).
Other Configurable Parameters	Number of Commands (up to 100 per Client) Min Command Delay Response Timeout Retry Count Command Error Pointer

### Functional Specifications - BACnet/IP Client Edition 2

General	One UDP Client
Command List	Support for 100 commands, each configurable for function code, IP address, register to/from addressing and word/bit count
Service Port	1 to 65535
Function Code	12=Read Single Property 14=Read Multiple Properties 15=Write Single Property 16=Write Multiple Properties
Data Type	0=Analog Input 1=Analog Output 2=Analog Value (Edition 2 only) 3=Binary Input 4=Binary Output 5=Binary Value (Edition 2 only)
Point Count	1 to 25



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## Hardware Specifications

Specification	Description
Power Supply	24 Vdc nominal 18 Vdc to 32 Vdc allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade
Current Load	500 mA maximum @ 32 Vdc maximum
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Relative Humidity	5% to 95% (with no condensation)
Dimensions (Height x Width x Depth)	Standard: 5.20 in x 2.07 in x 4.52 in (13.2 cm x 5.25 cm x 11.48 cm) Extended: 5.20 in x 2.73 in x 4.52 in (13.2 cm x 6.934 cm x 11.48 cm)
LED Indicators (On all gateways)	Power and Hardware Fault Configuration and Application Communication Status Serial Configuration Port Activity and Error
Configuration Serial Port	DB-9M RS-232 only No hardware handshaking
Ethernet Port (Ethernet protocol gateways only)	10 Base-T half-duplex RJ45 Connector Link LED and Activity LED indicators Electrical Isolation 1500 Vrms at 50 Hz to 60 Hz for 60 seconds, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Application Serial Port(s) (Serial protocol gateways only)	RS-232/422/485 RS-232 handshaking configurable RS-422/485 DB-9 to Screw Terminal Adapter <b>Note:</b> The number of serial application ports depends on the gateway type, and the combination of protocols.
Serial Port Isolation	2500 Vrms port signal isolation per UL 1577 3000 Vdc min. isolation port to ground and port to logic
Shipped with Each Unit	Mini-DIN to DB-9M serial cables 4-foot RS-232 configuration cable 2.5 mm screwdriver CD (docs and configuration utility) RS-422/485 DB-9 to Screw Terminal Adapter for each serial application port (serial protocols only)

## Agency Approvals and Certifications

ATEX	EN 50021: April 1999
CE	IEC 1131-2:1, EN60950:2000, EN55011:1998, Class A, EN61000-6-2:1998, EN50021:1999
cULus	UL 1604, EN 60950



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## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

For a complete list of products, visit our web site at:  
[www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

### EtherNet/IP Client/Server to BACnet/IP Client Edition 2 Gateway

5201-DFNT-BACNET

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:  
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