



DATASHEET

ASCII Generic Serial to BACnet/IP Gateway 5201-BACnet-ASCII

The ProLinx® BACnet™/IP (Building Automation and Control networking) 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 polling data from BACnet/IP chiller panels made by various manufacturers.

The ProLinx ASCII Generic Serial to BACnet/IP Client gateway creates a powerful connection between devices on an ASCII network and BACnet devices. This stand-alone, DIN-rail-mounted, dual-protocol gateway works through a single Ethernet port.

The ASCII protocol permits the module to interface to many ASCII devices such as ASCII display panels. The ASCII port on the module is configurable to send and/or receive ASCII strings on a serial network.



Features	Benefits
Powerful network integration	<ul style="list-style-type: none">◆ Move data between dissimilar networks using two communication protocols on one gateway◆ Protocols share access to a common memory database to exchange data between networks◆ View diagnostic data for both networks from a single configuration/debug port
BACnet/IP Client	<ul style="list-style-type: none">◆ Standard protocol for Building Automation and Control limited to Analog and Digital I/O commands◆ Communicate with Building Automation controllers, HVAC, Fire and Safety equipment◆ Support for Trane® Building Control Unit (BCU)
Generic ASCII Serial protocol interface	<ul style="list-style-type: none">◆ The ASCII driver provides a powerful connection between the internal application database in the ProLinx unit and devices supporting serial ASCII communications (bar code scanners, line printers, legacy terminal based computer systems, etc)
Backed by ProSoft Technology	<ul style="list-style-type: none">◆ 20-year history of delivering high-quality, reliable solutions designed with you in mind◆ Free, unlimited, worldwide Technical Support by phone for pre-sale, set-up, or troubleshooting support helps you get going sooner and stay running longer◆ Three-Year Warranty ensures reliability and protects against equipment failures◆ Free ProSoft Software tools tightly integrate with our hardware...a simple and quick, total solution to help you make our products fit your applications

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 to new projects.



General Specifications - ProLinX

ProLinX[®] Communication gateways provide connectivity for two or more dissimilar network types. The gateway, 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.

General Specifications - BACnet/IP Client

- The BACnet[™] driver provides a single UDP Client to interface with one or more devices that contain BACnet/IP servers.
- The ProLinX BACnet/IP driver implements a limited subset of the BACnet/IP protocol.
- The module controls the read/write data transfer between the gateway and other BACnet/IP devices.

General Specifications - ASCII

The serial port on the gateway is user-configurable to support ASCII communications (baud rate, data bits, stop bits, etc). The ASCII port can act as a Master (sends ASCII strings) or as a slave (receives ASCII strings), or both.

Functional Specifications - BACnet/IP Client

General	One UDP Client
Command List	Support for 100 commands, each configurable for command, 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 3=Binary Input 4=Binary Output
Point Count	1 to 25

Functional Specifications - ASCII

ASCII Specifications

Ports (Number of ports varies by gateway model)	Available in up to four port configurations to receive and/or transmit data
Transmit and Receive buffer size	255 bytes each
Transmit character with pacing	0 to 65535 millisecond delay between each transmitted character



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Hardware Specifications

Specification	Description
Power Supply	24 Vdc nominal 18 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% (without 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)	10Base-T half-duplex RJ45 Connector Link LED and Activity LED indicators Electrical Isolation 1500 Vrms at 50 Hz to 60 Hz for 60 s, 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 Note: 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 2.5mm 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 & Certifications

cULus ISA 12.12.01 Class I, Div 2 Groups A, B, C, D

cULus C22.2 No. 213-M1987



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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.

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Ordering Information

To order this product, please use the following:

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5201-BACnet-ASCII

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