



'C' Programmable over Ethernet Gateway 5201/5202-ADMNET(4)

The ProLinX Application Development Modules are the ideal solution for developing custom communication between your serial protocol networks and Ethernet devices. Using the provided API, the module can be used as a bridge, a port splitter, or any of several other useful applications. All application ports are individually programmable.

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All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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'C' Programmable over Ethernet Gateway

5201/5202-ADMNET(4)

The ProLinX 'C' Programmable Gateway with Ethernet provides a powerful platform for bridging communications between your custom serial and Ethernet protocols. This stand-alone DIN-rail mounted protocol gateway provides either one or four fully programmable serial ports. The module provides one (ADMNET) or four (ADMNET4) serial ports, each individually configurable.

ADMNET

The ADM API Suite is provided to allow software developers access to the top layer of the serial ports. The ADMNET API suite accesses the Ethernet port.

Both APIs can be easily used without having detailed knowledge of the module's hardware design. The ADMNET API Suite consists of the Ethernet Port API. The Ethernet Port API provides access to the Ethernet network. Applications for the ADMNET module may be developed using industry-standard DOS programming tools and the appropriate API components.

General Protocol Specifications

- Allows software developers to access Serial/Ethernet ports without needing detailed knowledge of the module's hardware design
- API library functions are specified using the C programming language syntax
- Supports multi-threaded applications
- The following compiler versions are compatible with the MVI module API:
 - DigitalMars C++ V8.49 (included)
 - Borland C++ V5.02
- Operating System – General software DOS 6-XL
- Flash ROM program space: 896 KB
- RAM program and data space: 640 KB
- Compact Flash socket: Up to 64 MB

ADM API Libraries

Each API provides a library of function calls. This library supports any programming language that is compatible with the Pascal calling convention.

- Initialization – Open and close the API
- Debug Port – Debug port user interface
- Database – Read and write data to database

- Timer – Start and check timers
- Backplane – Transfer data over the backplane
- LED – Set user LED indicators
- Flash – Parse configuration files
- Miscellaneous – Configure the console

General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 18 to 36 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade
Current Load	500 mA max@ 24 VDC
Operating Temperature	-20 to 50°C (-4 to 122°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)
Dimensions	Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD)
LED Indicators	Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status
Configuration Serial Port	DB-9M RS-232 only No hardware handshaking
Ethernet Port (Ethernet modules only)	RJ45 Connector Link and Activity LED indicators
Application Serial Ports	RS-232/422/485 RS-232 handshaking configurable RS-422/485 screw termination included
Serial Port Isolation	2500V RMS port signal isolation per UL 1577 3000V DC min. port to ground and port to logic power isolation
Shipped with Each Unit	Mini-DIN to DB-9M serial cables 4 ft RS-232 configuration cable 2.5mm screwdriver CD (docs and Configuration utility) RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports)

Additional Products

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

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

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