



Modbus TCP/IP to BOSCH Packaging Machinery Gateway

5201/5202-MNET-BSCH(4)

The ProLinX Modbus TCP/IP to BOSCH Packaging Machinery Gateway creates a powerful connection between devices on an EtherNet/IP network and BOSCH packaging machinery. The module provides a single Ethernet port and up to four BOSCH configurable serial ports.

The Modbus TCP/IP protocol driver can interface many different protocols into Schneider Electric Quantum processors as well other solutions supporting the protocol. The MNET driver supports Client and Server connections, and when coupled with the Web option provides a web/ftp interface as well.

The BOSCH Master protocol driver supports Master implementations of the protocol on up to four ports. Each of the ports is individually configurable.

Modbus TCP/IP

The Modbus TCP/IP driver interfaces with a common internal database in the module. This permits the sharing of data between the Modbus TCP/IP and other networks and devices.

Modbus TCP/IP Server

General	Server supports up to 5 independent connections each to Modbus TCP/IP clients on Service Port 502 using the standard MBAP protocol, and Service Port 2000.
Configurable Parameters	Module IP Address Modbus address offsetting

Modbus TCP/IP Client

General	Actively reads and writes data with Modbus TCP/IP compatible devices. One client connection (up to 100 servers/devices with 100 commands)
Configurable parameters	Number of active commands, Min Command Delay, Response Timeout, Retry Count, Command Error Pointer
Command List	Up to 100 fully configurable commands on the Client port

BOSCH Packaging Machinery

The BOSCH Master driver provides extensive support for Master implementations of the protocol. The serial port on the gateway is user-configurable to support the BOSCH protocol (Master, Error Checking, Baud rate, etc).

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The MNET-BSCH modules are the ideal solution for the many applications where Modbus TCP/IP connectivity can be used to integrate BOSCH Packaging Machinery devices into a system. The Modbus TCP/IP gateway in combination with the BOSCH Packaging Machinery device support, provides a very powerful interface to the many BOSCH devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

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General Parameters

Type	Specifications
Internal Database	4000 registers (words) available
BOSCH Modes	Full-Duplex
Error Checking	BCC

BOSCH Master Driver

Type	Specifications
General	Full-Duplex, Point to Point
Configurable Parameters per Master port	Min Command Delay, Number of Commands, Response Timeout, Retry Count, Slave List Error Pointer
BOSCH Commands supported	0x00 Protected Write 0x01 Unprotected Read
Command List	Up to 100 command per master port, each fully configurable for function, slave address, register to/from addressing and word/bit count
Status Data	Error codes available on an individual command basis. In addition, a slave status list is maintained per active master port.
Polling of command list	User configurable polling of commands, including disabled, continuous and on change of data (write only)

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



Specification	Description
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)

ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. 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.

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.

Ordering Information

To order this product, please use the following:

5201-MNET-BSCH Modbus TCP/IP to
5202-MNET-BSCH4 BOSCH Packaging Machinery Gateway

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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