EtherNet/IP to BOSCH Packaging Machinery Gateway

5201/5202-DFNT-BSCH(4)

The EtherNet/IP protocol is one of the primary connectivity tools to the different Rockwell Automation platforms. The Explicit Messaging aspect of the protocol (only) has been implemented in the ProLinx units to provide the data transfer link between the ProLinx units and the Rockwell Automation hardware. (Implicit Messaging (I/O communications) is not supported). 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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EtherNet/IP to BOSCH Packaging Machinery Gateway

5201/5202-DFNT-BSCH(4)

The ProLinx EtherNet/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 Ethernet/IP protocol driver 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 BOSCH Master protocol driver supports Master implementations of the protocol on up to four ports. Each of the ports is individually configurable.

EtherNet/IP

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General Protocol Information	
Messaging	PCCC on CIP Explicit Messaging supported
Miscellaneous	125 word read and write data lengths Floating point data supported

EtherNet/IP Server Specifications

In Server mode, the module accepts commands from one or more clients to read/write data stored in the module's internal registers.

EtherNet/IP Server Specifications	
Connections	Five independent TCP server sockets permit remote clients to interact with all data contained in the module.
Data File	Data Table File Start – Fixed at N10 Data Table File Size – 100 or 1000 words
CIP Services Supported	0x4C – CIP Data Table Read 0x4D – CIP Data Table Write

EtherNet/IP Client Specifications

In Client mode, the module controls the read/write data transfer between the gateway and other EtherNet/IP devices. Data transfer can be initiated and executed without any ladder programming being required in the Rockwell Automation hardware.

EtherNet/IP Client Specifications	
General	One client
Command List	Support for 100 commands, each configurable for command, IP address, register to/from addressing and word/bit count.

EtherNet/IP Client Specifications

Polling of command list	User configurable polling of commands, including disabled, continuous and on change of data (write only).

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).

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)

Specification	Description
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)

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-DFNT-BSCH   EtherNet/IP to BOSCH Packaging
5202-DFNT-BSCH4   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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