



Bosch Communication I/O Module

MVI94-BSCH

The MVI94 Bosch Communication I/O Module is used to interface Bosch SVB/SVK compatible slave devices (Robert Bosch Corporation's line of packaging machinery) with the Flex I/O system.

The module contains a database that is defined by the user. This database is used for the request and command messages sent from the Bosch master port to Bosch slave devices. Data areas in the database can be reserved for status and error information generated by the module under user control.

Features and Benefits

A Bosch master port is present on the Communication Module to continuously poll Bosch slave devices. Up to 100 user-defined commands can be defined for the port. Data read from Bosch slave devices are placed in the database. Any write requests for the Bosch slave devices are sourced with data from the database.

Commands can be activated in the module under processor control. This feature permits the processor to issue a command in the command list under program control. When a command is activated, it will be placed in the command queue for immediate execution. Normal command polling will begin after the command queue is completely processed.

The module provides a configuration/debug port for use with an external computer executing a terminal server program. The terminal server program provided with the module permits uploading and downloading of the configuration information required by the module. Additionally, the configuration/debug port provides a view into the database, communication statistics and the configuration.

General Specifications

Some of the general specifications include:

- Operation via simple ladder logic
- Complete setup and monitoring of module through Debug port and user configuration file
- Flex backplane interface via I/O access

Bosch Communication I/O Module MVI94-BSCH

The MVI94-BSCH Communication Module interfaces Bosch SVB/SVK compatible slave devices (Robert Bosch Corporation's line of packaging machinery) with the Flex I/O system. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

How to Contact Us: Sales and Support

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Hardware Specifications

Specification	Description
Form Factor	Single Slot 1794 Backplane compatible Locate in any slot of Backplane
Backplane current load	20 mA @ 5 V
External power supply	12V to 24VDC 340 mA to 170 mA
Operating temperature	0 to 55°C (32 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Shock	30g operational 50g non-operational 5g from 10150 Hz
Relative humidity	5 to 95% (non-condensing)
LED indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Configuration Serial port (PRT1)	Mini-DIN RS-232 Hardware handshaking
Application serial Port (PRT2)	Mini-DIN RS-232/422/485 jumper selectable 500V optical isolation from backplane
Dimensions (with Module installed in Base)	3.7H x 3.7W x 2.7D inches 94H x 94W x 69D mm

Functional Specifications

Parameter	Description
General Parameters (Software Configurable)	
Internal Database	4000 registers (words) available
Communication parameters	Local Station ID: 0 to 255 Port 0 Baud Rate: 110 to 115.2K baud Port 1,2,3 Baud Rate: 110 to 115K baud Stop Bits: 1 or 2 Data Size: 7 or 8 bits Parity: None, Even, Odd RTS Timing delays: 0 to 65535 ms
BOSCH Modes	Full-Duplex
Error Checking	BCC

Type	Specifications
BOSCH Master Driver	
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

Type	Specifications
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)

Additional Products

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

Compatible products include:

ProLinx 5201-MNET-BSCH Modbus TCP/IP to Bosch Gateway

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:

MVI94-BSCH Bosch Communication I/O Module

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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January 29, 2007