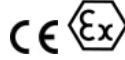




Class 1, Division 2, Groups A, B, C, and D Hazardous Locations.



Siemens 3964R Protocol Communication Module

MVI56-S3964R

The MVI56 S3964R Protocol module from ProSoft Technology allows point-to-point communication between a ControlLogix processor (1756-L1, -L1Mx, L55, L6x) and a partner with 3964R communication capability.

Features and Benefits

The 3964R protocol (with or without RK512) was designed by Siemens for bi-directional data communication through a point-to-point connection. It is a peer to peer protocol with read and write access. A BCC checksum ensures the safety of the transfer.

General Specifications

- Single Slot - 1756 backplane compatible
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included
- Local or remote rack

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 V DC 3mA @ 24V DC
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Shock	30g Operational 50g non-operational
	Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5% to 95% (non-condensing)
LED Indicators	Module Status Backplane Transfer Status Application Status Serial Activity
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only

Siemens 3964R Protocol Communication Module MVI56-S3964R

The module is ideal in control configurations where there is a need for the ControlLogix processor to exchange data with other non-Rockwell Automation control devices in low speed applications.

The MVI56-S3964R can communicate with devices using two RS-232, RS-422 communication lines (ports). The ports operate independently from each other.

How to Contact Us: Sales and Support

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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Languages spoken include: Spanish, English

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Languages spoken include: Portuguese, English

Specification	Description
Application ports (PRT1 & PRT2)	
Full hardware handshaking control, providing radio, modem and multi-drop support	
Software configurable communication parameters	Baud rate: 110 to 115,200 baud, depending on protocol RS-232 and 422 Parity: none, odd or even Data bits: 5, 6, 7, or 8 Stop bits: 1 or 2 RTS on/off delay: 0 to 65535 milliseconds
App Ports (P1,P2) (Serial modules)	RJ45 (DB-9M with supplied cable) RS-232 handshaking configurable 500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable

Functional Specifications

- Single-slot, ControlLogix backplane compatible
- Multiple modules can be placed in a rack up to the chassis power supply limit
- While in 3964R with RK512 mode on PRT1 and PRT2, DB-SEND and DB-FETCH instructions can be initiated from the ControlLogix processor or received by the communications partner
- While in 3964R without RK512 mode on PRT1 and PRT2, data can be sent from the ControlLogix processor or be received from the communications partner
- The maximum transfer size is 512 bytes in any mode
- Data byte swapping can be configured to adjust to a different word format
- While in 3964R with RK512 mode on PRT1 and PRT2, evaluation of the header information DB (data block), DW (data word) and coordination bytes 9 and 10 is possible
- Communication activity and diagnostics are available through LEDs and acknowledgment telegrams

Ladder Logic

Ladder logic programming in the ControlLogix processor is required in order to enable and support the Siemens 3964R protocol functionality. The ladder program handles the encoding/decoding of data transferred from the module as well as the initiation of protocol-specific functionality in the module. Example ladder programs are provided with the module to simplify the implementation of the module in the user application.

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:

MVI56-S3964R Siemens 3964R Protocol Communication 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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