



Siemens 3964R Protocol Communication Module

MVI69-S3964R

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

The MVI69-S3964R can communicate with devices using two RS-232, RS-422 communication lines (ports). The ports operate independently from each other.

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Siemens 3964R Protocol Communication Module

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The MVI69-S3964R module from ProSoft Technology allows point-to-point communication between a CompactLogix processor and a partner with 3964R (with or without RK512) communication capability.

Features and Benefits

The 3964R protocol 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 integrity of the transfer.

General Specifications

- Single Slot - 1769 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.
- Supports CompactLogix and MicroLogix 1500 LRP Controllers except 1769-L23E-QBFC1B, 1769-L16x, and 1769-L18x

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	800 mA max@ 5 VDC Power supply distance rating of 2
Operating Temp.	0 to 60°C (32 to 140°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
LED Indicators	Battery and Module Status Application Status Serial Port Activity CFG Port Activity
CFG Port (CFG)	RJ45 (DB-9F with supplied cable) RS-232 only No hardware handshaking

6-foot RS-232 configuration Cable

- Single-slot, CompactLogix I/O 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 CompactLogix processor or received by the communications partner
- While in 3964R without RK512 mode on PRT1 and PRT2, data can be sent from the CompactLogix 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 programming in the CompactLogix 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 ease the implementation of the module in the user application.

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