DATASHEET

Siemens 3964R Protocol Communication Module
MVI56-S3964R

The MVI56-S3964R module from ProSoft Technology allows point-to-point communication between a ControlLogix processor and a partner with 3964R (with or without RK512) communication capability.

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.

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

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 Vdc
	3 mA @ 24 Vdc
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Shock	30 g operational
	50 g non-operational
	Vibration: 5 g from 10 Hz to 150 Hz
Relative Humidity	5% to 95% (without condensation)
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
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, 485 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

Agency Approvals & Certifications

Please visit our website: www.prosoft-technology.com

Ordering Information