



DH-485 Communication Module for Remote Chassis

MVI56-DH485R

The MVI56 DH-485 Communication Module for Remote Chassis allows Rockwell Automation ControlLogix I/O compatible processors to interface easily with other DH-485 protocol compatible devices. Compatible devices include not only Rockwell Automation PLCs (which support the DH-485 protocol) but also a wide assortment of end devices.

This module uses a small I/O data area for data transfer between the module and the ControlLogix processor, making it ideal for ControlNet or Ethernet applications with the module in a remote rack.

Features and Benefits

The MVI56-DH485R module actively issues DH-485 commands to other nodes on the DH-485 network. One hundred user-defined commands are supported by the module on each port. The ControlLogix processor can be programmed to control the activity on the port by actively enabling or disabling each command directly from the ladder logic.

The module also accepts DH-485 commands from an attached DH-485 master unit (for example, SLC 5/03 processor ladder logic MSG instruction). The module permits a remote master to interact with all data contained in the module. This data can be derived from other DH-485 slave devices on the network through a master port or from the ControlLogix processor.

General Specifications

- Single Slot – ControlLogix backplane compatible
- Designed especially for remote rack implementations
- The module is recognized as an Input/Output module and has access to processor memory for data transfer
- Ladder Logic is used for data transfer between module and processor.
- Configuration data obtained through user-defined ladder. Sample ladder file included
- Configuration data obtained from configuration file downloaded to module. Sample configuration file included

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The MVI56-DH485R module can be used in any application where DH-485 network connectivity is required with the ControlLogix platform. Compatible devices on a DH-485 network include:

- SLC 5/03
- SLC 5/05 (RS-232 Channel)
- 1746BAS
- MVI56-BAS

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Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 V
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
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 ms
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

The MVI56-DH485R module acts as an input/output module between the DH-485 network and the Rockwell Automation's ControlLogix backplane. The data transfer from the ControlLogix processor is asynchronous from the actions on the DH-485 network. A 4000-word register space in the module exchanges data between the processor and the DH-485 network.

This module uses a small I/O data area for data transfer between the module and the ControlLogix processor.

- The module has a Common Interface File (CIF) with 244 words that can be accessed by remote DH-485 nodes
- Read and write commands can be sent associated to the following file types: status, bit, timer, counter, control, integer, float, and CIF
- User-definable module memory usage

- Two ports emulate the DH-485 devices (peer-to-peer) with distinct node addresses
- All configuration information contained in a single, user-defined text file
- ControlLogix backplane interface
- All module-related data is contained in an internal database
- Ability to add or remove nodes without disruption of the network
- Baud rates: 9600 or 19200 baud

Additional Products

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