



DH-485 Communication Module MVI56-DH485

The MVI56-DH485 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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DH-485 Communication Module

MVI56-DH485

The MVI56 DH-485 Communication Module 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.

Features and Benefits

The MVI56-DH485 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 – 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
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

Specification	Description
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-DH485 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.

- 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

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

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To order this product, please use the following:

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