

DATASHEET

BASIC Module (DB/BAS Compatible) MVI56-BAS

This single-slot module is a powerful solution that allows the large installed base of legacy BASIC programs for the 1771-DB and 1747-BAS modules to be migrated to the ControlLogix platform with minimal effort.



Features

- ◆ Create BASIC programs to transfer data between the ControlLogix and the MVI56-BAS module.
- ◆ Create foreign device interface for specific applications and easily integrate the device with the ControlLogix processor.
- ◆ Interface to many devices that use ASCII interface to a ControlLogix backplane such as modems, printers, bar code readers, and scales.
- ◆ Save ControlLogix processor memory by running math algorithms.
- ◆ The module acts as DF1 full-duplex device or a DF1 half-duplex slave.

Functional Specifications

The BASIC programs are stored in the MVI56-BAS Compact Flash disk allowing the user to easily backup the BASIC programs to another Compact Flash disk or to a local PC. Up to 24065 Bytes of RAM are available.

The module contains three ports:

- DH-485: DH-485 communication or BASIC program transfer
- PRT1: ASCII communication or program port
- PRT2: ASCII communication or DF1 communication

The user can either create the BASIC programs using the command line, then save it to Compact Flash, or create the program on a PC and download it to the MVI56-BAS module. The user can also configure the module to execute a BASIC program automatically at power up.

- Supports BASIC-52 Programming language
- Stores BASIC programs on Compact Flash disk
- Supports 24064 bytes of RAM
- Easy BASIC program backup

DF1 Communications

- PRT2 can be enabled and configured for DF1 Communications through BASIC calls
- Uses ladder logic to transfer data between the DF1 device and the ControlLogix processor
- PRT2 port can be configured to act as a full-duplex device or half-duplex slave

The MVI56-BAS can send the following DF1 commands:

- PLC-2 unprotected READ command
- PLC-2 unprotected WRITE command
- PLC-3 word range READ command
- PLC-3 word range WRITE command
- PLC-5 typed READ command
- PLC-5 typed WRITE command

The MVI56-BAS accepts the following commands:

- PLC (word range writes)
- PLC (typed writes)
- PLC (unprotected write)
- SLC 5/02 (unprotected write)
- SLC 5/02 (typed writes)

DH-485 Communications

- The MVI56-BAS DH-485 port can be used to interface the ControlLogix processor with DH-485 Devices
- Rockwell Automation AIC+ device is required (user-supplied)
- Ladder logic is required to transfer data between the ControlLogix processor and remote data file or common interface file



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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 19200, 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

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