



BASIC Module (DB/BAS Compatible) MVI56-BAS

The MVI56-BAS module allows existing legacy BASIC programs to be migrated from the 1771 and 1746 platforms to the ControlLogix platform. This provides interface capability for many devices using the ASCII interface to the ControlLogix backplane including:

- Bar code scanner interfaces
- Weigh scale interfaces
- Legacy ASCII protocol connections
- Terminal port emulation
- Printer driver (alarm/status printer)

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

Asia Pacific

+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe – Middle East – Africa

+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America

+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)

+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil

+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

BASIC Communication Module

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 and Benefits

The MVI56-BAS module allows you to

- 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.

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 memory 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 saving it 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.

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
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
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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

- 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

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. Compatible products in the inRAX product line also include:

Generic Serial ASCII Interface Module (MVI56-GSC) 'C' Programmable Application Development Module (MVI56-ADM)

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

MVI56-BAS BASIC Module (DB/BAS
Compatible)

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

Distributors:

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North American / Latin American / Asia Pacific
orders@prosoft-technology.com,
fax to +1 661.716.5101

Europe

europe@prosoft-technology.com,
fax to +33 (0) 5.61.78.40.52

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