



'C' Programmable Application Development Module

MVI56-ADM

The MVI56 Application Development Module is a ControlLogix backplane compatible module that allows user-developed 'C' applications to operate on the ControlLogix platform. A great way to speed up custom ASCII data communications or to protect a proprietary algorithm, the ADM is a powerful tool for the ControlLogix platform.

Features and Benefits

Powerful platform for developing and running 'C' applications on Rockwell Automation's ControlLogix processors. The MVI56-ADM module is a single slot, backplane compatible solution for the Rockwell Automation ControlLogix platform. This module is a powerful and programmable solution supporting two fully isolated serial ports allowing the many serial field devices to be integrated into the ControlLogix platform.

- The MVI56-ADM module has three serial ports, two of which are isolated for field interfaces:
- CFG -- Debug/configuration RS-232
- PRT1 -- Application RS-232, RS-422 or RS-485
- PRT2 -- Application RS-232, RS-422 or RS-485

PRT1 and PRT2 are jumper configured for direct or Multi-drop field communication. The application program can be written to control the two application ports independently, allowing maximum flexibility in the design.

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

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The MVI56-ADM module is the ideal solution for many applications where serial connectivity must be added to a ControlLogix platform. Applications using the MVI56-ADM module include:

- Bar code scanner interface
- Legacy ASCII protocol connections
- Terminal port emulation
- Printer driver (alarm/status printer)
- Customized protocol implementations

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:

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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

Development Environment

- Operating system: General software DOS 6-XL
- Compatible compiler (16-bit DOS target)
 - o Digital Mars C++ V8.49 (included)
 - o Borland C++ V5.02

Application Programming Interfaces (API)

- Serial Port API: serial port functions
- Backplane API: low level backplane functions
- ADM API debug port functions: debug port functions, database functions timer functions, high level backplane transfer functions, LED functions, flash read functions

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) BASIC Module (MVI56-BAS)

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-ADM 'C' Programmable Application Development Module

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>

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