



'C' Programmable Application Development Module

MVI71-ADM

The MVI71 Application Development Module is a PLC backplane compatible module that allows user-developed 'C' applications to operate on the PLC 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 PLC platform.

Features and Benefits

Powerful platform for developing and running 'C' applications on Rockwell Automation's PLC processors. The MVI71-ADM module is a single slot, backplane compatible solution for the Rockwell Automation PLC 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 PLC platform.

- The MVI71-ADM module has three serial ports, two of which are isolated for field interfaces:
- P1 -- Debug/configuration RS-232
- P2 -- Application RS-232, RS-422 or RS-485
- P3 -- Application RS-232, RS-422 or RS-485

P2 and P3 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 – 1771 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.

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1771 chassis compatible BTR/BTW data transfer Local or remote rack
Backplane current load	800 mA @ 5 V
Operating temperature	0 to 60°C (32 to 140°F)

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The MVI71-ADM module is the ideal solution for many applications where serial connectivity must be added to a PLC platform. Applications using the MVI71-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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Specification	Description
Storage temperature	-40 to 85°C (-40 to 185°F)
Shock	30g operational 50g non-operational
Vibration	5 g from 10150 Hz
Relative humidity	5 to 95% (non-condensing)
LED Indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Debug/Configuration port (CFG)	
CFG Port (P1)	RJ45 (DB-9M with supplied cable) RS-232 only
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
Application Ports	
Application Serial port (P2, P3) (Serial Modules)	(2) RJ45 RS-232/422/485 Application ports

Functional Specifications

Development Environment

- Operating system: General software DOS 6-XL
- Compatible compiler (16-bit DOS target)
 - Digital Mars C++ V8.49 (included)
 - 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 for PLC (MVI71-GSC)

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:

MVI71-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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