



'C' Programmable Application Development Module

MVI94-ADM

The MVI94-ADM module is the ideal solution for many applications where serial connectivity must be added to a FLEX platform. Applications using the MVI94-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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'C' Programmable Application Development Module

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The MVI94 Application Development Module is a FLEX backplane compatible module that allows user-developed 'C' applications to operate on the FLEX 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 FLEX platform.

Features and Benefits

Powerful platform for developing and running 'C' applications on Rockwell Automation's FLEX I/O processors. The MVI94-ADM module is a single slot, backplane compatible solution for the Rockwell Automation FLEX I/O and Integra I/O platforms. This module is a powerful and programmable solution supporting two fully isolated serial ports allowing serial field devices to be integrated into the FLEX platforms.

The MVI94-ADM module has two serial ports, both of which are isolated for field interfaces:

- PRT1 Application/Debug/Config RS-232
- PRT2 Application RS-232, RS-422 or RS-485

PRT2 is 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

Some of the general specifications include:

- Operation via simple ladder logic
- Complete setup and monitoring of module through Debug port and user configuration file
- Flex backplane interface via I/O access

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1794 Backplane compatible Locate in any slot of Backplane
Backplane current load	20 mA @ 5 V
External power supply	12V to 24VDC 340 mA to 170 mA
Operating temperature	0 to 55°C (32 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)

Specification	Description
Shock	30g operational 50g non-operational 5g 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
Configuration Serial port (PRT1)	Mini-DIN RS-232 Hardware handshaking
Application serial Port (PRT2)	Mini-DIN RS-232/422/485 jumper selectable 500V optical isolation from backplane
Dimensions (with Module installed in Base)	3.7H x 3.7W x 2.7D inches 94H x 94W x 69D mm

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 (MVI94-GSC-E)

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:

MVI94-ADM 'C' Programmable Application Development Module

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