



'C' Programmable Application Development Module with Ethernet

MVI56-ADMNET

The MVI56 Application Development Communication Module with Ethernet is a ControlLogix backplane compatible module that allows Rockwell Automation ControlLogix processors to interface easily with Ethernet protocol (Explicit Messaging) compatible devices and hosts. Devices commonly supporting the protocol include Rockwell Automation PLCs, and host HMI systems.

Features and Benefits

The ADMNET solution is a powerful module designed with both Client and Server support. This broad support enables the module to function as a data collection sub-master, or to be a powerful slave as a remote off an HMI host. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food processing.

The MVI56-ADMNET 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 and one Ethernet port allowing the many field devices to be integrated into the ControlLogix platform.

The MVI56-ADM module has three serial and one Ethernet port, two of the serial ports 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
- Ethernet port

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

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

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1756 Chassis Compatible Local or Remote Rack
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
Application port (Ethernet)	
Ethernet Port (Ethernet modules)	10/100M RJ45 Connector Link and activity LED indicators
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking

Functional Specifications

The MVI56-ADM API Suite allows software developers access to the top layer of the ControlLogix backplane and serial ports. The MVI56-ADMNET API suite accesses the Ethernet port.

Both APIs can be easily used without having detailed knowledge of the module's hardware design. The MVI56-ADMNET API Suite consists the Ethernet Port API. The Ethernet Port API provides access to the Ethernet network. Applications for the MVI56-ADMNET module may be developed using industry-standard DOS programming tools and the appropriate API components. The MVI56-ADMNET module has three serial ports, two of which are isolated for field interfaces, and one Ethernet port.

- CFG -- debug/configuration -- RS-232
- PRT1 -- Application -- RS-232, RS-422 or RS-485
- PRT2 -- Application -- RS-232, RS-422 or RS-485
- Ethernet Port

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 Protocol Specifications

- Allows software developers to access Rockwell Automation backplane and Serial/Ethernet ports without needing detailed knowledge of the module's hardware design
- API library functions are specified using the C programming language syntax
- The following compiler versions are compatible with the MVI module API:
 - Digital Mars C++ 8.49 (included)
 - Borland C++ V5.02
- Operating System – General software DOS 6-XL
- Flash ROM program space: 896 KB
- RAM program and data space: 640 KB
- Compact Flash socket: Up to 64 MB

ADM API Libraries

Each API provides a library of function calls. This library supports any programming language that is compatible with the Pascal calling convention.

- Initialization – Open and close the API
- Debug Port – Debug port user interface
- Database – Read and write data to database
- Timer – Start and check timers
- Backplane – Transfer data over the backplane
- LED – Set user LED indicators
- Flash – Parse configuration files
- Miscellaneous – Configure the console

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

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:

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Europe

europe@prosoft-technology.com,
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