

'C' Programmable Application Development Module with Ethernet MVI69-ADMNET

The MVI69-ADMNET Application Development Ethernet Communication Module allows CompactLogix / MicroLogix processors to interface easily with Ethernet protocol compatible devices and hosts.

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 submaster, 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 MVI69-ADMNET module is a single-slot, backplane compatible solution for the CompactLogix / MicroLogix platform. It supports two fully isolated serial ports and one Ethernet port, allowing the many field devices to be integrated into the CompactLogix / MicroLogix platform with custom user-written 'C' code and various APIs supplied for Ethernet, serial and backplane communication.



General Specifications

- Single-slot - 1769 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
- Supports all CompactLogix and MicroLogix 1500 LRP Controllers except 1769-L23E-QBFC1B, 1769-L16x, and 1769-L18x

'C' Programmable

The ADM API Suite allows software developers to access the serial ports without needing detailed knowledge of the module's hardware design. The ADM API Suite consists of two distinct components: the Serial Port API and the ADM API.

Applications for the module may be developed using industry-standard DOS programming tools and the appropriate API components.

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

SDK Includes

- ADM API LIB (library) File
- ADM API Header File
- Complete API Documentation
- Image file creation utility
- Image file download utility
- DigitalMars 'C' compiler
- General software DOS 6-XL
- Example Code Files

Functional Specifications - MVI69-ADMNET

The MVI69-ADM API Suite allows software developers access to the top layer of the CompactLogix processor and serial ports. The MVI69-ADMNET API suite accesses the Ethernet port.

Both APIs can be easily used without detailed knowledge of the module's hardware design. The MVI69-ADMNET API Suite consists of the Ethernet Port API. The Ethernet Port API provides access to the Ethernet network. Applications for the MVI69-ADMNET module may be developed using industry-standard DOS programming tools and the appropriate API components.

The MVI69-ADMNET module has two serial ports, one of which is isolated for field interfaces, and one Ethernet port.

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

PRT1 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 Protocol Specifications

- Allows software developers to access CompactLogix/MicroLogix processor 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 MVI69-ADMNET 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



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Hardware Specifications

Specification	Description
Dimensions	Standard 1769 single-slot module
Current Load	800 mA max @ 5 VDC Power supply distance rating of 2 (L43 and L45 installations on first 2 slots of 1769 bus)
Operating Temp.	0°C to 60°C (32°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (with no condensation)
LED Indicators	Power and Module Status Application Status CFG Port Activity Ethernet Port Activity Error Status
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
App Port (Ethernet modules)	10/100 Base-T Ethernet compatible interface Electrical Isolation 1500 Vrms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable

Agency Approvals and Certifications

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