

DATASHEET

'C' Programmable Application Development Module MVI69-ADM

The MVI69 Application Development Module allows user-developed 'C' applications to operate on the CompactLogix / MicroLogix platform. The ADM is a powerful tool for speeding up custom ASCII data communications or protecting a proprietary algorithm.

The MVI69-ADM module is a single-slot, backplane compatible solution for the CompactLogix / MicroLogix platform. This module supports two fully isolated serial ports, providing integration of the many serial field devices.

The MVI69-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



Features

- ◆ 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
- ◆ 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.

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

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. | 32°F to 140°F (0°C to 60°C) |
| Storage Temp. | -40°F to 185°F (-40°C to 85°C) |
| Relative Humidity | 5% to 95% (with no condensation) |
| LED Indicators | Battery and Module Status Application Status Serial Port Activity CFG Port Activity |
| CFG Port (CFG) | RJ45 (DB-9F with supplied cable) RS-232 only No hardware handshaking |
| App Ports (P1,P2) (Serial modules) | RS-232, RS-485 or RS-422 (jumper selectable) RJ45 (DB-9F with supplied cable) RS-232 handshaking configurable 500 V Optical isolation from backplane |
| 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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