



FA Control Network Communication Module

MVI56-FLN

The MVI56-FLN FA Control Network Communication Module is a single slot solution that allows Rockwell Automation ControlLogix I/O compatible processors to easily interface with other FL-net protocol compatible devices. The module implements FL-net version 2.00 (OPCN-2) defined by JEMA (The Japan Electrical Manufacturers Association) for the standard FA control network. FL-net is a master-less system and is specified for a 50 ms cycle time for 32 nodes (with 2kbit + 2kWord cyclic data in total) and up to 254 nodes can be addressed.

The MVI56-FLN module acts as a gateway between the FL-net network and the Allen-Bradley backplane. The data transfer from the ControlLogix processor is asynchronous from the actions on the FL-net network. The module's internal database can be used to exchange Area 1 and Area 2 cyclic, network, and module status data between the processor and the FL-net network.

Features and Benefits

The MVI56-FLN module accepts commands to control and monitor the data stored in the databases. This data is passed between the module and the ControlLogix processor over the backplane for use in user applications.

General features include:

- Master-less token control method
- FA link protocol on Ethernet UDP/IP
- Cyclic data transfer: Supports virtual memory Area 1 and Area 2. The cyclic data is mapped to the modules I/O area

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-FLN module provides highly configurable FL-net capabilities to the ControlLogix platform. FL-net (OPCN-2) is a processor-level network conforming to specification Japan Electrical Manufacturers Association JEM1479. Developed to focus on multi-vendor communications of programmable processors, NC processors, Robotic and other Motion Control systems.

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