

VUANCE's MLC-32i is a fully Programmable Logic Controller (PLC) with distributed intelligence. Each controller has its own processor and makes its own decisions. Ladder logic programming is stored in every controller so you might call it a smart (S)PLC. It's flexible, dependable and easy to program.

The advantages here are simple. Because every controller has its own processing power, the system can continue to grow without losing performance. This also brings the single point of failure down to one controller.

The Echelon communications network provides fast peer-to-peer communications between controllers; where one controller can control other controllers on the same network. The family of products include a variety of input and output controllers fully programmable and fully compatible with its sister product, the MAC-4R Access Controller.

Main Features

The MLC-32i supports up to 32 input points. Each input can be individually configured to operate as analog or binary. In binary mode the inputs can operate as normal open or closed with no supervision, 3 or 4 state supervision. Every point is equipped with LED status indicators to provide visual status of the point. Up to 7 controllers can be rack mounted in the ENC-RM enclosure.

All points are programmable and can be used to activate or trigger other points. Program information is stored in non-volatile flash memory. More than 500 instructions are allowed. Programming structure is drag-n-drop full function ladder logic with over 50 ladder commands. The system battery maintains a transaction buffer and time for a minimum of 6 months on power failure. The real-time clock provides for timing down to the second. If, for any reason, the controller is unable to transmit the event to the host computer, the controller's FIFO buffer will store up to 800 transactions.



- 32 programmable input points
- Supervised or non-supervised
- Analog capabilities
- LED status indicators
- Stand alone processor
- Graphical ladder logic programming
- Program stored in flash memory
- Communications via LonTalk® 78 KBPS bus
- Star, loop or bus topologies
- Peer-to-peer control
- Rack mount design
- Plug-in connector blocks
- Real-time clock
- UL registered component construction

Specifications

Power

12-30 VDC
70 ma base current
15 ma per activated input
550 ma maximum draw
Memory backup - 6 months

Outputs

32 two or four-state inputs configurable as binary or analog input detectors. 0-12 V @ 10 samples per second with 12 mV resolution
LED status indicators

Data

78 KBPS Free Topology twisted pair transceiver using the LonTalk protocol provides communications to host computer as well as peer-to-peer communications between control panels

Termination

Minimum 24 AWG stranded wire
Maximum 14 AWG stranded wire

Operating Temperature

-20° to 85° C
-4° to 150° F

Dimensions

PCB Board, 4" W x 11" H x 1" D
Overall with connectors,
4.5" W x 11" H x 1" D

Parts and Ordering Information

| MLC-32i Controllers | |
|---------------------|---|
| MLC-32i | MLC-32i Rack mount Input Adapter with MPU-32i |
| MLC-32i-PCB | MLC-32i (PCB only) |
| MLC-32i Components | |
| MPU-32i | Processor Unit for 32i |
| ENC-RM | Enclosure for 32i and 16R (7 units per) |
| PWR-RM | 24 VDS 4-AMP DC Power Supply for Rack |
| LT-SA-10 | LonTalk Serial Adapter |
| LT-EA | LonTalk Ethernet Adapter |
| LT-RTR | LonTalk Router |