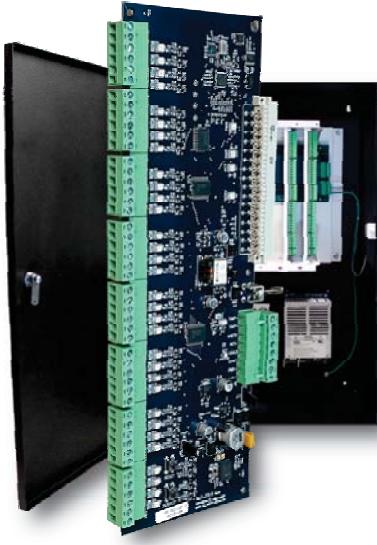# MLC-32i
# LOGIC CONTROLLER (SPLC)

## Abba Logic
### PLC Based Access Control

**So what's a SPLC?** It's a fully Programmable Logic Controller (SPLC) with distributed intelligence. Each controller has its own processor and makes its own decisions. Ladder logic programming is stored in every controller to perform as 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.

Equipment can be spread out into multiple wiring closets so home run cabling is not required. This can save tens of thousands of dollars during installation.

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 includes a variety of input and output controllers fully programmable and fully compatible with its sister product, the MAC-4R Access Controller.

**- It's a PLC, no it's better than a PLC. It's a SPLC.**

## 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. In short, it's a Echelon PLC controller.

Up to 6 controllers can be rack mounted in the ENC-RM enclosure (Provided Separately). 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 different ladder commands. Configuration data written to flash ROM. The Real-Time clock provides for timing down to the second. If for some reason the controller is unable to transmit the events to the host PC the controller's FIFO buffer will store the last 800 transactions.

- 32 Programmable Inputs
- 2, 3, or 4 State Supervision
- Analog Capabilities
- LED Status indicators
- Stand Alone Processor
- Programming Stored in Flash
- Lon-Talk FT - 78KBPS
- Peer-to-Peer Control
- Rack Mount Design
- Graphical Ladder Programming
- IP or USB Connectivity
- Real-Time Clock
- Echelon PLC Control
- Flush or Rack mounted
- UL 294 Listed

# MLC-32i
# LOGIC CONTROLLER (SPLC)

## Abba Logic

### Part Numbers for Ordering

| | |
|---|---|
| **MLC-32i** | MLC-32i Input Controller (SNVT Version) |
| **ENC-RM-Wall** | 18" x 27" x 8.5" Wall Mount Enclosure with Rack |
| **ENC-RM-19** | 19" Rack rails with BP-6 Cage |
| **PWR-24V-100W** | 24 VDC 100 Watt Power Supply |
| **PWR-24V-240W** | 24 VDC 240 Watt Power Supply |
| **LT-IP** | Lon-Talk to Ethernet Adapter |
| **LT-USB** | USB Adapter |

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# Specifications:

## Power

- 12-30 VDC @ 456 mA Max
- 12 VDC when powered by Battery
- 3.5 VDC @ 350 mAH Memory Bat
- Allocate 3 amps of power per rack

## Data

- 78KBPS Free Topology twisted pair transceiver using Echelon Lon-Talk Protocol provide Host communications and Peer-to-Peer communications.
- SNVT Support

## Outputs

- 32 Inputs all individually programmed as 2, 3, 4, state suppervision
- Analog resolution on 12 or 24V devices, 10 samples per second with 12mV resolution
- LED Status Indicators
- Peer-to-Peer Communications

## Operating Temperature

- -20º to 85º C
- -4º to 150º F
- 95% Humidity (non-condensing)

## Dimensions

- PCB Board, 4.5"W x 11"H x 1" D
- ENC-RM 16" W x 16" H x 6.75" D

*Lon-Talk and Lon-Works are registered trademarks of the Echelon Corporation*
*Notice: MAC-4R-NV specifications are subject to change without notice*